

Table 1. Serial laboratory values of a patient with thyroid storm who received plasmapheresis on days 2 and 3 of admission

Serial laboratory values / Day	Admission	Day 1	Day 2 #1 TPE	Day 3 SBT #2 TPE	Day 4	Day 5	Day 6 carbamazole 10mg OM started	Day 19	Reference values
Full blood count									
Haemoglobin (g/dL)	13.4		10.9	10.2	10.6	10.7	10.7		11.5–15
TW (10 ⁹ /L)	13.4		19.8	20.8	18.1	11.4	11.4		4.0–10.0
Platelets (10 ⁹ /L)	280		152	146	164	188	188		150–450
Thyroid function									
Free triiodothyronine (pmol/L)	32.8		25.4	9.7	7.9	5.3	7.1	6.3	3.2–5.3
Free thyroxine (pmol/L)	69.7		51.7	53.0	35.2	35.4	29.4	12.7	10.0–20.0
TSH (mU/L)	<0.010					<0.010		<0.010	0.400–4.00
Liver function									
Total protein (g/L)	57		53	54	51	50	47	69	62–82
Albumin (g/L)	34		31	31	30	28	27	39	37–51
Total bilirubin (µmoles/L)	56		46	33	28	40	40	22	5.0–30.0
Alkaline phosphatase (U/L)	198		186	129	88	107	98	163	32–103
ALT (U/L)	617		784	614	217	137	80	24	10–55
AST (U/L)	851		1088	470	95	40	46	26	10–45
Arterial blood gas									
pH	7.112	7.274	7.361	7.402	Extubated				7.35–7.45
PaCO ₂ (mmHg)	75.9	62.5	51.8	50.7					38.9
PaO ₂ (mmHg)	145.8	102.2	93.1	70.2					69.3
Base excess (mmol/L)	-7.2	0.4	2.5	5.2					
Renal panel									
Urea (mmol/L)	6.4	9.3	12.2	14.6	14.4	11.1	7.4		2.8–7.7
Sodium (mmol/L)	140	146	147	148	147	147	142		135–145
Potassium (mmol/L)	5.2	4.1	3.4	4.2	4.2	38	3.6		3.5–5.3
Chloride (mmol/L)	103	103	109	111	109	110	108		96–108
Bicarbonate (mmol/L)	20.9	25.1	29.8	31.8	34.0	32.4	27.0		19–31
Creatinine (µmol/L)	50	71	71	49	37	37	33		65–125
Lactate (mmol/L)	6.7	3.2	1.8						0.50–2.20

ALT: alanine transaminase; AST: aspartate transaminase; OM: every morning; SBT: spontaneous breathing trial; TPE: therapeutic plasma exchange; TSH: thyroid stimulating hormone; TW: total white cell count