2019 Canadian Transplant Summit Abstract Booklet

Oct 16-19, 2019 | Banff, AB, Canada

Member of: CST

Abstract Type: Adult Abstract

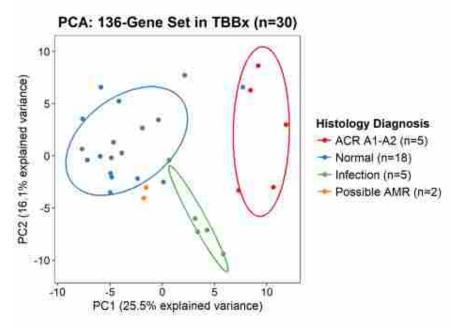
Member Type: Full

Science Type: Clinical Science

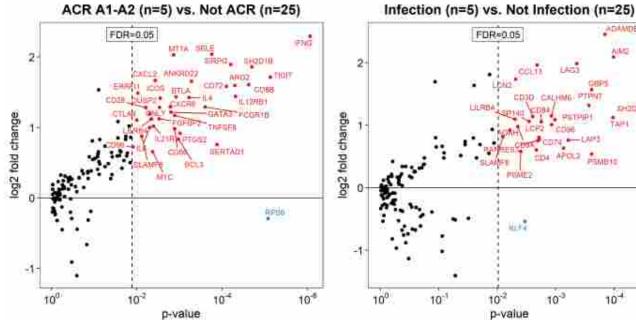
Group Category: Lung Submission: Oral or Poster/E-Poster

Abstract Body: Background: Transbronchial lung transplant biopsics (TBBs) are limited by non-specific histologic lesions and suboptimal interobserver reproducibility. Gene expression offers a potentially more precise, objective and mechanistic diagnostic approach, but it has not yet been tully uturzed in uning transplants. 1 inc amino this study was to assess the feasibility of gene expression in formalin-fixed paraffilm-inheed paraffilm-inheed

Abstract Image 1:



Abstract Image 2:



ADMINDED FDR=0.05 AIME CDID CALHMO PIPUT \$91001A CD4 APOLD PEMBIC 11.14 10-3 10-2 104 p-value

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

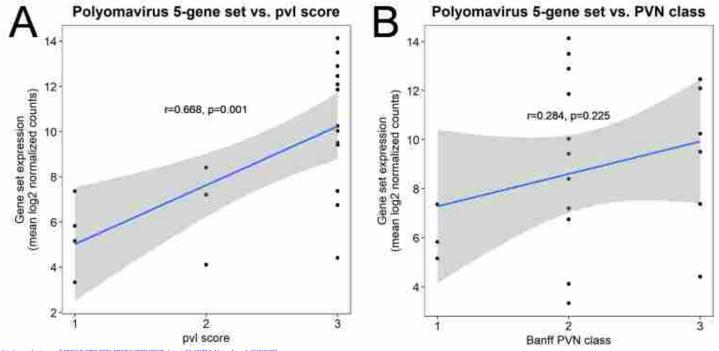
Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Hattere: 1cs

Abstract Body; Background: Improved immunosuppression protocols have reduced previously identified a set of 5 polyomavirus (PV) genes (Agnoprotein, LTAg, VPI) expression with histologic and clinical features. Methods: AnnoString was used to releasions, PVN Class, and clinical outcome 6 months post-biopsy. Results: PV 5-gene 70-005. Clinical outcomes 6-months post-biopsy. Results: PV 5-gene 70-005. Clinical outcomes 6-months post-biopsy included resolution of virential PVI that PV gene expression correlates with pis soor (i.e. histologic burden of viral relp potential utility of endogenous (non-virus) immune-featured genes in PVN.



${\footnotesize \begin{array}{c} \text{ID: 5}\\ \text{Molecular Characterization of Immune Checkpoint Inhibitor-Associated Renal Allograft Rejection} \\ \end{array}}$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

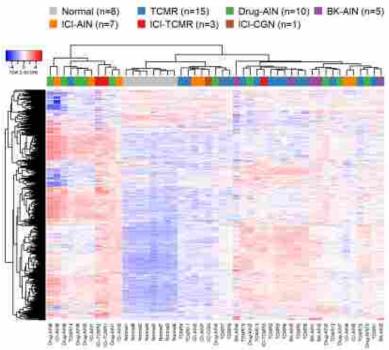
Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

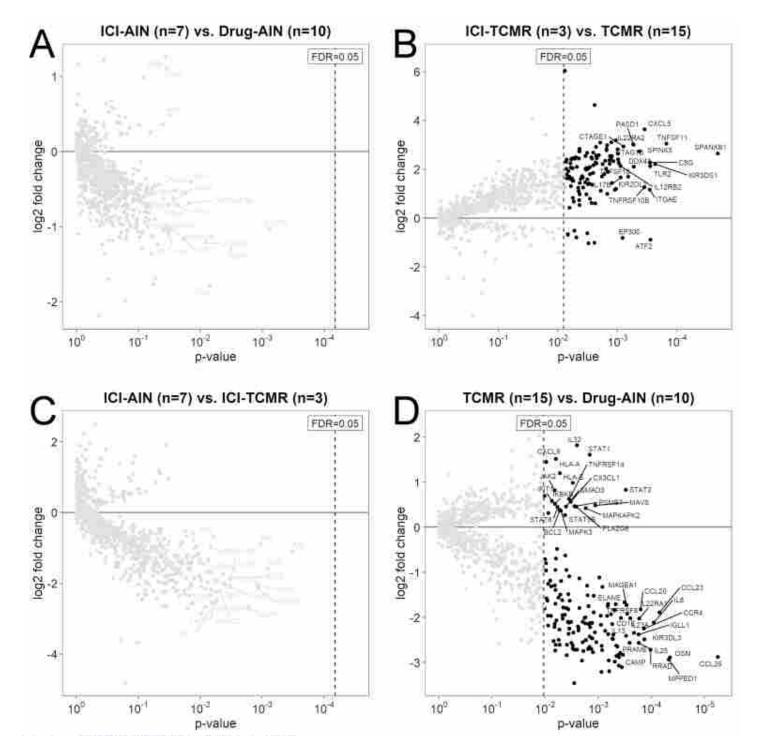
Trainee: Yes

Astrard Body: Background: The use of immune checkpoint inhibitors (IC1s) for various malignancies has been associated with numerous immunological adverse events, including acute interstitial nephritis (AIN) in native kidneys and acute T-cell mediated rejection (TCMR) in transplant kidneys. The good of this study was to further characterize these adverse events through comparative molecular analysis. Methods. NanoString was used to measure the expression of an 800-gene immune profiling panel in 49 archival kidney biopsies, including, native kidney biopsies with ICI-clated AN (ICI-AIN, n=7). In AIN (ICI-AIN, n=7). AIN (I

Abstract Image 1:



Abstract Image 2:



Member of: CST Abstract Type: Adult Abstract Member Type: Traince

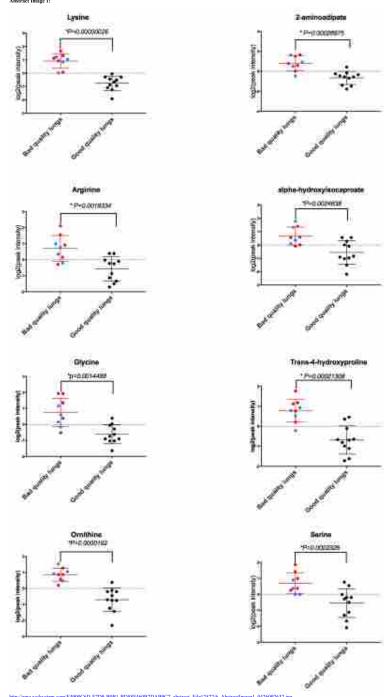
Science Type: Clinical Science Group Category: Lung

Submission: Oral or Poster/E-Poster

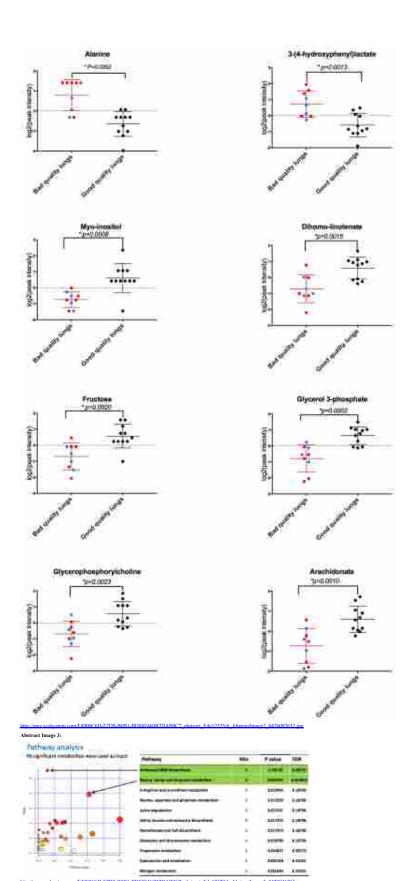
Trainee: Yes

Abstract Body: Background: Ex-vivo lung perfusion (EVLP) has become a widespread method to evaluate marginal donor lungs. Due to the high-risk nature of donation after circulatory death (DCD) lungs, most undergo EVLP for assessment. The difficult decision to transplant or reject a lung is guided primarily by physiological measurements, however, surgeons would greatly benefit from biochemical data to support their evaluation of lung quality. Thus, it is import to fine specific biomarkers that meet this need, which will necessitate accurate and reliable techniques that identifies the interaction of the properties of th

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Abstract Image 2:



ID: 7 Living Kidney Donation Key Success Factors for High Performing Canadian Programs

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Abstract Body: Background: Despite the significant advantage from living kidney donation (LKD), the rate of living kidney transplantation has declined by 11% since 2008 in Canada. It is generally accepted that key components for a high performing LKD programs exist, and when implemented, lead to improved performance. In the fall of 2018, an environmental scan was undertaken to build on previous reports and to identify key success factors of high performing living kidney donation and transplantation (LKDT) programs across Canada. The objective of this scan was to understand perspectives from both individual professional and program levels on best professional and program levels on best may be a professional deviation of the program serving decisions were designed as categories representing quantifiable practice implementation of performance influences coore, using a 6-point Likert-scale. Results: 31.1 % questionnair response rate (n=68), representing a quantifiable practice implementation of best practices in living donation and better programs performance. • Examples of such practices include having a culture of transplant first, resources added to their programs and quality assurance on adaptive such as a consistent program performance understand the program level. Conclusions: Canadian LKDT programs evidencing by on improved performance indicated that their performance understand the program is evidencing by the program is evide

ID: 8 Apoptotic exosome-like vesicles are internalized by endothelial cells through phosphatidylserine-dependent macropinocytosis

Member of: CDTRP Abstract Type: General Abstract

Member Type: Traince Science Type: Basic Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: Ischemia-reperfusion and rejection favor endothelial apoptosis, which in turn contributes to maladaptive vascular repair leading to transplant vasculopathy. Apoptotic endothelial cells (EC) release exosome-like vesicles (ApoExo) that, when uptaken by neighboring EC, shape gene expression and functions in directions conducive to endothelial dysfunction and mesenchymal transition. However, the mechanisms by which EC internalization were isolated by utracentrifugation from serum-free media conditioned by primary human EC lead to primary human EC lead to

 ${\bf ID:9}$ Recombinant apoptosis inhibitor of macrophage protein ameliorates transplant is chemia-reperfusion in jury

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Ischemia-reperfusion injury (IR) during kidney transplantation is associated with acute rejection and long-term graft loss. During IRI, pro-inflammatory mediators (e.g. HMGBI) released from necrotic and uncleared apoptotic renal tubular epithelial cells (TECs) exacerbate tissue damage, and potentiate alloimmance injury. We uncovered that mice deficient in Kidney Injury Molecule-1 (KiM-1) were more susceptible to renal dysfunction and death after native and transplant kidney. IRI than wild-type, KIM-1 is a transmembrane glycoprotein specifically upregulated on proximal TECs during renal injury, enabling apoptotic and necrotic engineering than the protein produced by macrophages and liftered by the glomerulus during IRI acumulating on encortic debris within proximal renal bubles in both humans and misc. We further revealed that administration of intravenous recombinant AIM (rAIM) earl be used as the rapy that targets KIM-1 to ameliorate transplant-associated in the protein than the protein produced of kindey transplantation. Methods: We performed suggle syngencie kidney transplantation is sensitively resolved to the proposition of rAIM (Zingmi) protein produced for the province of the province and the province and the province of the province and the provin

ID: 10 Improving the care for pediatric transplant patients through integration of patient-reported outcome measures into clinical practice

Member of: CDTRP Abstract Type: Pediatric Abstract

Member Type: AHP

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Astrard Body: Background: Subjective evaluation of medical care and treatment from the patient's perspective is increasingly important. Patient-reported outcome measures (PROMs) are defined as: "any report of the patient's health condition that comes directly from the patient, without interpretation of the patient's response by a clinician or anyone else." This study explores the perspectives of pediatric solid organ transplant patients, caregivers and healthcare provides on implementing PROMs into clinical practice, guided by the International Society for Quality of Life Research—Use's Guide for Implementing international patients, caregivers and patients and caregivers and patients, caregivers and patients, caregivers and patients, caregivers and caregivers and caregivers and caregivers and caregivers and patients, caregivers and careg

${\small ID: 11} \\ EFFECTIVENESS \ OF A \ HOME-BASED \ PRE-HABILITATION \ PROGRAM \ FOR \ LUNG \ TRANSPLANT \ CANDIDATES: A \ RETROSPECTIVE \ CHART \ REVIEW$

Member of: CST Abstract Type: Adult Abstract

Member Type: Traince Science Type: Clinical Science Group Category: Lung

Submission: Poster/E-Poster only

Trainee: Yes

Trainer: Yes

Astrard Body: Rationale: In Canada, most lung transplant programs offer mandatory hospital-based pre-transplant exercise programs to optimize fitness and prevent deconditioning in lung transplant candidates. Home-based programs offer an alternative for exercise pre-transplant, giving access to rehabilitation to a larger number of patients and lower healthcare cost. Objectives: to describe changes in functional exercise capacity (6-minute walk distance-64MVD) in lung transplant and notice and a home-based exercise program and determine the relationship between changes in functional exercise capacity (6-minute walk distance-64MVD) in lung transplant and post-transplant and a line points time more observed a lung transplant and between 2011-105, participated in a home-based exercise program while waiting transplant and a line points time consolit study of 17st individuals who recreaded a lung transplant and between 2011-105, participated and a line point interned a large patient for the substantial transplant and transplant

ID: 12 Medical follow-up among living kidney donors: Adherence to a provincial protocol of follow-up after donation in a Canadian province

Member of: CST

Abstract Type: General Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

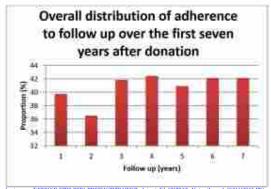
Submission: Oral or Poster/E-Poster

Trainee: Tes

Abstract Body: Background: Medical follow-up after living kidney donation is an essential component of living donor care, yet their remains considerable variability across Canada in post-donation practices. We describe adherence to a provincial program of donor follow-up which is directed by the transplant program, but implemented by primary care physicians. Methods: We identified 338 kidney donors between 2005 and 2008 and examined their adherence to follow-up over a 7-year follow-up period. Adherence was defined as completion of either urine albumin/creatinine ratio (uACR) or serum creatinine, as captured by our provincial data system. Adherence was examined per year over the study period and the association of key donor characteristics with adherence was examined per year over the study period and the association of key donor characteristics with adherence was determined between 5.6°, which is a second of the period of the

Abstract Image 1:

Figure 1: The proportion of donors that completed laboratory follow-up testing in each year following donation.



ID: 13
How do DCD donor families experience prospective clinical research participation at the time of their loved one's death in the intensive care unit?

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Associate

Science Type: Clinical Science Group Category: Donation Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Abstract Body: Background: For donation after circulatory-determined death (DCD), donor-management occurs in imminently dying patients after a decision to remove life sustaining therapies but before death is declared. A major challenge facing prospective clinical research in this population is the sensitive time-frame in which research consent must occur with griciving family members as decision-makers. This project is the first to investigate family members with participation in research during the process of withdrawal of life sustaining therapies in potential DCD donors Methods: We interviewed 32 family members but a found and transcribed verbraims. Results: Most participants and pointed on memory of consenting to research and of their loved one; a participant participant in participants and limited on memory of consenting to research and of their loved one is a participant participant participant in participants and participants and participants and limited on the participant in participants and participants and

ID: 14 The Evaluation of Coronary Artery Autoregulation During Normothermic Ex Situ Heart Perfusion

Member of: Student/Others

Abstract Type: General Abstract

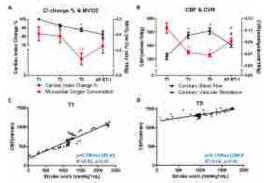
Member Type: Traince

Science Type: Basic Science Group Category: Heart

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstrace Body: Background: Ex situ heart perfusion (ESHP) has emerged as a platform for reconditioning marginal donor hearts and expanding the donor pool. The coronary autoregulation is essential to maintain normal myocardial perfusion and cardiac function during ESHP. The objective is to investigate coronary autoregulation mechanism during ESHP and find ways to protect coronary function during heart preservation. Methods: The procure hearts of everlated in ex-situ working heart system at 37°C for bours (with whole blood based perfusiase). Coronary seculated east and cardian efficiency artery function. In the least will be varied by increasing or decreasing left artifacts perfusions from the corresponding responses in coronary artery function. In the beart will be varied by increasing or decreasing left artifacts pressure to observe the corresponding responses in coronary artery flows. During 6 hours nonothermic perfusion, cardiac function declined over time (p=0.05); myocardial oxygen consumption was decreased against pressure to observe, at 15, the regression line is significantly (p=0.01), At 11 of the pressure of the pressure oxygen artery flows shows a strong correlation with felt ventrices stock ower (p=0.01), R=0.25 hours over at 15, the regression line is significantly different (p=0.01), which retains the oversign (R2 = 0.06), which heaves as myocardial function damad increases, compared with oversign (R2 = 0.06), which heaves any oversign of the pressure oxygen artery flows a transport of the pressure oxygen artery flows the pressure oxygen artery flows the pressure oxygen artery flows are the pressure oxygen at 15 and 15 constant oxygen artery flows are the pressure oxygen



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ID: 15 Normothermic Ex-Vivo Kidney Perfusion Preservation Reliably Improves Extreme Marginal Graft Function Compared to Hypothermic Machine Perfusion

Member of: CDTRP Abstract Type: Adult Abstract

Member Type: Traince

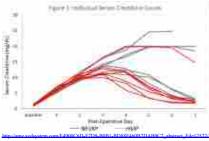
Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Astrard Body: Backgound: Normothermic ex-vivo kidney perfusion (NEVKP) is an emerging technique for renal graft preservation. We investigated whether NEVKP promoted improved marginal graft function compared to anoxic hypothermic machine perfusion (HMP) in a model of donation-after-cardiac-death (DCD). Methods: Kidneys from 30kg-Yorkshire pigs were removed following 120min of warm ischemia (WI). These grafts were preserved with HMP (LitePort 1.0, n=7) or NEVKP (n=7) for 8-hrs prior to heterotopic autotransplantation. Results: During NEVKP, 120min WI grafts cleared perfusion lactate (0hr; 10.48±0.93mmol/L vs 7hr; 1.48±0.85mmol/L, p. Conclusions: Marginal kidney grafts subjected to 120min of WI before retrieval showed reliable improvement in function following 8hrs of continuous NEVKP compared to HMP where improvement was inconsistent. This suggests NEVKP would be a preferable storage strategy for DCD procured grafts with extended WI limes.

Abstract Image 1:



ID: 16 Multiple Drug Resistant Urinary Tract Infection in Kidney Transplant Recipients: A Retrospective Cohort Study

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Boly: Abstract Objective: Urinary tract infection (UTI) is the most common infectious disease in post-kidney transplantation patients. The objective of the study was to investigate the prevalence, impact and risk factors of multiple drug resistant (MDR) UTI in kidney transplant recipients. Methods: This retrospective cobort study recruited 72 kidney transplant recipients between March 2017 and February 2018. Urine cultures performed during first 1st year of post-transplantation with reference to clinical data were also evaluated. Preclesigned questionnaire was used to collect data regarding demographic, transplant related and microbiological information. Regression analysis was performed to ascertain risk factors of him DRB UTI. Results: 28(3.89%) had quied clinical UTI. Overall, 50 UTI opinical seven to reduce the requirement of the study. Selection colvers from denote for fundation of this study. Selectical colvers for fundation of the study selection of the study selection of the study. Selectical colvers for fundation of the study selection of the s

ID: 17
Universal Prophylaxis with Valganciclovir versus Preemptive Therapy in Minimizing the Risk of Cytomegalovirus Infection and Disease in High and Intermediate Risk Kidney Transplant Recipients: A Single-centered Experience

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No Abstract Boly: Abstract: Objective: Cytomegalovirus (CMV) is one of the most frequent viral pathogens resulting in post-transplantation infection. Universal prophylaxis and preemptive therapy has long been used to prevent and treat cytomegalovirus (CMV) infection in post-transplantation cases, respectively. The aim of this study was to compare the universal prophylaxis with valganciclovir versus preemptive therapy in minimizing the risk of CMV infection and disease, in lyant configuration and disease, in lyant config

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Heart

Submission: Oral or Poster/E-Poster

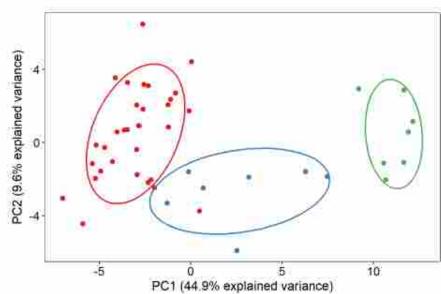
Trainee: Yes

ervation and repair. We aimed to assess the utility of gene expression for better. F. unctional parameters were recorded during EVHP. Histology was assessed for onent analysis demonstrated distinct clustering of sample groups based on gene expression, respectively, in EVHP vs. IV, EVHP vs. II+L, and H-H_ vs. IV (p < 0.001) jury appears reduced in combined heart-live per fixion. This represents a novel

Abstract Image 1:

Principal Component Analysis: All 68 Genes



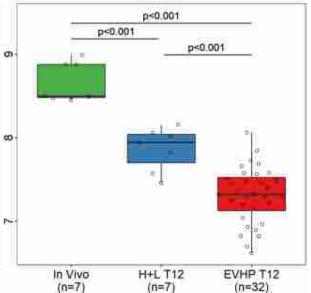


tract Image 2:

Upregulated 44-Gene Set

p<0.001 0 p<0.001 p<0.001 Mean log2 normalized counts 9 H+L T12 EVHP T12 In Vivo (n=7)(n=7)(n=32)

Downregulated 12-Gene Set



Abstract Image 3:

Table 1: Correlation between gene set expression and functional parameters in 39 porcine hearts after 12 hours of ex vivo perfusion.

	Upregulated 44-gene set		Downregulated 12-gene set	
Functional Parameter	r-value	p-value	r-value	p-value
Weight gain (%)	0.101	0.553	-0.121	0.474
Cardiac Index (ml/min/gram)	-0.516	0.002	0.073	0.681
Change in cardiac index (%)	-0.626	< 0.001	-0.072	0.682
MVO2 (ml O ₂ /min/100g)	-0.513	0.002	0.260	0.143
Arterial lactate (mmol/L)	0.640	< 0.001	-0.549	< 0.001
Oxygen extraction (%)	-0.612	< 0.001	0.434	0.011
Cardiac output (L/min)	-0.523	0.002	0.087	0.630
Stroke work (mmHg·ml)	-0.623	< 0.001	0.250	0.167
Systolic pressure (mmHg)	-0.347	0.051	0.327	0.067
dP/dt _{max} (mmHg/s)	-0.382	0.030	0.174	0.341
dP/dt _{ein} (mmHg/s)	0.481	0.006	-0.241	0,190

ID: 19 What attitude should we adopt with early graft failure in a recipient who participated in kidney paired donation?

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Living kidney transplantation offers the best medical outcomes for patients with end-stage renal disease. Living kidney donors have to be blood group and immunologically compatible with their recipients. Kidney paired donation (KPD) allows patients to circumvent the incompatible living donor and other pairs in the same situation by coordinating "sidney swaps" between incompatible pairs in Canada. Participation in KPD for these incompatible pairs, accordingly, means that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney could travale to the recipient Transplant norms that the kidney of KDP is rare and happens in less than 19%. In Canada, Panaged through the Canadian Blood Services (CBS) in coordination with the provincial and territorial organ donation organizations. Recently, a kidney recipient and the provincial and territorial organ donation organizations. Recently, a kidney recipient transplant norms of the fact that their living donors has participated in RPD. In this presentation is recently a kidney recipient and the provincial and territorial organ donation organizations. Recently, a kidney recipient transplant norms of the fact that their living donors has participated in RPD. In this presentation, or the fact that their living donors has participated in RPD. In this presentation is provinged for a kidney recipient with early and failure in recognition of the fact that their living donors has participated in RPD. In this presentation, or the fact that their living donors has participated in RPD. In this presentation is provinged for a kidney recipient with early gard failure.

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ID: 20 A machine learning approach to predict tacrolimus level post-tacrolimus initiation after pediatric solid organ transplantation

Member of: CDTRP

Abstract Type: Pediatric Abstract

Member Type: AHP

Science Type: Clinical Science

Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Astrard Body: Background There are significant challenges in achieving therapeutic tacrolimus levels after solid organ transplantation (SOT). We explored factors predicting tacrolimus levels post-transplant. Methods Pediatric SOT recipients were enrolled across 7 centers. Tacrolimus levels were captured at 36-48 hours post-tacrolimus initiation (T1) and serially for 1-year post-transplant. A linear mixed effect model was used to identify clinical factors associated with facrolimus levels and genome-wide analysis to identify SNPs. To determine important predictors of T1 level, a machine long approach was posted. Three randomles were considered clinical factors only, SNPs only, and clinical factors sheets variance of a variable was measured by the was measured by the two the variable was a readomly permuted across observations of T1 level, a machine learning approach was measured by the was measured by the two the variable was a readomly permuted across observations. Regression tree was used to approximate the RF model swith a readomly permuted across observations. Regression tree was used to approximate the RF model swith a readomly permuted across observations. Regression to the was used to approximate the RF model swith a readomly permuted across observations. Regression to the was used to approximate the RF model swith a readomly permuted across observations. Regression to the was used to approximate the RF model was used to approximate the RF model of the readomly permuted across observations. Regression to the permuted permuted across observations are used to approximate the RF model with a readomly permuted permuted across observations. Regression to the permuted permuted permuted across observations are used to approximate the RF model with a readomly permuted per

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/20_AbstractImage2_0517091034.pdf$

ID: 21 Sex and CD4 T cells are important factors in natural ABO antibody production in mice

Member of: CDTRP
Abstract Type: Pediatric Abstract
Member Type: Traince
Science Type: Basic Science
Group Category: Heart
Submission: Oral or Poster/E-Poster
Traince: Yes

Trainer: 15

Abstract Body: Background: ABO-incompatible organ transplants (ABO-Tx) are at high-risk of rapid rejection mediated by preformed ABO antibodies (Abo), except during inflancy when these are absent. ABO Abs are produced 'naturally' in humans and mice without obvious exposure to ABH-antigens. Our group showed CD4

T-cells are needed to induce anti-A Ab production following immunization of wild-type (WT) mice with human A red blood cells (Hu A-RBC), however it remains unclear whether natural ABO Ab production is requires T-cell. Furthermore, sex is an important biological factor in minume responses and may also play role in ABO Ab production. Herein, we investigated the roles of sex, microbiome, and requirement of T cells for the production of natural ABO Ab was measured by the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured by the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured to the production of the production of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured to the service of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured to the service of the A-RBC (weekly, XJ) or were untracted. Serum anni-A Ab was measured to the service of the A-RBC (we

Abstract Image 1:

Table

Treatment	Recipients	Age	Number	Anti-A Titer
Untreated	WT B6 females	6 - 10 weeks	8	4
Untreated	WT B6 males	6-10 weeks	7	2
Hu A-RBC injection	Female B6 WT	6-10 weeks	3	1024
Hu A-RBC injection	Male B6 WT	6 – 10 weeks	6	1024
Untreated	CD4KO females	6 – 10 weeks	7	1024 - 4096
Untreated	CD4KO males	6-10 weeks	3	16
Hu A-RBC injection	CD4KO females	6 - 10 weeks	7	1024 - 4096
Hu A-RBC injection	CD4KO males	6 – 10 weeks	5	16
Untreated	MHC-ii females	6 – 10 weeks	5	1024 - 4096
Untreated	MHC-ii males	6-10 weeks	3	16
Hu A-RBC injection	MHC-ii females	6 - 10 weeks	3	1024 - 4096
Hu A-RBC injection	MHC-11 males	6 - 10 weeks	4	16-32
Untreated	αβ/γό T colls KO females	6 - 10 weeks	3	1024 - 4096
Untreated	αβέγδ T colls KO males	6 - 10 weeks	3	16-32
Hu A-RBC injection	αβ/yδ T cells KO females	6-10 weeks	5	1024 - 4096
Hu A-RBC injection	αβ/γδ T cells KO males	6 – 10 weeks	5	16-32
Antibiotics	WT B6	6 – 10 weeks	5	4
Antibiotics + Hn A-RBC injection	WT B6	6-10 weeks	5	256 - 512
Antibiotics	CD4KO females	6 - 10 weeks	6	32
Antibiotics *	CD4KO males	6 - 10 weeks	10	4 - 8
Antibiotics" + Hu A-RBC injection	CD4KO females	6 - 10 weeks	9	32
Antibiotics + Hu A-RBC injection	CD4KO males	6 - 10 weeks	5	8 - 16

^{*}Antibiotics: 1g/L of neomycin, ampicillin, streptomycin, metronidazole and 0.25 g/L of vancomycin.

http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/21_AbstractImage1_0513014122 ins

ID: 22
Transplant candidates' and transplant recipients' perspectives on the decision to accept or refuse an offer for a deceased donor kidney

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background: The decision to accept or refuse a kidney from a deceased donor can be a difficult one. This study aims to capture the perspectives of transplant candidates and recipients on the decision-making process when a deceased kidney is offered for transplantation. Methods: We conducted five focus groups with 17 kidney transplant candidates (TCs) between November 2017 and December 2018. The discussions were digitally recorded and transcribed. The content of the interviews was analyzed using the qualitative thermatic and content method. Results: Particular transplantation and content method. Results: Particular transplantation and transplant candidates (TCs) between November 2017 and December 2018. The discussions were digitally recorded and transcribed. The content of the interviews was analyzed using the qualitative thermatic and content method. Results: Particular transplantation and transplant candidates (TCs) between November 2017 and December 2018. The discussions were digitally recorded and transplant candidates (TCs) between November 2017 and December 2018. The discussions were digitally recorded and transplant candidates (TCs) between November 2017 and December 2018. The discussion with the particular transplantation and transplant candidates (TCs) between November 2017 and December 2018. The discussion with the particular transplant (TCs) between November 2017 and December 2018. The discussion of the content of the interviews was an advantage of the circumstantation. To facilitate the decision of the decision of the discussion of the offered kidney and on wait time prolongation if the offer is declined. The interest for a decision assistance application for patient uses was not high. Rather, patients expected transplant physical interest to a decision assistance application for patient uses was not high. Rather, patients expected that they would like to have some information on the expected survival time of the offered kidney and on wait time prolongation if it is refused

ID: 23 Psychosocial risk factors and tr	ansplant suitability for patients with less than 6 months of abstinence: First year review of the Ontario ALD pilot program
Member of: Student/Others	
Abstract Type: Adult Abstract	
Member Type: AHP	
Science Type: Clinical Science	
Group Category: Liver	
Submission: Oral or Poster/E-Po	ster
Trainee: No	
May 2018, allowing for patients v METHODS All referrals were ass information was recorded. RESUI majority were male (76%) and Ca disorder, while some were unwill	P Patients with alcohol-associated liver disease (ALD) typically require 6 months of abstinence prior to being considered for liver transplant (LT). Though bongstanding, there is ethical uncertainty and empirical inconsistency behind this practice. The ALD Pilot Program was initiated in Onatrio in with less than 6 months of abstinence to be referred for transplant. This previously excluded population is extensively assessed from a psychosocial perspective, including an examination of severity of alcohol use disorder, social support, psychiatric comorbidity, and other social determinants of healt severage and addiction psychiatrics, to determine whether patients met the inclusion criteria developed for the Pilot Program. Psychosocial suitability for transplant was assessed using DSM-V criteria and the SPAT tool, and social determinants of healt severage and the program psychiatric comorbidity. Jaccasina (38%), with an everage age of 54.8. Half of the patients were married, and half were either actively employed or retired. All suitable protocol candidates demonstrated adequate social support and stable bousing. Severaly-eight precurs were declined for meeting criteria for severe alcohol use into the protocol candidates demonstrated adequate social support and stable bousing. Several-eight precurs were declined for meeting criteria for severe alcohol use into the protocol candidates demonstrated adequate social support and stable bousing. Several-eight precurs were declined for meeting criteria for severe alcohol use into the protocol candidates demonstrated adequate social support and stable bousing. Several-eight precurs were declined for meeting criteria for severe alcohol use into the protocol and stable social support and housing, a willingness to participate in relapse prevention (6%) or had significant psychiatric comorbidity (2%). CONCLUSION All patients severe alcohol use in the protocol and stable social support and housing, a willingness to participate in relapse prevention treatment pre- and post-tra

Abstract Image 2:

Abstract Image 1:

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Abstract Image 3:

http://amz.xcds.ystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/23_AbstractImage3_0531024513.pns

ID: 24 Developing a standard protocol for ex-vivo extremity perfusion (EVEP)

Member of: Student/Others Abstract Type: General Abstract

Member Type: Traince Science Type: Basic Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: The potential of extremity transplantation is critically limited by the 4-6 hours of preservation time currently offered by standard cold static preservation. Ex-Vivo Extremity Perfusion (EVEP) is an evolving platform striving to safely extend the preservation time of donated Vascularized Composite Allografts (VCA) allowing for greater applicability of upper limb transplants. There is yet to be optimization of EVEP protocols to determine ideal conditions for safe extended EVEP preservation times. Specifically, there remains controversy whether VCAs should be perfused an normal network of the protocol was perfused an extended an abundance of the protocol was perfused in the protocol was perfused with autologous packed red blood cells added to the perfused (cellular perfused). Parameters compared include histological analysis of muscle, compartment pressure, muscle response to electrical nerve stimulation, elema formation with the protocol was perfused in the protocol was perfus

ID: 25
Predominant role of microvascular over tubular injury as driver of progressive renal damage and fibrosis post mild and severe acute ischemia-reperfusion injury

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainec: 15

Abstract Body: Background: Ischemia-reperfusion injury (RI) is a major risk factor for chronic renal failure. Here, we characterize the different cell deaths in tubular and microvascular compartments of IRI-induced acute kidney injury (AKI) and their relative importance in renal fibrogenesis. Methods: Unilateral renal artery clamping for 30 re 60 minutes with contralateral nephretcomy was performed in wild-type (C57BL/6) or caspase-3-4- mice. In vitro, human umbilical vascular endothelial cells (HUVECs) and human proximal tubular cells (PT2) were exposed to hypoxia-reoxygenation following caspase-3 silencing. Results: In the early stage of mild AKI (30 min model), caspase-3-4- mice showed aggravated tubular epithelial cell (ITEL) with higher tubular injury scores and serum creatininal levels. Electron microscopy Receptor-interacting serine-threomic-protein kinase 3(RIPK3) immunohistochemistry, and phosphorylated RIPK3 levels demonstrated enhanced TEC necessities of mild a real part of the early and extension phases in caspase-3-4- mice in those in early and extension were reduced in early and extensions phases in caspase-3-4- mice. In worst associated with reduced real floriss, decreased a-monoth material early and extension phases in caspase 4-3- mice in the original early and extension of the early and extension phases in caspase 5-4- mice. The was associated with reduced real floriss, decreased a-monoth material early and extension phases in caspase 5-4- mice in those and in the early stage of mild a reduced a service of the early stage of mild a reduced and in the early stage of mild a reduced early stage of mil

Abstract Image 1: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/25_AbstractImage1_0514041227.pdf

ID: 26 HLA eplet frequencies reduce genetic complexity and provide the foundation for a national eplet-matching program in kidney transplantation.

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: BACKGROUND: This study presents the HLA allele and eplet frequencies in patient and donor populations in BC to explore the likelihood of matching by each method as a foundation for a national eplet-matching program for kidney transplantation. METHODS: Next Generation Sequencing was performed in 1846 patients and donors for all 1 I classical HLA genes. Alleles were converted to eplets with HLAMatchmaker, and frequencies were compared across donor and patient groups using statistical models and k means clustering. RESULTS: 361 alleles were identified (206 class 1, 155 class 1) and matching the present present patients and because the relationship between alleles and eplets (image): p quite present patients and because the relationship between alleles and eplets (image): p quite present patients (RPe), living donors (DD) were lower than eplet frequencies (image): p quite present patients (RPe), living donors (DD) were lower than eplet frequencies (image): p quite present patients (RPe), living donors (DD) were lower than eplet frequencies (image): p quite present patients (RPe), living donors (DD) were lower than eplet frequencies were more nonegeneous, with some eplets occurring in >98% of subjects (i.e. 85Y G). Overall allele frequencies were and eplet in the present patients and donor populations, and subdivide into a small number of principal clusters. These results suggest that eplet typing may simplify histocompatibility matching for kidney transplantation.

Abstract Image 1: http://amz.xcdoystem.com?14900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File1257226_AbstractImage]_0602100628.pdf

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/26_AbstractImage2_0602100629.pdf

 $\textbf{Abstract Image 3:} \ \text{http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/26_AbstractImage3_0602100630.pdf$

 $ID: 28\\ Persistent at electasis following primary graft dysfunction is associated with lower lung function in lung transplant recipients$

Member of: Student/Others Abstract Type: Adult Abstract
Member Type: Traince

Science Type: Clinical Science Group Category: Lung Submission: Oral or Poster/E-Poster

Trainee: Yes

ID: 29
Natural killer cells and mitochondrial damage-associated molecular patterns in ischemia reperfusion injury during liver transplantation

Member of: CDTRP Abstract Type: General Abstract Member Type: Traince

Science Type: Basic Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Tissue durange and necrotic cell death following ischemia reperfusion injury (IRI) during liver transplantation (LT) compromise cellular integrity and lead to release of damage-associated molecular patterns (DAMPs). DAMPs of mitochondrial origin (mitoDAMPs) incire profound inflammation following issue damage and ischemia (Figure 1). This is salient in LT as 1) the liver is acutely sensitive to hypoxia, and 2) has a nelly mitochondrial orient. MitoDAMPs serve as a biomarker to predict clinical outcomes in a variety of disease processes, and higher mIDNA levels in donor leads with early allowing the deferment of that mitoDAMPs for the relative training to the purpose of the purpose of in IRI—endiated inflammation, but whether their contributions are beneficial or protestive is controversall. We have recently determined that mitoDAMPs for their contributions are beneficial or protestive is controversall. We have recently determined that mitoDAMPs for their contributions are beneficial or protestive is controversall. We have recently determined that mitoDAMPs for their contributions are such as a beneficial protestive is controversall. We have recently determined that mitoDAMPs for their contributions are such as a beneficial protestive is controversall. We have recently determined that mitoDAMPs for their contributions are such as a beneficial protestive is controversall. We have recently determined that mitoDAMPs are actively regulatory and suppress protification of an advantage of the protestive contributions are actively regulatory and suppress protification of an advantage of the purpose of the purpose of the protestive contribution and desired protestic contributions are contributed by the protestic contribution and the concentration of mitoDAMPs in tiree perfusion and analysis of clinical outcomes are original. The protestic contribution are desired as a fundamental protestic contribution and deciration and desired and quantified. Data collection and analysis of clinic

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/29_AbstractImage2_0529093248.pdf$

${\small 1D:30}\\ {\small PUBLIC SOLICITATION FOR A LIVING KIDNEY DONOR: EFFECTS ON THE TRANSPLANT WAITING LIST AND HLA LABORATORY WORKLOAD}\\ {\small Constraints of the properties of the pr$

Member of: Student/Others Abstract Type: General Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Introduction: Solicited organ donation offers the opportunity for patients with end-stage renal disease to identify a living donor, typically when one might not exist in their family or friend network. Solicited donation raises ethical issues and can also have a significant impact on workload in the histocompatibility laboratory. Methods: A 42 year-old patient was a candidate for a second transplant following failure of his first graft, 15 years post-transplant in February 2018, his spouse solicited living donors using billboard advertising and a prominent social media platform; various news outlets also promote the story of his search. The transplant program received about 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and medium received a host 17th phone inquiries, 50 people agreed to proceed to HLA testing, and the surface of the part of of

ID: 31
Partnerships Between Patients and Researchers within the Canadian National Transplant Research Program: changing practices and influencing research from priorities onwards

Member of: CDTRP Abstract Type: General Abstract Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Natural Body: Background Patients partners are active members of the Canadian National Transplant Research Program (CNTRP), both at the research teams, network and project levels. This evaluation aimed to assess prospectively the patient-researcher partnership within the CNTRP and document how it affected projects, studies and partners. Methods We conducted 18 semi-structured interviews with 17 partners (researchers and patients). The interviews were digitally recorded and transcribed. Thermatic and content analysis was conducted. Results There has been a change in research between the research levels. Engagement evolved as collaborative work projects and patients and continuous exchange on several levels. Engagement evolved as collaborative work projects and patients and continuous exchange on several levels. Engagement evolved as collaborative work projects in partnership with patients research research greater than they see clearer the research projects and that involving patients transformed research communication. Several researchers engaging with patients and control transplant transplant that they see clearer the research projects and that involving patients transformed research communication. Several research projects are already to an increase in partnership with patients and infection that bring them closer to the patients and cargieries journey. The CNTRPs patientship governance, an increase in partnership with patients and infection in partnership with patients and infection that bring them closer to the patients and experience of patient-researcher partnership within the CNTRP at different stages and levels of research. The results of this study allowed us to develop tools and define the winning conditions for future partnership in research in transplantation and organ donation in Canada.

ID: 32 Acceptance, safety and effectiveness of exercise interventions in solid organ transplant candidates: a systematic review

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Background: Exercise training may be recommended to solid organ transplant (SOT) candidates to improve fitness and tolerance for the upcoming physiologic stressor (surgery). We systematically reviewed the literature to 1) determine the acceptance and safety of exercise interventions in SOT and 2) examine the effect of these interventions on exercise capacity and quality of life (OoL) in this population. Methods: Online databases were searched Studies of any design were included. Outcomes of interest were acceptance, safety, maximal and/or functional exercise capacity and QoL. Results: Twenty rarele severe included (in=1765patients).
All organs except pancress were represented. The exercise interventions Thirdenstudies assessed adverse events and one reported for uniform medical complications. Three out of lives studies that assessed maximal exercise capacity reported an increase in this outcome in the intervention group post-exercise (mean change ranged from 0.69 to 2.5mL/kg). Seven out of twebs studies reported an increase in 6-minute walking distance in the intervention group parts the training period (mean change ranged from 1.09 to 100 meters). Seven articles reported an increase in this outcome in the intervention group parts the training period (mean change ranged from 1.09 to 100 meters). Seven articles spowded an improvement in the metal composite score. Only one articles showed an improvement in the metal composite score (mean changes articles) and physical composite or come change articles. Showed an improvement in the metal and physical expensed of QoL. In this population.

 ${\small \hbox{ID: 33}}\\ {\small \hbox{BRIC STUDY - BURNOUT AND RESILIENCY LEVELS AMONG ORGAN DONATION COORDINATORS: RESEARCH PROTOCOLUMN COORDINATORS: CONTRACTOR CONTRACT$

Member of: CDTRP Abstract Type: General Abstract

Member Type: AHP Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Astract Body: Background Numerous research studies have highlighted the importance of the organ and tissue donation coordinator (OTDC) to the success of organ donation3-7, 10. However, facing challenging and stressful scenarios on a duity basis often leads to burnout, attrition, and compassion fatigue among OTDCs/9. Unfortunately, for some OTDCs, coping with emotions and quality expectations is overwhelming and they may resign in less than 3 years? 9. Increased numever rates of OTDCs would likely have significant impact on the ability of Organ Donation Organizations to optimize donation. We are proposing an innovative way of dealing with humout it dentifying and interventing in the causes to a would loain; experienced and exceptional OTDCs. Methods Phase 1:3 and interventional study will be conducted to an aware the question. What experiences of burnout, composing of antiform of the proposing of the proposing of the second of

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ID: 34 BURNOUT AND RESILIENCE AMONG ORGAN DONATION COORDINATORS: SCOPING REVIEW PROTOCOL

Member of: CDTRP Abstract Type: General Abstract Member Type: AHP

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Astrard Body: Background Research has shown that organ and tissue donation coordinators (OTDC) face challenging and stressful scenarios daily, leading often to burnout, attrition, and compassion faitguel-3. Unfortunately, coping with those scenarios is overwhelming and OTDCs may resign in less than 3 years2, 3. Increased turnover rates of OTDCs would likely have significant negative impact Organ Donation Organizations' optimization of donation. Therefore, as part of a national three-phase study, this scoping review aims to understand the nature of burnout problem worldwide and inform rive the development of a fine intervenient in the causes to avoid losing experienced and exceptional OTDCs. Research question. What experiences of burnout, compassing experienced and exceptional OTDCs. Research question. What experiences of burnout, compassing laigue, and/or attrition among Organ and Tissue Donor Coordinations worldwide have been reported? Methods Systematic scoping review with Leanama Briggs Institute (JBB). Tile/protocol registration followed by a three-step search staticgy (figure 1) on PUBMED, CINAHI, EMBASE, LILACS) and grey literature (Organ donation association websites, Google Scholar (first ciph pages), Research Gate, and consultation of international researches and associations in organ donation field). Inclusion control of the composent of the research gate, and consultation of international researches and support of the composent of the research purpose and conceptual findings regarding burnout, compassion fatigue, altrition and its consequences of stress among OTDCs. But the study will generate findings about burnout and turnover among coordinations worldwise. Conclision This review events will inform the development of a research question, and the best interboology for the next plane fully supported findings and study.

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/34_AbstractImage1_0515070200.pdf$

ID: 35 Management of Post Kidney Transplant Leukopenia: A Practical Algorithm and Outcomes at a Single Center

Member of: CST

Abstract Type: Adult Abstract

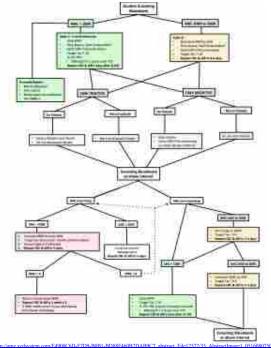
Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Abstract Body: Background: Leukopenia (defined as a white blood count (WBC) < 3.5) occurs frequently following kidney transplantation and may be associated with adverse clinical outcomes including increased infectious risk. Reducing immunosuppression in response to leukopenia may lead to transplant rejection and graft loss. Methods: We conducted a retrospective analysis of patients ≥ [18] years of age who developed post-kidney transplant leukopenia (PKTL) in our clinic from Jan 2016 to Dec 2018 with ≥3 months of follow-up. Our objective was to determine if a PKTL management algorithm (instituted in our transplant clinic January 2017, Figure 1) in part of the part of the

Abstract Image 1:



ID: 36 Post-Kidney Transplant Leukopenia: Predictors and Complications

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Leukopenia occurs frequently following kidney transplantation and has been associated with adverse clinical outcomes including increased infectious risk. In this study, we sought to identify predictors of post-kidney transplant leukopenia (PKTL) and to explore the association of leukopenia with adverse outcomes including the risk of infectious complications, transplant rejection, graft failure, and death. Methods: We conducted a retrospective study of adult patients (≥ 18 years of age) who received a solitary kidney transplant at a single tertiary care center from January 1, 2006 to December 31, 2017. The primary outcome was time to PKTL. Including a solitary kidney transplant to bood cunt (WBG) < 5.5. We identified factors associated with PKTL using CVC or untiltvariable down downs a bood sand backwise the object of inference in unvariable learnings at a part and to the control of t

ID: 37 Total parenteral nutrition in ex vivo lung perfusion: addressing metabolism improves both inflammation and oxygenation

Member of: CST Abstract Type: Adult Abstract

Member Type: Traince Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: Background: Ex vivo lung perfusion (EVLP) protocols generally limit metabolic supplementation to insulin and glucose. Furthermore, conventional perfusates are void of many ingredients considered essential for cellular viability. We sought to determine whether the addition of total parenteral nutrition (TPN) would improve lung function in EVLP. Methods: Ten porcine lungs were perfused using EVLP for 24 hours and supplemented with insulin and glucose. In the treatment group (in=5), the perfusate two sales supplemented with a continuous infusion of TPN containing lipids, animon acids, essential variants and cofactors. Physiologic paranters and perfusate electrolytes were continuously better oxygenation. Results: Lungs in the TPN group, better oxygenation better oxygenation better oxygenation better oxygenation. Alternatively, Recall in the TPN group, in the control group, free fairty acids (FA) were quickly depleted, reaching negligible levels early in the perfusion demonstrating as shift towards protosys for energy substrates. In the TPN group, both FFA and BCAA concentrations remained stable at in vivo levels after initial stabilization. TNF4 concentrations were lower in the TPN group, better the protosymon and mymore digrated performance.

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File 12572/37_AbstractImage 1_0516114737.pdf$

ID: 38 Initial successful clinical transplantation using negative pressure ventilation ex vivo lung perfusion with extended criteria donor lungs

Member of: CST Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer Yes

Astrard Boy: BACKGROUND: Ex vivo lung perfusion (EVLP) has been shown to successfully increase the use of extended criteria donor (ECD) lungs in transplantation. Negative pressure ventilation EVLP (NPV-EVLP) has been described pre-clinically to be associated with decreased ventilation-induced lung injury compared to positive pressure ventilation EVLP. We report the first clinical experience utilizing NPV-EVLP. Lungs were flushed with combination of Stern solution prior to explant. Following return to the center of implantation, on they were connections and perfusion of the return and perfusion of between 2-6 hours. Lungs were perfusion of Stern solution or incommendation and red blood cell concentrate. Donor and recipient harders is assessed included ECD lungs soorse, Primary Graft Dysfunction (PGD) scores at 0, 24, 48, and 72 hours, time to exturbation, length of ICU and hospital stay, requirements for extracoproreal membrane oxygenation (ECMO), and graft and patients survival. RESULTS. All grafts and patients survival to 30 days and receipted perfusion of the principle of the pri

ID: 39
The effect of left ventricular assist devices (LVAD) on pulmonary hypertension in end-stage heart failure: a multicenter study

Member of: Student/Others

Abstract Type: Adult Abstract

Member Type: Traince

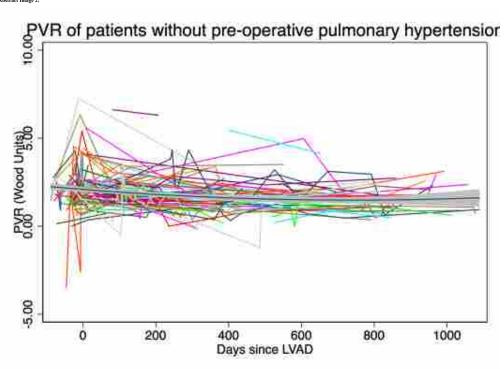
Science Type: Clinical Science Group Category: Heart

Submission: Oral or Poster/E-Poster Trainee: Yes

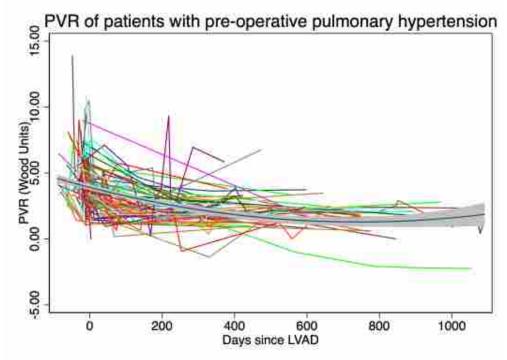
Natural Body: Background Despite the increasing prevalence of advanced heart failure, transplantation rates have remained stable in Canada due to limited organ availability. Consequently, the number of implanted le failure is often complicated by pulmonary hypertension (PHTN). Patients with PHTN have historically not been candidates for the respect to the properties of PHTN reversibility with LVAD support have led to changes it following LVAD at two transplantation institutions were included in our study. Pre-operative retrieved for 90 days pre-insertion and up to 3 years post-insertion. Pulmonary vascular resistance (PVR) was calculated for each instance from the transplantanous gradient and cardiac output. Generalized estimating equivalent to the pre-operative the pre-operative harderestics are summarized in Table 1. Patients with pre-operative PHTN (befined as pre-operative PMTN as were less likely to for patients with and without pre-operative PHTN are visualized in Figures 1 and 2. The majority had committed in the pre-operative PMTN (befined estimating equivalent of patients within a formation of their PMR of months post of the pre-operative PMTN (befined estimating equivalents) as the pre-operative PMTN of the majority of patients within a formation and pre-operative PMTN of the majority of patients within a formation of their PMR of months post of the patients within a formation associated with PMTN or the majority of patients within a formation of their PMR of months post of the patients within a formation of their PMR of the variable was significantly associated with PMTN or the majority of patients within a formation. left ventricular assist devices (LVAD) and average time on device support have both risen inputy in to ISHI. T listing criteria which now state that pulmonary hemotynamics should be reassessed 3 to 6 month or characteristics were obtained from institutional databases. Right-heart can interturate data was etirospecuation was used to be considered to the control of the control of

Variable		PHTN	No PHTN	P Value
Total patients	n (%)	107 (50.0)	107 (50.0)	
Age	years	52.3 ± 13.3	51.4 ± 13.2	0.63
Smoking history	n (%)	48 (48.5)	53 (51.9)	0.62
Hypertension	n (%)	51 (51.5)	41 (40.2)	0.11
Diabetes	n (%)	35 (35.4)	29 (28.4)	0.29
Dyslipidemia	n (%)	72 (72.7)	64 (62.6)	0.13
Renal Insufficiency	n (%)	16 (36.4)	24 (42.9)	0.51
EF	%	18.7 ± 7.3	18.3 ± 6.8	0.63
Ischemic Cardiomyopathy	n (%)	26 (26.3)	41 (40.2)	0.04
LVAD PVAD	n (%)	4 (3.7)	8 (7.5)	0.61
XVE	n (%)	1 (0.9)	2 (1.9)	
HM2	n (%)	59 (55.1)	63 (58.9)	
HVAD	n (%)	25 (23.4)	18 (16.8)	
HM3	n (%)	17 (15.9)	14 (13.1)	

Abstract Image 2:



ract Image 3:



http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/39_AbstractImage3_0520071450.jpg

ID: 40 The impact of reduction of warm ischemia removing the second warm ischemic period on DCD kidney transplantation outcomes

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainer: Yes

Abstract Body: Background: Warm ischemic time (WIT) during DCD kidney transplantation has significant effects on post-operative outcomes, such as graft survival, function, and post-operative mortality and morbidity. As second WIT also occurs while the kidney rewarms during the anastomosis (WIT2). We applied cooling effect using an the ice blanket technique (IBT) to see if climinating WIT2 second WIT (WIT2) would will decrease the incidence of DGF and improve renal function. Before the post-operative mortality and morbidity. As second WIT also occurs while the kidney rewarms during the anastomosis (WIT2). We applied cooling effect using a fine to blanket proper discovered to the post-operative with the post-operative renal function. Results: Demographic characteristics were not directive to be first one. Bit [N=17] and those that received the IBT (N=17) and the N=18 and telephone to the post-operative renal function is not to the IBT and telephone the N=18 and telephone the N=1

ID: 41 Comparison of centrifugal and pulsatile perfusion to preserve donor kidneys using ex vivo subnormothermic mechanical perfusion

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Body: Background: We have previously demonstrated benefits of kidney preservation with this device. Methods: Pig kidneys were procured following 30 min of warm ischemia by cross-clamping both renal arteries. Paired kidneys were camulated and underwent either- oxygenated pulsation or centrifugal perfusion using a hemoglobin oxygen carrier at room temperature with our textograce and perfusion platform for 4hr. Kidneys were reperfused with whole blood for 4 both and the present of the prese

ID: 42 Soluble C-Type Lectin Receptor Protein Inhibition of Natural Killer Cell Mediated Tubular Epithelial Cell Death

Member of: Student/Others

Abstract Type: General Abstract Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Background: We have previously shown that Natural Killer (NK) cells can mediate kidney tubular epithelial cell (TEC) death, kidney ischemia-reperfusion injury (IRI) and chronic transplant rejection. MHC-independent mechanisms such as binding of NKRP! receptors to C-type lectin receptor (Clr) family proteins, may regulate NK cell function. TEC can regulate NK cell serious and cytotoxicity by their expression of inhibitory Clrs, which we have now produced in genetically altered tobacco. Methods: Expression of Clr-b and Clr-f was confirmed in TEC using RT-PCR. WT and Clr-b-f. TEC were treated in vitro with Clr-b, Clrd, and Clr-b-f insign proteins, me designed and synthesized a codon-optimized Clr-b-f, and fusion genes according to the frequency of codon isage in tobacco. The genes were then cloned into plant virial expression vectors and transiently with the company of the proteins may represent a novel strategy to inhibit NK-mediated inflammation and cytotoxicity.

ID: 43 Evidence of alveolar epithelial alterations associated with ischemia/reperfusion injury and primary graft dysfunction in lung transplants

Member of: Student/Others Abstract Type: General Abstract Member Type: Traince

Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Ischemia reperfusion injury (I/R) is the major cause of primary graft dysfunction (PGD) after lung transplantation. I/R and PGD feature endothelial/alveolar epithelial damage, lung edema and inflammation. Edema resortion then depends on the restoration of alveolar epithelial integrity and the ability of alveolar cells to reabsorb N=c (through ENac Channels) and fluid. We hypothesized that alveolar epithelial admage, and repair, are critical in PGD pathophysiology, and resolution. Therefore, our aim is to identify novel biomarkers and therapeutic targets associated with I/R using cellular and animal modes das swell as human samples from lung transplants. Methods. The impact of a protocal minisching hypothemic incisions was first tested seas well as human verification of the protocal protocal manage (and protocal modes) and the protocal modes) and the protocal modes of the protocal manage, lung edema and inflammatory responses on the protocal manage (and protocal modes) and the protocal modes of the protocal modes of the protocal modes of the protocal manage (and expended advocal wound repair rates were above of the protocal manage) (and expended manage)

ID: 44
Developing a Canadian eplet-matching program: Precision of Next Generation HLA allele Sequencing (NGS) in over 1,000 patient samples

Member of: Student/Others Abstract Type: General Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Other

Submission: Poster/E-Poster only

Trainee: Yes

Trainer: Yes

Astrard Body: BACKGROUND: Precision in allelic definition is critical for accurate cpitope imputation within a national cplet-matching program. The detailed QC performance program reported here confirms that Next-Generation Sequencing (NGS) can generate high-resolution genotypes with a minimal and predictable error rate. METHODS: Genotyping by Holotype HLA. NGS Assay v3 (Omixon, Budapest) for all 1 classical HLA genes (A, B. C.) REBI/34/5, DQA/B1, DPA/B1) was performed. Confirmatory testing for CC purposes was performed using LABType reverse sequence-specific prime technologies (One Lambda, California) to verify accurate, PESULTIS: 1054-8 sumples were sequence-specific prime united by our prime course, resident prime to the confirmatory testing of 10 r more genes was performed and 85 sumples (82%) companies (82%) compani

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/44_AbstractImage1_0602095524.pdf$

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/44_AbstractImage2_0602095524.pdf

 $1D:45\\ PROGNOSTIC IMPLICATIONS OF HEMOGLOBIN IN ADULT AMBULATORY HEART FAILURE PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS PATIENTS AND AUTO-ANALYSIS PATIENTS. THE PROGNOSTIC IMPLICATIONS OF HEMOGLOBIN IN ADULT AMBULATORY HEART FAILURE PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS PATIENTS. THE PROGNOSTIC IMPLICATIONS OF HEMOGLOBIN IN ADULT AMBULATORY HEART FAILURE PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS PATIENTS. THE PROGNOSTIC IMPLICATION OF THE PROGNOSTIC IMPLICA$

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Heart

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer Yes

Astrard Body: BACKGROUND Anemia is a common manifestation of heart failure (HF), and hemoglobin levels have been previously implicated with greater risk of mortality in the growing HF population. This systematic review and meta-analysis aims to investigate the prognostic ability of hemoglobin in predicting all-cause mortality in adult ambulatory HF patients. METHODS In collaboration with an experienced librarian, a comprehensive search was econducted utilizing Embase. Medline, Cochrane, CINAHII. and Pubmed through October 2018 to search for studies evaluating the association between hemoglobin and all-cause mortality in ambulatory HF patients using multivariable analysis. Two independent reviewers completed servering, and as extention and quality appraisal. Study quality was associated with universal to the propose of the experience of the experience

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/45_AbstractImage2_0602114043.pdf$

 $ID: 46\\ Evaluating multiple living kidney donor candidates simultaneously or sequentially: a cost-effectiveness analysis$

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstrard Body: Background: Multiple living donor candidates often come forward to donate a kidney to the same recipient. To manage resources and to avoid unnecessary evaluations, some living donor programs choose to evaluate only one candidate at a time. Methods: We modeled 2 to 4 candidates coming forward at the same time to be evaluated as kidney donors for one recipient, assuming that at least one candidate would donate if they completed their valuation. We recurrently expected the value of the value of

ID: 47 Understanding, measuring, and defining the living donor evaluation process for quality improvement: a Delphi study

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Background: The living kidney donor evaluation process is not donor-centric. It can exceed 10 months, which places undue stress on donor candidates and their intended recipients. During this time, unintended adverse consequences can arise, including recipient illness or death. To improve the efficiency of the living donor evaluation process across the country, we need to establish key metries for quality improvement. Methods: We conducted a modified-Delphi study, engaging patients, bealthcare professionals, and healthcare administrators (stakeholders) across Canada. Using the living donor evaluation process across the country, we need to establish key metries of process. Participants were involved to participate in the survey. Among these, 77 (69%) responded. Most participants in white Caucasian (80%) and fermine survey (REDOA). However, and the survey of the living kidney donor evaluation process across the country, with representation from every province. About all (N=42, 55%) delatfield as patients, the majority of whom were living donors of the survey. Among these, 77 (69%) responded. Most participants in white Caucasian (80%) and fermine studied of the survey of the canada and the survey of the survey of

ID: 49 Human Leukocyte Antigen (HLA) Eplet frequencies in Sensitized Waitlisted Renal Transplant Patients

Member of: CST Abstract Type: Adult Abstract

Member Type: Traince Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Introduction HLA eplets (polymorphic amino acid residues on HLA molecules) determine the specificity of HLA antibodies that form after non-self HLA exposure. Donor-recipient eplet mismatches in solid organ transplant contribute to adverse graft outcomes. Not all eplets however may be equally immunogenic. In this exploratory study, in waitisted pre-sensitized kidney transplant patients, we sought to examine the frequency of eplets driving observed HLA antibody patterns, and determine their immunogenic. In this exploratory study, in waitisted pre-sensitized kidney transplant patients, we sought to examine the frequency of eplets driving observed HLA antibody patterns. An MFI cutoff of Soul and CPRA calculator through the study of the s

ID: 50 Mitochondrial Permeability Regulates Heart Graft Ischemia-Reperfusion Injury and Allograft Rejection

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science

Group Category: Heart Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: BACKGROUND: The clinical relevance of ischemia-reperfusion injury (IRI) in the context of organ transplantation is well-established. IRI is associated with various forms of programmed cell death (PCD), of which necroptosis is particularly significant. Necroptosis is an inflammatory form of PCD that promotes allournmunity and adversely affects allograft viability and function. We have recently shown the role of cyclophilin D (CypD), a critical mediator of mitochondrial permeability transition pore (mPTP) formation, in microvascular endothelial cell (MVEC) necroptosis. In this study, we investigate the role of CypD in mitigating IRI-induced MVEC necroptosis and the subsequent allournmune response in a clinically relevant scenario of heart transplantation.

METHODS: To model ischemic insult in vitro, MVECs were chose a topological grading of IRI and allograft rejection was done by a pathologist. RESULTS: Our data indicated to odi schemias strange before transplantation in to BALB semi-cell insulpation in the analysis of the proposal series and that inhibition of CypD attenues hypoxia-induced necroptosis. Interestingly, apoptosis-inducing factor (AIF) silencing also attenuates hypoxia-induced necroptosis. Unrimmunocytochemistry studies indicate that regulation in the CypD direction was done by a pulsologist, and the proposal indicate that regulation of mitochondrial permetability vit (AIF) by inhibition of lower permetability of the proposal indicate that regulation of mitochondrial permetability and permetability vit (AIF) by inhibition of lower permetability and function of mitochondrial permetab

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Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/50_AbstractImage2_0520102543.pdf

ID: 51 Assessment of predictive biomarkers associated with primary graft dysfunction in lung transplants

Member of: Student/Others Abstract Type: General Abstract Member Type: Traince

Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Background: Lung transplantation is the only therapeutic option for patients with a terminal lung condition associated with cystic fibrosis (CF), idiopathic pulmonary fibrosis (PF/IPF), chronic obstructive pulmonary disease (COPD), arterial pulmonary hypertension (APH) or emphysema (EMP). Unfortunately, survival rates at 5-yes after transplantation (65%) remains too low. Primary gard dysfunction (PGD) is the first cause of death in the perioperative period and is associated with acute respiratory distress syndrome (ARDS), higher rats of lung infection, chronic rejection and lower survival rates. We hypothesized that alveolar pribellal dysfunction in the donoric graft and PGD development in the recipients are circleal components of PGD pathopsisology. Our goal is to identify now be in eight publical dysfunction in the donoric graft and PGD development in the recipients of the circle production in the donory and the retained in the production in the donory and the retained in the production of the donory and the retained in the production of the period and the first production in the donory and the retained in the production of the produ

ID: 52 Implementation of a Web-based tailored nursing intervention in a hospital setting to support optimal medication adherence among kidney transplant patients: stakeholders' consultation and mobilisation

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Astrard Body: Background: Transplant-TAVIE is a Web-based tailored virtual nursing intervention developed to promote adherence to immunosuppressive medication and to support selfimanagement among kidney transplant recipients (KTRs). Following the evaluation of the intervention's acceptability, feasibility and preliminary efficacy, the aim is to implement Transplant-TAVIE in a real healthcare setting—the kidney transplant clinic at the CHUM—and to evaluate the outcomes. Consultation sessions were held to take into consideration stakeholders' needs and expertise. Methods: Three consultation sessions, been designed and expertises. Methods: Three consultation sessions, been designed and produced to identify the intervention's strengths and weaknesses, the barriers and facilitations, and the facilitations, and the facilitations, and the facilitations, and the facilitations and inclinations attended the sessions; these individuals were representative of the stakeholders involved in the production and interpletation strategies. In total, 12 participants attended the sessions, these individuals were representative of the stakeholders involved in the production and interpletation strategies. In the consultation sessions, these individuals were representative of the stakeholders will required, such as a facilitation, and the calculation strategies. In the consultation sessions provided essential information about participants' particular clinics and the production and the provided resemble and the p

ID: 53 Quebec's healthcare professionals' perspectives on ethical issues related to organ donation after medical assistance in dying.

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: In Quebec, medical assistance in dying (MAID), in the form of cuthanasia by physician-administered injection, has been available since December 2015. This change in the end-of-life context has given rise to the possibility that patients requesting MAID could also donate organs through a controlled donation after cardiocirculatory death (cDCD) protocol. In 2018, 15 persons donated their organs after MAID in Quebec, accounting for almost 10% of all donors. This new type of donation raises new ethical questions. The objective of this study is to gather healthcare professionals' (HCP3) perspectives on ethical sussers related to MAID and organ donation or MAID (muses, intensivists, MAID provider) in Quebec took part in semi-directed interviews between November 2016 and February 2018, daining which they had to comment on clinical vigoriests and answer open-model questions. The content of the interviews was analyzed using thematic content analysis. Results: IfCPs who participated in this study supported organ donation after MAID Decimies it is a way to respect the person's autonomy at the end of life. Potential pressures to choose MAID for organ donation, the MAID and organ donation or MAID and organ donation o

 $ID: 54\\low rate of preemptive kidney transplantation: A root cause analysis to identify opportunities for improvement$

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Trainer Yes

Abstract Body: Background: Preemptive living donor kidney transplantation, has several advantages over transplantation after dialysis initiation including improved patient survival and reduced healthcare costs. The St. Joseph's Healthcare Hamilton transplant program performs approximately 20 living donor kidney transplantation after dialysis initiation including improved patient survival and reduced healthcare costs. The St. Joseph's Healthcare Hamilton transplant program performs approximately 20% of are preemptive. When trying to improve complex healthcare problems such as this, as in-depth root causes analysis can be conducted to fully understand program—related barriers. Methods: We conducted a retrospective observational study of random sample of 50 JUSI. Root Causes Amalysis (RCA) provided methodology for his of the So Precipients, only 11 (22%) achieved a preemptive transplant transplant. The majority of those who achieved a preemptive transplant and study of those who achieved a preemptive transplant and a CFS/bis [Value Control of the South of the South Control of the South of the South Control of the South Control of the South of the South Control of the South Cont

 $ID: 55\\An interim analysis of the feasibility and acceptability of a mobile phone application in kidney transplant recipients$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Associate

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background: Mobile health (mhealth) apps can improve medication nonadherence. Few studies have reported the uptake of mhealth apps in kidney transplant (KTx) recipients. This interim analysis examines the acceptability and feasibility of using a mHealth app in KTx recipients. Methods: This prospective cohort study included primary KTx recipients over a "-month period between 2018 and 2019. Patients were excluded if they could not read or speak English, did not own a smartphone, required compliance packing for transplant medications or had previous organ transplants. Patient-reported medication adherence was evaluated using BAASIS and scaled using the System Unity Seed (ESUS, Results: System Unity Seed (ESUS, Results:

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/55_AbstractImage2_0530121249.pdf

 ${\rm ID}\colon 56$ The need for intraoperative mannitol or furosemide: an international survey

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Nativard Body: Background: Intraoperative mannitol and furosemide have been used as free radical scavengers and districts to ignite early renal allograft function. As the evidence of any efficacy of these agents are limited, we sought to characterize the use of intraoperative districts among transplant surgeons. Methods: An anonymous online survey of all Canadian surgeons who perform tisking transplants as well as a select number of U.S. transplant surgeons was performed. Questions were related to the use and indications for mannitol and furosemide. Responses were collected and analysis assessed the relationship of demongraphic factors and survey responses. Results: The response response the response to respondents reported performings? So transplants/ver, with response response the response of the response that the response response the response of the response that the response response the response the response that the response response the response the response the response response response response the response response the response r

ID: 57 Validation of the PROMIS Preference scoring system (PROPr) in patients on dialysis and kidney transplant recipients (KTR)

Member of: Student/Others Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Naturace 400: Background: PROPt is a preference-based health state summary score within the Patient-Reported-Outcomes Measurement Information System (PROMIS). It could potentially be used in cost-effectiveness analyses. We assessed the validity of PROPt among patients with end stage kidney disease (ESKD) using EQ5D3L and SF6D as "legacy" instruments. Methods: A cross-sectional sample of adults on dailysis and KTR (kidney transplant recipients) completed questionnaires including PROMISST/ domains: anxiety, depression, fatigue, physical-function, sleep-disturbance, pani-interference and abultis to participate in social-roles). Patient Health Questionnaires including PROMISST/ domains: anxiety, depression, fatigue, physical-function, sleep-disturbance, pani-interference and abultis to participate in social-roles). Patient Health Questionnaires including PROMISST/ domains: anxiety, depression, fatigue, physical-function, sleep-disturbance, pani-interference and lability to participate in social-roles). Patient Health Questionnaires including PROMISST/ domains: anxiety, depression, fatigue, physical-function, sleep-disturbance, pani-interference and lability to participate in social-roles). Patient Programmary of the Comparison of the Comp

Abstract Image 1:



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ID: 58 The Transplant Support Physician Model of Deceased Donor Organ Allocation in Ontario

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background: Since 2010, allocation of deceased donor organs in Ontario has been supported by an on-call group of transplant-support physicians (TSP) advising about donor and organ eligibility such as infection and cancer risk, unique and additive co-morbidities, and logistics. These calls are brief (< 5 minutes) and usually singular. Cases that are not ruled out during these calls then proceed to individual organ offiers to the six transplant programs in a transplant process. The provincial resource center with complete data on TSP involvement for fiscal years 2015-18. Results: During the study periods, there were a total of Ty28 donor referrals and 2.599 (145) of them required a TSP consults (17,859, 405) in the river organs offered to programs, and 737 (447) of them required are a TSP consults (17,859, 606%) of these process and the process of the pr

ID; 59 Effects of a renal nordic walking program on quality of life and fitness in renal patients

Member of: Student/Others Abstract Type: Adult Abstract

Member Type: AHP Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Astrard Body: Exercise has been shown to improve symptoms, function, and mental health. Despite the fact that medical guidelines recommend regular physical activity for persons living with renal disease, many people struggle to fit this into their lifestyle. Hospital-affiliated group exercise programs for outpatients can potentially reduce fears and increase exercise self-efficacy. This study investigated the effects of a 3-month supervised Renal Nordic walking (NW) program on the finess and quality of life of renal outpatients. Thirty participants, aged 45-84 were randomized to NW (n=15) or non-NW (n=15) groups. The NW group was offered 2 Life questionnaire (KDQO)-360. Daily steps were recorded using Finit Flex2 tracker during the 3-month study. Using the intention-to-treat principle, changes in outcomes for each participant from baseline to 3-months were calculated and median changes between NW and non-NW group were losted with a Brown-Mood median to the structure of the structure

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/59_AbstractImage2_0529012521.pdf$

ID: 60 Changes in kidney function following live donor nephrectomy

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

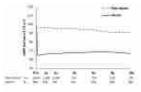
Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No

Abstract Body: Background: Better understanding the decline in kidney function after live donor nephrectomy and how this differs by donor characteristics can inform counselling, selection, and follow-up care: Methods: We conducted a retrospective matched cohort study of living kidney donors in Alberta, Canada between 2002 and 2016 using linked healthcare administrative databases. We matched 604 donors to 2,414 healthy non-donors from the general population based on age, sex, year of cohort entry, urban residence, and estimated glomerular filtration rate (GFR) before cohort entry (nephrectomy date for mon-donors). The primary outcomer was rate of GFR charge or time (median follow-up or time (median follow-up or time) from the present of the present

Abstract Image 1:



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ID: 61 Feelings and perceptions of the Travelling Donor

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Introduction Since it's inception, the Kidney Paired Donation program (KPD) has belief expand the living donor pool. The Canadian KPD has utilized a travelling donor model (TDM), but is now exploring a transition to a Kidney Shipment Model (KSM). A lybrid system using both these models could lead to an improvement in donation numbers. To help with this transition we set out to examine feelings and perceptions of the traveling donor with the goal to optimize the donor experience and to fail intervent of the donors that our program was involved in their workup, Ouestions were operatively. Each interviewee was then asked to list and rank the main stressors during the entire donation experience. Results The majority of donors did not perceive travelling to donate as a prifall of the donation process (72%). However, some travel related factors were seen as drawbacks to the Canadian KPD program, such as lack of complete entire donation experience amongst donors(31%), although the visat majority 69% of donors surveyed to observe the present of the expensed (19%). Time to complete donation workup was also a common concern amongst donors(31%) although the visat majority(69%) of donors surveyed in replaced with the team who performed their initial work-up, all donors surveyed repreted overall satisfaction with the assistation with the observable of the observable of the option. Conclusion The results of this study underline numerous important barriers inherent to the TDM model as they are precieved by kidney donors. Identifying these barriers is the first step to improving the overall donor experience with potential benefits for the entire KPD program.

Abstract Image 1:



Abstract Image 2:





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ID: 62 Highly sensitized kidney transplant patients T cells display distinct TCR repertoires

Member of: CDTRP

Abstract Type: Adult Abstract

Member Type: Associate

Science Type: Basic Science

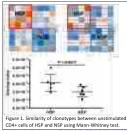
Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

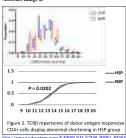
Trainee: No

Abstract Body: Background: Sensitization to HLA antigens limits patient's access to renal transplantation and causes higher risk of acute rejection and graft loss. T-cell mediators, B-cells and donor-specific antibodies play critical role in allograft rejection and injury, T-cell receptor (TCR) signaling is essential for activation and function of T-cell and the structural features of TCR are critical for allocative recognition and response. Here we sought to characterize TCR repertoire in highly sensitized patients (HSP) and non-sensitized pat

Abstract Image 1:



Abstract Image 2:



Member of: CDTRP Abstract Type: Adult Abstract Member Type: Associate

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Body: Background: Few scoring tools like kidney donor risk index (KDRI) exist that rely only on pretransplant metrics and are used during kidney evaluation, but have poor prediction accuracy. Novel pretransplant tomarkers are required to predict recipients at risk of graft dysfunction that may allow optimal donor organ allocation. We had shown that pretransplant recipient NFR2-*Tregs are valuable as an immune marker for delayed graft function (DGF) and acute kidney injury (AKI). Here, we used multiple donor and recipient metrics along with pretransplant ThrRE2-*Tregs to develop prediction models for various early and line renal transplant outcomes. Methods A cohort of 76 deceased donor kidney transplant recipients were prospections; were prospections; were prospections models for an activate transplant of the prediction of the prediction

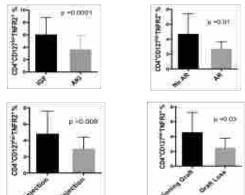


Figure 1. Patients with low circulating TNFR+ Treg have poor transplant outcomes A) AKI; B) AR-6 months; C) Rejection-5 years; D) Graft Loss- 5years.

Abstract Image 2:

Α ROC Curve for CD4+CD127I0/-TNFR2+ % + CIT+TH17+PRAgt80 ROC Curve CD4+CD127I0/-TNFR2+ % + KDRI ALC = (1.83 (0.77 - 0.95), 0+9.31 AUT = 6.67 (5.26 - 0.97), p=8.87 С ROC Curve for CD4+CD127I0/-TNFR2+ % + AUC = E 234 (ES - 0.87), AUC = 0.66 to 73 - 0.98), H=0.86

Figure 2. ROC curve for multivariate prediction model for A) AKI and B) AR-6 months C) Rejection -5years and D) Graft-Loss 5years.

 ${\bf ID; 64} \\ {\bf Cell-free\ DNA\ release\ during\ programmed\ cell\ death\ in\ kidney\ is chemia\ reperfusion\ injury} \\$

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Background: Transplantation is invariably associated with acute allograft injury caused by ischemia reperfusion injury (IR). This injury causes cells of the allograft to undergo various forms of programmed cell death including apoptosis and necroptosis. During programmed cell death in immunogenic molecules are released from cells, one of which is cell-free DNA (eDNA). We hypothesize that efDNA is released by microascular endothedital cells (MVECs) during programmed cell death of IRI and that efDNA acts as both a biomarker for cellular injury as well as a balogically active; molecule capable of amplifying inflammation and organ injury. Methods WHECs were subjected to various recapets to induce necroprotiss and apoptosis in vitro followed by eDNA is obtained and quantification. A mouse model was used to characterize efflor. And release during its indicate that eDNA is released by MVECs under both apoptoic and necroptotic conditions in vitra, as well as during IRI in an in vivo mouse model. We have also shown that eDNA release thing for a chiracterized by the edit of the edit of

ID: 65 The Epidemiology of Early Deep Vein Thrombosis in Kidney Transplant Recipients

Member of: CST

Abstract Type: Adult Abstract

Member Type: Associate

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Astrard Body: Background: Kidney transplant recipients (KTR) may be at increased risk for deep vein thrombosis following transplantation and other hospitalizations. Existing reports show a 4.6 to 12.5% incidence in KTR within 1-year of transplant. Since vascular complications such as DVT may decrease patient and graft survival, we investigated the incidence, risk factors, treatments, and outcomes of early DVT among KTR. Methods: A retrospective single-centre condorts study was conducted among adult KTR from January 1, 2005 to December 31, 2016, with follow-up until December 31, 2017. DVT with in 5 months post-transplant (reports by DVT) and appropriate imaging studies (dopple rulersation, 41-2005 to December 31, 2016, with follow-up until December 31, 2017. DVT with in 5 months post-transplant (rear pDVT) was assessed using the Kaplant-Mortin International January and international part of the studies were used to analyze risk factors and unconness (graft failure, death, hospital readmission) of DVT. Results: There were 71-early DVT events among 1607 KTR, with a cumulative microfice of 4.3% at 3-months post-transplant. Most DVT events were located in the lower limbs and necessary of the post-transplant of the

ID: 66 Investigation of the incidence of subclinical rejection from surveillance biopsy findings in kidney transplant recipients with persistent delayed graft function

Member of: CST

Abstract Type: Adult Abstract

Member Type: Associate

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Astrard Body: Background: Current standard of care for persistent delayed graft function (DGF) in kidney transplant recipients (KTR) is a surveillance biopsy at day 7-10 post-transplant to detect subclinical rejection (SCR), based on historic incidences of 20-30% in this population. Whether modern incidence of SCR reflects the need for surveillance biopsies remains unclear. Study Objective: To determine recent rates of SCR from surveillance biopsies remains unclear. Study Objective: To determine recent rates of SCR from surveillance biopsies of persistent DGF patients given anti-thymocyte globulin (ATG) induction and donor-specific antibody (DSA) negative allocation at our center. Methodology, Single-center retrospective cohort study of bally KTR with presistent DGF who cerevived a deceased donor transplant from fire Fel st, 2014 to Dee 51 st, 2018. Persistent DGF patients given enti-thymocyte globulin (ATG) induction and donor-specific antibody (DSA) negative allocation at our center. Methodology, Single-center retrospective cohort study of bally KTR with presistent DGF who cerevived a deceased donor transplant from Fel 1st, 2014 to Dee 51 st, 2018. Persistent DGF patients given extended donor transplant the interpolation of the survey of the patients and the present of the patients and the patient

ID: 67 Lymphoceles in kidney transplant recipients: Incidence, risk factors, outcomes, and clinical management in the modern era

Member of: CST

Abstract Type: Adult Abstract Member Type: Associate

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Abstract Body: Background: Following kidney transplantation, lymphocele development can result in clinically significant morbidity, for both the patient and graft. Lacking prior studies in a representative cobort, we aimed to characterize the incidence, risk factors, outcomes, and clinical management of lymphoceles among modern Canadian renal transplant recipients. Methods: We conducted a single-centre, retrospective cohort study on adults transplanted at our centre between farmaniany 1, 2005 and the December 31, 2017, excluding patients with simultaneous multi-organ transplants. Incidence, risk factors, and clinical outcomes were determined by the Kaplan-Meter product-limit method, or process transplant was to 35 per 100 person morbits. (Ti. 20-26-44). Pre-transplant lackets meditine (2014). Here are the process transplant was to 35 per 100 person morbits. (Ti. 20-26-44). Pre-transplant and tablests meditine (2014). Here are the process transplant was to 35 per 100 person morbits. (Ti. 20-26-44). Pre-transplant all tablests meditine (2014). Here are the process transplant was to 35 per 100 person morbits. (Ti. 20-36-44). Pre-transplant all tablests meditine (2014). Here are the process transplant was to significant this factor. Lymphoceles independently increased the likelihood of hospital readmission (P=0.06), but had no significant effect on the likelihood of folial graft failure. Of 78 cases, 62% received either anomaly and undergoing invited of the process transplant and the parameters of color person person and religious deport transplantation after learnsposity donor transplantation after learnsposity donor transplantation and religious donor transplantation doubt on the rest with business in the process associated with increased hospital readmi

 ${\bf ID: 68} \\ {\bf The \ Role \ of \ the \ Renin-Angiotensin \ System \ in \ the \ Pathophysiology \ of \ Chronic \ Lung \ Allograft \ Dysfunction \ (CLAD) \ Fibrosis} \\ {\bf ID: 68} \\ {\bf The \ Role \ of \ the \ Renin-Angiotensin \ System \ in \ the \ Pathophysiology \ of \ Chronic \ Lung \ Allograft \ Dysfunction \ (CLAD) \ Fibrosis} \\ {\bf The \ Role \ of \ the \ Renin-Angiotensin \ System \ in \ the \ Pathophysiology \ of \ Chronic \ Lung \ Allograft \ Dysfunction \ (CLAD) \ Fibrosis \ Only \ Pathophysiology \ of \ Chronic \$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background Chronic lung allograil dysfunction (CLAD) remains the leading cause of long-term mortality after lung transplant. Different phenotypes of CLAD exist, all of which result in fibrosis. Angiotensin II (AngII), the main effector of the remin-angiotensin-aldosterone system (RAAS), is involved in fibrogeness in different organs, most notably in the kidney equivalent of CLAD, Interestinal Fibrosis and Tubular Atrophy (FIA). We have previously identified AngII-regulated proteins are elevated in union and kidneys of patients with IFTA. We hypothesize that RAAS is involved in CLAD pathents, power and the angiotensin value of the proteins will be elevated in Bronchaotwoche Lawage (BAL), and lung tissue of CLAD pathents, compared to stable counterparts of the selected endogenous pertited were spiked in, at known concentrations, to assist with quantities and a 1 stable control on all stable control on and immunollororoccence estaming of TSPI in 2 CLAD lungs and ditermined 1 CD and 1 CQ (Figure 1). In our preliminary analysis, AGTR1/2 and TSPI over identified in characteristic lesions of CLAD (Figures 2-3). Conclusion These preliminary data suggest that RAAS is expressed in CLAD lungs and that AngII-regulated proteins in RAL. Suggest that RAAS is expressed in CLAD lungs and that AngII-regulated proteins and one of RHO guess and CLAD lungs from a larger color.

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/68_AbstractImage1_0531032200.pdf$

 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/68_AbstractImage2_0531032201.pdf$

Abstract Image 3: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/68_AbstractImage3_0531032202.pdf

ID: 69 Trends in patient survival among transplant recipients in Canada

Member of: CST

Abstract Type: General Abstract

Member Type: Associate

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster Trainee: No

Trainee: No
Astract Body: Background Since organ transplantation became the standard treatment for patients with end-stage organ failure, advances in organ preservation, surgical technique and immunosuppression have contributed to better graft survival and patient outcomes. We present trends in patient survival from the Canadian Organ Replacement Register (CORR, a national registry for patients with end-stage organ failure. Methods We used CORR data collect detween 2006 and 2017 from all provinces in Canada excluding Quebec. We calculated yearly estimates of 1-, 5- and 10-year survival part and patients and provinces in Canada excluding Quebec. We calculated yearly estimates of 1-, 5- and 10-year survival part and provinces in Canada excluding Quebec. We calculated yearly estimates of 1-, 5- and 10-year survival part and provinces in Canada excluding Quebec. We calculated yearly estimates of 1-, 5- and 10-year survival part and provinces in Canada excluding Quebec. We calculated yearly estimates of 1-, 5- and 10-year survival at provinces in the survival at 1-year point in the survival at 1-year point

ID: 70 Liver transplantation for alcohol related liver disease with less than 6 months abstinence: A review of the first year results for the Ontario ALD pilot protocol

Member of: Student/Others Abstract Type: Adult Abstract Member Type: AHP

Science Type: Clinical Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Astrard Body: BACKGROUND in Canada, patients with alcohol-associated liver disease (ALD) require 6 months abstinence prior to liver transplantation (LT). This policy disadvantages acutely ill patients who cannot survive this timeframe. The Ontario ALD Pilot Program was initiated to assess these patients for carrier consideration of LT. We herein present the first year results. METHODS All referrals to the ALD program were triaged using information provided by referring physicians as well as collateral information from a provincial database. Patients were assessed by a team of transplant acquaints provided by referring physicians as well as collateral information from a provincial database. Patients were assessed by a team of transplant acquaints. BESULTS must part and addiction counted for transplant acquaints. Patients of transplant acquaints of transplant acquaints. Patients were assessed by a team of transplant acquaints. RESULTS provided with the remainded of transplant acquaints. RESULTS provided with the remainded of transplant acquaints. Patients were assessed by a team of transplant acquaints. RESULTS provided with the remainded provided with the remainded of transplant acquaints. RESULTS provided with the remainded of transplant acquaints. RESULTS provided with the remainded provided wit

ID: 72 Allograft bioburden reduction as a tissue banking process

Member of: CST

Abstract Type: General Abstract

Member Type: AHP

Science Type: Clinical Science Group Category: Other

Trainee: No

Submission: Poster/E-Poster only

Trainee: No
Astrard Body: BACKGROUND: Bacterial contamination of tissue allografts recovered by tissue banks poses a serious threat to transplant recipients. Although potential donors are carefully screened to mitigate the risk of infectious disease transmission, allograft tissues can become contaminated during recovery. Revisions to Canadian health standards have resulted in a requirement for further quantitative validation of tissue allograft incovered at a Canadian tissue such as the contamination of the

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 $ID: 73\\ Anti-HLA-DR, DP \ and \ DQ \ antibodies \ leads \ to \ different \ expression \ of \ pro-\ and \ anti-thrombotic \ proteins \ by \ human \ endothelial \ cells.$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

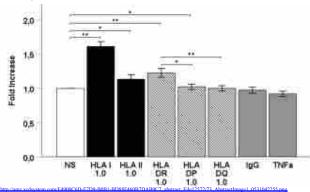
Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background. The development of de novo donor-specific antibodies (DSAs), especially against HLA-II antigens, is associated with antibody-mediated rejection and allograft failure. However, mechanistic knowledge about their direct effect on endothelium is lacking. We have previously showed that there is a large variability in the expression of HLA-II antigens between DR, DP, DD subclasses on endothelial-colony-forming cells (ECFCs, shere we hypothesized that in line with the above, stimulation with anti-HLA-DR, DP and DD antibodies have different effects on endothelial microthrombosis. Methods. We have generated ECFCs from patient's collected PBMCs (n = 14). Cells were stimulated with anti-HLA-II shall-colony-forming cells (ECFCs, shere we hypothesized that in line with the above, stimulation with the above the

Abstract Image 1:



ID: 74 De-novo donor specific antibody development is decreased in patients with thymectomy at an early age

Member of: CDTRP

Abstract Type: Pediatric Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Heart

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: De now donor-specific HLA antibodies (dnDSA) are associated with poor outcomes in pediatric heart transplantation (PHTx). For access to the heart/great vessels, infants undergoing cardiac surgery often need thymectomy, which is known to alter T cell function. Our aim was to investigate the impact of thymectomy and nDSA production and explore T cell phenotypes in this PHTx population. Methods: Pre-PHTx antibody testing was performed by solid-phase testing/screening; post-PHTx dnDSA were defermined by single antigen beads. Persistent dnDSA were deferred as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once. Strong dnDSA were defined as detected more than once as detected more

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Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/74_AbstractImage2_0531062749.pdf

Abstract Image 3: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/74_AbstractImage3_0531062442.pdf

 $\operatorname{ID:}75$ The outcome of expanded criteria donor kidney transplant: quality improvement study

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

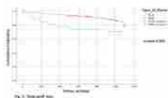
Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

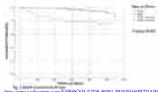
Trainee: Yes

Abstract Body: Introduction: Donor characteristics that define ECD include age > or = 60 years, or age 50-59 years plus two of the following: CVA as the cause of death, pre-existing hypertension, terminal secum creatinine greater than 132 around 1 (or in Ontario, MDRD cGFR of <0 ml./min/1 /3 m2.). Expanded criteria donor (ECD) kidneys are known to have suboptimal outcomes when compared to standard enter at donor ECD) and the pre-existing hypertension. Hermitian for the compared a year plant around the compared around the compa

Abstract Image 1:



Abstract Image 2:



Abstract Image 3:



 ${\bf ID:76} \\ {\bf Efficacy of \ Trimethoprim-sulfamethox azole \ in \ prevention \ of \ urinary \ tract \ infection \ in \ renal \ allograft \ recipients}$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Introduction Urinary tract infection (UTI) commonly occurs after renal transplantation. Post-transplant prophylaxis with trimethoprim-sulfamethoxazole (TMP-SMX) has been shown to reduce the risk of UTI. The prophylactic effect of TMP-SMX against UTI is not clear while growing number of patients receive this antibiotic to prevent pneumocystis pneumonia (PCP). Method: In this retrospective cohort, all renal transplantation. Post-transplantation from Jan 2011 to December 2013 were included. Patients routinely received TMP-SMX (160 mg/800mg) three times preview for 12 months after transplantation. We determined all pipeloseds of UTI in dient first year after transplantations. Sealing admission. E. Cisil 33.9% of Method: 18.13% (everoped 33.9%) or Times, 24.9% were associated with bactererine in ell-quils admission. E. Cisil 33.9% of Method: 18.13% (everoped 33.9%) of These, 24.9% were associated with bactererine in ell-quils admission. E. Cisil 33.9% of Method: 18.13% (everoped 33.9%) of Times, 24.9% were associated with bactererine in ell-quils admission. E. Cisil 33.9% of Method: 18.13% (everoped 33.9%) of Times, 24.9% were associated with bactererine in ell-quils admission. E. Cisil 33.9% of Method: 19.13% of Times, 24.9% were associated with bacterine in ell-quils admission. E. Cisil 33.9% of Method: 19.13% of Times, 24.9% were associated with bacterine in ell-quils admission. E. Cisil 33.9% of Method: 19.13% of Times, 24.9% of Times and 24.9% were associated with allogard dysfunction, it did not significantly increase the risk of UTI (Men 180) \$2.12\$ (15.9) years vs. 14.12\$ years, p=0.9%) to out of 6 females (26.2%) vs. 13% p=0.15) or death (6.1% vs.07.9%, p=0.085). Median/range) interval between the first episode of UTI and transplantation was \$2 (10.32.25) days. P=0.03.9% of the patients were on Times as a supervised of UTI and transplantation. The patients were on Times as a supervised of the patients were on Times as a supervised of the patients were on Times as a supervised of 1

ID: 77 Ongoing efforts to link donor and recipient data in research: the Canada-DONATE Data Link Study

Member of: Student/Others Abstract Type: General Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Introduction Canadian research to improve the medical care of deceased organ donors is challenged by the regionalization of donation and transplant services across provinces, and inconsistent research access to individual transplant recipient data. Objective To support clinical research that will establish best care for deceased organ donors, we endeavored to build a live compendium of provincial and national databases of organ transplant outcome data. Methods We developed a 23-tien online survey to assess the content, quality, and accessibility of the databases. In two focus group interviews, domation researchers helped to generate and refrire the contract researcher daminisations provincial and antional organizations used organ recipient visit at status (e.g. mortality); four track bitchemical and mechanical support data, three track pathology, and two track physiologic function (Table.) The period of post-transplant data varies from one to 10 years, with three organizations recording data at regular intervals. Data entry is immediate for provincial organizations, and requires up to no eyes for national databases. Data visitation procedures an opplications, provincial organizations and requires up to no every for national databases. The provincial research accessionally require direct recipient connecting, intoined altabases of non-testimates of the mediation procedures are policitoral, provincial and antional organizations of the care of the provincial and antional databases. The period of post-transplant data varies from one to 10 years, with three organizations recording data at regular intervals. The period of post-transplant data varies from one to 10 years, with three organizations recording data at regular intervals. The period of post-transplant data varies from one to 10 years, with three organizations recording data at regular intervals. The period of post-transplant data varies from one to 10 years, with three organizations recording data at regular intervals. The period

Table 2: Database Contents and Characteristics

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milite)	Date Transplant Program Discharge Date	Date of Birth Medical Record Number Health Card Number	No	Biochemical Pathology Mechanical Support Vital Status
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Sem	Transplant Date Transplant Program Procedure Notes	Date of Birth Medical Record Number ODO Number Health Card Number	Yes	Particular
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ID; 78
Association between living donor kidney donation transplant (LDKT) readiness and cultural affiliation among patients with end-stage kidney disease

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainee: 1cs

Abstract Body: Background: Ethnic minority patients may experience cultural barriers to LDKT, but the extent to which their cultural affiliation is associated with readiness to pursue LDKT is not well understood. Here we assess the association between perceived impact of kidney disease on cultural practices and readiness to pursue LDKT or willingness to share LDKT interest. Methods: A cross-sectional, convenience sample of adult patients with ESKD from dialysis units in Toronto completed the study questionnaire using an electronic data capture system. To assess cultural practices (exposure), patients were asked: "To what extent does your illness or the treatments that you receive cause difficulty with your ability to keep up your cultural traditions". We also assessed readiness to pursue LDKT and willingness to tell others about interest in LDKT (outcome). Multivariable adjusted multinomial logistic regression was used to assess association between exposure and outcome.

Results: A total of 485 participants were recruited (68% made), made and the state of LDKT readiness (RRR = 2.1, Cl = 1.1 – 3.9, p= 0.018), or have shared (RRR = 1.7, Cl = 0.89 – 3.3, p = 0.10) their interest in LDKT. Conclusion: Patients who perceive a negative impact of kidney disease on practicing their culture were more likely to be at an advanted readiness of the study of the state of LDKT readiness. Pursuing LDKT may allow to return to usual cultural practices for patients who perceive difficulties due to their illness. This aspect could potentially be utilized in culturally competent transplant education.

DraftModeStatus: 0

ID: 79
Assessing Stakeholder Perspectives on Engaging Youth Through A Science Exhibition Regarding Organ Donation and Transplantation

Member of: CST

Abstract Type: General Abstract

Member Type: Associate

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Trainece Not Restard Body: Background: Despite educational interventions aimed at improving organ donation awareness among youth, many are not registered organ donors. Innovative initiatives such as an interactive science exhibition (SE) targeting youth may peak interest, dispel misconceptions and promote donation registration. Study Objective: To assess stakeholders' perspectives on utilizing a SE to promote organ donation among Camadian youth. Methodology: Surveys were distributed to healthcare professionals (BICPs), university and high school students and the general public to elicit perspectives on exhibition content and delivery. Survey domains include demographies, knowledge and onjoinion concerning transplantation, prosposed content, and methods of relaying information. Surveys were social media platforms and emails targeting HCPs, university tolks and students. HCPs also participated in focus groups and semi-structured inviews to gain additional insight. Results: Investigators received 175 surveys, interviewed 4 life. HCPs, and held focus groups with 29 participants. Most survey expendents were 16-25 years-old (58%) and interested in attending a transplant 185 (37%). While 87% of respondents believed it is important in discuss organ domains only 45% were registered organ donors. Regarding 85 content, respondents were time terested in donatable organs and issues (97%), the transplantation process (87%), the transplantation process (87%), the transplantation process (87%), the transplantation of operations of operations (95%). Results from focus groups and interviewed and delivery paralleled those from the survey. Focus group respondents and interviewes and desiresting misconceptors about and delivered via touch displays of the process of the properties of the process o

ID: 80 The Use of High Risk Kidney Donors and Long-Term Outcomes: Parameters That Affect Graft Survival

Member of: Student/Others

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science

Group Category: Kidney-Pancreas

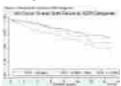
Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: Background: Kidney transplantation is the treatment of choice in patients with end stage renal disease (ESRD). The introduction of Expanded Criteria Donor (ECD) and Kidney Donor Risk Index (KDRI) may have produced the opposite effect of what was intended. Many centers avoid using kidneys from these donors, fearing unacceptable long-term outcomes. The aim of this study is to assess long-term renal graft survival in a single center with liberal donor and recipient selection criteria and to identify parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters that may influence graft survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of elimination of the parameters with a survival. Methods: An analysis of el



Abstract Image 2:



ID: 81 Predictors of 1-year mortality in liver transplant recipients: a systematic review and meta-analysis.

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Trainee: Yes

Naturate Duy: Background: Liver transplantation extends life and improves the quality of life for patients with severe liver disease. US registries report a 5-year survival of 81.2% (2016), and highlight several predictors of recipient survival: age, etiology of liver disease, returnsplant and MELD score, among others. This study aims to systematically review the predictors of 1-year mortality, Methods: We included studies that applied multivariable regression to destinic predictors of 1-year mortality among studi liver recipients. We searched MEDLINE: EMBASE, Cochrune. Database of Systematic Services and Cochrune of Studies and Cochrune of Studi

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/81_AbstractImage2_0602093015.pdf$

ID: 82 Predictors of 1-year graft loss in pancreas transplant recipients: a systematic review and meta-analysis.

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Harract Buly: Background: Pancreas transplantation provides metabolic control to selected patients with diabetes mellitus (DM). US registries have reported factors related to graft loss: Type of pancreas transplantation, recipient age, puncreas donor risk index (PDR). This study aims to systematically summarize all studies reporting predictors of puncreas graft loss. Methods: We included all studies that used multivariable regression to assess productors of 1-year puncreas graft loss following simultaneous pancreas-tudory (SPR), puncreas-effect-kidory (PAK), and puncreas transplantation alone (PTA), in adults: We searched MEDLINE, EMBASE, the contraction of the contract

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/82_AbstractImage1_0602102508.pdf$

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/82_AbstractImage2_0602102509.pdf

ID: 83 Correlates of fatigue among kidney transplant recipients

Member of: Student/Others Abstract Type: General Abstract

Member Type: Traince Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Up to 40% of kidney transplant recipients (KTR) experience significant fatigue. Fatigue has been associated with clinical and psychosocial factors in clinical cohorts, however, those associations have not been explored in KTR. Here we assess correlates of fatigue which may help guide management strategies for fatigue. Methods: A cross-sectional, convenience sample of adult KTRs completed the Patient Reported Outcome Measurement Information System (PROMIS) fatigue item bank, the Generalized Anxiety Disorder?, the Patient Health Questionnaire?, and the Social Difficultive Interval on a decident of the methods: A cross-sectional convenience sample of adult KTRs completed the Patient Reported Outcome fatigue and potential correlates. Results: 74 patients (Elsi) (15) years, 56% made of 9% transplanted > 3 years before completed from methods: 150 years, 56% made of 9% transplanted > 3 years before completed from methods: 150 years, 56% made of 9% transplanted > 3 years before completed from method: 150 years, 56% made of 9% transplanted > 3 years before completed in the method of 150 years, 56% made of 9% transplanted > 3 years before completed with a maxiety (Rbo-0.56), depressive symptoms (Rbo-0.75), and social distress (Rbo-0.59); p. 0.001 for all.) Weaker correlations were considered with a maxiety (Rbo-0.56), depressive symptoms (Rbo-0.75), and social distress (Rbo-0.59); p. 0.001 for all.) Weaker correlations were considered with a maxiety (Rbo-0.56) of 150 years, 56% made of

ID: 85
Successful Desensitization and Kidney Transplantation in the Presence of Donor Specific Anti-Human Leukocyte Antigen Antibodies in Kidney Transplant Recipients

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Body: Background: Sensitization of human leukocyte antigen (HLA) precipitates extensive immunological fences to successful kidney transplantation and henceforth, transplant candidates are frequently demoted to the ever-growing waiting list owing to preformed donor specific antibodies (DSAs). Transplant recipients are at inevitable risk to sustain hyperacute rejection, accelerated acute rejection, acute yacute antibody-mediated rejection and early graft loss, if DSAs are not sufficiently repressed. Our objective was to evaluate the improvement in kidney function in patients post-desensitization and kidney transplantation in a DSAs postive on the patient was preferred desensitization through and III.A-incompatible kidney transplantation in a DSAs postive color, it caps free resentation as a Sensitive present against ALS and B31 with median fluorescence intensity (MFI) value of 17692 and 1538, respectively. Lymphocyte constants was performed by complement dependent cytotoxicity (CDC) assay. The CDC crossmatch was postive for both 1 and Blymphocytes. We then performed indicates the present against ALS and B31 ymphocytes in a present against AL

 $ID: 86\\ Kidney function, albuminuria, and the risk of hemorrhage and thrombosis after kidney transplantation$

Member of: Student/Others

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science

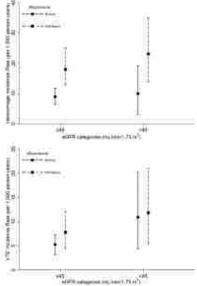
Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

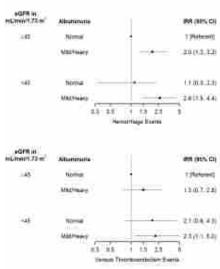
Trainee: Tes

Abstract Body: Background: Compared to the general population, kidney transplant recipients are at increased risk of hemorrhage and thrombosis. Whether this risk is affected by kidney function and albuminuria is unknown. Methods: We conducted a retrospective cohort study using linked healthcare databases to identify adult kidney transplant recipients from 2002–2015 in Alberta, Canada. Estimated glomerular filtration rate (eCFR) and albuminuria measurements at 1-year posttransplant were used to categorize recipients (eCFR: 245 vs.; albuminuria and posttransplant hemorrhage and venous thrombosis based on diagnostic and procedural codes. Results: 0f 1.284 kidney transplant recipients with lower GFR and affective vs. albuminuria. The mean age of the cohort was 53 years [IQR and mid-heavy] albuminuria. The mean age of the cohort was 53 years [IQR and mid-heavy] albuminuria compared to recipients with lower GFR and mid-heavy] albuminuria compared to recipients with lower GFR and mid-heavy albuminuria compared to recipients with lower GFR and mid-heavy albuminuria compared to recipients with lower GFR and mid-heavy albuminuria compared to recipients with lower GFR and mid-heavy albuminuria. Thus, eGFR and degree of albuminuria mid-prognostical kidney transplant recipients in light of the compared to recipients with lower GFR and mid-heavy albuminuria compared to recipients with lower GFR and mid-heavy albuminuria compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients with lower GFR and mid-heavy albuminumia compared to recipients wit

Abstract Image 1:



Abstract Image 2:



ID: 87 Biliary intra-operative stents at orthotopic liver transplantation

Member of: CST Abstract Type: Adult Abstract

Member Type: Full Science Type: Clinical Science

Group Category: Liver Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Astract Body: BACKGROUND: Biliury complications can affect 40% of patients after orthotopic liver transplantation (OLTx). Endoscopic management has a high success rate but involves multiple sessions and up to 21% complications. Biliury plastic stents placed manually during OLTx can splint a choledocho-choledochal anastomosis, possibly reducing biliary strictures and leaks. This study evaluates the feasibility and clinical outcomes of "prophylactic" intrappentity sessions and up to 21% complexations (leaks set morbidity). Biliary plastic set is the selected on the phylacide plants and combined or plant transplants. The primary outcome is the incidence of but personal conditions, for the primary outcome and patient survival. Propossity scoring was used to dimmins selection bas. Outcomes, to change this, succeed and manually adding a set of the primary outcome and patient survival. Propossity scoring was used to dimmins selection bas. Outcomes were analyzed for a minimum of 5 years. RESULTS. 265 OLTx patients were included between 2002-2011. 95 patients (36%) received intrappentive seints whereas 170 did not. Age, gender, and medical comorbidities were groups. To be a set of the proposities of the proposities of the proposities of the patients of the proposities of the propos

ID: 89 Psychological organ integration among recipients of living and deceased donation

Member of: CST

Abstract Type: General Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Trainer: Yes

Astrard Body: Keywords: transplantation, psychological organ integration, donor representation, fantasized donor, recipient-donor relationship Background. Studies on the psychososcial implications of transplantationsuggest that, while most recipients adapt to their new transplant, the post-transplantation period is challenging and requires considerable adjustment. Studies have mainly focused on outcomes related to psychososcial adaptation (e.g. quality-of-life), with few examining the psychological integration of the organ. Muslim's theory postulated that recipients gradually internalize beit retransplant, shifting their perception from forcing nobject to part of their posts. The psychological integration process and passes are person. The psychological integration passes and, if ell incomplete, may adversely impact adjustment. This presentation of the psychological integration of the psychological integration passes and, if ell incomplete, may adversely impact adjustment. This presentation of the psychological integration of the transplant and attempts to identify themse related to recipients' psychosocial adaptation. Methods. A review was conducted by searching MEDLINE, CINAHL, PsycINFO and World'Cat. Five articles were kept four on lung and one on heart and independent of the psychological integration of the transplant and the decased-domonyous donor (comprising joy, sorrow, guid agriated); 2) among recipients of decased domaton, rescibions to representations of the transplant and the decased domaton, rescibions to representations of the transplant and the decased-domonyous donor (comprising joy, sorrow, guid agriated); 2) among recipients of decased domaton, rescibions to representations of the transplant and the decased-domonyous donor commissing joy, sorrow, guid agriated); 2) among recipients of decased domaton, rescibions to represent administration of the transplant and the decased-domonyous donor commissing poy, sorrow, guid agriated, 2) among recipients of decased domaton, rescibions to

ID: 90 Oxidative Stress and related responses are induced during ex-situ heart perfusion and may contribute to the functional decline of the ex-situ-perfused heart

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Heart

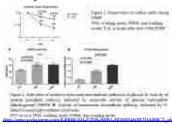
Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Ex-situ heart perfusion (ESHP), unlike cold storage, preserves the donated heart in a beating, semi-physiologic condition however, myocardial function declines overtime in this setting. We have shown previously that this decline may be a result of the altered energy metabolism. Such alterations may be associated with ESHP-related inflammation and/or oxidative stress: Rethods. Portice hearts were perfused for 12 hours on a custom ESHP apparatus either in non-working mode, (NWA m=5) or working mode, (RWA m=5) or worki

Abstract Image 1:



 ${\rm ID}; 91$ a case of early active antibody-mediated rejection associated with anti-vimentin antibodies

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only Trainee: Yes

Abstract Body: Improving precision in predicting alloreactivity is an important numer need and may require individualized consideration of non-HLA antibodies. Herein we report a 21-year old Caucasian male with ESRD from IgA nephropathy who met all traditional criteria for a "low-risk" transplant for immune memory. He was unsensitized and received a haplotype-matched living donor renal transplant from his mother. There were no anti-HLA donor-specific antibodies (DSA) and flow cross-match was negative. After immediate function, he developed delayed graft function on post-operative day 2. Transplant hopsy showed active antibody-mediated rejection and actue tubular immay with increased vimenting repression compared per-formed anti-vimentin antibody. He was successfully treated with plasmy shorest circle and proposed to the implantation of proposed per-formed anti-vimentin auto-antibodies bound to vimentin expression of many capital and methylpredission with renal recovery. Follow-up bjogy demonstrated decreased vimentin expression with decreased allontifiammation, and graft function remains stable at one-year post-transplant (GFR kDmL), min; We postative that pre-formed anti-vimentin auto-antibody-whose paths become that pre-formed anti-vimentin auto-antibody-whose paths because the pre-form

ID: 94
Targeting Th17 cells through inhibition of the nuclear receptor (NR) retinoic acid receptor related orphan receptor γt (RORγt) in highly sensitized renal transplant patients (HSP)

Member of: CDTRP Abstract Type: General Abstract Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Astract Body: Introduction: Late and mixed rejections (LMR) are the most common causes of graft loss in transplantation. Currently there is no effective therapy for this condition. T helper 17 (Th17) sells play a major role in the initiation of LMR through the promotion of tertiary lymphoid issue. Th17 activity is regulated by several transcription factors and by the NR BORH. Our group has developed a novel class of molecules to target RORH. We compared in-vitro Th17 polarization in HSP (ePRA-10%) as not sentitive freal transplant patients NSP, ePRA-30%) and tested one of the novel compounds for their proposed effect. Methods PRBMs (Four HSP) (ers.) NSP, ePRA-30%) and tested one of the novel compounds to relate the production to validate their proposed effect. Methods PRBMs (Four HSP) (ers.) NSP, ers.) and entally volunteers, HM, ers.) were polarization was higher in HSP compared to NSP or HV (figure 1, p < 0.05). RORy inhibitor or chiefe and one of the novel compounds for their proposed effective therapy in Th17 mediated LMR. This offers a novel potential targeted therapy for HSP after the polarization was higher in HSP compared to NSP or HV (figure 1, p < 0.05). RORy inhibitor reduced IL17A and IL21 positive cells compared to controls (figure 2, p < 0.05). Conclusion: Inhibition of RORy may be effective therapy in Th17 mediated LMR. This offers a novel potential targeted therapy for HSP after

 $\textbf{Abstract Image 1:} \ \texttt{http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/94_AbstractImage1_0602042355.pdf$

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/94_AbstractImage2_0602042355.pdf

ID: 96
Normothermic ex-vivo kidney perfusion improves function of kidney grafts donated after cardiac death compared to cold storage preservation techniques

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstrard Body: Background: To increase the donor pool, better preservation strategies for the storage of marginal kidney grafts are crucial. Currently, kidney grafts are cither stored on ice (SCS) or perfused at 4 degrees Celsius without oxygen (HMP). Various recent studies showed evidence for improved graft function after transplantation when oxygen is provided during machine perfusion. Moreover, over the last years, a novel technique, normothermic ex vivo kidney perfusion (NEVKP), was developed with promising results regarding graft function and survival. We compared NEVKP with oxygenated HMP (HMPOx) and static cold storage (SCS) in a porticus kidney year from storage and control of the compared to the present of the compared to the present of the compared to the present of the present graft suscessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated improved graft function was assessed. Results: Postoperarine graft assessment demonstrated in proved graft function was assessed. Results: Postoperarine graft assessment demonstrated in proved graft function was assessed. Results: Postoperarine graft assessment demonstrated in proved graft function was assessed. Results: Postoperarine graft assessment demonstrated in proved graft function was assessed. Results: Postoperarine graft assessment demonstrated assessment demonstrated

ID: 98 Donor frailty index – a potential measure of overall donor health status

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No Astrard Body: Background: Solid organ donors are older and increasingly medically complex, potentially leading to frailty. As frailty confers increased susceptibility to physiologic stress in individuals, donor frailty may predict function of transplanted organ. While organ specific donor risk scores exist, there is no overall donor frailty measure. The cumulative deficits model conceptualizes frailty by counting deficits (e.g. abnormal laboratory values, comorbidities) related to he table status, creating a continuous frailty index. Our objectives were to create a donor frailty may predict function of transplanted organ. While organ specific donor installed or donor and to determine whether frailty correlated with a single donor's number of of donated organs, evaluating DFTs concentrated value in a fine donor and suntained predictions and to determine whether frailty correlated with a single donor's number of of donated organs, evaluating DFTs concentrated value in a fine donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated per donor. Results: A 28 clinical variable DFI was constructed (mean DFI 0.37, range 0.11-0.64). DFI was associated with the number of organs donated

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/98_AbstractImage2_0602045134.pdf$

ID: 99
Association between perceived impact on family, expected health outcomes, and living donor kidney transplant (LDKT) readiness

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Background: The decision to pursue LDKT is often difficult and patients must weigh several factors, including health outcomes and impact on family relationships. Here we assess the association between patients' perceptions of how the transplant may impact family, perceived health outcomes, and readiness to pursue LDKT. Methods: A cross-sectional, convenience sample of adult patients with end stage kidney disease (ESKD) from dialysis units in Toronto completed the study questionnaire using an electronic data capture system. Participants responded to the questions, "If got a transplant, my family's life could return to normal," The were used to analyze the associations between exposure and outcome Results: A total of 485 patients were recruited (65% maje family) and patients were recruited (65% maje family) and patients were recruited (65% maje family) and patients were recruited (65% maje family). Begre 57 [14] years), 44% were White. 22% were Asian, 30% were Black, and 4% identified as other. After adjusting for age, married status, clinicity, under patients of the patients were recruited (65% maje family). Begre 57 [14] years), 44% were White. 22% were Asian, 30% were Black, and 4% identified as other. After adjusting for age, married status, clinicity, when all three variables were recruited on the patients of LDKT readiness (OR=3.5, 1, C=1-6.75.5), p=0.002). When all three variables were remixed of the regression, only health outcomes predicted LDKT readiness (OR=3.5, 1, C=1-6.75.4), p=0.002). Conclusion: Patients who saw LDKT as a chance to improve their health were more likely to be at a more advanced stage of LDKT readiness. Emphasizing the significant health benefits of LDKT during transplant education may motivate patients to patients LDKT.

 ${\bf ID:100} \\ {\bf Long-term\ outcomes\ in\ early\ allograft\ dysfunction\ after\ liver\ transplantation\ in\ DCD,DBD\ and\ living\ donor\ grafts }$

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Traine: Yes

Abstract Body: Background: Early allograft dysfunction (EAD) after liver transplantation has been associated with long-term reduced graft and patient survival. In this single centre cobort study, we aimed to compare incidence, risk factors and outcomes in liver transplantation has been associated with long-term reduced graft and patient survival. In this single centre cobort study, we aimed to compare incidence, risk factors and outcomes in liver transplantation has been associated with long-term reduced graft and patient survival. In this single centre cobort study, we aimed to compare incidence, risk factors and outcomes in liver transplantation in liver transplantation in liver long-transplantation in

ID: 101 Immune-Surveillance of Transplant Patients Using a Multi-Omics Approach

Member of: Student/Others Abstract Type: General Abstract

Member Type: Traince Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Despite the large number of kidney transplant patients under care, we have virtually no knowledge of the functional recovery of the immune response after transplantation. We aim to enable rapid and innovative monitoring of the dynamic changes in the recipient immune response in organ and cellular transplantation through bioinformatics integration of precise convergent assays for deep phenotyping and cellular biocnergetics. And the contractive production of the contractive production of precise convergent assays for deep phenotyping and cellular transplantation through bioinformatics integration of precise convergent assays for deep phenotyping and cellular transplantation of through bioinformatics integration of precise convergent assays for deep phenotyping was performed using multichannel CynoTLEX cytometry (Cucleir) and deep phenotyping was performed using multichannel CynoTLEX cytometry (Cucleir) and cellular transplantation of the cytometry of the phenotyping and the cytometry of the cytometry of the phenotyping and the cytometry of the cyto

ID: 102 Increased mitochondrial metabolic enzymes are associated with superior kidney function after normothermic ex vivo kidney perfusion – a proteomics study

Member of: Student/Others Abstract Type: Adult Abstract

Member Type: Traince Science Type: Basic Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Background Normothermic ex-vivo kidney perfusion (NEVKP) is associated with significantly improved graft function following transplantation in comparison to static cold storage (SCS). We hypothesized that NEVKP would induce key alterations in the kidney proteome compared to SCS, and provide insights into the molecular mechanisms central to superior graft function. Methods Porcine kidneys were removed following 30 minutes of warm ischemia, and then subjected to either SCS or NEVKP (n°=5 each) for 8 hours prior to auto-transplantation. Kidney hoposies were collected to 10%. We conducted to the NEVKP compared to 10%. We conducted to 10%. We support to 10%. We conducted to 10%. We support to 10%

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Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/102_AbstractImage2_0602051847.pdf

ID: 103 Hypothermic Machine Perfusion Resistive Index as a Predictor of Short and Long-term Renal Allograft Outcome

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: Background: Storage of deceased donor kidneys with hypothermic machine perfusion (HMP) permits study of renovascular resistance to continuous perfusion pressure which may be be prognostic of short and long-term graft outcomes. Our objective was to evaluate the effect of the HMP-calculated resistive index (RI) on graft outcomes. Methods: A retrospective review of kidney transplantation from deceased donors between January 2007 to ma large signle centre was performed. Donor and recipient information was procured from a centrally maintained transplant database. A retrospective review of kidney transplantation from deceased donors between contained from paper recordings of RI amantaned by operating groon staff. It always a deal of many stays as the time possible as several reduction of cases were identified for analysis of which 14 44 cases were 100,11 (2) D.C. Median RI Value at 600 min on HMP Mw so 2.22 and the local case as cut-off Value in the Value at 400 min on HMP was 0.22 and delayed graft function (DGF), (p=0.04) longering graft allure in longering and a central part of the value at 600 min on HMP was 0.22 and delayed graft function (DGF), (p=0.04) longering graft allure in longering from the value at 600 min on HMP was 0.22 and delayed graft function (DGF), (p=0.04) longering graft fallure in longering from the value at 600 min on HMP was 0.22 and delayed graft function (DGF), (p=0.04) longering graft fallure in longering from the value at 600 min on HMP was 0.22 and delayed graft function (DGF), (p=0.04) longering graft fallure in longering from the value of the value of the value of the value at 600 min on HMP was 0.22 and delayed graft fallure in longering from the value of the val

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ID: 104 Subclinical bowel perforation after Kidney Transplant

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Trainer Yes

Astrard Body: Introduction: Infections are the leading cause of hospitalization in transplant recipients. Risk is determined by epidemiologic exposure, immunosuppressive therapy and prophylaxis. The predictable sequence of appearance of infections helps in making management decisions. Case report: We present a 45-year-old male who underwent a preemptive kidney transplant for ISRD secondary to type I diabetes, other composition and instantion and a mechanical aortic valve for congenitable issuapid valve. Eleven days later patient present to his follow-up visit to the clinic complexely asymptomatic and his bloodwork demonstrated 220,000 WBC. An unremarkable ultrasound was performed following to management decisions. See a performed appearance of the present a performed appearance of the present and a present decision and passed with a part of the present and passed as of the present a performed appearance of the present and passed as of the present and passed as of the present and a present and a mechanical aortic valve for appendiction and passed as of the present and a passed and a present and a passed as of the present a performed and passed as of the present and a passed as of the present a passed as of the present and a passed as of the present and a passed as of the present a performed and passed and passed as of the present and a passed as of the passed as of the present and a passed as of the passed as of the

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 ${\bf ID:105} \\ Assessing the association between sex and access to living donor kidney transplantation (LDKT)$

Member of: Student/Others Abstract Type: General Abstract

Member Type: Associate Science Type: Clinical Science Group Category: Other

Submission: Poster/E-Poster only

Trainee: No

Trainer: No
Astrard Body: Background: Published studies suggest that women may experience lower kidney transplant rates than men. LDKT is the optimal treatment option for eligible patients with end-stage kidney disease (ESKD). To determine if women are disadvantaged in accessing LDKT, we assess the association between sex and readiness to pursue LDKT, having a potential living kidney door (pLKD) identified, and receipt of LDKT offer. Methods: A cross-sectional, convenience sample of adult patients with ESKD from dalaysis units in the Greater Toronto Area completed study questionnaires using an electronic data capture system. Clinical data was collected from electronic patient received. Sex was patient-identified (exposure). We assessed read-endies to to pursue LDKT (outcome) using a fined plant patients with ESKD from dalaysis in the Greater Toronto Area completed study questionnaires using an electronic data exputure system. Clinical data was collected from electronic patient received. Sex was patient-identified exposures, We assessed read-endies to to pursue LDKT outcome) using a pLKD indentified have a pLKD indentified have a pLKD identified have an endit patient and infect of LDKT (seconds and only of the Vertex and an enditor). The read was not present a plant of the patient of the patient of the patient patient in a multivariable logistic regression model, females were more read-ended and the patient patients. The patient patient is a plant of the patient patient patient patients and the patient patients are a plant patients. The patients are plant patients are a plant patients and the patients are a plant patients. The patients are a plant patients are a plant patients are a plant patients. The patients are a plant patients are a plant patients are a plant patients. The patients are a plant patients are a plant patients are a plant patients. The patients are a plant patients are a plant patients are a plant patients. The patients are a plant patients are a plant patients are a plant patients are a plant

 ${\rm ID};\,106$ Giant renal cell carcinoma in transplant kidney. Is immunotherapy a first line option?

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Trainer: Yes

Abstract Body: Introduction: Renal cell carcinoma (RCC) in a kidney allograft is rare. Immunotherapy plays a significant role in the management of renal cell carcinoma (RCC) patients with metastatic disease because RCC is highly resistant to both chemotherapy and radiation therapy. National Comprehensive Cancer Network suggests surgery for RCC in non-transplant kidneys. Case report: We present a 44-year-old male who underwent a living related kidney transplant in 1999 for ESRD of oligomegan, phoria. On January 2019 presented with a pulmonary embolism (PE) episode and was started on anticogulation, cultrasound demonstrated a mass on the limit of the present of

 $ID: 107\\ Effect of high variability of tacrolimus blood concentrations on graft survival of kidneys with unfavorable donor index.$

Member of: CST

Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Naturace 402: Introduction: Tacrolimus (Tac) was first introduced in 1990s and is today the backbone of immunosuppressive therapy after renal transplantation. Given its narrow safety margin, this CNI's levels are frequently monitored to avoid toxicity. However, high variability of tacrolimus blood levels (HVTBL) in recipients has been associated with unfavorable post-transplant autocomes and limited graft survival. To date, there is little information of the impact of HVTBL in particular services of more 2019-2015 and completed a 2 special flow the present with a coveral graft survival or 59% on the first smooth period at 107-3-1. A total of 15% excess for more 2019-2015, and completed a 2 special flow the DRL No statistical significance found in this group. Decasione: As in all observational studies, cause and effect cannot be concluded. Despite this study 5 limitations, our data is not consistent with previous observations demonstrating a agardenia association between higher taccolumns variability and higher rates of renal allogarfi loss.

PartMode/Statuts: 0

ID: 108 Socioeconomic status and access to living donor kidney transplantation

Member of: Student/Others Abstract Type: General Abstract

Member Type: Associate Science Type: Clinical Science

Group Category: Other

Submission: Poster/E-Poster only

Trainee: No

Trainee: No
Abstract Body: Background: Inequitable access to living donor kidney transplantation (LDKT) results in inferior clinical outcomes for patients who may be unable to access LDKT due to various barriers. Patients with lower socioeconomic factors and access to LDKT in the US and other countries. The association between household and neighbourhood level socioeconomic factors and access to LDKT. Bas not been well shaded in Canada. Here we analyze the accessionate between ESS and having a potential living kidney donor (pLKD) identified, a potential marker of access to LDKT. Methods: A cross-sectional, convenience sample of adult patients with end askep kidney disease, senseed by patient-reported information on neighbourhood safety, car ownership, and how long their family could maintain their current situation if their income was lost. Above ESS variables along with income, explorate the control of the

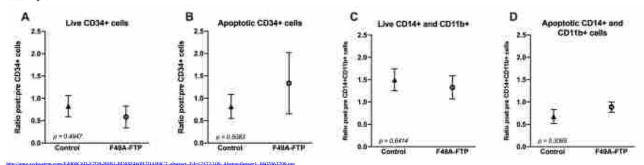
Member of: Student/Others Abstract Type: Adult Abstract

Member Type: Traince Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

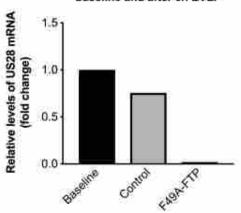
Trainee: Yes

Abstract Body: Background: Donor to recipient human cytomegalovirus (CMV) mismatch leads to high incidence of CMV infection post lung transplant causing devastating impact in patient outcomes. Ex-vivo lung perfusion (EVLP) is a potential platform to repair grafts prior to transplantation. We hypothesized that EVLP delivery of F40A-F17; a fission toxin protein that targets with ultra-high affinity cells expressing the latest CMV protein US28, may safely clear latent CMV from donor lungs, thus attenuating viral reactivation post-transplant. Methods. Human donor lungs rejected for transplantation were reaching the control of the protein US28, may safely clear latent CMV from donor lungs, thus attenuating viral reactivation post-transplant. Methods. Human donor lungs rejected for transplantation were reaching to the control of the protein US28, may safely clear latent CMV from donor lungs, thus attenuating viral reactivation post-transplant. Methods. Human donor lungs rejected for transplantation were reaching viral reactivation post-transplant. Methods. Human donor lungs rejected for transplantation. We hypothesized that EVLP delivery of the protein used to the protein u



Abstract Image 2:

RT-qPCR from tissue samples at baseline and after 6h EVLP



ID: $110\,$ The perspective of families regarding their decision to donate a loved one's organs

Member of: Student/Others Abstract Type: General Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Naturact Body: Background The decision to donate is typically made in a context of crisis, over a short time. Organ procurement organizations stress that families must feel free to make their own decision to feel at peace and harbor no regrets afterwards. However, few studies have examined how families continue to live with their decision. The purpose of the present study is to get a better understanding of how families feel and make sense of neither decision after agreeing to donate the organs of a loved one. Methods Qualitative interviews were conducted sparately with 16 individuals from 12 families who were involved in decision-making and agreed. They were interviewed for homsts to 5 years after donation. Data were analysed based on Interpretative Phenomenological Analysis, within of time to how individuals make sense of an experience. Results Data suggested that several elements in several elements in their decision. (1) being aware of the decessed's wishes regarding donation, (2) believing that the deceased person continues to live through the donation and (3) perceiving the gesture as the only positive element under the elements in their discourse include double regarding in their loved one's wishes, not having a clear understanding of the medical procedure in process and not knowing what happened with the organs afterwants. They lacked a sense of closure and missed important information. Conclusion The results suggest that while all families affirm they made the right decision, many still have questions and struggle with negative emotions years after. This suggests a need to follow up on families to answer questions they might have and provide them with support through the mourning process.

ID: 111 Gaseous Nitric Oxide (gNO) as a potential antimicrobial therapy during ex vivo lung perfusion

Member of: CST Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Lung

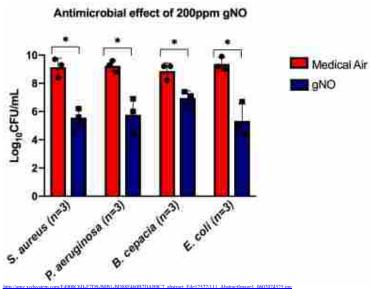
Submission: Oral or Poster/E-Poster

Trainee: Yes

Traince: 1cs

Abstract Body: Lung transplantation is a lifesaving procedure for patients with end-stage lung diseases. Normothermic ex-vivolung perfusion (EVLP) is a well-established clinical platform to evaluate grafts prior to transplantation and has been used to treat infection in donor lungs with high dose of antibiotics successfully. However with the increase of antimicrobial resistance it is crucial to develop alternative therapies. Nitric oxide (gNO) has antimicrobial effect against a several microorganisms. So far no previous attemps have been made to examine the potential use of gNO on lung infections using EVLP as a platform. Experiments using ATCC strains of P. acruginosa, S. aureus, E. coit and Burkholderia capacia were performed. Agar plates were inoculated and transferred into either control or treatment chamber. Medical air was used at constant flow of 10 Limin for both groups and high-pressure cylinder of NO (Prixar), OX, CA) was delivered to be treatment chamber using a digital gar regulator at Collypin and Source-instant own schedule with AcenoNOx materials when constant in the control of the con

Abstract Image 1:



ID: 112 Kidney Transplantation in Older Recipients from Expanded Criteria Donors

Member of: CST

Abstract Type: Adult Abstract

Member Type: Traince

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Boy: Introduction: The disparity between kidney supply and demand for transplantation has prompted the use of kidneys from expanded-criteria donors (ECDs) which may have shorter graft survival. Our objective was to compare long-term patient and renal allograft outcomes in recipients receiving kidneys from standard criteria (SCD) or ECD kidneys, with a focus on older (~6xyr) recipients. Methods. We retrospectively reviewed all deceased-donors in the criteria (SCD) or ECD kidneys, with a focus on older (~6xyr) recipients. Methods. We retrospectively reviewed all deceased-donors in the criteria (SCD) or ECD kidneys, with a focus on older (~6xyr) recipients. Methods. We retrospectively reviewed all deceased-donors in the criteria (SCD) or ECD kidneys, with a focus on older (~6xyr) recipients. Methods. We retrospectively reviewed all deceased-donors in the survival or the survival (SCD) and media graft survival (

ID: 114 Kidney transplant (KT) education in renal programs using on-line resources – interim report

Member of: CST

Abstract Type: Adult Abstract

Member Type: AHP

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Limited knowledge about KT may prevent patients with chronic kidney disease (CKD) from pursing KT. To promote KT education in Ontario CKD programs we made the Explore Transplant Ontario (ETO) transplant education program available on-line for patients and an ephrology staff. In conjunction, we started a webinar series to inform staff about KT. We report preliminary data about the utilization of these resources. Methods: The Explore Transplant package consists of four videos and accompanying information brochures. The videos include personal testimonials from KT recipients and donors alongside factual information about KT. ET was adapted for use in Ontario by a working group of patient intrinsive. CKD programs received physical ETO packages and specific website credentials, enabling us to monitor usage and differential between patient and professional users. Results: We have distributed over 5000 ETO packages since October 2017, when the project was launched. We registered -2000 patient and -2500 healthcare provided access exents to ETO online. Furthermore, programs aftered the proportion of use by processional sustenated the live or archived staff webmars. There was assumed an increases sharply for professional streng and exploration of use by program strength and professional strength and exploration of the properties of the program strength and properties of the propert

 $ID: 115\\ Human is let extracellular vesicles induce proinflammatory signalling in monocytes via toll-like receptors$

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Trainer: Yes

Astrard Boy: Background: The distinct events involved in the generation of an autoreactive immune response in type I diabetes (T1D) are not well understood. In both physiological and pathological conditions, cells release a variety of signals, including extracellular vesicles (EV). Previous work in our laboratory has identified that human islest release EV containing islet automitigens that are taken up by monocytes and clicit pro inflammatory responses in T1D PBMC. However, the mechanism by which EV interact with monocytes remains unknown. It has been shown in other disease contexts that EV activate monocytes critically in the extractive of the properties of the properties of the extractive of the properties of the extractive of the properties. It is the EV mediated monocyte activation. Peripheral blood entire is signalling. Here, we aim to investigate the role of T1R. It is is left EV mediated monocyte activation. Peripheral blood entire is signalling. Here, we aim to investigate the role of T1R. It is is left EV mediated with EV and/or CL1-095 (TLR4 inhibitor) prior to stimulation with EV. Analyses were conducted using Bow cytometry to assess proliferation, cell surface markers and ANOVA. Results: We show that EV are readily lake up by CD14 monocytes in both total PBAC. We demonstrate that EV stimulation in this greates in the example of the properties of of the properti

ID: 116 Policy Challenges for Organ and Tissue Allocation in an Era of "Precision Medicine"

Member of: CDTRP Abstract Type: General Abstract

Member Type: Associate Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background: Health care systems around the world are increasingly embracing evidence-based outcome measures and the use of precision melicine tools for donor-recipient matching to maximize utility related to graft survival. While the shift toward greater precision clearly provides health and resource benefits, the concomitant emphasis on utility can also create a range of policy concerns relating to, among other things, equity. Methods: We used traditional methods of legal scholarship, including review and analysis of legislation, case law, policy and related academic tests to related academic tests to festive. By the precision and logitation of healths are provision and logitation of healths are provision and logitation of healths are provised in all content of the provision and policy process and some physicians have already "gamed the system" to improve their patients' opportunity to receive an organ. Second, increased precision in allocation that does not have robustly proven clinical relevance may be impeded by right of access litigation or claims of general contents of the provision and popular representations have benefit from an organ but of the provision adoption of precisions and popular representations have benefit from an organ but of the provision of the provision and popular representations have therefore the adoption of precision medicine allocation for lower precision medicine allocation for lower precision in ellicoation of the provision of the provis

ID: 117 A Reduced Intensity Conditioning Protocol Induces Chimerism and Transplant Tolerance to Fully Allogeneic Islets in Autoimmune Diabetic NOD Mice

Member of: Student/Others

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science

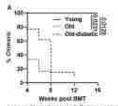
Group Category: Other

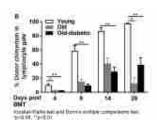
Submission: Poster/E-Poster only

Trainee: Yes

Abstract Body: Background: A reduced intensity conditioning protocol is desired for inducing hematopoietic chimerism, the most efficacious method for generating tolerance to donor organs. We previously showed that donor chimerism is achievable in pre-diabetic, non-obese diabetic (NOD) nice with a T-cell depletion based conditioning protocol. Here, our goal is to develop a protocol for inducing chimerism and tolerance to all segments must be because to be an even more challenging model. Methods. We preconditioned pre-diabetic and spontaneously diabetic (NOD) mice with a grant for the preconditioned pre-diabetic and spontaneously diabetic (NOD) mice with a grant for the preconditioned pre-diabetic and spontaneously diabetic (NOD) mice with a sprint-diabetic (NOD) mice with a spri

Abstract Image 1:





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Abstract Image 2:

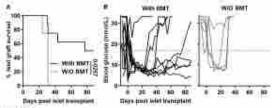


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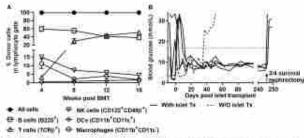


Fig. Delayed artisation of deep NUEs calls hardware the estational time of comparison and the acceptance of Anthropology (Nues and Anthropology). The calls in the estation of the estation of

ID: 118 Validation of Social Difficulty Inventory (SDI) in Kidney Transplant Recipients (KTR)

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Abstract Body: Background: Kidney transplant recipients (KTRs) may experience psychosocial distress, that is frequently un-noticed and un-managed. The Social Difficulties Inventory (SDI) has been developed to assess social difficulties in patients with cancer. Here we evaluate the validity of SDI in KTRs. Methods: A cross-sectional, convenience sample of adult KTR completed the SDI, the Generalized Anxiety Disorder? and the Patient Health Questionnaire?, using electronic data capture. Clinical characteristics were collected from medical records. The SDI contains 21 questions, 16 of which load on a single factor and form the SDI-16 socre, It also has there assessed with Cronsbach's alpha and Asperman's RNs, respectively. Structurely validity was extantionally respectively. Structurely validity was extantional passessing associations with questions about financial stability and neighborhood safety. Results: 07.251 participants (nem (SD) age 52(6) years) 58% were male and 63% were Causestains. Internal consistency of the "everyday living", "money matters" and "self and others" subsecules (a = 0.87, 0.858 and others) and of the SDI-16 of 10.91 was very agout CFA demonstrated good model fit for SDI-16 and the subsecules. The SDI-16 is cover was implicated and markey (KRbe-10-6). The SDI-16 socre was inductively an internal consistency of the "everyday living", "money matters" and "self and others" subsecules and other subsecules. The SDI-16 is cover was indepted in patients with low vis higher financial stability (medical internal reage of 10.84 (52, 16) was also an internal consistency of the "everyday living", "money matters" and "self and others" subsecules and the subsecules of the SDI-16 of 10.01 was very against an internal consistency of the "everyday living", "money matters" and "self and others" subsecules and the subsecules ar

ID: 119 ABO-antibody detection: Development of a complete ABO A and B bead-based assay

Member of: Student/Others

Abstract Type: Pediatric Abstract

Member Type: Traince

Science Type: Basic Science

Group Category: Heart

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: BACKGROUND. ABO-incompatible (ABOi) podiatric heart transplantation is a safe way to increase the donor pool for infant heart transplantation. However, the assay used to measure ABO antibodies in ABDi cardiac transplantation is inadequate for ABH subtype antibody specificity and isotype analysis and is thus limited for ABO: transplantation assessment. We developed a slide glycan microarray, which is an excellent tool for the fine ABO and below the subtype and the subtype and the subtype and below and below the subtype and the

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Abstract Image 3: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/119_AbstractImage3_0602101550.pdf

ID: 120 The Impact of Weight Reduction Surgery and Morbid Obesity on Renal Function after Transplantation

Member of: CDTRP

Abstract Type: Adult Abstract Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Abstract Body: Background: Morbid obesity is a significant barrier and renal transplantation is rarely offered to patients with Class III obesity (body mass index (BMI) over 40 kg/m2). Few studies have looked at the effect of pre-transplant surgical weight loss on post-transplant outcomes. Barriatric surgery (BS) especially laparoscopic sleeve gastrectomy (LSG) has been safely used in dulysis patients. In the past decade, patients with a BMI-040 and BMI-35 with 2 comorbidities have been referred for LSG prior to renal transplantation. Prior to this, our center rarely isted patients with BMI-040 EW caramined the remainded of the patients of LSG on short term outcome of a 25 days with BMI-040 EW and PMI-35 with 2 or more combibilities, 22 underwent subsection RTs. We compared in 20 or goods BMI 30 (obes C), was used for data analysis. Results. There were no differences in the baseline characteristies (Table 1) between groups except for more DCD in the OBS group, BWI 30 (obes C), one proposed by Compared to O group (27%, NQ) 93 (obes C), one S x 25 (or 0.05 C) on 1. Conclusion. B Sprior to RTs. was feasible and successful for most patients and many offer better transplant outcomes. It should be considered as a tool to increase RTs. eligibility.

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ID: 121 Does development of a young adult transplant clinic improve outcomes in young adult kidney transplant recipients?

Member of: Student/Others

Abstract Type: Pediatric Abstract

Member Type: Associate Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Poster/E-Poster only

Trainee: Yes

Harmer Use: 18

Abstract Body: Introduction: Young adult kidny: transplant recipients have one of the highest rate of rejection leading to graft loss. In November 2011, a multidisciplinary young adult transplant care with education and acid support. We highest rate of rejection leading to graft loss. In November 2011, a multidisciplinary young adult transplant care with education and acid support. We highest rate of rejection leading to graft loss. In November 2011, a multidisciplinary young adult transplant adult care before November 2011 (nov-YATC). Methods: A recrospective chart view was conducted for the 3 years after transfer into either VATC romone. VATC To-more paths data, time post-transplant and gas at transition was documented. Number of line views, energency department (ED) visits, hospitalizations, monthly ble tests, hospitalizations, hospitalizations, monthly ble tests, hospitalizations, monthly ble tests, hospitalizations, monthly ble tests, hospitalizations, hospitalizations, monthly ble tests, hospitalizations, hospitali

ID: 122
Long term outcomes after Adult to Adult Liver Transplantation of deceased donor and living donor; Cumulative single-center retrospective cohort study of 19 years

Member of: Student/Others Abstract Type: Adult Abstract

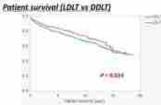
Member Type: Traince Science Type: Clinical Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Body: Background The difference between Living donor liver transplantation (LDLT) and deceased donor liver transplantation (DDLT) regarding long-term survival and cause of death is still under discussion. This is a retrospective cobort study to summarize the cumulative 19 year-experience of our liver transplantation program as a large. Western single centre series, Methods. We analyzed primary adulti-no-subtli here transplantation as a large. Western single centre series, Methods. We analyzed primary adulti-no-subtli here transplantation as a large. Western single centre series, Methods. We analyzed primary adulti-no-subtli here transplantation as a large was a large primary and transplantation as a large was a large primary and transplantation as a large primary and transplantation and transplant

Abstract Image 1:



Abstract Image 2:



Abstract Image 3:



ID: 123 Donor-specific chimeric antigen receptor Tregs restrain rejection in naive but not sensitized allograft recipients

Member of: CDTRP

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer Yes

Abstract Body: Background: Cell therapy with autologous regulatory T cells (Tregs) is feasible and safe in solid organ transplantation. Phase II trials which aim to combine Treg therapy and immunosuppression minimization are planned but the ability of Treg cell therapy to limit the increased risk of humoral alloreactivity that comes with lower immunosuppression is unknown. We analyzed the effect of irrelevant or donor specific characteristic antigen receptor (CAB) Tregs on humoral alloreactivity in immunocompetent mice receiving skin allografts. Methods. Tregs expressing an anti-HLA-2-apsecific CAB. Tregs, superistic and bloods were administered to Bloff more at the time of transplanting and HLA-A2-Plass (for expression). The time of the proposition of the proposition

ID: 124
Predicting wait time to a next offer when a first kidney offer is refused

Member of: CDTRP

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Image 2: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/124_AbstractImage2_0603084107.pdf

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ID: 126 Donor Age Supersedes the Impact of Donor-Recipient Size Mismatch on Kidney Graft Survival

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Body: Background: Small donor body size relative to recipient body size is associated with a higher risk of graft failure. Other strong risk factors for graft loss may modulate the relationship between donor-recipient size mismatch and graft survival. The aim of this study was to determine whether the relationship between donor-recipient size mismatch and graft survival is modified by donor and/or recipient age. Methods: This was a retrospective color study of all first, single, deceased donors kidney transplant recipients aged 2 18 years recorded in the Scientific Registry of Transplant Recipients (SRTR) January 1812, 2000 to March 1812, 2018. We fit in a minimal recipient size mismatch of assess the association between donor-recipient age manned to denor-recipient body surface area (BSA) ratio and categorized as SQ years) and increasing donor age (Figure 1). Model-based estimates of Syear dealth-censoring area and dealth-censoring area of the dealth area dealth-censoring area area (BSA) ratio and a categorized as A yours and a categ

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Abstract Image 3: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File(12578/126_AbstractImage3_0603084924.pdf

ID: 127
Phylogenetic template of The Epstein Barr Virus Nuclear Antigen 1 and Associated Correlates Among Canadian Transplant Patients

Member of: CDTRP Abstract Type: General Abstract Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background: To facilitate an improved understanding of the effect of genetic diversity of the Epstein-Barr virus (EBV) in the transplant setting, we have developed a dynamic phylogenetic tree using the EBV EBNA1 gene, new strains are added to the tree as they are identified. Methods: We examined the variants of the EBNA1 gene among (N=44) patients enrolled in the CNTRP POSITIVE Study of patients (< 1 8 years old) with and without PTLD. The EBNA-1 gene was sequenced from blood samples during EBV DNAcmin. Publicly available PTLD sequences and sequences were stimulated on the attrain as calculated to the age to the attrain and calculated change that occurred at coden of 87 (Ps.lap. V-Vel.). V-Ven.) Results: We identified \$4 EBNA1 sequences in the Canadian cohort and 10 sequences from Australia and USA. Twenty-one were from solid organ transplants (SOT) recipients of which 11 developed PTLD. There were 13 patients who had bone marrow transplantations of the proposition of the propos

ID: 129 Defining Quality criteria for successful organ donation programs: A Scoping Review

Member of: CDTRP Abstract Type: General Abstract Member Type: AHP Science Type: Clinical Science

Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Abstract Image 1: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/129_AbstractImage1_0603094227.pdf

ID: 131 Understanding the Influence of Inter-Professional Relational Networks within Organ Donation Programs in Ontario

Member of: CDTRP

Abstract Type: General Abstract

Member Type: AHP

Science Type: Clinical Science Group Category: Donation

Submission: Oral or Poster/E-Poster

Trainee: Yes

Astract Body: Background: To optimize organ donation performance the nature and impact of complex factors need to be understood. Some factors are well known and might not be modifiable (contra-indications for transplant, age limit of organ donor, etc.), but others (collaboration and communication) that contribute to variation among similar hospitals in the same province, are poorly understood. Thus, the overall aim of this research is to understand the nature aim impact of relationships within the organizational control of organ donation programs in Ontario. Methods Multilinethod exploratory, prospective study; (1) to describe the organizational attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploratory, prospective study; (1) to describe the organizational attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploratory, prospective study; (1) to describe the organizational attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploratory, prospective study; (1) to describe the organizational attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploratory in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilinethod exploration in organization attributes on the performance of organ donation programs in Ontario. Methods Multilin

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 $\textbf{Abstract Image 2:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12575/131_AbstractImage2_0603110113.pdf$

Abstract Image 3: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12578/131_AbstractImage3_0603110113.pdf

ID: 132 FESABILITY OF A NATIONAL NGS PROGRAM FOR HLA EPITOPE MATCHING: A CANADIAN PERSPECTIVE

Member of: CST

Abstract Type: General Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Poster/E-Poster only

Abstract Body: Aim: Implementation of a national epitope-based matching requires high-resolution sequence information for all transplant recipients and donors. We have conducted a comprehensive health technology assessment of NGS to support the operational needs of Canadian programs within a national framework. Methods:
We have examined technologies, chemistrics and bioinformatics, platforms for NGS in over 5,000 subjects from a diagnostic laboratory perspective comprising analytical precision, implementation (training, operation, support and economic criteria. Results: Our evaluation shows that short-range sequencing of long-range sequencing of a national precision of the compression of the proposition of the compression of

ID: 133 Whole blood versus packed red blood cell-based perfusate in kidney normothermic machine perfusion

Member of: Student/Others Abstract Type: Adult Abstract

Member Type: Traince Science Type: Basic Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Kidney transplantation is the gold standard treatment for end-stage renal disease, however an increasing gap between supply and demand has driven increasing interest in using marginal donor grafts. Normothermic machine perfusion (NMP) is a novel organ preservation method that offers opportunities for marginal kidney graft evaluation and therapeutic interventions not possible with traditional hypothermic methods. With a higher metabolic demand, MMP requires an oxygen carrier for efficient tissue oxygenation, and the most common choice is packed red blood cell-based NMP priesting states on graft inflammation and perfusions. Methods: Procurse and perfusion with our pressure controlled NMP system to prime with 300m of 240 hours. The NMP system is primed with 300m of 240 hours for 150 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 500 hours of 240 hours. The NMP system is primed with 500 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed with 150 hours of 240 hours. The NMP system is primed blood of 150 hours of 240 hours. The NMP system is primed blood of 150 hours of 240 hours. The NMP system is primed blood of 150 hours of 240 hours of 240 hours. The NMP system is primed blood of 150 hours of 240 hours of 240 hours. The NMP system is primed blood of 240 hours of 240 hours of 240 hours. The NMP system is primed blood of 240 hours of 240

 $1D: 134\\ LOSS OF HETEROZYGOSITY OF HLA GENES IN HEMATOLOGICAL MALIGNANCIES: RECOMMENDATIONS FOR PREVENTING HLA MISASSIGNMENTS$

Member of: CST

Abstract Type: General Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Poster/E-Poster only

Trainee: No

Attract Body: Background: Loss of heterozygosity (LOH) is a well recognized genetic abnormality in hematological malignancies and when involving the HLA genes on Chromosome 6, can result in erroneous HLA typing. LOH is most frequently observed during blast crises pre-transplant occurring in 3-4% of patients with Acute Mycloid Leukemia (AMI, (Dubois et al., 2017), and up to 12% in acquired Aplatis. Amenia (aAA) (Heyrman et al., 2017). Methods: Full HLA-1 Loc gene sequencing was established in Oct 2016 for the BC bone marrow program. Since then 2000 patients and donors have been fully byped using 8(SS Samples were assessed for relative buffy count or volume, as well as SCIK). Diagnosis in formation for high is patients (AMI), and a large buffy coa tresulted in the sample being flagged for or calutation. Results to 0.0 of the 2000 patients sequenced by NGS we have observed two cases of LOH, one of an entity beyon and not of a single HLA age nell HLA-C; In both cases, NGS detected only 1 allele-haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample, but was able to detect a 2nd allele/haplotype in the pre-transplant blood sample in the pre-transplant blood sample in the pre-transplant blood sample in the pre-transplant b

ID: 135 Human leukocyte antigen (HLA) class II expression on thymic regulatory T cells (Tregs) is induced by expansion conditions

Member of: CDTRP Abstract Type: General Abstract Member Type: Associate

Science Type: Basic Science

Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer Yes

Astrard Boy: BACKGROUND: Immune-modulating Tregs are a promising therapeutic tool in transplantation. Abundant Tregs can be isolated and expanded from discarded human thymuses (Dijke et al., AJT, 2016), indicating potential of thymic Tregs as an 'off-the-shelf' cell therapy. H.A. upregulation on activated Tregs may increase their immunogenicity, which is a possible obstacle for clinical purpose. Here, we studied HLA class II expressions on thymic Tregs usolated from infant thymuses (n=5) by mechanical dissociation and magnetic-bead-based cell separation were cultured under various conditions for 14 days (TABLE 1). Additionally, anti-TPN-y armithodies were added to condition B to study the role of IFN-y. Treg phenotype and HLA class II expression were assessed by flow cytometry, Cytokine production was analyzed by multiplex assay, Cytoxinciry assays were done using anti-HLA class II expression were assessed by flow cytometry, Cytokine production was analyzed by multiplex assay, Cytoxinciry assays were done using anti-HLA class II ambiditions and rabbit complement. RESULTIS: Before culture, c-6 % of thymic Tregs expressed HLA class II. Treg expression were assessed by flow cytometry, Cytokine production was analyzed by multiplex assay. Cytoxinciry assays were done using anti-HLA class II. Tregs were succeptible to anti-David-dependent complement. Plant and the complement of the comp

Abstract Image 1: http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/135_AbstractImage1_0603031654.pdf

ID: 136 COMPARISON OF HLA ANTIBODY ASSIGNMENTS BETWEEN TWO LUMINEX-BASED PLATFORMS

Member of: CDTRP

Abstract Type: General Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Oral or Poster/E-Poster

Trainee: No

Nativard Body: Background Given evidence that donor specific antibodies (DSA) to Human Leukocyte Antigens (HLA) adversely affect kidney transplant outcome, sensitive techniques for detecting HLA antibodies have been developed. Single antigen bead (SAB) Luminer-based tests, in particular, are highly sensitive and are used to define 'unacceptable' donor antigens in a virtual crossmatch. Although it has largely revolutionized HLA antibody detection. Luminers SAB assay however does present with some problems such as interfering substances and non-specific reactivity which can make interpretation challenging. Since the new inacceptable anti-HLA antibodies that a prainten has decreases the pool of suitable donors an interpretation challenging. Since the new investigate the concordance between two NSAB assays manufactured by One Lambda and fumnour Methods: The negative and positive correlations of antibody assignments for each bead with an identical HLA antigen, based on the Canadian national cut-off of 1000 MFI for One Lambda and the vendor recommended positive correlations between the kits ranaged from 76.0% depending on the locus and the negative seignment correlation was generally over 90%. LOG-MFF values were also comparations for Class I and Class II beads combined and by Class, and the regression was comparatively modest (r2 = 0.63, 0.63, 0.67), with the One Lambda kit having higher MFI values in general likely due to a higher serum to bead ratio. Conclusion: Although the two kits showed some correlation, there was also a significant amount of non-concordance.

 $ID: 137\\ Does thymoglobulin induction the rapy reduce rates of delayed graft function in DCD kidney transplant recipients?$

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science

Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No
Astrard Body: Background: As the rate of delayed graft function (DGF) is high in donation after cardiac death (DCD) renal transplantation, some transplant physicians prefer to utilize. Thymoglobulin (and delayed introduction of calcineurin inhibitors) over Basilisimab in order to reduce the rate of DGF. The purpose of this study was to compare the rates of DGF, rejection and survival of patients treated with either induction agent. Methods: A retrospective cohort study of recipients of 221 DCD kidney transplant recipients was performed between 2006 and 2018. Patient cohorts were stratified by induction agent. Each color of the purpose of this study was to compare with a state of the particular properties of 221 DCD kidney transplant recipients was performed between 2006 and 2018. Patient cohorts were stratified by induction agent. Methods: A retrospective color of the particular properties of 221 DCD kidney transplant recipients was performed between 2006 and 2018. Patient cohorts were stratified by induction agent. Each color of the particular properties of 221 DCD kidney transplant recipients was performed between 2006 and 2018. Patient cohorts were stratified by induction agent. Each color of the particular properties of 221 DCD kidney transplant recipients was performed between 2006 and 2018. Patient cohorts were stratified by induction agent. Each color of the particular properties of 221 DCD kidney transplant recipients was performed between 2006 and addition to immunologic risk based under addition to immunologic risk based under addition to immunologic risk based under a deal of the particular properties of the particular

ID: 138 A Fortunate Problem: Allocating Non-Directed Living Donor Livers

Member of: CDTRP Abstract Type: Adult Abstract Member Type: Associate Science Type: Clinical Science Group Category: Liver

Submission: Oral or Poster/E-Poster

Trainee: No

Trainer: No
Abstract Body: Background Living liver donation is an accepted way of addressing patients' needs amidst a scarcity of usable deceased-donor livers. As with other procedures entailing medical risk, voluntary informed consent is crucial. Our transplant program is fortunate enough to receive offers from time to time from individuals who wish to donate part of their liver to a complete stranger. In contrast to anonymous non-directed living donor (ANLD) kidneys, which are allocated algorithmically as though they were deceased donor organs, ANLD liver donation quandary. Patients and advantage in contrast to anonymous non-directed living donor (ANLD) kidneys, which are allocated algorithmically as though they were deceased donor organs, ANLD liver donation quandary. Patients who are next in line cisting literature by targing out the factor of the contrast of th

ID: 139 Half a Chance: Extending Split Liver Transplantation in North America

Member of: CDTRP Abstract Type: General Abstract Member Type: Associate

Science Type: Clinical Science Group Category: Liver Submission: Oral or Poster/E-Poster

Trainee: No

Trainee: No

Astrard Body: Background The human liver's ability to regenerate presents unique opportunities for some patients in need of transplant to derive long-serm benefit from less than a whole liver. Notably, deceased donor livers may be split to benefit two different recipients. This presentation examines the ethical and practical implications of split liver transplantation (SLI) from deceased donors. After elucidating the ethical permissibility of this practice, the presenters will identify and assess potential mechanisms for expanding access to SLT in controlled conditions. Methods

A review of the relevant literature shows that two normative considerations loom large over or again allocation policy, expected medical outcomes and equitable access. We critically appraise how \$LT\$ engines transplantation (SLT) from deceased donors. After elucidating the ethical permissibility of this practice, the presenters will identify and assess potential mechanisms for expanding access to SLT in controlled conditions. Methods of the expected medical conditions of the expected medical conditions of the expectation of the e

ID: 140 The impact of delayed graft function on DCD renal transplant outcomes

Member of: CST

Abstract Type: Adult Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Astrard Body: Background: Delayed graft function (DGF) is associated with inferior outcomes in donation after neurologic death renal transplantation. As a result of warm ischemic time, DGF occurs far more often following donation after circulatory death (DCD) transplantation, but it's effect on outcomes are unclear. We sought to examine the impact of DGF on DCF to DCF transplants. Methods: Demographics and outcomes of 201 DCD kidney transplants. Methods: Demographics and outcomes of 201 DCD kidney transplants. Methods: Demographics and outcomes of 201 DCD kidney transplants. Methods: Demographics and outcomes of 201 DCD kidney transplants. Methods: Demographics are received and overlaphic and outcomes of 201 DCD kidney transplants. Methods: Demographics were similar between IGF and DCIF groups: The privary outcome was graft survival and secondary outcomes included 1 year creatinine eleannee, receiption and overlaphic allowed and DCIF groups. The privary outcomes was graft survival and after a mean of 20 greats (1-12 years) (Figure 1). Although the presence of DGF did not affect patients or after a mean of 20 greats (1-12 years) (Figure 1). Although the presence of DGF did not affect patients or affect patient or affect patients or affect patient or affect patients or affect patient or affect patient or affect patients or affect patients or affect patients or affect patient or affect patients or affect patients or affect patient or affect patients or affect patient or affect patient or affect patients or affect patient or affect patients or affect patient patient patients or affect patient patients or affect patient patient patients or affect patient patients or affect patient patient patients or affect patient patient pa

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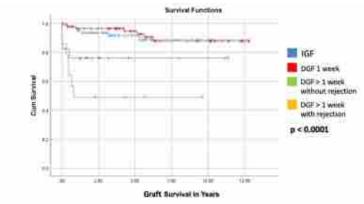


Fig 1. Graft surviyal was not different between IGF, DGF and prolonged DGF without rejection, but worse in prolonged DGF with rejection (p < 0.0001).

ID: 141
Pushing the beans to the brink: longer functional warm ischemic time confers acceptable outcomes of DCD kidney transplant

Member of: CST

Abstract Type: Adult Abstract

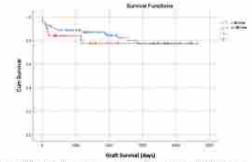
Member Type: Full

Science Type: Clinical Science Group Category: Kidney-Pancreas

Submission: Oral or Poster/E-Poster

Trainee: No

Abstract Body: Background: Donation after cardiac death (DCD) increases the donor supply of transplantable kidneys, however prolonged agonal and warm ischemic phases can be deleterious to graft function, potentially compromising outcomes. We sought to better define the impact of prolonged functional warm ischemic time (agonal time at MAP = 30 minutes (WIT2) in Demographic data as well as graft functional outcomes were collected and reviewed new orders to suggest the state of the suggest to the su



Pigne 1. Kapite-Weer survival turve companing the graft average outcome in days between the tem gradue, [W] + 30 mms (later) and [W] >= 30 mms (state).

ID: 142 Determining the role of von Willebrand Factor in potential thrombotic complications that are associated with aging and organ transplantation

Member of: CST

Abstract Type: General Abstract

Member Type: Traince

Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Boy: Background: von Willebrand factor (VWF) is a pro-coagulant glycoprotein expressed only in endothelial cells and megakaryocytes. It mediates adhesion of platelets to the endothelium/sub-endothelium. External stimuli, including aging and hypoxia can upregulate VWF. Increased production of VWF, is a significant risk factor for fitnombus formation. We are investigating whether conditions such as aging and transplantation, which exposes the donor organs to hypoxia, can affect expression pattern of VWF. Objectives: To determine whether increased VWF levels that we observe in the aged and donor minimal transplantation in cold storage or exposed to sum perfassion opticine, and after perfassion, as well as harvested major organs of aged and young mine will be subjected major organs of aged and young mine will be subjected major organs of aged and young mine will be subjected major organs of aged and young mine will be subjected major organs, of aged and young mine will be subjected major organs, of aged and young mine will be subjected major organs, of aged and young mine will be subjected major organs, of aged compared to young mine. Whether the presence of platelets aggregate formation in these mice organs. Results: Analyses have demonstrated that VWF mWAs and protein levels are altered in an organ-spectific manner in aged compared to young mine. Whether the presence of platelets aggregate formation in the subject of transplantation, eleven of transplantation, depending on the pre-transplant storage, conditions. Cold storage leading to warm perfassion televies are the present of transplantation, depending on the pre-transplant storage conditions. Cold storage leading to warm perfassion televies are being precessed for transplantation, eleven the present of transplantation of WF in the lung vasculature. Conclusions. Results will reveal whether conditions that leads to VWF unperfassion the results will previte whether conditions that leads to VWF unperfassion the results will previte whether c

ID: 143 ABO tolerance following treatment of infant wild-type mice with A-expressing syngeneic erythrocytes

Member of: CDTRP Abstract Type: General Abstract

Member Type: Full Science Type: Basic Science

Group Category: Heart Submission: Poster/E-Poster only

Trainee: No

Trainer: No
Astrard Body: Background: ABO-incompatible heart transplantation (ABO HTx) is safe in young children and increases donor access. Post-ABOi HTx, B cell tolerance develops to donor ABO blood group antigen(s) by mechanisms not fully defined. To study ABO holerance, we developed A-transgenie mice (A-Tg) that express A-amigen on vascular endothelium, erythrocytes (RBCs) and bringhosytes; we demonstrated A-amigen-specific tolerance induction of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in anti-dynamic and induction of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in which they are allowed to the intentional induction of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in a work of the intention of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in the anti-dynamic and the intention of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in the anti-dynamic and the intention of the intention of the intention of the intention of tolerance may allow subsequent ABO HTx. Recently, we showed ABO tolerance could be intentionally induced in the anti-dynamic and the intention of the

Abstract Image 1:

Table: Anti-A and anti-third party antibody levels following A unitges challenge in WT mice treated as infante with A-7g 8G//spiniotrytes

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 ${\small \hbox{ID: } 144\\ \hbox{COMPARISON OF HLA ANTIBODY ASSIGNMENT BETWEEN TWO LUMINEX PLATFORMS IN A COHORT OF THORACIC PATIENTS}\\$

Member of: CST

Abstract Type: General Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Other Submission: Poster/E-Poster only

Trainee: No

Abstract Body: Aim: To evaluate and compare the reliability of HLA-antibody detection in thoracic patients using either LabScreen (O.L.) (One Lambda, U.S.A) or LifeCodes (IM) (Immucor, U.S.A) Single Antigen (S.A) Luminex assays. Methods: Sera of heart or lung transplant patients were tested with OL and IM SA assays and analysis performed with OL. Fusion and IM MatchT software. A matrix of 147 beads was constructed to compare hose with identical HLA antigen common to both assays using raw trimmed HRI values, two-valied test, fixed effect B-spline nedgline, and distribution analysis sings SAS v94 as destinated a statistically significant differences were highlighted between the 2 assays for thoracin the parties (Figure 1). On the parties (Figure 1) and the parties (Fig

 $\textbf{Abstract Image 1:} \ http://amz.xcdsystem.com/F4900C6D-F7D9-B0B1-BD88F460B7DAB9C7_abstract_File12572/144_AbstractImage1_0603035949.gif$

 ${\small 1D: 145}\\ {\small EVALUATION OF BUCCAL SWABS FOR CONFIRMATORY RECEPIENT DNA AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR INITIAL SCREENING IN BC BONE MARROW PROGRAM AND DONOR BONE MARROW PROGRAM AND DONOR BC BONE MARROW PROGRAM AND DONOR BONE MARROW PROGRAM AND DONOR BONE MARROW PROGRAM AND DONOR B$

Member of: CST

Abstract Type: General Abstract

Member Type: Full

Science Type: Clinical Science Group Category: Other

Submission: Poster/E-Poster only

Trainee: No

Astract Body: Aim: A switch from blood to buccal swab for confirmatory typing of hematopoietic stem cell transplant (HSCT) has been driven by the increased case of sample collection (both locally and internationally) and patient comfort and the issue of observed loss of beterozygosity (LOH) in BMT patients. Buccal DNA collected at a second time pen in meets ASHI requirements as a second sample source and would need 210 ure requirements to provide the bone narrow for even the above to the bone to the laboratory, multiple time points posts collection (0, 24, 82 pln) with samples stored at room temperature from self-administracted collections. Different automatories destraction protocols for the Quisymptony were evaluated, in conjunction with various per-termine DNA quality and quantity. All samples were typed by SSO (One-Lamdba) and NGS sequencing (Omnson Holotype) for comparison purposes. Results: Our evaluation showed that a number of vendor kits were not satisfable for HLA typing, due to poor yield or consistent failure of a single locus. Having MIT Collection was a completed for the protocole of the protocole

Abstract Image 1:



ID: 146
Distinction between Hepatorenal Syndrome and Non-Hepatorenal Syndrome Acute Kidney Injury has no Impact on Renal Function Recovery Post Liver Transplantation

Member of: CST Abstract Type: Adult Abstract Member Type: Traince

Science Type: Clinical Science Group Category: Liver

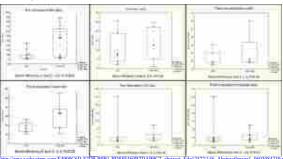
Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Acute Kidney Injury (AKI) in cirrhosis is often further categorized into Hepatorenal Syndrome (HRS) ws non-HRS to predict renal recovery post-transplant. This distinction is often cumbersome due to overlapping causes of AKI and ever-changing criteria of HRS. We here review the patterns of renal recovery after liver transplantation to reassess the relevance of this distinction. Methods We retrospectively analysed recovery of renal function after liver transplant. We assessed the difference in intensive care unit stay, hospital stay, madir creatinine, and time to achieve nadir in patients with on without HRS. Results: 90 patients with our advanced patient with one with patients and the patients of final assessment. Median age of patients was 600[08; 56-53], and 64% were males. Median MELD score was 25(08; 17-33). Alcohol was the most common citology/40% [ollowed by viral and NASH(24%; each), Median creatinine at the time of transplant was 172 mmol/L/QR; 144-263.) All patients and current or past assets. HRS was considered the cause of AKI in Hafs/96%; cases. Time to achieve creatinine and ard ICU stay both correlated storagely with pre-transplant may be an observed to the company of the patients and current or past assets. HRS was 124-124. The patients are considered the cause of AKI in Hafs/96%; cases. Time to achieve creatinine and ard ICU stay for one observed the considered with cause of the patients and current or past assets. HRS was 124-124. The patients are considered the cause of AKI in Hafs/96%; cases. Time to achieve creatinine patients and are current or past assets. HRS was 124-124. The patients are considered the cause of AKI in Hafs/96%; cases. Time to achieve reading negative transplant creatinine in the time of transplant and the time of transpl

Abstract Image 1:



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ID: 147 Serial monitoring of the alloreactive T cell compartment in lung transplant recipients

Member of: Student/Others Abstract Type: General Abstract

Member Type: Traince Science Type: Basic Science Group Category: Lung

Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Astrard Body: Background: Measurement of T cell alloreactivity may facilitate a more accurate prediction of graft outcome and the optimization of immunosuppression. We have developed a high-throughput immune synapse detection (ISD) method using imaging flow cytometry to define the composition and size of the alloreactive T cell repertoire in healthy donors. We hypothesize that ISD can be used to predict lung allograft outcome. Furthermore, we are using longitudinal post-transplant blood samples to examine the association of T cell alloreactivity—as measured by ISD—with clinical acute rejection. Method: We never prospectively collected blood samples from 50 donor and recipient jamps and the prospectively collected blood samples from 50 donor and recipient jamps and the prospectively collected blood samples from 50 donor and recipient jamps and the prospectively collected blood samples from 50 donor and recipient jamps and the prospectively collected blood samples from 50 donor and recipient jamps and the prospective secretary of the collected blood samples from 50 donor and recipient jamps and the prospective secretary of the samples from 50 donor and recipient jamps and the prospective secretary of the samples from 50 donor and recipient jamps and the prospective secretary of the samples from 50 donor sampl

ID: 148 Splenectomy is associated with higher rate of late rejection in post liver transplant (LT)

Member of: Student/Others Abstract Type: Adult Abstract Member Type: Traince Science Type: Clinical Science

Group Category: Liver Submission: Oral or Poster/E-Poster

Trainee: Yes

Trainer: Yes

Abstract Body: Background: In LT recipients, splenectomy is occasionally performed for various reasons including thrombocytopenia, ABO incompatibility and small for size syndrome. Splenectomy may influence immunological reactions and influences the rate, type and severity of post liver transplant rejection. We studied the effect of splenectomy on rejection pattern after LT. Methods: Between January 2012 — December 2016, 788 adult LT were performed in our program. 30 recipients had splenectomy prior or at the time of LT. Recipients were matched 1:2 based on age, MELD and palacles at the time of LT. presence of HCC and type of LT to recipients without splenectomy. The recipients without splenectomy in the palacent program of the properties of the

Abstract Image 1:

Table 1 moving variables for line reportion (> 6 incorths port LT)

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ID: 183 DCD Hearts: A possible medical legal and ethical framework

ID: 184 Education to Increase Pursuit of Transplant: State of the Field and New Innovations

 ${\small ID: 185 \atop Molecular\ Phenotyping\ of\ Transbronchial\ and\ Mucosal\ Lung\ Transplant\ Biopsies:\ the\ INTERLUNG\ study}$