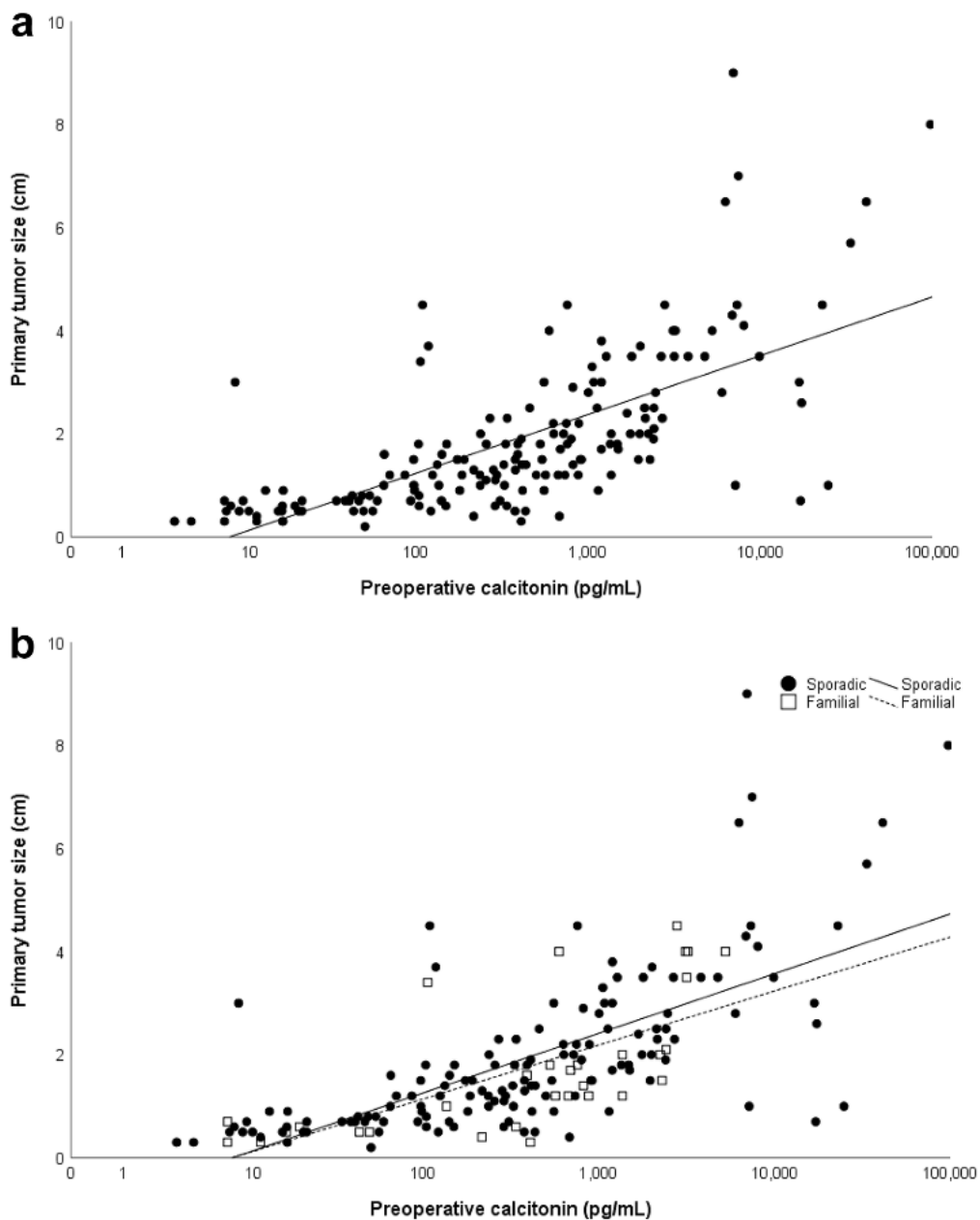


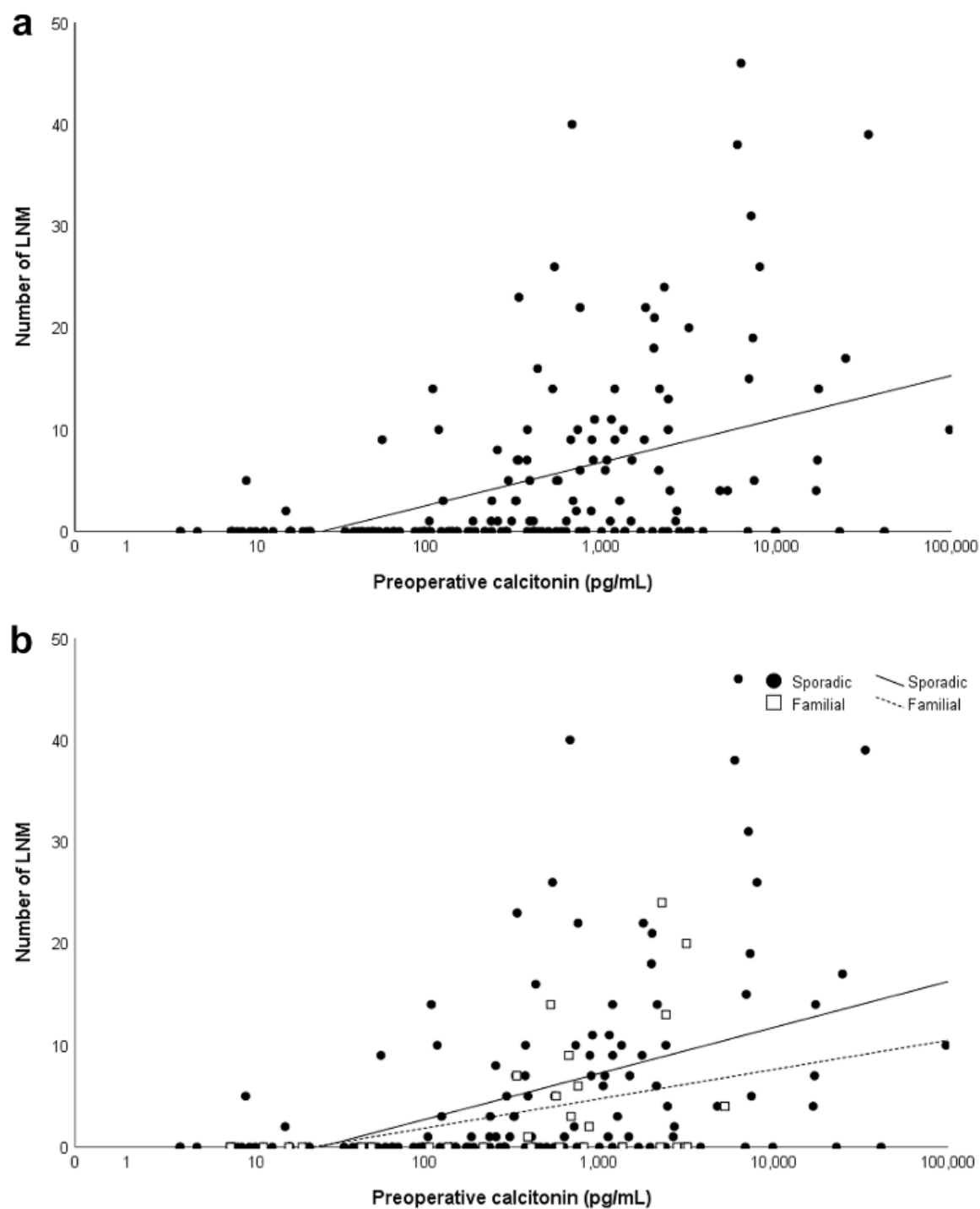
## Supplementary Materials

# Preoperative Serum Calcitonin and Its Correlation with Extent of Lymph Node Metastasis in Medullary Thyroid Carcinoma

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**Figure S1.** Correlation between log-transformed preoperative calcitonin level and primary tumour size. (A) All patients regardless of tumour type ( $R^2 = 0.746$  and  $p < 0.001$ ). (B) Patients divided into sporadic and hereditary medullary carcinoma groups ( $R^2 = 0.464$  and  $p < 0.01$  for sporadic medullary thyroid carcinoma;  $R^2 = 0.444$  and  $p < 0.001$  for hereditary medullary thyroid carcinoma).



**Figure S2.** Correlation between preoperative log-calcitonin and the number of LNMs. (A) All patients regardless of tumour type ( $R^2 = 0.201$  and  $p < 0.001$ ). (B) Patients divided into sporadic and hereditary medullary carcinoma groups ( $R^2 = 0.212$  and  $p < 0.01$  for sporadic medullary thyroid carcinoma;  $R^2 = 0.148$  and  $p = 0.032$  for hereditary medullary thyroid carcinoma).

**Table S1.** Clinical course and pre- and post-operative calcitonin and images in 11 patients who did not undergo central lymph node dissection.

No	Preop Calcitonin (pg/mL)	Primary tumor size (cm)	Multi-focality	Postop Calcitonin (pg/mL)	Preop US	Preop CT	Postop US or CT	Clinical Course
1	3	0.3	No	-	No LNM	-	-	Loss of follow-up
2	16	0.3	No	8	No LNM	No LNM	No LNM	No recurrence
3	46	0.7	No	8	No LNM	-	No LNM	No recurrence
4	50	0.2	No	2	No LNM	-	No LNM	No recurrence
5	86	1.2	No	7	No LNM	No LNM	No LNM	No recurrence
6	98	0.9	No	72	No LNM	-	No LNM	Recurrence in operative bed
7	106	3.4	No	40	No LNM	-	No LNM	No recurrence
8	217	0.4	Yes	3	No LNM	-	No LNM	No recurrence
9	597	4.0	No	1	No LNM	No LNM	No LNM	No recurrence
10	1370	1.2	Yes	2	-	No LNM	No LNM	No recurrence
11	2251	2.0	No	4	No LNM	No LNM	No LNM	No recurrence

No = Number; Preop = pre-operative; Postop = post-operative; US = thyroid ultrasound; CT = computer tomography; LNM = lymph node metastasis.



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