

**Suppl 4.** Patient characteristics of SHNC treated with RT and matched only primary head and neck cancer.

	<b>Matched primary HNC (n = 546)</b>	<b>SHNC (RT) (n = 110)</b>	<b>Overall (n = 656)</b>
<b>Race</b>			
Black	163 (29.9%)	34 (30.9%)	197 (30.0%)
White	347 (63.6%)	68 (61.8%)	415 (63.3%)
Other	36 (6.6%)	8 (7.3%)	44 (6.7%)
<b>Year of diagnosis</b>			
1975-1984	39 (7.1%)	7 (6.4%)	46 (7.0%)
1985-1994	141 (25.8%)	26 (23.6%)	167 (25.5%)
1995-2004	150 (27.5%)	32 (29.1%)	182 (27.7%)
≥2005	216 (39.6%)	45 (40.9%)	261 (39.8%)
<b>Age</b>			
20-49	26 (4.8%)	6 (5.5%)	32 (4.9%)
50-74	464 (85.0%)	87 (79.1%)	551 (84.0%)
≥75	56 (10.3%)	17 (15.5%)	73 (11.1%)
<b>Sex</b>			
Female	208 (38.1%)	41 (37.3%)	249 (38.0%)
Male	338 (61.9%)	69 (62.7%)	407 (62.0%)
<b>Histology</b>			
Adenocarcinoma	3 (0.5%)	1 (0.9%)	4 (0.6%)
Squamous carcinoma	532 (97.4%)	106 (96.4%)	638 (97.3%)
Epithelial carcinoma	11 (2.0%)	3 (2.7%)	14 (2.1%)
Mucous carcinoma	0 (0%)	0 (0%)	0 (0%)
Other	0 (0%)	0 (0%)	0 (0%)
<b>Grade</b>			
Grade I/II	276 (50.5%)	57 (51.8%)	333 (50.8%)
Grade III/IV	111 (20.3%)	20 (18.2%)	131 (20.0%)
Other	0 (0%)	0 (0%)	0 (0%)

Unknown	159 (29.1%)	33 (30.0%)	192 (29.3%)
<b>Stage</b>			
Distant	52 (9.5%)	9 (8.2%)	61 (9.3%)
Localized	89 (16.3%)	21 (19.1%)	110 (16.8%)
Regional	254 (46.5%)	50 (45.5%)	304 (46.3%)
Unknown	151 (27.7%)	30 (27.3%)	181 (27.6%)
<b>Tumor size</b>			
<2cm	30 (5.5%)	5 (4.5%)	35 (5.3%)
≥2cm	57 (10.4%)	16 (14.5%)	73 (11.1%)
Unknown	459 (84.1%)	89 (80.9%)	548 (83.5%)
<b>Chemotherapy</b>			
No/Unknown	404 (74.0%)	80 (72.7%)	484 (73.8%)
Yes	142 (26.0%)	30 (27.3%)	172 (26.2%)
<b>Surgery</b>			
No Surgery	273 (50.0%)	61 (55.5%)	334 (50.9%)
Surgery performed	273 (50.0%)	49 (44.5%)	322 (49.1%)

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SHNC: secondary head and neck cancer; HNC: head and neck cancer; RT: radiation therapy.