

Table I. Resection with adjuvant irradiation for primary tracheal carcinoma.

Series	Histology	Treatment	Local control	Survival
Grillo and Mathisen ¹⁰	SCC (n=70)	Surgery ± XRT* XRT alone		34 mos median 10 mos median
	ACC (n=80)	Surgery ± XRT* XRT alone		118 mos median 28 mos median
Licht et al. ⁶		Surgery alone (n=6)		48% 5y
		XRT alone (n=35)		7% 5y
		Laser/cautery ± XRT (n=24)		28% 5y
		XRT + chemo (n=2)		0% 5y
Chow et al. ¹⁶		Surgery alone (n=5)	1/5	16 mos median
		XRT alone (n=12)		
		>60 Gy	3/4	26 mos median
		<60 Gy	1/8	
		Surgery + XRT (n=5)		
Regnand et al. ⁹		47.5 Gy	0/1	61 mos median
		>50 Gy	4/4	
		CR + XRT (n=31)		74% 5y
		CR (n=27)		53% 5y (p=NS)
		IR + XRT (n=15)		47% 5y
Maziak et al. ⁷	ACC (n=35)	IR (n=6)		0% 5y (p<0.05)
		CR ± XRT (n=14)*		9.8y mean
		IR + XRT (n=15)		7.5y mean
		XRT alone (n=6)		6.2y mean

* - The minority received surgery alone.

SCC = squamous cell carcinoma

ACC = adenoid cystic carcinoma

XRT = radiotherapy

CR = complete resection

IR = incomplete resection

Table II. Retrospective series examining radiotherapy alone for primary tracheal carcinoma.

Series	Histology	Treatment	Local control	Survival
Schraube et al. ²⁵	SCC (n=11)	46-60 Gy EBRT + 15-20 Gy HDR	6/11	31 mos median
Cheung ¹⁸	SCC (n=20)	40-60 Gy		5 mos median
	ACC (n=4)	40-60 Gy		1y median
Fields et al. ¹⁹	SCC (n=17)	>60 Gy	5/6	25% 5y (n=18)
		40-60 Gy	1/7	
		<40 Gy	0/4	
Rostom and Morgan ²⁰	SCC (n=28)	>60Gy	1/1	11% 4y
		60-70 Gy	16/24	
		<60 Gy	0/4	
Makarewick and Moss ²¹	ACC (n=3)	50-70Gy		67% 4y
		60 Gy EBRT + 6-12 Gy HDR (n=8)	6/8	9.5 mos median (n=23)
		40-60 Gy EBRT (n=3)	1/3	
Fuwa et al. ²²		<40 Gy (n=12)	0/12	
		EBRT + LDR (n=4)	3/4	75% 3y
		(80-128 Gy)*		

* - one treatment related death at 9 mos. post-XRT in a patient receiving 60 Gy EBRT + 53Gy LDR Ir-192.

SCC = squamous cell carcinoma

ACC = adenoid cystic carcinoma

HDR = high dose rate brachytherapy

LDR = low dose rate brachytherapy

EBRT = external beam radiotherapy