

Table S1 Sociodemographic and clinical characteristics of the OPC cohort by diagnosis stage at diagnosis, Queensland, 2012–2021

Characteristics	Early (n=1,662)	Late (n=890)
Sex (P=0.10)		
Male	1,417 (65.8)	736 (34.2)
Female	245 (61.4)	154 (38.6)
Age group at diagnosis (years) (P<0.001)		
<60	820 (73.5)	295 (26.5)
60–69	564 (61.8)	348 (38.2)
70+	278 (53.0)	247 (47.0)
Residence at diagnosis (P<0.001)		
Major city	1,118 (68.2)	521 (31.8)
Inner regional	344 (62.7)	205 (37.3)
Outer regional remote & very remote	200 (54.9)	164 (45.1)
Area-based socioeconomic status (P<0.001)		
Affluent	192 (75.6)	62 (24.4)
Middle	1,116 (66.9)	552 (33.1)
Disadvantaged	354 (56.2)	276 (43.8)
First Nations status (P<0.001)		
First Nations peoples	57 (48.3)	61 (51.7)
Non-First Nations peoples	1,605 (65.9)	829 (34.1)
Number of comorbidities (P<0.001)		
None	1,253 (69.6)	546 (30.4)
One	254 (57.5)	188 (42.5)
Two or more	155 (49.8)	156 (50.2)
Smoking status at diagnosis (P<0.001)		
Never	373 (79.9)	94 (20.1)
Current	229 (49.4)	235 (50.6)
Past	596 (69.0)	268 (31.0)
Unknown	464 (61.3)	293 (38.7)
p16 status (P<0.001)		
Positive	1,554 (81.8)	345 (18.2)
Negative	84 (17.5)	397 (82.5)
Unknown	24 (14.0)	148 (86.0)
MDT review (P<0.001)		
Had MDT review	1,585 (66.2)	809 (33.8)
No MDT review	77 (48.7)	81 (51.3)
Diagnosis period (P=0.31)		
2012–2016	709 (66.3)	361 (33.7)
2017–2021	953 (64.3)	529 (35.7)

Data are presented as n (% in row). The P values reported from Chi-squared tests excluded cases with “Unknown” stage and “Unknown” groups in other characteristics where applicable. MDT, multidisciplinary team; OPC, oropharyngeal cancer.

Table S2 Sociodemographic and clinical characteristics of the OPC cohort by p16 status, Queensland, 2012–2021

Characteristics	All OPC [†] (n=2,957)	p16-positive (n=2,057)	p16-negative (n=493)
Sex (P<0.001)			
Male	2,499 (84.5)	1,793 (87.2)	377 (76.5)
Female	458 (15.5)	264 (12.8)	116 (23.5)
Age group at diagnosis (years) (P<0.001)			
<60	1,290 (43.6)	1,012 (49.2)	142 (28.8)
60–69	1,059 (35.8)	713 (34.7)	189 (38.3)
70+	608 (20.6)	332 (16.1)	162 (32.9)
Residence at diagnosis (P<0.001)			
Major city	1,899 (64.2)	1,385 (67.3)	286 (58.0)
Inner regional	633 (21.4)	424 (20.6)	112 (22.7)
Outer regional remote & very remote	425 (14.4)	248 (12.1)	95 (19.3)
Area-based socioeconomic status (P<0.001)			
Affluent	289 (9.8)	227 (11.0)	34 (6.9)
Middle	1,939 (65.6)	1,382 (67.2)	309 (62.7)
Disadvantaged	729 (24.7)	448 (21.8)	150 (30.4)
First Nations status (P<0.001)			
Non-First Nations peoples	2,822 (95.4)	1,982 (96.4)	457 (92.7)
First Nations peoples	135 (4.6)	75 (3.6)	36 (7.3)
Number of comorbidities (P<0.001)			
None	2,094 (70.8)	1,536 (74.7)	290 (58.8)
One	506 (17.1)	310 (15.1)	109 (22.1)
Two or more	357 (12.1)	211 (10.3)	94 (19.1)
Smoking status at diagnosis (P<0.001)			
Never	519 (17.6)	453 (22.0)	29 (5.9)
Current	531 (18.0)	294 (14.3)	170 (34.5)
Past	973 (32.9)	739 (35.9)	164 (33.3)
Unknown	934 (31.6)	571 (27.8)	130 (26.4)
Stage at diagnosis (P<0.001)			
I	1,112 (37.6)	1,053 (51.2)	41 (8.3)
II	550 (18.6)	501 (24.4)	43 (8.7)
III	400 (13.5)	300 (14.6)	73 (14.8)
IV	490 (16.6)	45 (2.2)	324 (65.7)
Unknown	405 (13.7)	158 (7.7)	12 (2.4)

Data are presented as n (% in column). [†], all OPC includes those with an unknown p16 status (n=407), and their characteristics are not included in this table. OPC, oropharyngeal cancer.