

Supplemental Table 1: Cases reported for thyroid cancer with metastases to axillary lymph nodes

Year	Author	Age* / Sex	Primary tumor	Type	Differentiation	N stage	Initial M stage†	Time to ALN detection	Management and outcome
2020	Present study	69/F	R thyroid lobe 4 cm	PTC	Columnar cell	N1b	M1, R ALN, lung	Concurrent	RAI, started on thalidomide with drop in Tg
2020	Present study	70/F	L thyroid lobe 6 cm	PTC	Tall cell	N1b	M1, L ALN, Mediastinal LN	Concurrent	RAI, resolution of lesion with drop in Tg, died at 19 m
2018	Prabhu et al [6]	47/M	L thyroid lobe 3 cm	FTC	Hürthle cell	N0	M0	Recurrent 17 y	ALND, drop in Tg to 6ng/ml post-surgery
2017	Rasihashe mi et al [7]	31/F	NA	MTC	-	N1b	M0	Recurrent 5 y	ALND
2015	Kamaleshwaran et al [8]	38/F	R thyroid lobe 3.8 cm	PTC	-	N1b	M1, L ALN, lungs	Concurrent	ALND, on FU
2015	Hafez et al [9]	61/M	NA	PTC	-	N1b	M0	Recurrent 1.5 y	ALND
2014	Singhal et al [10]	19/F	L thyroid lobe	PTC	Follicular	N1b	M1, L ALN, lungs	Concurrent	ALND; RAI, disease free:2m
2014	Singhal et al [10]	45/F	R thyroid lobe	PTC	Tall cell	N1b	M0	Recurrent 11 y	ALND, lung metastases, lost to FU
2015	Ozdemir et al [11]	42/M	R thyroid lobe	MTC	-	N1b	M0	Recurrent 3 y	ALND
2014	Koo et al [12]	68/M	L thyroid lobe 5.4 cm	PTC	Follicular	N1b	M0	Recurrent 17 m	ALND, drop in Tg post-surgery
2014	Cummings et al [13]	50/F	NA	PTC	-	NA	M1 lung, bone,	Recurrent 7 y	ALND, stable for

							liver		months in follow-up.
2014	Cummings et al [13]	58/M	L thyroid lobe 1.8 cm	MTC	-	N1b	M0	Recurrent 3 m	ALND, recurrence in supraclavicular LNs, stable for 9 m
2012	Elboga et al [14]	64/M	R thyroid lobe 2 cm	PTC	Classical	NA	M0	Recurrent 14 y	ALND, seen on FGD PET/CT
2012	Chiofalo et al [15]	65/M	R thyroid lobe, 3.8 cm	FTC	PD, signet ring cells	N1b	M1, R ALN, liver, bones	Concurrent	ALND, RAI twice, stable 1 y
2012	Machado et al [16]	69/M	R thyroid lobe 7 cm	PTC	-	N1a	M0	Recurrent 7 y	ALND, lung mets, on Sorafenib
2011	Krishnamurthy et al [17]	64/F	Thyroid swelling	PTC	-	N1b	M0	Recurrent 6 y	ALND, disease free at 6 m
2011	Damle et al [18]	37/M	L thyroid lobe	PTC	Follicular	NA	M1, lungs	Recurrent 3 y	RAI twice, resolution of ALN, drop in Tg
2010	Spector et al [19]	22/M	R thyroid lobe	MTC	PD	NA	M0	Recurrent 17 y	Liver and lymph nodes mets, stable on Sorafenib for 1.5 y
2009	Kepenekci et al [20]	63/F	L thyroid lobe 4.5 cm	PTC	-	N1b	M1, L ALN	Concurrent	ALND, NA
2009	Angeles-Angeles et al [21]	58/F	R thyroid lobe	PTC	Insular	N1b	M0	Recurrent 17 y	ALND, recurrence in left breast 3 m post-surgery, lost to FU

2007	Nakayama et al [22]	21/M	R thyroid lobe 4 cm	PTC	PD	N1b	M1, R ALN	Concurrent	ALND, recurrence at 6 y, RAI thrice, alive
2006	Ers et al [23]	62/F	L thyroid lobe 4 cm	PTC	-	N1b	M0	Recurrent 6 y	ALND, asymptomatic at 10 y follow up
2004	Shehadeh et al [24]	38/F	Thyroid swelling	SME CE	-	N1b	M1, R ALN, lung	Concurrent	Partial response with chemo-radiotherapy
2004	Koike et al [25]	46/F	NA	PTC	PD Component	N1b	M0	Recurrent 5 y	ALND, died 8 m post-surgery
2003	Lal et al [26]	59/M	R thyroid lobe 7 cm	MTC	PD	N1b	M1, L ALN, lungs	Concurrent	ALND, died at 6 m post-surgery
2002	Lal et al [27]	65/M	NA	PTC	PD	N1b	M0	Recurrent 41 y	Died at 1 m
2002	Lal et al [27]	45/F	NA	PTC	PD	N1b	M1, ALN, pericardial effusion	Concurrent	Died at 10 m
2002	Minagawa et al [28]	52/M	Goitre	MEC	-	N1b	M1, ALN, lungs, bone	Concurrent	Died at 2 m after admission
1998	Chen et al [29]	66/F	? thyroid origin	PTC	-	NA	M1, R ALN	NA	NA
1996	Ueda et al [30]	45/F	NA	PTC	-	N1b	M0	Recurrent 7 y	ALND, stable
1993	Mizukami et al [31]	57/M	R thyroid lobe, 4 cm	MAC	PD	N1b	M0	Recurrent 7 m	ALND, asymptomatic at 10 m

Abbreviations: M: male, F: female, R: right, L: left, B/L: bilateral, NA: not available, PTC: papillary thyroid carcinoma, FTC: follicular thyroid carcinoma, MTC: medullary thyroid carcinoma, WD: well differentiated, PD: poorly differentiated, MAC: mucin-producing adenocarcinoma, MEC: mucoepidermoid carcinoma, SMECE: sclerosing mucoepidermoid carcinoma with eosinophilia, ALN:

axillary lymph node, ALND: axillary lymph node dissection, Tg: thyroglobulin, RAI: radioactive iodine.
**Age at initial diagnosis of thyroid cancer. †Distant metastases at any known sites beyond head and neck soft tissues present at time of initial presentation based on available data.*

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