

APPENDIX A

The APACHE II severity of disease classification system

Physiological variable	High Abnormal				Normal	Low Abnormal			
	4	3	2	1	0	1	2	3	4
Temperature [rectal]	>40.9	39-40.9		38.5-38.9	36-38.1	34-35.9	32-33.9	30-31.9	< 30
Mean arterial pressure	>159	130-159	110-129		70-109		50-69		< 50
Heart Rate	>179	140-179	110-139		70-109		55-69	40-56	< 40
Respiratory Rate	>49	35-49		25-34	12-24	10-11	5-9		< 5
Oxygenation									
FiO ₂ < 0.5 record PaO ₂					> 70	51-70	55-50		<55
FiO ₂ > 0.5 record A - ADO ₂	>499	350-499	200-349		<200				
Arterial pH	>7.49	7.6-7.69		7.5-7.59	7.33-7.49		7.25-7.32	7.15-7.24	<7.15
Serum HCO ₃ mmol/L	>51.9	41-51.9		32-40.9	22-31.9		18-21.9	16-17.9	<15
Serum Sodium mmol/L	>179	160-179	155-159	150-154	130-149		120-129	111-119	<111
Serum Potassium mmol/L	>6.9	5-5.9		5.5-5.9	3.5-5.4	3-3.4	2.5-2.9		<2.5
Serum creatinine	>299	170-299	130-169		50-129		<50		
Double score for ARF									
Haematocrit %	>59.9		50-59.9		46-49.9	30-45.9		20-29.9	<20
White cell count	>39.9		20-39.9	15-19.9	3-14.9		1-2.9		<1

Total Score = [15 - GCS] + APACHE score + Age points + chronic health points

APACHE II Score =

Age Points

Age	Pts
< 45	0
45-54	2
55-64	3
65-74	5
>74	6

Glasgow Coma Scale

Eye	Motor	Verbal
4=spontaneous	6=obedient	5=orientated
3=to voice	5=purposeful	4=confused
2=to pain	4=withdrawal	3=inappropriate
1=none	3=flexion	2=incomprehensible
	2=extension	1=none
	1=none	

Chronic Health Points

If a patient has a history of severe organ system insufficiency or is immunocompromised assign points as follows :-

- | | |
|--|-----------------|
| a. for non-operative or emergency postoperative patients | 5 points |
| b. for elective postoperative patients | 2 points |