



K-SOTTO

**KERALA STATE ORGAN AND TISSUE
TRANSPLANT ORGANIZATION**

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CRITERIA LISTING FOR SUPER URGENT LIVER TRANSPLANTATION

PARACETAMOL POISONING

Category 1

1. pH < 7.25 more than 24h after overdose and after fluid resuscitation

Category 2

1. Co-existing prothrombin time > 100s (or) INR > 6.5
and
2. serum creatinine > 3.4mg/dL (or) anuria: 24hr urine output < 100ml,
and
3. Grade 3–4 encephalopathy

Category 3

PREREQUISITES: adequate fluid resuscitation, and exclusion of other causes of hyperlactemia (e.g. pancreatitis, intestinal ischemia)

1. Arterial lactate > 5mmol/L on admission
and
2. > 4 mmol/L 24h later
and
3. Clinical hepatic encephalopathy

Category 4

PREREQUISITES: Absence of clinical sepsis

(Any two from the below 1, 2 and 3 & features suggestive of deterioration from 4, 5 and 6)

1. Co-existing prothrombin time > 100s (or) INR > 6.5
and
2. Serum creatinine > 3.4mg/dL (or) anuria: 24hr urine output < 100ml,
and

3. Grade 3–4 encephalopathy
4. Increased Intra cranial pressure
5. $FiO_2 > 50\%$
6. Increasing inotropes

UNFAVORABLE ETIOLOGIES

Seronegative hepatitis, idiosyncratic drug reactions, drug-induced liver injury.

Category 5

Prothrombin time $> 100s$ or INR > 6.5

OR

If hepatic encephalopathy is **absent**,

1 is mandatory and any two from 2,3,4,5

1. INR > 2 after vitamin K repletion
2. Age > 40
3. Age < 10 years
4. Prothrombin time $> 50sec$
5. INR > 3.5

If hepatic encephalopathy is **present**,

1. Jaundice to encephalopathy time > 7 days
2. Serum bilirubin > 17.5 mg/dl (> 300 mmol/L)

FAVORABLE ETIOLOGIES

Acute viral hepatitis: Hepatitis A, Hepatitis B

Category 6

1. Clinical hepatic encephalopathy
2. Prothrombin time $> 100s$ or INR > 6.5
If '2' is absent, any three from 3,4,5,6
3. Age > 40 or < 10 years
4. Prothrombin time $> 50sec$ or INR > 3.5
5. Jaundice to encephalopathy time > 7 days
6. Serum bilirubin > 17.5 mg/dL (300 mmol/l)

ACUTE PRESENTATION OF DISEASES

Category 7

Wilson's disease, autoimmune hepatitis or Budd-Chiari syndrome with a combination of coagulopathy and encephalopathy

HEPATIC ARTERY THROMBOSIS (HAT)

Category 8

HAT within 21 days of liver transplantation

SEVERE EARLY ALLOGRAFT DYSFUNCTION

Category 9

Allograft dysfunction within 7 days of liver transplantation

At least two of the following from 1,2,3,4

1. AST>10,000
2. INR>3.0
3. Arterial lactate>3mmol/L
4. Absence of bile production

TOTAL HEPATECTOMY PATIENT

Category 10

Patients who have undergone total hepatectomy e.g. in cases of trauma etc.

LIVER FAILURE IN LIVE LIVER DONOR

Category 11

A patient who has been a living liver donor, who develops severe liver failure within 4 weeks of the donor surgery.

ACUTE LIVER FAILURE IN CHILDREN

Category 12

Acute liver failure in children under 2 years of age.

1. INR>4
or
2. Encephalopathy Grade 3-4

RATOL (YELLOW PHOSPHORUS POISONING)

Category 13

Patient meeting any of 1, 2, 3.

1. Prothrombin time >100 s or INR >6.5 after vitamin K repletion.
In patients undergoing plasmapheresis, INR >2.5 , 12h after the second set of plasmaphereses
2. MELD >37
3. Hepatic Encephalopathy grade II and above

