

Study	Country	Centre	Summary	Study timeframe	n total	n surgery only	Mean age (range)	Sex (% male)	N classification (%) All patients	N classification (%) surgery only	Pathology	Follow-up duration (months)	HPV/P16 + rate	MINORS Score
Dou 2016	China	Fudan University Shanghai Cancer Center	Presentation of data relating two-step decision making tailoring treatment for HNSCCUP	2007-2013	77	30	57** (31-75)	83.1	N1 = 8 (10.4) N2a = 16 (20.8) N2b = 38 (49.4) N2c = 13 (16.9) N3 = 3 (2.6)	Not stated	46/77 (59.7 %) SCC. 31/77 (40.3 %) Poorly / undifferentiated carcinoma	34 (9-51)	Not stated	8
Lou 2015	China	Zhejiang Cancer Hospital	Impact on survival of adding neck dissection to treatment of HNSCCUP	2001-2012	133	46	55** (19-77)	81.9	N1 = 14 (10.5) N2a = 21 (15.8) N2b = 78 (58.6) N2c = 7 (5.3) N3 = 13 (9.8)	N1 = 7 (15.2) N2a = 5 (10.9) N2b = 30 (65.2) N2c = 3 (6.5) N3 = 1 (1.7)	SCC	39 (6-120)	Not stated	11
Wongsritrang 2012	Thailand	Prince of Songkla University	Clinical outcomes of HNSCCUP from single centre	2000-2010	139	17	63.6 (33-95)	87.0	N1 = 24 (17.3) N2 = 61 (43.9) N3 = 48 (38.5) Unknown = 6 (4.3)	Not stated	104/139 (74.8%) SCC 35/139 (25.2%) undifferentiated / Other carcinoma	Not stated	Not stated	6
Rodel 2009	Germany	University of Gottingen	Oncological outcomes of CUP based on treatments	1986-2006	58	8	55** (37-77)	82.8	N1 = 9 (15.5) N2a = 8 (13.8) N2b = 15 (25.9) N2c = 3 (5.2) N3 = 23 (39.7)	N1 = 2 (25.0) N2a = 2 (25.0) N2b = 1 (12.5) N3 = 3 (37.5)	48/58 (82.3%) SCC 10/58 (17.7%) Other carcinoma	83.5 (24-162)	Not stated	9
Miller 2008	USA	University of Texas Health Science Center, San Antonio	Prospective evaluation of diagnostic protocol and long-term follow up	Not stated	17	9	60.5 (39-81)	87.1	N1 = 7 (41.2) N2a = 4 (23.5) N2b = 2 (11.8) N3 = 4 (23.5)	N1 = 7 (77.8) N2a = 1 (11.1) N2b = 1 (11.1)	SCC	31.1 (21-60)	Not stated	12
Patel 2007	Australia	Sydney Head and Neck Cancer Institute	Retrospective analysis of prospective entry into surgery +/- PORT protocol	1987-2006	70	10	62** (38-86)	81.4	N1 = 5 (7.1) N2a = 13 (18.6) N2b = 30 (42.9) N2c = 4 (5.7) N3 = 18 (25.7)	Not stated	SCC	45 (2-158)	Not stated	12
Iganej 2002	USA	Southern California Permanente Medical Group	Management and patterns of relapse for HNSCCUP	1969-1994	106	29	57.3 (no range provided)	77.4	N1 = 14 (13.2) N2a = 27 (25.4) N2b = 39 (36.8) N2c = 2 (1.9) N3 = 24 (22.6)	N1 = 5 (17.2) N2a = 8 (27.6) N2b = 13 (44.8) N3 = 3 (10.3)	SCC	56 (no range provided)	Not stated	13

**Table 1. Study Characteristics (Study 8-14)**

Abbreviations: HNSCCUP – head and neck squamous cell carcinoma of unknown primary. Notes: AJCC TNM7 is used for nodal staging.

\*\*=Median