

AARC ACLF – CASE PRESENTATION

Gastroenterology and Hepatology unit,
Department of Medicine,
King George's Medical University, Lucknow.

CASE DEMOGRAPHIC DETAILS

- 34 year/ male,
- R/O Lucknow, Uttar pradesh, India,
- Farmer

HISTORY

Chief complaints:

1. Jaundice x 3 months
2. Ascites with pain x 2 months
3. Constipation x 4 days
4. Altered sensorium x 2 days
5. H/O decompensation in the past: yes, jaundice 1 year ago
6. Alcohol: Heavy alcoholic since 7 years, 2-3 quarters/day, last intake on 05/11/21 (6 days before)
7. Comorbidities: None
8. Drugs: None

Vital Signs

| Variable | 09/11/2021 | 12/11/2021 | 16/11/2021 | 21/02/2021 |
|-------------|-----------------|------------|------------|-------------|
| Heart Rate | 86 | 84 | 80 | 110 |
| BP | 110/74 | 106/64 | 114/72 | 62 systolic |
| RR | 14 | 16 | 18 | 18 |
| Temperature | 98 | 98.7 | 99.1 | 98 |
| Ascites | Grade 2 | Grade 2 | Grade 3 | Grade 3 |
| HE (grade) | 3 | 2 | 3 | 4 |
| Tapping | Diagnostic done | Not done | Not done | Not done |

Investigations

| Variable | 09/11 | 11/11 | 12/11 | 14/11 | 16/11 | 19/11 | 20/11 | 21/11 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hb | 7.6 | 8 | 9.9 | | 9 | 8.6 | | |
| TLC | 3600 | 7000 | 7600 | | 7500 | 8800 | | |
| N | 79 | 80 % | 85 | | 80 | 75 | | |
| E | 03 | 02 % | 02 | | 02 | 02 | | |
| L | 20 | 16 % | 10 | | 17 | 22 | | |
| Platelets | 0.35 | 1.80 | 0.33 | | 0.26 | 0.66 | | |
| Urea | 70.2 | 82.2 | 104.2 | 112 | 136.4 | 128.6 | 155.1 | 150.9 |
| Creat | 2.88 | 3.3 | 3.67 | 4.20 | 5.09 | 6.05 | 7.01 | 6.93 |
| Na | 131.1 | 133 | 128 | 127 | 130.3 | 127 | 127.8 | |
| K | 3.14 | 2.96 | 5.78 | 3.57 | 4.39 | 4.3 | 3.99 | |
| T.Bil | 14.20 | 18.4 | 20.35 | 20.91 | 26.6 | 23.6 | | |
| D.Bil | 6.7 | 6.96 | 10.73 | 12.85 | 14.8 | 14.11 | | |
| I.Bil | 8.0 | 11.52 | 9.62 | 8.06 | 11.3 | 9.56 | | |

Investigations

| Variable | 09/11 | 11/11 | 12/11 | 14/11 | 16/11 | 19/11 |
|-----------|-----------|-------|-------|-----------|-------|-------|
| AST | 199 | 249 | 206 | 130 | 120 | 147 |
| ALT | 44.2 | 66 | 53 | 39.40 | 34.12 | 43 |
| SAP | 160.5 | 160 | 219 | 227 | 217 | 222 |
| GGT | | | | | | |
| T protein | 5.63 | 7.42 | 7.32 | | 6.40 | 6.15 |
| Albumin | 1.86 | 2.31 | 2.29 | | 2.40 | 2.23 |
| PT/INR | 38.8/3.03 | | | 35.2/2.85 | | |

Arterial Blood Gas Analysis

| Parameter | 09/11 | 11/11 | 19/11 | 20/11 | 21/11 |
|------------|-------|-------|-------|-------|-------|
| Ventilator | No | No | No | No | yes |
| O2 | 94 % | 96 % | 98 % | 97 % | 92 % |
| pH | 7.51 | 7.49 | 7.35 | 7.40 | 7.33 |
| pCO2 | 24.5 | 26.0 | 24.2 | 20.6 | 23.9 |
| pO2 | 51.6 | 94.4 | 128 | 104 | 36.1 |
| HCO3 | 19.6 | 22 | 15.5 | 15.2 | 14.4 |
| Lactate | 2.1 | 1.9 | 1.8 | 1.3 | 1.8 |

Investigations

| Serologies | | | |
|-----------------------|-----------|--|--|
| HBsAg | NR | | |
| Anti HCV | NR | | |
| ANA | Not Done | | |
| HCV RNA | Not Done | | |
| IgM AntiHBC | Not Done | | |
| HBV DNA | Not Done | | |
| IgM anti HAV,anti HEV | NR | | |
| IgG | Not Done | | |
| ASMA | Not Done | | |

Investigations

| Parameter | | |
|--------------------------|---|--|
| UGI endoscopy | (Date:18/11/21) | |
| Esophageal varices grade | 2 x 1 Col., 1 x 2 Col., no RCS | |
| Stomach | | |
| Duodenum | Mild PHG and duodenopathy | |
| Ascitic fluid culture | Sterile | |
| USG abdomen | (Date: 9/11/21) Hepatomegaly (19 cm), coarse echotexture of liver, Mild Ascites | (Date:14/06/21) Mild hepatomegaly coarse echotexture, dilated portal vein (15 mm), mild to moderate ascites |

Treatment

| Day | Day 1 (9/11/21) | Day 3 (11/11/21) | Day 7 (16/11/21) | Day 9 (19/11/21) |
|-------|--|---|--|--|
| Drugs | <ul style="list-style-type: none">• Inj Cefotaxim 2 gm ivi TDS• Inj Pantop 40 mg OD• Inj Kaplin 10 mg OD• Tab Rifagut 550 mg 1 tab BD• Syrup Lactulose 30 ml QID | <ul style="list-style-type: none">• Same plus• Inj Albumin 20 % BD (not regular)• Inj Terlipressin 1 mg QID | <ul style="list-style-type: none">• Same plus• HD 1 session• 1 unit PRBC | <ul style="list-style-type: none">• Same plus• HD 1 session• 1 unit PRBC |

LIVER SEVERITY SCORE

| Parameter | 9/11 | 14/11 | 19/11 | |
|------------------|-------------|--------------|--------------|--|
| AARC | 11 | | 11 | |
| CLIF SOFA | 12 | 12 | | |
| SOFA | 13 | 16 | | |
| CTP | 13 | 13 | | |
| MELD | 39 | 43 | | |

Followup

Could not be done because the patient expired during hospital stay

Outcome

Expired on 22-11-21 (day 13 of hospitalisation)