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Assessment of agreement between invasive and non-invasive blood pressure measurements in critically ill patients

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APPENDIX A

The APACHE II severity of disease classification system

	High Abnormal				Normal	Low Abnormal			
Physiological variable	**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 FiO2 < 0.5 record PaO2					**> 70**	51-70	55-50		<55
FiO2 > 0.5 record A - Ado2	>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 HCO3 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 **Double score for ARF**	>299	170-299	130-169		**50-129**		<50		
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=incomprehsible
	2=extension	1=none
	1=none	

Chronic Health Points

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

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