

**Table S1:** Venous blood gas analysis of the calf at presentation

| PARAMETER                  | RESULT&UNIT   | REFERENCE INTERVAL |
|----------------------------|---------------|--------------------|
| pH                         | 7.165         | 7.35 ... 7.45      |
| pH(st),c                   | 7.338         |                    |
| Hct,c                      | 42.8 %        |                    |
| pO <sub>2</sub>            | 17.3 mmHg     |                    |
| pCO <sub>2</sub>           | 76.1 mmHg     | 35 ... 50          |
| pH(T),c                    | 7.145         |                    |
| cH(T),c                    | 71.6 nmol/L   |                    |
| pO <sub>2</sub> (T),c      | 19.3 mmHg     |                    |
| pCO <sub>2</sub> (T),c     | 81.9 mmHg     |                    |
| ctHb                       | 13.9 g/dL     |                    |
| sO <sub>2</sub>            | 25.5 %        |                    |
| FO <sub>2</sub> Hb         | 25.3 %        |                    |
| FCOHb                      | 25.3 %        |                    |
| FHHb                       | 74.0 %        |                    |
| FMeHb                      | 1.0 %         |                    |
| K <sup>+</sup>             | 4.9 mmol/L    | 3.5 ... 4.5        |
| Na <sup>+</sup>            | 131 mmol/L    | 135 ... 145        |
| Ca <sup>++</sup>           | 1.04 mmol/L   |                    |
| Ca <sup>++</sup>           | (7.4) mmol/L  |                    |
| Cl <sup>-</sup>            | 86 mmol/L     |                    |
| Anion Gap                  | 23.3 mmol/L   |                    |
| Osmolarity                 | 268.1 mOsm/Kg |                    |
| Glucose                    | 6.3 mmol/L    |                    |
| Lactate                    | 7.7 mmol/L    | 0.60 ... 2.20      |
| ctCO <sub>2</sub> (p)c     | 64.3 Vol%     |                    |
| ctHCO <sub>3</sub> (p)c    | 26.3 mmol/L   |                    |
| ctHCO <sub>3</sub> (P,st)e | 19.5 mmol/L   | 22 ... 27          |
| ABE <sub>e</sub>           | - 4.1 mmol/L  | ±3                 |
| SBE <sub>e</sub>           | -1.4 mmol/L   |                    |

**Table S2:** Serum Biochemistry result of the calf and respective reference ranges

| Parameters           | Unit Value   | Reference interval |
|----------------------|--------------|--------------------|
| CK                   | 141 U/l      |                    |
| LDH                  | 851 IU/l     | 690 ... 1445       |
| AST                  | 44 U/l       | 78 ... 132         |
| SAP                  | 87 U/l       |                    |
| GGT                  | 24.1 U/l     |                    |
| Total Bilirubin      | 0.23 mg/dl   | 0 ... 0.1          |
| Indirect Bilirubin   | 0.17 mg/dl   |                    |
| Direct Bilirubin     | 0.06 mg/dl   |                    |
| Total Cholesterol    | 57 mg/dl     | 80 ... 120         |
| Glucose              | 94 mg/dl     |                    |
| Beta-hydroxybutyrate | 0.060 mmol/l |                    |
| Total Protein        | 6.48 g/dl    | 6.8 ... 8.6        |
| Albumin              | 3.72 g/dl    |                    |
| Globulin             | 2.76 g/dl    | 3 ... 4.9          |
| Albumin/Globulin     | 1.35         |                    |
| Urea                 | 1325 mg/dl   | 8 ... 23           |
| Creatinine           | 2.04 mg/dl   | 0.9 ... 1.3        |
| Phosphorus           | 12.35 mg/dl  |                    |
| Calcium              | 10.2 mg/dl   |                    |
| Corrected Calcium    | 10.0 mg/dl   |                    |
| Ca * P               | 126.0        |                    |
| Sodium               | 133 mEq/l    |                    |
| Potassium            | 6.6 mEq/l    |                    |
| Na/K                 | 20.0         |                    |
| Chloride             | 86.0 mEq/l   |                    |
| Magnesium            | 2.74 mg/dl   |                    |
| Uric Acid            | 1.47 mg/dl   |                    |
| TIBC                 | 361 µg/dl    |                    |
| UIBC                 | 302 µg/dl    | 63 ... 186         |