UHealth Stephenson Cancer Center



Background

- The oncologic utility of elective neck dissed (END) for during salvage laryngectomy following radiation(RT)/chemoradiation(CR debated in patients with clinically and radiologically negative nodal metastasis (N neck)
- Prior studies have suggested nodal positivi rates at or less than 20% in salvage cases
- Dissection in the irradiated neck is associated with increased post-operative complication including wound breakdown, shoulder dysfunction, and fibrosis (2).
- Limited neck dissection in salvage cases m allow for oncologic control as well as impro functional outcomes.

Objective

• Our objective was to assess the primary involved neck levels of positive nodal disea during salvage laryngectomy cases.

Methods

- A retrospective review was conducted from 2017-2022 of patients undergoing salvage laryngectomy and bilateral neck dissection recurrent or persistent primary site disease N0 neck disease.
- Surgical pathology reports were reviewed the presence and location of positive noda disease.
- Results were reported with descriptive statistics.

Occult Neck Metastasis in Salvage laryngectomy: Moving Towards Limited Neck Dissection Ahmed Youssef MD, PhD, FACS, FRCS, Rusha Patel MD, FACS, Rachad Mhawej MD, Austin Milton MD, Greg Krempl MD, FACS

Results

ction	 74 patients underwent salvage lary study period. 			
RT) is 10	 All patients had T3/T4 disease. The transglottic disease. 5 patients had 2 had subglottic disease. 			
ated s	 62 patients underwent bilateral neolevels II-IV. 27 patients underwent lineck dissection The nodal positivity was 10.8%. Polimited to levels IIa and III. (Table 1 All inverse and the neolegy and the neole			
nay oved	 All involved lymph nodes were on t tumor. No patients had contralatera nodal disease. 			
	 Paratracheal lymph nodes were on with a previous history of hemilaryr for positive margins and presented recurrence with hypopharyngeal in 			
ase				
n	 The overall incidence of occult no with prior studies suggesting occulated of the overall study suggests that limited no sufficient for oncologic control. Paratracheal lymph node dissect 			
)	subglottic region involvement.			
n for e with	 We recommend further multi instident dissection in the salvage larynged 			
for	Referenc			
al	 Galli J, Di Cintio G, Settimi S, Salvati A, Parrilla C, Almadori G, Paluc Laryngectomy: Personal Experience. J Clin Med. 2022 Mar 5;11(5): PMCID: PMC8911131. Basheeth N, O'Leary G, Sheahan P. Elective neck dissection for no complications, and oncological outcome. JAMA Otolaryngol Head 10.1001/jamaoto.2013.3995. PMID: 23949354. Gross I H, Vila PM, Simon L, Rizvi Z H, Zenga L, Jackson R S, Pi 			

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	Table 1. Incidence of Occult Metastasis					
ryngectomy during the	Neck Level	Number of	Number	Incidence of		
ne majority (67,90.5%) had d supraglottic disease and		patients	with occult metastases	occult metastasis		
ok diagontian including	Level IIA S	74	5	6.8%		
eck dissection including t level VI (paratracheal)	Level IIB S	74	0	0%		
	level III S	74	4	5.4%		
ositive nodal disease was	Level IV S	74	0	0%		
1) the incident of the	Level II C	61	0	0%		
the ipsilateral side of the ral involvement by occult	Level III C	61	0	0%		
	Level IV C	61	0	0%		
nly positive in one patient	Level VI	27	1*	3.6%*		
ngectomy followed by CRT d later with local laryngeal nvolvement.	S=ipsilateral; C=contralateral, * = see results discussion					

Conclusions

odal disease during salvage laryngectomy is low. Our findings are in keeping ult nodal disease occurs 11-13% of the time (3,4). neck dissection – consisting of ipsilateral dissection of levels II and III – may be

tion is recommended in recurrences with previous surgical intervention or with

itutional collaborative and prospective trials studying limited and selective neck ectomy population to assess the impact on function, recurrence, and survival.

ces

detti G. Elective Neck Dissection during Salvage Total):1438. doi: 10.3390/jcm11051438. PMID: 35268528;

neck during salvage total laryngectomy: findings, l Neck Surg. 2013 Aug 1;139(8):790-6. doi:

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