

Section 3.B

Adenoma identified on US?

	Adenoma identified (n = 247)	No adenoma identified (n = 127)	P
Male	48/71 (67.6%)	23/71 (32.4%)	
Female	199/303 (65.7%)	104/303 (34.3%)	0.758
Age at PTH	62 (51 - 71)	66 (60 - 77)	<0.001
BMI	27.8 (24.5 - 32.1) (n = 170)	28.0 (24.2 - 32.3) (n = 94)	0.839
SIMD	4047 (2196 - 5965)	4784 (2482 - 6241)	0.307
Adjusted calcium	2.76 (2.68 - 2.88)	2.74 (2.65 - 2.88)	0.439
Peak calcium	2.91 (2.82 - 3.05)	2.86 (2.78 - 3.00)	0.014
Calcium	2.78 (2.69 - 2.89)	2.74 (2.67 - 2.85)	0.082
PTH	14.0 (10.0 - 19.7)	12.0 (8.7 - 16.6)	0.006
Vitamin D	29 (20 - 46) (n = 145)	34 (24 - 51) (n = 90)	0.114
Phosphate	0.84 (0.73 - 0.96)	0.87 (0.77 - 1.00)	0.131
Creatinine	69 (61 - 81)	72 (64 - 87)	0.022
Magnesium	0.86 (0.76 - 0.91) (n = 85)	0.83 (0.75 - 0.89) (n = 54)	0.274
Urine calcium/litre	4.1 (2.4 - 5.9) (n = 154)	3.3 (1.9 - 5.3) (n = 75)	0.068
Urine CCCR	0.017 (0.011 - 0.023) (n = 99)	0.018 (0.013 - 0.022) (n = 51)	0.7151
Max tumour dimension	18 (15 - 24) (n = 175)	20 (15 - 26) (n = 44)	0.440
Tumour volume	754 (387 - 1555) (n = 163)	555 (305 - 1484) (n = 38)	0.295
Tumour weight	0.80 (0.45 - 1.49) (n = 161)	0.70 (0.40 - 1.26) (n = 39)	0.567

Logistic regression for identifying adenoma on US:

	B (SE)	LOWER CI	OR	UPPER CI	P
Intercept	1.042 (2.036)				
Age*	-0.038 (0.010)	0.945	0.963	0.981	<0.001
PTH	0.027 (0.013)	1.004	1.027	1.057	0.043
Peak calcium	0.827 (0.711)	0.577	2.287	9.431	0.245
Creatinine	-0.011 (0.005)	0.979	0.989	1.000	0.047

*The relationship with age was also present when the analysis was limited to the 237 individuals with prior US and subsequent surgical cure (OR 0.963, CI 0.936 - 0.989).