Table 1. Table summarising the demographics of patients with anogenital cancer between 2014 and 2020.

Cancers	Anal	Cervical	Vaginal	Vulval	Total
N	5852	17854	1433	7754	32893
% of Total	17.8%	54.3%	4.4%	23.6%	100%
Age Groups					
< 40y	145 (2.5%)	7055 (39.5%)	48 (3.3%)	211 (92.7%)	7459 (22.7%)
40 – 54y	1196 (20.4%)	5110 (28.6%)	231 (16.1%)	1170 (15.1%)	7707 (23.4%)
55 – 74y	3043 (52.0%)	3901 (21.8%)	633 (44.2%)	3029 (39.1%)	10606 (32.2%)
75+y	1468 (25.1%)	1788 (10.0%)	521 (36.4%)	3344 (43.1%)	7121 (21.6%)
Ethnicity					
Asian	38 (0.1%)	447 (2.5%)	46 (3.2%)	143 (1.8%)	674 (2.0%)
Black	73 (1.2%)	286 (1.6%)	46 (3.2%)	80 (1.0%)	485 (1.5%)
Mixed and Other	75 (1.3%)	510 (2.9%)	18 (1.3%)	94 (1.2%)	697 (2.1%)
Unknown	209 (3.6%)	1108 (6.2%)	49 (3.4%)	317 (4.1%)	1683 (5.1%)
White	5457 (93.3%)	15503 (86.8%)	1274 (88.9%)	7120 (91.8%)	29354 (89.2%)
Deprivation					
1	1246 (21.3%)	4694 (26.3%)	334 (23.3%)	1678 (21.6%)	7952 (24.2%)
2	1223 (20.9%)	3883 (21.7%)	279 (19.5%)	1556 (20.1%)	6941 (21.1%)
3	1188 (20.3%)	3476 (19.5%)	301 (21.0%)	1585 (20.4%)	6550 (19.9%)
4	1116 (19.1%)	3138 (17.6%)	270 (18.8%)	1545 (19.9%)	6069 (18.5%)
5	1079 (18.4%)	2663 (14.9%)	249 (17.4%)	1390 (17.9%)	5381 (16.4%)
Stage					
1	674 (14.4%)	5592 (51.9%)	223 (23.9%)	3753 (65.2%)	10242 (46.2%)
2	1331 (28.4%)	2428 (22.5%)	199 (21.3%)	440 (7.6%)	4398 (19.9%)
3	2161 (46.2%)	1169 (10.9%)	218 (23.4%)	1104 (19.2%)	4652 (21.0%)
4	515 (11.0%)	1584 (14.7%)	293 (31.4%)	462 (8.0%)	2854 (12.9%)
Years					
2014	735 (12.6%)	2529 (14.2%)	204 (14.2%)	1069 (13.8%)	4537 (13.8%)
2015	870 (14.9%)	2466 (13.8%)	197 (13.7%)	1098 (14.2%)	4631 (14.1%)
2016	855 (14.6%)	2568 (14.4%)	208 (14.5%)	1071 (13.8%)	4702 (14.3%)
2017	825 (14.1%)	2564 (14.4%)	205 (14.3%)	1110 (14.3%)	4704 (14.3%)
2018	849 (14.5%)	2660 (14.9%)	196 (13.7%)	1195 (15.4%)	4900 (14.9%)
2019	878 (15.0%)	2707 (15.2%)	218 (15.2%)	1169 (15.1%)	4972 (15.1%)
2020	840 (14.4%)	2360 (13.2%)	205 (14.3%)	1042 (13.4%)	4447 (13.5%)

Table 2. Table summarising average age-specific, ethnicity—specific, deprivation—specific and staging—specific incidences as well as average annual percentage changes (AAPC) in incidence between 2014—2020 for all anogenital cancers. Note that ethnicity—specific incidences are not available for the year 2020. The median and lower and upper quartile values are reported for the average incidences, incidences are per 100,000 people. The mean % change and standard deviation are reported for the average yearly percentage change.

	Anal Cancer		Cervical Cancer		Vaginal Cancer		Vulval Cancer	
	Incidence	**% Change**	**Incidence**	**% Change**	**Incidence**	**% Change**	**Incidence**	**% Change**
General	4.2 (4.1, 4.3)	1.7 ± 8.3	12.9 (12.7, 13.1)	-1.7 ± 6.15	1.0 (1.0, 1.1)	-0.5 ± 6.6	5.6 (5.4, 5.7)	-1.0 ± 6.3
Age Specific								
<40y	0.4 (0.3, 0.4)	12.7 ± 53.2	18.3 (18.0, 18.7)	-3.4 ± 6.0	0.1 (0.1, 0.2)	25.4 ± 89.3	0.5 (0.4, 0.6)	18.2 ± 39.9
40-54 y	3.0 (2.9, 3.2)	2.6 ± 11.8	12.9 (12.3, 13.4)	0.6 ± 8.6	0.6 (0.5, 0.6)	2.3 ± 13.7	2.9 (2.8, 3.1)	-1.0 ± 8.6
55-74y	7.3 (6.9, 7.5)	3.1 ± 11.9	9.5 (8.9, 9.6)	2.5 ± 5.5	1.5 (1.5, 1.6)	2.4 ± 11.7	7.1 (7.0, 7.3)	-0.2 ± 7.4
75+y	8.0 (7.7, 8.1)	1.6 ± 15.5	9.6 (9.5, 9.7)	-5.4 ± 7.9	2.8 (2.8, 2.9)	-2.2 ± 7.9	18.5 (17.4, 19.5)	-1.9 ± 7.8
Ethnicity Specific								
Asian	0.5 (0.3, 0.5)	16.0 ± 74.6	4.5 (4.4, 4.5)	-3.4 ± 18.2	0.4 (0.4, 0.60)	62.4 ± 95.3	1.4 (1.1, 1.7)	18.1 ±52.8
Black	1.8 (1.3, 2.1)	118.8 ± 264.1	6.3 (5.8, 6.6)	0.9 ± 15.0	1.1 (0.8, 1.4)	*N/A	1.7 (1.6, 1.8)	-2.3 ± 19.4
Mixed and Other	4.1 (3.6, 4.5)	17.0 ± 44.7	23.2 (21.4, 25.5)	10.5 ± 20.0	0.7 (0.3, 1.2)	*N/A	4.9 (4.0, 6.1)	-2.8 ± 53.6
Unknown	15.5 (12.7, 18.6)	4.0 ± 49.5	84.1 (72.1, 95.9)	-2.3 ± 34.2	2.5 (2.4, 4.5)	33.4 ± 173.9	22.5 (19.3, 28.2)	-7.8 ± 18.2
White	4.5 (4.2, 4.6)	-0.2 ± 9.7	13.0 (12.4, 13.1)	-2.6 ± 7.9	1.0 (1.0, 1.0)	-3.8 ± 8.1	5.8 (5.7, 5.9)	-1.6 ± 9.2
Deprivation Specific								
1	4.9 (4.5, 5.1)	2.9 ± 18.0	18.3 (17.5, 18.9)	-1.3 ± 7.4	1.3 (1.3, 1.4)	20.5 ± 49.8	6.3 (6.2, 6.9)	-14.1 ± 35.2
2	4.3 (4.2, 4.5)	0.5 ± 10.8	13.8 (13.4, 14.5)	-1.7 ± 8.4	1.0 (0.9, 1.2)	21.9 ± 65.1	5.6 (5.4, 5.8)	-13.8 ± 33.9
3	4.0 (3.9, 4.3)	1.1 ± 12.9	12.0 (11.8, 12.6)	-0.9 ± 8.6	1.0 (1.0, 1.2)	19.6 ± 39.9	5.5 (5.1, 5.8)	-9.7 ± 37.6
4	3.9 (3.8, 4.0)	0.7 ± 6.3	11.1 (10.3, 11.5)	-2.8 ± 11.3	0.9 (0.9, 1.0)	29.5 ± 80.1	5.4 (5.1, 5.6)	-12.6 ± 34.7
5	3.8 (3.8, 4.1)	6.7 ± 17.2	9.7 (9.2, 9,7)	-1.3 ± 6.2	0.9 (0.9, 1.0)	33.8 ± 57.0	4.9 (4.5, 5.0)	-12.3 ± 37.1
Staging Specific								
1	0.5 (0.4, 0.5)	-1.0 ± 15.3	4.2 (3.7, 4.2)	7.7 ± 25.7	0.2 (0.1, 0.2)	2.7 ± 33.3	2.7 (2.6, 2.7)	-0.1 ± 9.3
2	1.0 (0.9, 1.0)	2.4 ± 11.6	1.6 (1.5, 2.0)	-1.2 ± 19.8	0.1 (0.1, 0.2)	4.8 ± 20.8	0.3 (0.3, 0.3)	0.0 ± 13.8
3	1.6 (1.5, 1.7)	9.3 ± 21.5	0.7 (0.6, 0.9)	34.4 ± 68.3	0.2 (0.1, 0.2)	5.7 ± 19.3	0.8 (0.7, 0.8)	2.5 ± 15.3
4	0.4 (0.4, 0.4)	1.2 ± 9.2	1.2 (1.1, 1.2)	4.9 ± 12.9	0.2 (0.2, 0.2)	2.9 ± 33.7	0.3 (0.3, 0.3)	5.3 ± 14.8

*N/A= AAPC could not be calculated as incidence trends include values equal to 0.

Table 3. Table summarising average ethnicity & age specific, deprivation & age specific and age & stage specific incidences as well as average annual percentage changes (AAPC) in incidence between 2014-2020 for all anogenital cancers. Note that ethnicity —specific incidences are not available for the year 2020. The median and lower and upper quartile values are reported for the average incidences, incidences are per 100,000 people. The mean % change and standard deviation are reported for the average annual percentage change.

		Anal Cancer		Cervical Cancer		Vaginal Cancer		Vulval Cancer	
		Incidence	% Change	Incidence	% Change	Incidence	% Change	Incidence	% Change
Ethnicity and Age Specific									
Asian	<40y	0 (0,0.1)	*N/A	3.3 (2.8, 3.5)	-0.9 ± 39.4	0.1 (0, 0.2)	*N/A	0 (0, 0)	*N/A
	40-54y	0.2 (0, 0.2)	*N/A	4.4 (4.3, 4.6)	4.7 ± 21.9	0.4 (0.2, 0.7)	*N/A	1 (0.9, 1.5)	79.6 ± 123.7
	55-74y	1.2 (0.8, 1.5)	52.6 ± 142.7	6.6 (6.4, 6.9)	-1.7 ± 22.9	0.7 (0.4, 1)	*N/A	3 (2.0, 4.7)	66.6 ± 110.4
	75+y	2.3 (1.5, 3.3)	-11.6 ± 111.9	11.8 (9.6, 13.7)	29.3 ± 109.8	2.3 (1.6, 44)	*N/A	9.6 (6.7, 10.3)	18.2 ± 110.6
Black	<40y	0.4 (0.1, 0.4)	*N/A	3.6 (2.8, 4.0)	9.7 ± 46.6	0 (0, 0.3)	*N/A	0.2 (0, 0.6)	*N/A
	40-54y	2.2 (1.1, 2.4)	*N/A	5.9 (5.7, 6.2)	2.2 ± 8.0	1 (0.8, 1.2)	*N/A	2.3 (1.8, 2.4)	-2.7 ± 37.4
	55-74y	2.4 (1.5, 4.9)	132.9 ± 234.5	7.7 (6.4, 10.3)	14.0 ± 51.6	1.2 (0.2, 3.1)	*N/A	2.7 (2.4, 4.1)	22.4 ± 63.2
	75+y	4.5 (0.8, 7.6)	*N/A	20.6 (12.5, 27.6)	230.7 ± 604.1	3.5 (2.7, 5.1)	*N/A	4.7 (3.3, 5.6)	11.1 ± 74.0
Mixed and Other	<40y	0 (0, 0)	*N/A	17.1 (16.6, 18.1)	0.5 ± 19.9	0 (0, 0)	*N/A	0 (0, 0.5)	*N/A
	40-54y	4.7 (3.7, 5.9)	38.0 ± 108.4	27.9 (20.7, 33.9)	34.0 ± 108.4	0 (0, 0.9)	*N/A	4.1 (2.9, 4.9)	36.0 ± 148.3
	55-74y	13.7 (10.2, 16.3)	41.8 ± 104.4	36 (29.9, 46.5)	22.4 ± 59.4	2.9 (0.7, 5)	*N/A	15.9 (13.1, 19.4)	25.0 ± 61.1
	75+y	16.9 (10.7, 29.8)	51.6 ± 153.5	31.7 (21.4, 51.9)	73.5 ± 88.6	0 (0, 8.4)	*N/A	53.1 (34.7, 62.4)	1.8 ± 83.9
Unknown	<40y	0 (0, 1.9)	*N/A	77.8 (61.4, 100.9)	-3.1 ± 47.7	0 (0.0)	*N/A	0.5 (0, 1.2)	*N/A
	40-54y	8.5 (8.1, 9.2)	62.4 ± 182.4	72.6 (67.4, 81.2)	3.6 ± 23.6	0 (0, 1.5)	*N/A	10.6 (7.1, 14)	12.9 ± 59.1
	55-74y	52.8 (39.6, 65.5)	20.6 ± 54.6	88.1 (83.6, 107.3)	-3.7 ± 18.8	8.6 (4.2, 16.2)	*N/A	64.2 (51.6, 73.3)	9.4 ± 53.0
	75+y	121.4 (104.5, 140.9)	4.8 ± 48.1	185.7 (158, 210.1)	18.4 ± 76.1	33.6 (18.3, 57.5)	*N/A	310.2 (230.6, 343.4)	5.7 ± 41.9
White	<40y	0.4 (0.3, 0.5)	14.2 ± 42.8	20.2 (19.8, 20.4)	-7.1 ± 13.0	0.1 (0.1, 0.1)	-12.8 ± 17.0	0.6 (0.4, 0.7)	19.0 ± 40.5
	40-54y	3.4 (3.1, 3.6)	4.4 ± 18.5	12.8 (12.4, 13.3)	0.0 ± 10.4	0.6 (0.5, 0.6)	-2.4 ± 10.3	3.1 (2.9, 3.3)	2.2 ± 5.1
	55-74y	7.4 (7, 7.5)	4.9 ± 9.7	8.3 (7.7, 9.0)	0.2 ± 10.8	1.5 (1.3, 1.6)	2.9 ± 22.7	7.2 (6.9, 7.7)	5.1 ± 10.2
	75+y	7.8 (7.6, 8)	-4.5 ± 20.3	9.1 (8.7, 9.1)	-4.3 ± 10.9	2.8 (2.7, 2.8)	0.7 ± 5.7	18.1 (17.2, 18.	-0.4 ± 11.8
Deprivation and Age Specific									
1	<40y	0.5 (0.3, 0.6)	128.8 ± 314.6	19.9 (19.4, 21.3)	18.1 ± 46.9	0.2 (0.1, 0.3)	*N/A	0.6 (0.3, 1)	79.0 ± 165.1
	40-54y	4.3 (3.6, 4.9)	35.3 ± 78.7	20.9 (18.5, 21.4)	22.4 ± 53.7	1 (0.5, 1.1)	277 ± 653.9	4.9 (3.4, 5.3)	6.0 ± 62.9
	55-74y	8.4 (8, 9.2)	27.6 ± 74.7	13.8 (12.8, 15.2)	20.1 ± 42.7	2.2 (1.8, 2.7)	53.5 ± 72.9	8.9 (6.8, 9.7)	3.5 ± 52.4
	75+y	10.2 (8.5, 11.2)	28.4 ± 71.6	11.5 (11, 13.4)	25.7 ± 69.1	4.5 (3.3, 4.6)	45.2 ± 73.5	20 (14.6, 22.2)	6.3 ± 69.9
2	<40y	0.3 (0.3, 0.4)	108 ± 252.8	17.3 (15.6, 18.2)	18.5 ± 54.3	0.1 (0.1, 0.1)	36.1 ± 81.4	0.4 (0.2, 0.4)	23.1 ± 68.7
	40-54y	3.3 (2.8, 3.8)	29.5 ± 66.8	13.5 (12.8, 14)	21.4 ± 48.0	0.5 (0.5, 0.7)	33.9 ± 90.0	2.6 (1.8, 3.4)	18.0 ± 93.3
	55-74y	8.3 (7.1, 8.3)	25.3 ± 65.8	11 (10, 11.3)	24.2 ± 51.0	1.3 (1.2, 1.5)	44.3 ± 86.6	7.7 (5.6, 8.3)	9.7 ± 73.8
	75+y	8.9 (7, 10)	29.4 ± 85.6	9.6 (9.4, 12.2)	15.5 ± 48.5	3.2 (2.9, 3.3)	50.5 ± 81.9	20.3 (13.2, 21.5)	9.4 ± 78.7
3	<40y	0.4 (0.2, 0.5)	71.1 ± 153.0	16.9 (12.4, 17.5)	20.2 ± 62.3	0.1 (0, 0.2)	*N/A	0.4 (0.3, 0.9)	116.5 ± 224.4
	40-54y	2.7 (2.3, 2.9)	40.4 ± 106.6	11.8 (11.4, 12.3)	27.7 ± 65.3	0.5 (0.4, 0.6)	71.9 ± 107.8	3 (1.7, 3.1)	16.4 ± 78.6
	55-74y	7.4 (6.8, 7.7)	32.4 ± 82.5	9 (8.4, 10)	30.2 ± 68.2	1.6 (1.1, 2)	39.1 ± 46.3	6.4 (4.4, 6.6)	15.8 ± 87.5
	75+y	7 (5.8, 7.5)	18.3 ± 49.8	8.5 (8.1, 8.7)	17.7 ± 42.2	2.9 (2.6, 3.3)	39.0 ± 57.4	18.9 (12.4, 19.7)	23.4 ± 108.3
4	<40y	0.4 (0.3, 0.5)	137.1 ± 222.2	16 (12.8, 18.2)	18.3 ± 72.4	0.1 (0, 0.2)	*N/A	0.5 (0.2, 0.7)	40.5 ± 55.4
	40-54y	2.2 (2, 2.7)	25.5 ± 60.8	10.1 (10, 10.6)	19.5 ± 47.4	0.6 (0.4, 0.7)	71.8 ± 139.1	1.8 (1.3, 2.1)	13.9 ± 54.7

	55-74y	6.1 (5.5, 6.4)	28.4 ± 74.9	7.1 (6.4, 7.8)	21.3 ± 55.0	1.1 (0.9, 1.2)	41.9 ± 73.1	6.3 (4, 6.9)	13.2 ± 85.7
	75+y	6.9 (6.6, 7.5)	24.0 ± 55.4	7.4 (6.8, 8.9)	14.2 ± 44.6	2.6 (2.4, 3)	55.2 ± 82.3	16.4 (11.8, 17.8)	10.8 ± 79.5
5	<40y	0.3 (0.2, 1.2)	*N/A	14.6 (9.3, 16.5)	28.9 ± 74.0	0.2 (0.1, 0.3)	*N/A	0.2 (0.2, 0.9)	357 ± 911.4
	40-54y	2.3 (1.9, 2.6)	30.9 ± 78.1	8.5 (8.2, 9.9)	27.3 ± 63.7	0.4 (0.3, 0.7)	38.5 ± 40.1	1.7 (1.2, 2.2)	17.3 ± 82.5
	55-74y	6.1 (5.4, 6.5)	39.7 ± 101.6	5.7 (5.2, 6.4)	37.9 ± 98.6	1.3 (1.2, 1.4)	80.2 ± 130.6	5.9 (3.3, 6.4)	16.6 ± 69.8
	75+y	7.2 (6.1, 7.8)	44.7 ± 91.9	8 (6.3, 8.1)	8.6 ± 30.5	2 (1.5, 3)	83.2 ± 126.3	13.8 (10.4, 14.6)	-0.9 ± 54.7
Age and Stage Specific									
<40y	1	0.1 (0.1, 0.1)	35.3 ± 105.3	7.2 (7, 7.3)	10.7 ± 35.9	0 (0, 0)	*N/A	0.4 (0.2, 0.4)	30.5 ± 60.3
	2	0.1 (0, 0.1)	34.3 ± 111.6	1.4 (1.1, 1.6)	-4.0 ± 25.1	0 (0, 0)	*N/A	0 (0, 0)	*N/A
	3	0.1 (0.1, 0.2)	99.7 ± 246.7	0.5 (0.4, 0.6)	33.5 ± 52.7	0 (0, 0)	41.0 ± 92.1	0.1 (0, 0.1)	40.4 ± 102.0
	4	0 (0, 0)	*N/A	0.5 (0.5, 0.6)	6.0 ± 16.0	0 (0, 0)	*N/A	0 (0, 0)	*N/A
40-54y	1	0.3 (0.3, 0.4)	9.4 ± 45.2	4.9 (3.9, 5)	6.2 ± 19.6	0.1 (0.1, 0.1)	6.2 ± 34.3	1.8 (1.7, 1.8)	2.5 ± 15.0
	2	0.6 (0.6, 0.7)	-2.1 ± 23.9	1.6 (1.5, 2.1)	0.1 ± 25.0	0.1 (0.1, 0.1)	3.9 ± 46.9	0.1 (0.1, 0.2)	10.5 ± 32.4
	3	1.2 (1.2, 1.4)	13.5 ± 34.5	0.7 (0.6, 0.9)	46.7 ± 90.3	0.1 (0.1, 0.1)	15.0 ± 71.4	0.3 (0.3, 0.4)	9.3 ± 31.8
	4	0.3 (0.2, 0.3)	7.0 ± 30.3	1 (1, 1.2)	9.4 ± 17.2	0.1 (0.1, 0.1)	6.9 ± 32.2	0.1 (0.1, 0.2)	*N/A
55-74y	1	0.9 (0.9, 1)	-3.4 ± 18.4	1.8 (1.5, 2)	8.0 ± 25.0	0.2 (0.2, 0.2)	0.6 ± 29.6	3.5 (3.4, 3.5)	-1.0 ± 10.8
	2	1.6 (1.5, 1.8)	5.7 ± 24.1	1.9 (1.8, 2.4)	4.9 ± 23.3	0.2 (0.2, 0.2)	5.6 ± 37.0	0.4 (0.4, 0.4)	-1.5 ± 23.0
	3	2.8 (2.7, 2.9)	6.1 ± 18.2	0.8 (0.6, 1)	30.8 ± 66.9	0.2 (0.2, 0.3)	16.0 ± 60.7	1.1 (1, 1.1)	5.0 ± 17.5
	4	0.6 (0.6, 0.7)	0.5 ± 17.5	1.4 (1.4, 1.5)	2.7 ± 10.0	0.3 (0.3, 0.4)	7.9 ± 30.4	0.4 (0.4, 0.5)	5.7 ± 19.6
75+y	1	0.7 (0.5, 0.8)	7.0 ± 36.8	0.7 (0.7, 0.8)	3.6 ± 37.3	0.4 (0.3, 0.4)	9.6 ± 34.0	7.9 (7.4, 8.1)	-2.2 ± 6.2
	2	1.9 (1.8, 2.1)	3.2 ± 16.8	1.9 (1.4, 2)	-7.2 ± 27.7	0.3 (0.2, 0.4)	7.0 ± 38.1	1.1 (1, 1.1)	-0.6 ± 12.9
	3	2.5 (1.9, 2.8)	17.0 ± 43.0	1 (0.8, 1.2)	39.9 ± 104.8	0.4 (0.3, 0.4)	-4.0 ± 15.1	2.5 (2.3, 2.8)	-0.7 ± 22.9
	4	0.8 (0.7, 0.8)	5.7 ± 32.7	1.8 (1.6, 2.1)	4.5 ± 30.4	0.6 (0.5, 0.6)	1.5 ± 31.9	1.2 (1.1, 1.3)	4.2 ± 28.0

*N/A= AAPC could not be calculated as incidence trends include values equal to 0.

Table 4. Fisher's Exact and Chi-square analysis for relevant categorical variable associations. Chi-square results are reported as: X^2 *((degrees of freedom, N = sample size) = chi-square value, p = p-value).*

	Anal Cancer		Cervical Cancer		Vaginal Cancer		Vulval Cancer	
	Fisher's exact	**X^2**	**Fisher's exact**	**X^2**	**Fisher's exact**	**X^2**	**Fisher's exact**	**X^2**
Ethnicity vs Age	**p<0.001**	-	**p<0.001**	-	**p<0.001**	-	**p<0.001**	-
Ethnicity vs Staging	p=0.15	-		(12, N=17854) = 35.5, **p<0.001**	p=0.10	-	**P<0.05**	-
Ethnicity vs Deprivation	-	(16, N=5852) = 47.5, **p<0.001**	-	(16, N=17854) = 170.6, **p<0.001**	**p<0.001**	-	-	(16, N=7754) = 80.9, **p<0.001**
Deprivation vs Age	-	(12, N=5852) = 53.8, **p<0.001**	-	(12, N=17854) = 104.1, **p<0.001**	-	(12, N=1433) = 18.1, p=0.11	-	(12, N=7754) = 147.3, **p<0.001**
Deprivation vs Staging	-	(16, N=5852) = 8.52, p=0.74	-	(12, N=17854) = 53.2, **p<0.001**	-	(12, N=1433) = 23.5, **p<0.05**	-	(12, N=7754) = 7.67, p=0.81
Age vs Staging	-	(9, N=5852) = 55.4, **p<0.001**	-	(9, N=17854) = 2025.4**, p<0.001**	-	(9, N=1433) = 12.3, p=0.20	-	(9, N=7754) = 82.2, **p<0.001**

Table 5. Multivariate logistic regression of patient characteristics with respect to late (stage 3 and 4) vs early (stage 1 and 2) cancer staging, age ≥55 years vs <55 years and high (quintile 1 and 2) vs low (quintile 4 and 5) deprivation.

		Anal Cancer			Cervical Cancer			Vaginal Cancer			Vulval Cancer		
Staging		**OR[1]**	**95% CI[1]**	**p-value**	**OR[1]**	**95% CI[1]**	**p-value**	**OR[1]**	**95% CI[1]**	**p-value**	**OR[1]**	**95% CI[1]**	**p-value**
Age	**<55 years**	-	-	-	-	-	-	-	-	-	-	-	-
	≥55 years	**0.82**	**0.70, 0.96**	**0.013**	**3.33**	**3.01, 3.69**	**<0.001**	1.17	0.82, 1.67	0.4	**1.80**	**1.50, 2.18**	**<0.001**
Ethnicity	**White**	-	-	-	-	-	-	-	-	-	-	-	-
	Asian	1.11	0.46, 2.84	0.8	1.02	0.74, 1.39	>0.9	0.68	0.33, 1.38	0.3	1.09	0.67, 1.74	0.7
	Black	0.98	0.56, 1.75	>0.9	1.13	0.76, 1.65	0.5	**0.34**	**0.15, 0.75**	**0.009**	0.84	0.41, 1.59	0.6
	Mixed and Other	1.10	0.60, 2.08	0.8	1.25	0.92, 1.68	0.15	0.61	0.12, 2.78	0.5	1.35	0.74, 2.39	0.3
	Unknown	1.13	0.76, 1.68	0.5	1.13	0.89, 1.44	0.3	1.47	0.58, 4.00	0.4	**1.56**	**1.09, 2.21**	**0.014**
Deprivation	**Low**	-	-	-	-	-	-	-	-	-	-	-	-
	High	1.11	0.97, 1.27	0.12	**1.44**	**1.29, 1.59**	**<0.001**	**1.38**	**1.02, 1.86**	**0.036**	1.10	0.96, 1.25	0.2
Age													
Ethnicity	**White**	-	-	-	-	-	-	-	-	-	-	-	-
	Asian	1.14	0.49, 3.10	0.8	**1.33**	**1.07, 1.65**	**0.009**	**0.25**	**0.13, 0.47**	**<0.001**	0.71	0.47, 1.10	0.11
	Black	**0.30**	**0.18, 0.50**	**<0.001**	**1.58**	**1.22, 2.05**	**<0.001**	**0.35**	**0.18, 0.69**	**0.002**	**0.20**	**0.12, 0.32**	**<0.001**
	Mixed and Other	**0.45**	**0.27, 0.77**	**0.003**	**0.72**	**0.57, 0.91**	**0.006**	0.86	0.26, 3.81	0.8	0.65	0.39, 1.12	0.10
	Unknown	**1.61**	**1.06, 2.54**	**0.031**	0.94	0.81, 1.10	0.5	1.59	0.67, 4.68	0.3	1.14	0.81, 1.65	0.5
Deprivation	**Low**	-	-	-	-	-	-	-	-	-	-	-	-
	High	**0.70**	**0.61, 0.80**	**<0.001**	**0.81**	**0.75, 0.87**	**<0.001**	0.98	0.73, 1.32	0.9	**0.56**	**0.49, 0.64**	**<0.001**
Deprivation													
Ethnicity	**White**	-	-	-	-	-	-	-	-	-	-	-	-
	Asian	1.40	0.66, 3.09	0.4	**1.58**	**1.26, 1.98**	**<0.001**	**5.37**	**2.40, 14.4**	**<0.001**	**1.99**	**1.35, 2.98**	**<0.001**
	Black	**3.87**	**2.09, 7.85**	**<0.001**	**5.07**	**3.51, 7.59**	**<0.001**	**3.69**	**1.76, 8.70**	**0.001**	**4.78**	**2.55, 9.98**	**<0.001**
	Mixed and Other	1.33	0.79, 2.28	0.3	**1.68**	**1.36, 2.10**	**<0.001**	0.93	0.31, 2.72	0.9	**2.47**	**1.50, 4.25**	**<0.001**
	Unknown	**0.76**	**0.55, 1.04**	**0.085**	**0.80**	**0.69, 0.92**	**0.001**	1.08	0.57, 2.08	0.8	0.82	0.63, 1.06	0.13

[1]OR= Odds Ratio, CI= Confidence Interval