**Patient characteristics ECTR group**

| Nr | Sex | Age (years) | pH  | Lactate (mmol/l) | Bic (mmol/l) | Metformin (mg/l) | Creatinine (umol/l) | Diagnosis | DC | VR | MVR | LoS (days) | Outcome          | Reason ECTR                                      |
|----|-----|-------------|-----|------------------|--------------|------------------|--------------------|------------|----|----|-----|-----------|----------------|-----------------------------------------------|
| 1  | F   | 67          | 7.05| 19.0             | 8            | 2.9              | 478                | Hemorrhagic shock | Y | N | N  | 34        | D               | Renal failure                                  |
| 2  | F   | 66          | 7.12| 13.5             | 7            | 19.4             | 640                | Dehydration        | Y | Y | N  | 120       | S               | Severe metabolic acidosis and renal failure with metformin use |
| 3  | F   | 75          | 7.03| 16.5             | 7            | 5.0              | 266                | Myocardial infarction | Y | Y | N  | 2         | D               | Severe metabolic acidosis and renal failure with metformin use |
| 4  | F   | 75          | 7.22| 5.8              | 12           | 32               | 813                | Myocardial infarction | N | N | N  | 18        | S               | Renal failure                                  |
| 5  | M   | 58          | 6.77| 23               | 2            | 38               | 1039               | Dehydration         | N | Y | Y  | 19        | S               | Severe metabolic acidosis and renal failure with metformin use |
| 6  | F   | 72          | 7.15| 14.5             | 8            | 20               | 814                | Renal failure       | N | N | N  | 38        | S               | Severe metabolic acidosis and renal failure with metformin use |
| 7  | F   | 77          | 7.18| 11.1             | 7            | 25.4             | 960                | Dehydration         | N | N | N  | 22        | S               | Renal failure, hyperkalaemia, MALA             |
| 8  | F   | 68          | 7.07| 9.9              | 10           | 22               | 706                | Dehydration         | N | N | N  | 2         | S               | Renal failure, hyperkalaemia                  |
|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 9 | F | 78 | 6.94 | 20.3 | 4 | 44 | 612 | Dehydration | N | Y | N | 2 | S | Severe metabolic acidosis and renal failure with metformin use |
| 10 | F | 62 | 6.9 | 13.8 | 2 | 34 | 590 | Dehydration | Y | Y | N | 14 | S | Severe metabolic acidosis and renal failure with metformin use |
| 11 | F | 82 | 6.82 | 23.2 | 2 | 47 | 691 | Dehydration | N | Y | N | 15 | S | Severe metabolic acidosis and high metformin serum concentration |
| 12 | F | 56 | 7.12 | 8.8 | 7 | 31 | 882 | Dehydration | Y | Y | N | 7 | S | Severe metabolic acidosis and renal failure with metformin use, hyperkalaemia |
| 13 | F | 67 | 7.25 | 6.6 | 12 | 22.8 | 519 | Pneumonia | N | Y | N | 18 | D | Lactic acidosis and high metformin serum concentration |
| 14 | F | 62 | 6.61 | 15.6 | 4 | 45 | 808 | Septic shock | Y | Y | Y | 2 | D | Failure supportive care, severe metabolic acidosis and high metformin serum concentration |
| 15 | F | 76 | 7.12 | 8.0 | 3 | 27.5 | 669 | Urosepsis | N | Y | N | 14 | S | Failure supportive care, high metformin serum concentration |
| 16 | F | 72 | 6.82 | 11.2 | 4 | 45 | 1004 | Dehydration | N | Y | N | 2 | D | Severe metabolic acidosis and renal failure with metformin use |
| 17 | M | 82 | 7.12 | 8.8 | 8 | 4.1 | 414 | Urosepsis | N | N | N | 25 | S | Renal failure, hyperkalaemia |
| 18 | M | 87 | 7.34 | 11.7 | 9 | 8.2 | 263 | Urosepsis | N | Y | N | 2 | D | MALA |
| 19 | F | 79 | 6.94 | 13.5 | 2 | 46 | 642 | Dehydration | N | Y | N | 8 | S | Failure supportive care, severe metabolic acidosis |
| 20 | F | 78 | 7.22 | 14.3 | 8 | 12.6 | 147 | Heart failure | N | N | N | 11 | D | MALA |
| 21 | F | 70 | 6.98 | 12.8 | 8 | 42.4 | 419 | Septic shock | Y | Y | Y | 5 | D | Severe metabolic acidosis, high metformin serum concentration |
| 22 | F | 69 | 7.22 | 19 | 7 | 23.4 | 523 | Dehydration | N | Y | N | 9 | S | Failure supportive care, lactic acidosis, renal failure, |
| No | Gender | Age | BMI | DB | Glu | Diagnosis                                                                 | DC | VR | MVR | LoS | Outcome       |
|----|--------|-----|-----|----|-----|---------------------------------------------------------------------------|----|-----|-----|-----|---------------|
| 23 | F      | 82  | 6.66| 10.6| 2   | 44.5 | Septic shock | Y  | Y  | Y  | 60 | S            | Renal failure, severe metabolic acidosis |
| 24 | F      | 72  | 7.14| 6.5 | 8   | 30.4 | Sepsis         | N  | Y  | Y  | 17 | D            | Failure supportive care                |
| 25 | F      | 72  | 7.16| 4   | 2.3 | 140  | Heart failure   | Y  | N  | N  | 11 | D            | MALA                                    |
| 26 | M      | 58  | 7.00| 21.6| 6   | 100  | Intentional overdose | N  | Y  | Y  | 10 | S            | Severe metformin intoxication, lactic acidosis |
| 27 | M      | 52  | 7.26| 11.4| 13  | 50   | Intentional overdose | N  | Y  | N  | 5  | S            | Severe metformin intoxication, lactic acidosis |
| 28 | M      | 69  | 7.17| 5   | 4.6 | 255  | Hemorrhagic shock | N  | Y  | N  | 3  | D            | Renal failure, MALA                    |
| 29 | F      | 65  | 6.97| 18  | 4   | 23.3 | Dehydration     | N  | Y  | N  | 8  | S            | Renal failure, hyperkalaemia, MALA     |

DC = decreased consciousness; Y = yes, N = no, U = unknown
VR = Vassopressor requirement: Y = yes, N = no
MVR = mechanical ventilation requirement: Y = yes, N = no
LoS = Length of Stay
Outcome: D = died, S = survived
MALA = metformin associated lactic acidosis