Patient Characteristics at time of listing

Patient ID* _____

This should be random number linked to the patient. No patient or center identifiers allowed. Use our random ID generator available at: https://alftregistry.org/conversions. Please also use our Submission and ID database template to link the patient hospital numbers with their IDs: https:// alftregistry.org/sites/default/files/ID_Database.xlsx

Age___years | **Gender** ☐ Male ☐ Female

Height_____cm | **Weight** _____kg

Use our conversion calculator at: Use our conversion calculator at: https:// alftregistry.org/conversions

Ethnicity ☐ Caucasian ☐ Latino/Hispanic ☐ Middle Eastern ☐ African ☐ Caribbean ☐ South Asian ☐ East Asian ☐ Mixed

Etiology of Acute Liver Failure (ALF)

☐ Paracetamol / Acetaminophen ☐ Drug-induced ☐ Autoimmune hepatitis ☐ Viral hepatitis ☐ Metabolic ☐ Indeterminate ☐ Other _____

Comorbidities ☐ No comorbidities

☐ Cardiac comorbidity (*e.g.Atrial fibrillation, Cardiomyopathy, Valvular heart disease*)

☐ Hypertension

☐ Diabetes mellitus

☐ Stroke ☐ Asthma

☐ Thyroid disorder

Carrier of blood borne viruses

☐ None ☐ HIV ☐ HBV ☐ HSV ☐ Other_____

Blood group ☐ A ☐ B ☐ AB ☐ O

Life support any time prior to transplantation ☐ None ☐ CRRT ☐ Dialysis ☐ Ventilation ☐ Vasopressors

Liver assist Device: ☐ Yes ☐ No

If Yes:

☐ Plasma exchange ☐ MARS ☐ Other_____

Hepatic Encephalopathy

☐ None ☐ Grade 1 ☐ Grade 2 ☐ Grade 3 ☐ Grade 4

Laboratory results at the time of listing

Lactate___mmol/L *Norm ≤ 2 mmol/l.* pH ___.

Hemoglobin ___ g/dl *Norm 14-18 g/dl (male), 12-14 g/dl)female).*

Platelets ___/nl *Norm: 150-400/nl*. White Blood Cell Count (WBC) ___/nl *Norm 4-11/nl.*

Creatinine ___µmol/L

Norm: 62-115 µmol/L. Use our unit conversion calculator from mg/dL to µmol/l at https:// alftregistry.org/conversions

Bilirubin _____µmol/L

Norm: 5 - 32 µmol/L. Use our conversion calculator from mg/dL to µmol/l at https:// alftregistry.org/conversions, INR _____ratio

INR: International normalized ratio

Sodium _____mmol/L. Albumin _____g/L *Norm: 35 - 55 g/L.*

Factor V ___%, *(If available).* ALT _____U/L (*Alanine aminotransferase)* AST _____U/L *(Aspartate aminotransferase=*

Fibrinogen _____g/L *Norm: 1.5-4.0 g/L.*

Cranial CT:

brain edema ☐ Yes ☐ No

Abdomen CT:

Any evidence for chronic liver disease ☐ Yes ☐ No

Patient Status 15 Days after listing if not transplanted

☐ Recovered without transplant

☐ Died without transplant Other

Patient who underwent Transplantation

Type of liver transplantation

☐ DBD-LTX ☐ DCD-LTX ☐ LDLTX ☐ APOLT (Auxillary Partial Orthotopic Liver Transplantation) DD-Age:____LD-Age____

Duration of surgery _____minutes

Time from skin incision to skin closure in minutes

Transplantation ABO-incompatible ☐ Yes ☐ No

Intraoperative veno-venous bypass ☐ Yes ☐ No

Intraoperative renal replacement therapy ☐ Yes ☐ No

Transfusion directed by viscoelastic testing (e.g. TEG or ROTEM ☐ Yes ☐ No

TEG: Thromboelastogram | ROTEM: Rotation thromboelastometry

Intraop transfused blood products

Intraoperative transfused Blood Products (if not given, indicate"0")

PRC_____(units). FFP____(units) Platelets____(units)

Prothrombin complex concentrate ____ (units)

Fibrinogen concentrate____(g) Factor XIII____(units)

Factor VIIa___(mg). Tranexamic acid____(g)

Patient Postoperative Characteristics until Hospital Discharge

Length of intensive care unit (ICU) stay _____ days

***Ventilation* time before transplant**_____ hours

***Ventilation* after transplant**_____ hours

Time from skin closure to extubation

Patient postoperative inotropes ☐ Yes ☐ No

Transfused Blood Products Until Hospital Discharge

Intraoperative transfused Blood Products (if not given, indicate"0"). PRC_____(units). FFP____(units)

Platelets____(units) Prothrombin complex ____ (units)

Fibrinogen concentrate____(g) Factor XIII____(units)

Factor VIIa___(mg). Tranexamic acid____(g)

Requirement for post-transplant renal replacement therapy (RRT) ☐ Yes ☐ No

Duration of RRT_____hours

Neurologic complication postop ☐ Yes ☐ No

Patient Postoperative lab

Patient postoperative peak ALT (up to day 7 post-transplant)

_____IU/L

ALT: Alanine aminotransferase

Postoperative peak AST (up to day 7 post-transplant)

_____IU/L

AST: Aspartate aminotransferase

Bilirubin on postoperative day 7 ____µmol/L

Typical normal ranges 3-25 (µmol/l). Use our conversion calculator from mg/dL to µmol/l: https:// alftregistry.org/conversions

Bilirubin on postoperative day 14_____ µmol/L

if available. Typical normal ranges 3-25 (µmol/l). Use our conversion calculator from mg/dL to µmol/l: https:// alftregistry.org/conversions

INR on postoperative day 7_____ ratio

INR: International normalized ratio

Patient peak lactate on postoperative day 1____mmol/l

Day 1 post-transplant, NOT intraoperative

Patient Status 90 Days after listing and transplanted

Transplanted and recovered ☐ Yes ☐ No

Need retransplantation ☐ Yes ☐ No

Died following transplant ☐ Yes ☐ No

Recipient status at 1 year post-transplant

12 month follow up not completed yet ☐ Yes ☐ No

Alive at 1 year post-transplant ☐ Yes ☐ No

Dead within 1 year post-transplant ☐ Yes ☐ No

Unknown / lost to follow up ☐ Yes ☐ No

Recipient days from transplantation to death **day**

Please fill this part if the patient passed; otherwise, leave it blank.