**Supporting Information**

|  |  |
| --- | --- |
| **Table S1. List of countries contributing to ELTR registry and including HIV-infected patients** | |
| **Country** | **HIV-infected patients** |
| AUSTRIA | Yes |
| AZERBAIJAN | No |
| BELARUS | Yes |
| BELGIUM | Yes |
| BULGARIA | No |
| CROATIA | Yes |
| CZECH REPUBLIC | Yes |
| DENMARK | No |
| ESTONIA | Yes |
| FINLAND | No |
| FRANCE | Yes |
| GEORGIA | No |
| GERMANY | Yes |
| GREECE | Yes |
| HUNGARY | No |
| IRELAND | Yes |
| ITALY | Yes |
| LITHUANIA | No |
| NETHERLANDS | Yes |
| NORWAY | Yes |
| POLAND | Yes |
| PORTUGAL | Yes |
| ROMANIA | No |
| SERBIA | No |
| SLOVAKIA | No |
| SLOVENIA | No |
| SPAIN | Yes |
| SWEDEN | Yes |
| SWITZERLAND | Yes |
| TURKEY | Yes |
| UNITED KINGDOM | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table S2. Common variables in the ELTR and UNOS databases** | | |  |  |
| **Characteristic** | **Description - ELTR** | **Description - UNOS** | **ELTR variable** | **UNOS variable** |
| ***Transplant characteristics*** |  |  |  |  |
| Transplant date |  |  | THDATE | TX\_DATE |
| Simultaneous liver-kidney transplant | ELTR: 1=Kidney | UNOS: R=Right, L=Left, E=En-Bloc | ASSOCIATED\_ORG | TXKID |
| Ischemia time - combined (cold and warm ischemia time not distinguished in ELTR) | ELTR: Total ischemia time (minutes) |  | ISC\_TIME |  |
| Ischemia time - cold |  | UNOS: Cold ischemia time (hours) |  | COLD\_ISCH |
| Graft type | ELTR: 1=Full size 2=Reduced 3=Split 4=Split in situ 5=Split ex situ 6=Living; categorized for analysis: DDLT (1, 2), Split (3-5), LDLT (6) | UNOS: DON\_TY C=Deceased donor, F=Foreign donor, L=Living donor; TX\_PROCEDUR\_TY 701=Whole Liver, 702= Partial liver, remainder not tx or living transplant, 703=Split liver, 704=Whole with pancreas (technical reasons), 705=Partial liver with pancreas (technical reasons), 706=Split liver with pancreas (technical reasons); categorized for analysis: DDLT (701), Split (702-703), LDLT (DON\_TY=L) | TYPE1\_GRAFT | DON\_TY, TX\_PROCEDURE |
| Urgency | ELTR: 0=Elective, 1=Urgency | UNOS: 6010=Liver status 1, 6011=Liver status 1a, 6012=Liver status 1b; categorized for analysis as Urgent, remaining codes as Elective | URG | END\_STAT |
|  |  |  |  |  |
| ***Recipient characteristics*** |  |  |  |  |
| Age at transplant | ELTR: Calculated |  | AGE | AGE |
| Gender | ELTR: 0=Male, 1=Female | UNOS: M=Male, F=Female | RGENDER | GENDER |
| Race | ELTR: Not available | UNOS: 1=White, 2=Black, 4=Hispanic, 5=Asian, 6=American Indian/Alaska Native, 7=Native Hawaiian/othe Pacific Islander, 9=Multiracial, 998=Unknown |  | ETHCAT |
| Blood type | ELTR: A, AB, B, O | UNOS: A, A1, A2, A1B, A2B, AB, B, O; categorized for analysis: A (A, A1, A2), AB (A1B, A2B, AB), B (B), O (O) | RBLOODGP | ABO |
| Listing date |  |  | INSCDATE | INIT\_DATE |
| Weight (at transplant) | ELTR: kg | UNOS: kg | PRELTRWEIGHT | WGT\_KG\_CALC |
| Height (at transplant) | ELTR: cm | UNOS: cm | PRELTRHEIGHT | HGT\_CM\_CALC |
| Dialysis (at transplant) | ELTR: 0=No, 1=Yes | UNOS: Y=Yes, N=No | PRELT\_DIALYSIS | DIAL\_TX |
| Creatinine (at transplant) | ELTR: mg/dL | UNOS: mg/dL | PRELT\_CREAT | CREAT\_TX |
| Bilirubin (at transplant) | ELTR: mg/dL | UNOS: mg/dL | PRELT\_BILI | TBILI\_TX |
| INR (at transplant) |  |  | PRELT\_INR | INR\_TX |
| Laboratory MELD (at transplant) | ELTR: Calculated from laboratory variables |  | MELD\_CALC | FINAL\_MELD\_PELD\_LAB\_SCORE |
| Allocation MELD (at transplant) | ELTR: Not available |  |  | END\_STAT |
| Sodium (at transplant) | ELTR: mEq/L | UNOS: mEq/L | PRELT\_SERUM | FINAL\_SERUM\_SODIUM |
| Ascites (at transplant) | ELTR: 0=None, 1=Controlled with medication, 2=Refractory (poorly controlled); categorized for analysis: Ascites present (1 and 2) versus absent (0) | UNOS: 1=Absent, 2=Slight, 3=Moderate, 4=N/A; categorized for analysis: Ascites present (2 and 3) versus absent (1 and 4) | PRELT\_ASCITES | ASCITES\_TX |
| Encephalopathy (at transplant) | ELTR: 0=None, 1=Grade I-II (controlled with medication, 2=Grade III-IV (refractory) | UNOS: 1=None, 2=Grade I-II, 3=Grade III-IV | PRELT\_ENCEPHALO | ENCEPH\_TX |
| HIV | ELTR: HIV 0=Negative, 1=Positive; DISEASE1-3 J1=Human immunodeficiency virus (HIV) | UNOS: P=Positive, N=Negative | HIV, DISEASE1, DISEASE2, DISEASE3 | HIV\_SEROSTATUS |
| Hospitalization status | ELTR: 1=Intensive care unit-bound, 2=Continuous hospitalization, 3=Continuous medical care, 4=At home with function; categorized for analysis: ICU (1), Hospitalized not in ICU (2 and 3), Not hospitalized (4) | UNOS: 1=In intensive care unit, 2=Hospitalized not in ICU, 3=Not hospitalized | UNOS | MED\_COND\_TRR |
| Diagnosis: Alcohol | ELTR ALCOHOL: D1=Cirrhosis-Alcoholic cirrhosis | UNOS ALCOHOL: 4215=Alcoholic cirrhosis | DISEASE1, DISEASE2, DISEASE3 | DGN\_TCR, DGN2\_TCR, DIAG |
| Diagnosis: HBV | ELTR HBV: D3=Cirrhosis-virus B related cirrhosis, D5=Cirrhosis-virus BD related cirrhosis, D72=Cirrhosis-combined virus B and alcoholic cirrhosis | UNOS HBV: 4202-Cirrhosis type B HBSAG+, 4207=Cirrhosis type B and D | DISEASE1, DISEASE2, DISEASE3 | DGN\_TCR, DGN2\_TCR, DIAG |
| Diagnosis: HCV | ELTR HCV: D4=Cirrhosis-virus C related cirrhosis, D6=Cirrhosis-virus BC related cirrhosis, D7=Cirrhosis-virus BCD related cirrhosis, D71=Cirrhosis-combined virus C and alcoholic cirrhosis | UNOS HCV: 4204=Cirrhosis type C, 4206=Cirrhosis type B and C, 4216=Alcoholic cirrhosis with hepatitis C | DISEASE1, DISEASE2, DISEASE3 | DGN\_TCR, DGN2\_TCR, DIAG |
| Diagnosis: NASH | ELTR NASH: D11=Cirrhosis-cryptogenic (unknown) cirrhosis, F91=Metabolic diseases-NASH | UNOS NASH: 4208 & 4213=Cirrhosis cryptogenic (idiopathic), 4214=Cirrhosis fatty liver (NASH) | DISEASE1, DISEASE2, DISEASE3 | DGN\_TCR, DGN2\_TCR, DIAG |
| HCC | ELTR: E1=Cancers-hepatocellular carcinoma and cirrhosis, E2=Cancers-hepatocellular and noncirrhotic liver, E3=Cancers-hepatocellular - fibrolamellar | UNOS Diagnosis variables: 4400=PLM: Hepatoma - hepatocellular carcinoma, 4401=PLM: Heptaoma (HCC) and cirrhosis; Exception variable (EXC\_HCC) HCC | DISEASE1, DISEASE2, DISEASE3 | DGN\_TCR, DGN2\_TCR, DIAG, EXC\_HCC |
| Cause of death - Rejection | ELTR REJECTION: C1=Liver complications-acute rejection, C2=Liver complications-chronic rejection | UNOS REJECTION: 4605=Graft failure rejection | DEATH\_CAUSE1 | COD |
| Cause of death - Infection | ELTR INFECTION: B1=Infection-bacterial infection, B2=Infection-viral infection, B4=Infection-fungal infection, B5=Infection-parasitic infection, B6=Infection-other known infection, C23=Liver complications-infection, F4=Cerebrovascular complications-cerebral infection, H2=Urinary tract infection | UNOS INFECTION: 4606=Graft failure infection (nonhepatitis) , 4801=Infection pneumonia legionella pneumocystosis, 4802=Infection generalized sepsis, 4803=Infection fungal aspergillus cryptococcal, 4804=Infection mixed other, 4905=Infection opportunistic, 4806=Infection viral, 4810=Infection other, 4811=Infection | DEATH\_CAUSE1 | COD |
| Cause of death - Viral hepatitis recurrence | ELTR VIRAL HEPATITIS RECURRENCE: C9=Liver complications-recurrence of original disease - virus B, C10=Liver complications-recurrence of original disease - virus C | UNOS VIRAL HEPATITIS RECURRENCE: 4603=Graft failure hepatitis | DEATH\_CAUSE1 | COD |
| Cause of death - HIV | ELTR HIV: B3=Infection-HIV | UNOS HIV: 4950=AIDS | DEATH\_CAUSE1 | COD |
|  |  |  |  |  |
| ***Donor characteristics*** |  |  |  |  |
| Age | DBIRTHDATE |  | DONORAGE | AGE\_DON |
| Gender | ELTR: 0=Male, 1=Female | UNOS: M=Male, F=Female | DGENDER | GENDER\_DON |
| Race | ELTR: Not available | UNOS: 1=White, 2=Black, 4=Hispanic, 5=Asian, 6=American Indian/Alaska Native, 7=Native Hawaiian/othe Pacific Islander, 9=Multiracial, 998=Unknown |  | ETHCAT\_DON |
| Blood type | ELTR: A, AB, B, O | UNOS: A, A1, A2, A1B, A2B, AB, B, O; categorized for analysis: A (A, A1, A2), AB (A1B, A2B, AB), B (B), O (O) | DBLOODGP | ABO\_DON |
| Weight | ELTR: kg | UNOS: kg | DWEIGHT | WGT\_KG\_DON\_CALC |
| Height | ELTR: cm | UNOS: cm | DHEIGHT | HGT\_CM\_DON\_CALC |
| Type of donor | ELTR: 1=Brain death, 2=Circulatory Death, 3=Domino, 4=Living | UNOS: Brain death (CARDARREST\_NEURO=Y), Circulatory death (NON\_HRT\_DON=Y), LDLT (DON\_TY=L) [domino not specified in UNOS) | TYPE\_OF\_DONOR | CARDARREST\_NEURO, NON\_HRT\_DON, DON\_TY |
| Cause of death | ELTR: 1=Drowning, 2=Drug intoxication, 3=Asphyxiation, 4=Cardiovascular, 5=Electrical, 6=Gunshot wound, 7=Stab, 8=Blunt injury, 9=Sudden infant death, 10=Intracranial heamorrhage/stroke, 11=Others; categorized for analysis: Anoxia (1, 3), Cerebrovascular/stroke (10), 8=Blunt injury (8), Other(2, 4-7, 9, 11) | UNOS: 1=Anoxia, 2=Cerebrovascular/stroke, 3=Head trauma, 4=CNS tumor, 999=Other specify (4 and 999 combined as "Other") | CADAVERIS\_CAUSEDEATH | COD\_DON |
|  |  |  |  |  |
| ***Follow-up*** |  |  |  |  |
| Outcome | ELTR: 1=Alive 0=Dead | UNOS: A=Alive, D=Dead, L=Lost to follow-up, R=Retransplant | OUTCOME | PX\_STAT |
| Last follow-up date | Date of outcome (death or latest news), date of first retransplant | Date of patient status | DATLATEST, THDATE | PX\_STAT\_DATE |
| aAll variables were converted to uniform units | |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Table S3. Main characteristics by Cohort Origin and HIV Status** | | |
| **Variable** | **ELTR (n=32 052)** | **UNOS (n=41 154)** |
| **RECIPIENT** |  |  |
| HIV, n (%) |  |  |
| HIV-infected recipient | 458 (1.4) | 200 (0.5) |
| HIV-uninfected recipient | 31 594 (98.6) | 40 954 (99.5) |
| Male, n (%) |  |  |
| HIV-infected recipient | 360 (78.6) | 168 (84.0) |
| HIV-uninfected recipient | 21 792 (69.0) | 27 269 (66.6) |
| Age at LT (years), median (IQR) |  |  |
| HIV-infected recipient | 49 (45-53) | 53 (47-58) |
| HIV-uninfected recipient | 54 (46-61) | 57 (51-62) |
| MELD at LT, median (IQR) |  |  |
| HIV-infected recipient | 17 (11-24) | 19 (12-30) |
| HIV-uninfected recipient | 16 (11-22) | 20 (13-30) |
| MELD at LT excluding HCC, median (IQR) |  |  |
| HIV-infected recipient | 19 (13-26) | 25 (18-32) |
| HIV-uninfected recipient | 17 (12-23) | 25 (18-30) |
| Height (cm), median (IQR) |  |  |
| HIV-infected recipient | 173 (168-178) | 175 (170-180) |
| HIV-uninfected recipient | 171 (165-178) | 173 (165-180) |
| Weight (kg), median (IQR) |  |  |
| HIV-infected recipient | 70 (61-80) | 78 (69-89) |
| HIV-uninfected recipient | 75 (65-86) | 83 (71-97) |
| BMI (kg/m2), median (IQR) |  |  |
| HIV-infected recipient | 23.1 (21.1-25.7) | 24.9 (22.9-28.3) |
| HIV-uninfected recipient | 25.6 (22.9-28.9) | 27.8 (24.4-32.1) |
| Bilirubin al LT (mg/dL), median (IQR) |  |  |
| HIV-infected recipient | 3.4 (1.3-9.4) | 3.6 (1.2-12.0) |
| HIV-uninfected recipient | 2.6 (1.2-6.4) | 3.8 (1.7-10.4) |
| INR, median (IQR) |  |  |
| HIV-infected recipient | 1.5 (1.2-2.2) | 1.6 (1.2-2.4) |
| HIV-uninfected recipient | 1.5 (1.2-1.9) | 1.6 (1.3-2.2) |
| Creatinine (mg/dL), median (IQR) |  |  |
| HIV-infected recipient | 1.0 (0.8-1.3) | 1.1 (0.9-1.9) |
| HIV-uninfected recipient | 0.9 (0.7-1.2) | 1.1 (0.8-1.7) |
| Sodium (mEq/ L), median (IQR) |  |  |
| HIV-infected recipient | 137 (133-140) | 137 (134-140) |
| HIV-uninfected recipient | 137 (133-140) | 137 (133-139) |
| HCV diagnosis, n (%) |  |  |
| HIV-infected recipient | 301 (65.7) | 116 (58.0) |
| HIV-uninfected recipient | 6083 (19.2) | 16 995 (41.5) |
| HBV diagnosis, n (%) |  |  |
| HIV-infected recipient | 44 (9.6) | 36 (18.0) |
| HIV-uninfected recipient | 3234 (10.2) | 1372 (3.4) |
| Hepatocellular carcinoma, n (%) |  |  |
| HIV-infected recipient | 115 (25.1) | 83 (41.5) |
| HIV-uninfected recipient | 6359 (20.1) | 14 341 (35.0) |
| Split/LDLT, n (%) |  |  |
| HIV-infected recipient | 31 (6.8) | 5 (2.5) |
| HIV-uninfected recipient | 3844 (12.3) | 1946 (4.8) |
| Simultaneous liver–kidney transplant, n (%) |  |  |
| HIV-infected recipient | 7 (2.4) | 12 (6.0) |
| HIV-uninfected recipient | 504 (2.0) | 2990 (7.3) |
| Medical urgencya, n (%) |  |  |
| HIV-infected recipient | 44 (14.2) | 9 (4.5) |
| HIV-uninfected recipient | 1748 (6.9) | 1198 (2.9) |
| Blood type, n (%) |  |  |
| HIV-infected recipient |  |  |
| A | 180 (39.3) | 61 (30.5) |
| AB | 23 (5.0) | 8 (4.0) |
| B | 64 (14.0) | 32 (16.0) |
| O | 191 (41.7) | 99 (49.5) |
| HIV-uninfected recipient | |  |
| A | 13 529 (42.9) | 14 964 (36.5) |
| AB | 1872 (5.9) | 1998 (4.9) |
| B | 4216 (13.4) | 5558 (13.6) |
| O | 11 909 (37.8) | 18 434 (45.0) |
| Dialysis before LT, n (%) |  |  |
| HIV-infected recipient | 14 (3.1) | 15 (7.5) |
| HIV-uninfected recipient | 798 (2.5) | 5432 (13.3) |
| Ascites, n (%) |  |  |
| HIV-infected recipient | 198 (48.4) | 127 (63.5) |
| HIV-uninfected recipient | 13 697 (53.2) | 30 436 (74.3) |
| Encephalopathy, n (%) |  |  |
| HIV-infected recipient |  |  |
| None | 270 (67.2) | 90 (45.0) |
| 1-2 | 102 (25.4) | 81 (40.5) |
| 3-4 | 30 (7.5) | 29 (14.5) |
| NA | 0 | 0 |
| HIV-uninfected recipient | |  |
| None | 17 761 (68.8) | 15 233 (37.2) |
| 1-2 | 6384 (24.8) | 20 886 (51.0) |
| 3-4 | 1651 (6.4) | 4534 (11.1) |
| NA | 0 (0.0) | 301 (0.7) |
| Clinical condition, n (%) |  |  |
| HIV-infected recipient |  |  |
| ICU | 43 (9.9) | 21 (10.5) |
| Hospital | 316 (72.6) | 37 (18.5) |
| Home | 76 (17.5) | 142 (71.0) |
| HIV-uninfected recipient | |  |
| ICU | 2398 (9.2) | 5251 (12.8) |
| Hospital | 18 117 (69.5) | 7600 (18.6) |
| Home | 5551 (21.3) | 28 103 (68.6) |
| Waiting list time (months), median (IQR) | |  |
| HIV-infected recipient | 3.5 (0.9-8.5) | 3.4 (0.6-10.8) |
| HIV-uninfected recipient | 2.9 (0.7-7.9) | 3.2 (0.7-9.6) |
| Era of LT, n (%) |  |  |
| HIV-infected recipient |  |  |
| 2008-2011 | 243 (53.1) | 98 (49.0) |
| 2012-2015 | 215 (46.9) | 102 (51.0) |
| HIV-uninfected recipient | |  |
| 2008-2011 | 15 516 (49.1) | 18 987 (46.4) |
| 2012-2015 | 16 078 (50.9) | 21 967 (53.6) |
| Number of HIV LT per center, median (IQR) | |  |
| HIV-infected recipient | 12 (6-24) | 6 (3-12) |
| HIV-uninfected | - | - |
| Transplants in centers with < 1 HIV OLT/year, n (%) | | |
| HIV-infected | 152 (33.2) | 118 (59.0) |
| HIV-uninfected | - | - |
| **DONOR** |  |  |
| Male, n (%) |  |  |
| HIV-infected recipient | 234 (51.9) | 118 (59.0) |
| HIV-uninfected recipient | 17 494 (56.4) | 24 253 (59.2) |
| Donor age, n (%) |  |  |
| HIV-infected recipient | 54 (42-66) | 41 (26-52) |
| HIV-uninfected recipient | 49 (33-63) | 42 (27-54) |
| Gender Match, n (%) |  |  |
| HIV-infected recipient |  |  |
| Match | 240 (53.2) | 114 (57.0) |
| RecF-DonM | 45 (10.0) | 18 (9.0) |
| RecM-DonF | 166 (36.8) | 68 (34.0) |
| HIV-uninfected recipient | |  |
| Match | 18 274 (58.9) | 23 778 (58.1) |
| RecF-DonM | 4405 (14.2) | 7080 (17.3) |
| RecM-DonF | 8339 (26.9) | 10 096 (24.6) |
| Donor Height (cm), median (IQR) | |  |
| HIV-infected recipient | 170 (163-177) | 170 (165-178) |
| HIV-uninfected recipient | 170 (165-178) | 173 (165-180) |
| Donor Weight (kg), median (IQR) | |  |
| HIV-infected recipient | 73 (65-80) | 75 (65-90) |
| HIV-uninfected recipient | 75 (65-85) | 79 (68-92) |
| Donor BMI (kg/m2), median (IQR) | |  |
| HIV-infected recipient | 24.8 (22.9-27.4) | 25.7 (23.0-29.9) |
| HIV-uninfected recipient | 25.1 (22.9-27.8) | 26.5 (23.2-30.6) |
| ABO match, n (%) |  |  |
| HIV-infected recipient |  |  |
| Identical | 240 (93.0) | 186 (93.0) |
| Compatible | 15 (5.8) | 12 (6.0) |
| Incompatible | 3 (1.2) | 2 (1.0) |
| HIV-uninfected recipient | |  |
| Identical | 16 387 (90.3) | 38 199 (93.3) |
| Compatible | 1520 (8.4) | 2339 (5.7) |
| Incompatible | 236 (1.3) | 416 (1.0) |
| Donor Cause of death, n (%) |  |  |
| HIV-infected recipient |  |  |
| Anoxia | 33 (7.6) | 61 (30.5) |
| Stroke | 249 (57.5) | 69 (34.5) |
| Head Trauma | 48 (11.1) | 63 (31.5) |
| Other | 103 (23.8) | 7 (3.5) |
| HIV-uninfected recipient | |  |
| Anoxia | 1350 (4.8) | 10 560 (25.8) |
| Stroke | 18 075 (64.7) | 14 833 (36.2) |
| Head Trauma | 3272 (11.7) | 13 110 (32.0) |
| Other | 5257 (18.8) | 2451 (6.0) |
| Donor Cause of death, n (%) |  |  |
| Anoxia |  |  |
| HIV-infected recipient | 33 (7.6) | 61 (30.5) |
| HIV-uninfected recipient | 1350 (4.8) | 10 560 (25.8) |
| aMedical Urgency; Status 1.BMI: Body Mass Index; COD: cause of death; HBV: Hepatits B virus; HCV: Hepatitis C Virus; HIV: human immunodeficiency virus; ICU: Intensive Care Unit; IQR: Interquartil Range; LDLT: Living Donor Liver Transplant; LT: Liver Transplantation; MELD: model of end-stage liver disease | | |

**Table S4. Multivariable Cox model Interactions between HIV and period of Liver Transplantation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Covariates** | **Graft Loss HR**  **(95% CI)** | **P- value** | **Mortality HR**  **(95% CI)** | **P- value** |
| **HIV-infected**  2012-2015 vs. 2008-2012 | 0.58 (0.42-0.80) | <0.001 | 0.58 (0.41-0.82) | <0.001 |
| **HIV-uninfected**  2012-2015 vs. 2008-2012 | 0.86 (0.83-0.90) | <0.001 | 0.85 (0.82-0.88) | <0.001 |
| CI: Confidence Interval; HIV: human immunodeficiency virus; HR:Hazard Ratio | | | | |

**Table S5. Causes of Post-LT Death: HIV-infected and uninfected LT Recipients**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Total (n=12 257)** | **HIV-uninfected (n=12 089)** | **HIV-infected (n=168)** | **P-value** |
| Infection, n (%) | 1273 (10.4) | 1241 (10.3) | 32 (19.0) | <0.001 |
| Rejection, n (%) | 229 (1.9) | 226 (1.9) | 3 (1.8) | 1.00 |
| Hepatitis recurrence, n (%) | 551 (4.5) | 533 (4.4) | 18 (10.7) | <0.001 |
| Other, n (%) | 10 204 (83.2) | 10 089 (83.4) | 115 (68.5) | <0.001 |
|  | |  |  |  |

a N=799 patients with missing cause of death

b1 HIV-related cause of death included to group “Other”

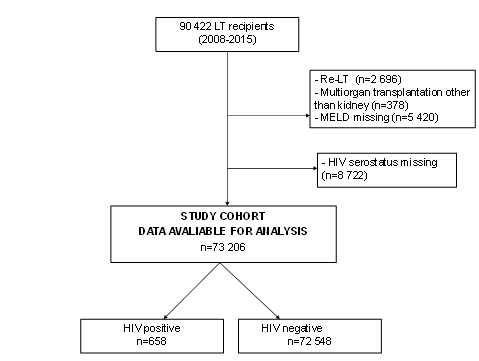
**Table S6. Propensity-Matched HIV-uninfected and HIV-infected groups**

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristic** | **HIV-uninfected** | **HIV-infected** | **Standard difference** |
| Male gender | 67.7% | 73.1% | 9.6% |
| BMI <21 | 8.9% | 9.6% | 2.1% |
| HCV | 32.1% | 27.1% | 9.0% |
| Dialysis | 8.6% | 9.0% | 1.4% |
| Age, years (mean) | 54 | 53 | 6.4% |

**Table S7. Multivariable Cox Model. Propensity score model and Unweighted Model.**

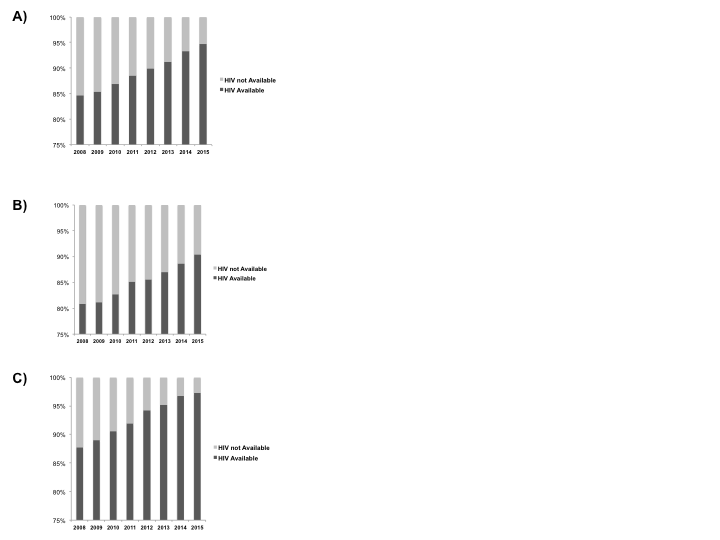
|  |  |  |
| --- | --- | --- |
|  | **Unweighted HR (95% CI)** | **Weighted HR (95% CI)** |
| **Graft loss** |  |  |
| HIV | 1.41 (1.23-1.63), p<0.001 | 1.39 (1.08-1.79), p=0.01 |
| Era 2012-2015 (vs. 2008-2011) | 0.86 (0.83-0.89), p<0.001 | 0.87 (0.84-0.90), p<0.001 |
| **Mortality** |  |  |
| HIV | 1.67 (1.43-1.94), p<0.001 | 1.55 (1.32-1.82), p<0.001 |
| Era 2012-2015 (vs. 2008-2011) | 0.84 (0.81-0.88), p<0.001 | 0.86 (0.83-0.90), p<0.001 |

**Figure S1. Flow-chart**

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HIV, human inmmunodeficiency virus; LT, liver transplantation; MELD: model of end-stage liver disease

**Figure S2.** **HIV serostatus availability over time**



**A,** Overall cohort. P-trend<0.001

**B,** ELTR cohort. P-trend<0.001

**C,** UNOS cohort. P-trend<0.001