



Salivary Cortisol Can Replace Free Serum Cortisol Measurements in Patients With Septic Shock

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e-Appendix 1. Patients' Characteristics

Patient Characteristics	N = 38 (%)	range
Age (mean, SD)	57.7 (20.1)	18 - 97
Gender		
Women	19 (50)	
Men	19 (50)	
Admission Category		
Medical admission	33 (86)	
Emergency Surgery	3 (8)	
Elective Surgery	2 (5)	
Mortality (%)	14 (37)	
Severity of Illness	mean (SD)	range
Temperature °C	37.1 (1.7)	32.9 - 40.2
Heart Rate beats/min	105 (28)	50 - 170
Mean Arterial Pressure mmHg	56 (7)	38 - 68
APACHE II	24 (7)	10 - 42
SAPS II	54 (17)	13 - 89
SOFA	12 (3)	5 - 20
Creatinine mg/dL	3 (2.3)	0.5 - 9.5
BUN mg/dL	38.5 (24.2)	3 - 101
Serum bicarbonate mg/dL	19.5 (4.2)	12 - 29
Albumin g/dL	1.9 (0.6)	0.9 - 3.1
Hemoglobin g/dL	8.9 (1.9)	4.4 - 13.6
Leukocytes x 103/μL	17,584 (12,738)	3,000 - 69,000
Platelet count x 103/μL	192,842 (132,321)	22,000 - 570,000
Aspartate aminotransferase mg/dL	158 (439)	12 - 2,600
Alanine aminotransferase mg/dL	108 (260)	11 - 1,491
PaO ₂ /FiO ₂ mmHg	234 (118)	57 - 512
Vasopressors	mean (SD)	range
Dopamine μg/kg/min	9 (1.4)	8 - 10
Norepinephrine μg/min	16.4 (22.1)	1 - 100
Phenylephrine μg/min	80 (0)	80 - 80
Vasopressin unit/min	0.04 (0)	0.04 - 0.04

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e-Appendix 2. Cortisol and Cortisol Binding Globulin*

	µg/dL mean (SD)	range	nmol/L mean (SD)	range	µg/dL median (25th-75th**)	nmol/L median (25th-75th**)
Free Serum Cortisol	2.27 (1.64)	0.09 - 7.15	62.63 (45.25)	2.48 - 197.27	1.95 (1.24 - 3.15)	53.80 (34.21 - 86.91)
Total Serum Cortisol	21.56 (8.71)	4.9 - 44.5	601.52 (243.01)	135.19 - 1227.75	21.40 (15.90 - 27.15)	590.43 (438.68 - 749.07)
Cortisol Binding Globulin	mg/dL mean (SD) 23.54 (8.33)	9 - 50			mg/dL median (25th-75th**) 23 (17 - 29)	

* 57 patients

** percentile

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