

Table 2. Pertinent endocrine studies and statistical evaluation.

a. Results of thyroid function and prolactin assessment vis-à-vis survival

	TSH		T3		FT4		PRL	
	Survivors	Non-survivors	Survivors	Non-survivors	Survivors	Non-survivors	Survivors	Non-survivors
Mean	1.036	0.546	1.171	1.192	14.820	14.566	0.73098	0.46062
SD	1.259	0.495	0.312	0.292	6.948	3.208	0.55359	0.278955
Median	0.640	0.400	1.124	1.185	12.870	14.157	0.657	0.468
Range	0.0400 to 9.300	0.070 to 1.600	0.600 to 2.202	0.739 to 1.647	7.335 to 56.241	9.009 to 20.592	0.0135 to 4.104	0.063 to 1.044
p value (Student's t-test)	0.828							
p value (Wilcoxon's test)	0.079				0.391		0.037	

Units: TSH in mIU/L, T3 in nmol/L, FT4 in pmol/L, PRL in nmol/L

b. Results of univariate logistic regression and ROC analysis for thyroid function and prolactin evaluation

	TSH	T3	ft4	PRL
Univariate logistic regression				
b coefficient	-1.004	0.003	-0.062	-0.084
SE of b coefficient	0.708	0.023	0.051	0.047
Constant	-1.308	-2.286	-1.929	-0.949
OR	0.366	1.251	0.92	0.919
95% for OR	0.091 to 1.469	0.168 to 9.301	0.898 to 1.099	0.846 to 1.008
ROC analysis				
Threshold (from ROC)	0.24	1.14	11.84	10.9
Sensitivity (%)	45.5	63.6	81.8	72.7
Specificity (%)	86.7	54.2	38.6	69.9
ROC AUC	0.66	0.543	0.58	0.69
95% CI for ROC	0.56 to 0.76	0.44 to 0.65	0.47 to 0.68	0.59 to 0.78

c. Results for corticotropin and adrenal function studies vis-à-vis survival

	ACTH		DHEAS		Cortisol pre		Cortisol post		ΔCortisol	
	Survivors	Non-survivors	Survivors	Non-survivors	Survivors	Non-survivors	Survivors	Non-survivors	Survivors	Non-survivors
Mean	4.782	9.000	6.581	3.477	392.210	372.715	620.708	552.803	228.498	180.087
SD	3.548	13.141	2.919	1.494	188.695	262.280	202.920	261.957	124.832	119.863
Median	4.026	2.706	6.593	3.386	411.091	292.454	606.980	502.138	228.997	157.263
Range	0.198 to 17.556	0.220 to 36.608	0.964 to 13.217	0.607 to 5.597	8.277 to 882.880	49.662 to 824.941	237.274 to 1305.007	129.673 to 1012.553	8.277 to 620.775	5.518 to 358.670
p value (student's t-test)			0.001		0.760		0.317		0.228	
p value (Wilcoxon's test)	0.564									

Units: ACTH in pmol/L, DHEAS in µmol/L, Cortisol in nmol/L

d. Results of univariate logistic regression and ROC analysis for corticotropin and adrenal function assessment

	ACTH	DHEAS	Cortisol pre	Cortisol post	ΔCortisol
Univariate logistic regression					
b coefficient	0.087	-0.002	-0.001	-0.001	-0.004
SE of b coefficient	0.044	0.001	0.001	0.001	0.003
Constant	-2.578	0.430	-1.825	-1.057	-1.293
OR	1.091	0.999	0.999	0.998	0.996
95% for OR	1.001 to 1.190	0.997 to 0.999	0.996 to 1.002	0.995 to 1.001	0.990 to 1.002
ROC analysis					
Threshold (from ROC)	3.69	5597.10	297.97	549.04	80.01
Sensitivity (%)	72.7	100	63.6	63.6	36.4
Specificity (%)	54.2	63.9	69.9	61.4	89.2
ROC AUC	0.55	0.82	0.59	0.59	0.59
95% CI for ROC	0.45 to 0.66	0.73 to 0.89	0.46 to 0.67	0.48 to 0.69	0.49 to 0.69