

References

21. Prabhu M, Jain D, Gupta SD, et al. Detection of Solitary Axillary Lymph Node Metastases from Hürthle Cell Carcinoma of the Thyroid on (18)F-FDG PET/CT. *Nucl Med Mol Imaging* 2018;52:389-93.
22. Jung SP, Lee HY, Bae JW, et al. Medullary Thyroid Carcinoma Metastasis to the Breast and Axillary Lymph Nodes. *Indian J Surg* 2015;77:329-31.
23. Wei BJ, Shen H, Ge F. Management of thyroid carcinoma with metastases in the upper mediastinum and axillary area. *Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi* 2013;48:708-11.
24. Chiofalo MG, Losito NS, Fulciniti F, et al. Axillary node metastasis from differentiated thyroid carcinoma with Hürthle and signet ring cell differentiation. A case of disseminated thyroid cancer with peculiar histologic findings. *BMC Cancer* 2012;12:55.
25. Elboga U, Kalender E, Yilmaz M, et al. Axillary lymph node metastasis of papillary thyroid carcinoma detected by FDG PET/CT in a thyroglobulin-positive patient with negative whole-body 131I scan. *Clin Nucl Med* 2012;37:1120-2.
26. Angeles-Angeles A, Chable-Montero F, Martinez-Benitez B, et al. Unusual metastases of papillary thyroid carcinoma: report of 2 cases. *Ann Diagn Pathol* 2009;13:189-96.
27. Ers V, Galant C, Malaise J, et al. Axillary lymph node metastasis in recurrence of papillary thyroid carcinoma: a case report. *Wien Klin Wochenschr* 2006;118:124-7.
28. Lal G, Brennan TV, Hambleton J, et al. Coagulopathy, marantic endocarditis, and cerebrovascular accidents as paraneoplastic features in medullary thyroid cancer—case report and review of the literature. *Thyroid* 2003;13:601-5.
29. Minagawa A, Iitaka M, Suzuki M, et al. A case of primary mucoepidermoid carcinoma of the thyroid: molecular evidence of its origin. *Clin Endocrinol (Oxf)* 2002;57:551-6.

Table S1 Cases summary of thyroid tumors with axillary lymph node metastasis

Author	Published time	Country	Age/Sex	Histopathology (subtypes)	Presence of ALNM (yrs)	Sites of metastasis	Therapy	Prognosis
Present case		China	42/F	DSV-PTC	Concurrent	ALN, SCLN	TTx + ALND + TSH Suppression + 131RI	DFS
Prabhu (21)	2018	India	47/M	FTC (Hürthle Cell)	Recurrence (17)	ALN	TTx + ALND + TSH Suppression + 131RI	N/A
Jung (22)	2015	South Korea	49/F	MTC	Recurrence (7)	ALN, Breast	TTx + ALND + MRMT	DFS
Ozdemir (18)	2015	Turkey	42/M	MTC	Recurrence (3)	ALN, Mediastinum, lung, cervical vertebra, vessel	TTx + ALND + Target therapy + Chemotherapy	N/A
Cummings (5)	2014	America	56/F	PTC (Follicular cell)	Recurrence (8)	ALN, lung, liver, rib	TTx + ALND + Target therapy	Survival with disease
		America	58/M	MTC	Recurrence (0.25)	ALN	TTx + ALND + Target therapy	Survival with disease
Wei (23)	2013	China	46-73/M; F	PTC (5 cases); FTC (1 case)	Concurrent; Recurrence	ALN, Mediastinum (6 cases), Lung (2 cases)	TTx + ALND + TSH Suppression + 131RI	DFS (5 cases)/ Death (1 case)
Chiofalo (24)	2012	Italy	65/M	FTC (Hürthle/signet ring cell)	Concurrent	ALN, Bone, Liver	TTx + ALND + TSH Suppression + 131RI	Survival with disease
Elboga (25)	2012	Turkey	64/M	PTC	Recurrence (14)	ALN, SCLN	TTx + ALND	N/A
Damle (16)	2011	India	37/M	PTC (Follicular cell)	Recurrence (2)	ALN, Lung	TTx + TSH Suppression + 131RI	Survival with disease
Krishnamurthy (15)	2011	India	64/F	PTC (Tall cell)	Recurrence (6)	ALN	TTx + ALND + TSH Suppression + 131RI	DFS
Angeles (26)	2009	Mexico	58/F	PTC	Recurrence (17)	ALN, Breast	TTx + ALND + MRMT + 131RI	N/A
Kepenekci (17)	2009	Turkey	63/F	PTC	Recurrence (20)	ALN	TTx + ALND	N/A
Nakayama (14)	2007	Japan	21/M	PTC (Partial poorly)	Concurrent; Recurrence (6)	ALN, Mediastinum, Lung	TTx + ALND + TSH Suppression + 131RI	Survival with disease
Ers (27)	2006	Belgium	62/F	PTC	Recurrence (5)	ALN, SCLN, Mediastinum	TTx + ALND + 131RI	DFS
Koike (4)	2004	Japan	46/F	PTC (Partial poorly)	Recurrence (5)	ALN, Distant metastasis	TTx + ALND + 131RI	Death (8 months after recurrence)
Lal (28)	2003	America	59/M	MTC	Concurrent	ALN, Mediastinum, Lung	TTx + ALND	Death (8 months after diagnosis)
Minagawa (29)	2002	Japan	52/M	MEC	Concurrent	ALN, Thoracic vertebra, Lung	Radiotherapy + Chemotherapy	Death (2 months after diagnosis)
Mizukami (6)	1993	Japan	58/M	MAC	Recurrence (0.58)	ALN	N/A	N/A

F, female; M, male; PTC, papillary thyroid carcinoma; DSV-PTC, diffuse sclerosing variant-PTC; FTC, follicular thyroid carcinoma; MTC, medullary thyroid carcinoma; MEC, mucoepidermoid carcinoma; MAC, mucin-producing poorly differentiated adenocarcinoma; ALN, axillary lymph node; SCLN, supraclavicular lymph node; TTx, total thyroidectomy; ALND, axillary lymph node dissection; TSH, thyroid stimulating hormone; 131RI, 131 radioiodine therapy; MRMT, modified radical mastectomy; DFS, disease-free survival; N/A, not available.