

**Table 1 Demographics of the sports and sports categories**

	<b>Median age (Range)</b>	<b>Age ≤ 24 n (%)</b>	<b>Gender (male) n (%)</b>	<b>white British n (%)</b>	<b>with/studying for University degree n (%)</b>
<b>Whole group*</b> <b>(N = 344)</b>	25 (18-39)	167 (48.5%)	236 (67%)	275 (80%)	162 (47%)
<b>Sport:</b>					
Rugby (n = 72)	25 (19-31)	28 (41.8%)	59 (82%)	54 (80%)	29 (44%)
Rowing (n= 60 )	27 (18-39)	13 (21.7%)	34 (56% )	54 (90%)	47 (78%)
Cycling (n = 51 )	25 (18-38)	25 (45.8%)	38 (74.5%)	29 (62%)	4 (8.5%)
Swimming (n = 46 )	21 (18-30)	38 (82.6%)	31 (67%)	46 (100%)	16 (35%)
Hockey (n = 46)	25 (22-35)	18 (39.1% )	22 (48%)	46 (100%)	40 (67%)
Football (n = 26)	21 (18-35)	23 (88.5%)	26 (100%)	11 (42%)	2 (7%)
Athletics (n = 21 )	24 (19-31)	14 (66.7%)	9 (43%)	7 (33%)	15 (71%)
Gymnastics (n = 15 )	22 (18-30)	11 (73.3%)	8 (53%)	13 (86%)	2 (13%)
Sailing (n = 15 )	29 (25-36)	0	9 (60%)	15 (100%)	7 (46%)
<b>Sport category:</b>					
Strength and power (n = 50)	22.5 (18-31)	35 (70%)	25 (50%)	31 (62%)	16 (32%)
Endurance (n = 143 )	25 (18-39)	63 (45%)	96 (67%)	118 (85%)	68 (49% )
Mixed (n = 159 )	25 (18-36)	69 (44.8%)	116 (73%)	126 (82%)	78 (51%)

\*N=352 for Gender

**Table 2 Summary measures of number of teeth and proportion of athletes with caries by characteristics of the group**

<b>Teeth present</b>	<b>Median (IQR)</b>	<b>Range</b>	
Natural teeth	30 (28-32)	22 - 32	
Sound and unrestored teeth	27 (23-30)	12-32	
	<b>Number of athletes with caries (%)</b>	<b>Chi squared test</b>	<b>Odds Ratio (95% CI)</b>
N=352	173 (49.1%)		
<b>Characteristics of the group (n)</b>			
<b>Number of athletes by age</b>		P = 0.914	1.04 (0.68-1.59)
≤ 24 years (167)	82 (49.1%)		
≥ 25 years (177)	85 (48%)		
<b>Number of athletes by gender</b>		P = 0.367	1.23 (0.79-1.92)
Male (236)	120 (50.8%)		
Female (116)	53(45.7%)		
<b>Number of athletes by ethnicity</b>		P = 0.587	0.90 (0.53-1.52)
White British (275)	132 (48.0%)		
Other (69)	35 (52.2%)		
<b>Number of athletes by education</b>		P = 0.235	1.27 (0.83-1.95)
No degree (182)	93 (51.7%)		
Has/studying for degree (162)	73 (45.1%)		
<b>Number of athletes by sport category</b>		P = 0.004	
Strength and power (50)	29 (58.0%)	S+P v Endurance P = 0.078*	2.21 (1.15-4.25)
Endurance (143)	55 (38.5%)	Mixed v Endurance P = 0.009*	2.03 (1.28-3.22)
Mixed (159)	89 (56.0%)	S+P v Mixed P > 0.999*	1.09 (0.57-2.06)

\*Bonferroni correction

**Table 2a Odds ratio of caries in different sports (compared to Rowing)**

<b>Sport (n)</b>	<b>Number of athletes in sport with caries (%)</b>	<b>Odds ratio (95% CI)</b>	<b>P value</b>
Rowing (60)	20 (33.3%)	1 (Reference)	
Rugby (72)	44 (61.1%)	3.14 (1.54-6.43)	0.002
Cycling (51)	25 (49.0%)	1.92 (0.89-4.15)	0.095
Swimming (46)	19 (41.3%)	1.41 (0.64-3.12)	0.400
Hockey (46)	21 (45.7%)	1.68 (0.76-3.70)	0.198
Football (26)	16 (61.5%)	3.2 (1.23-8.32)	0.017
Athletics (21)	12 (57.1%)	2.67 (0.96-7.38)	0.059
Gymnastics (15)	8 (53.3%)	2.29 (0.73-7.20)	0.158
Sailing (15)	8 (53.3%)	2.29 (0.73-7.20)	0.158

**Table 3 Summary measures of number of restored teeth and proportion of athletes with restorations by characteristics of the group**

<b>Restorations present</b>	<b>Median (IQR)</b>	<b>Range</b>	
Fissure sealed teeth ( $\geq 1$ )	2 (1-4)	1-12	
Restored teeth ( $\geq 1$ )	4 (2-6)	1-19	
<b>Restored teeth by sport category</b>			
Strength and power (n = 50)	2 (1-5)	0-10	
Endurance (n = 143)	2 (1-7)	0-19	
Mixed (n =159 )	2 (1-6)	0-15	
<b>N = 352</b>	<b>Number of athletes with restorations (%)</b>	<b>Chi squared test</b>	<b>Odds Ratio (95% CI)</b>
Athletes with any restoration	252 (71.6%)		
Athletes with $\geq 5$ restored teeth	103 (29.5%)		
<b>Characteristics of the group (n)</b>			
<b>Number of athletes by age</b>		P < 0.001	0.32 (0.19-0.53)
$\leq 24$ years (167)	102 (61.1%)		
$\geq 25$ years (177)	147 (83.1%)		
<b>Number of athletes by gender</b>		P = 0.453	1.15 (0.71-1.87)
Male (236)	172 (72.9%)		
Female (116)	80 (69.0%)		
<b>Number of athletes by ethnicity</b>		P = 0.761	0.98 (0.54-1.76)
White British (272)	198 (72%)		
Other (69)	50 (74.6%)		
<b>Number of athletes by education</b>		P = 0.277	0.72 (0.45-1.16)
No degree (182)	125 (69.4%)		
Has/studying for degree (162)	122 (75.3%)		
<b>Number of athletes by sport category</b>		P = 0.793	
Strength and power (50)	36 (72.0%)	S+P v Endurance	0.93 (0.45-1.91)
Endurance (143)	105 (73.4%)	Mixed v Endurance	0.84 (0.51-1.38)
Mixed (159)	111 (69.8%)	S+P v Mixed	1.11 (0.55-2.25)

**Table 4 Number of athletes with ETW (BEWE score  $\geq 7$ ) by characteristics of the group**

	Number (%) with BEWE score $\geq 7$	Chi squared test	Odds Ratio (95% CI)
All (N = 352)	148 (42%)		
<b>Characteristics of the group (n)</b>			
<b>Age</b>		P = 0.220	1.34 (0.87-2.06)
$\leq 24$ years (167)	77(46.1%)		
$\geq 25$ years (177)	69 (39.0%)		
<b>Gender</b>		P = <0.001	2.40 (1.48-3.85)
Male (236)	115 (48.7%)		
Female (116)	33 (28.4%)		
<b>Ethnicity</b>		P = 0.423	1.36 (0.79-2.35)
White British (275)	120 (43.6%)		
Other (69)	25 (37.3%)		
<b>Educational status</b>		P = 0.115	0.92 (0.60-1.40)
Have/studying for degree (162)	61 (37.7%)		
No degree (182)	84 (46.7%)		
<b>Sport category</b>		P = 0.004	
Strength and power (50)	16 (32.0%)	S+P v Endurance P >0.999*	0.87 (0.44-1.74)
Endurance (143)	50 (35.0%)	Mixed v Endurance P = 0.015*	OR 1.98 (1.25-3.15)
Mixed (159)	82 (51.6%)	S+P v Mixed P =0.072*	0.44 (0.23-0.86)

\*Bonferroni correction

**Table 4a Odds ratio of ETW (BEWE score  $\geq$  7) in different sports (compared to Rowing)**

<b>Sport</b>	<b>Number of athletes in sport with ETW (%)</b>	<b>Odds ratio (95% CI)</b>	<b>P value</b>
Rowing (60)	16 (26.7%)	1 (Reference)	
Rugby (72)	38 (52.8%)	1.68 (0.77-3.67)	0.196
Cycling (51)	16 (26.7%)	0.96 (0.39-2.34)	0.928
Swimming (46)	23 (50%)	1.5 (0.64-3.53)	0.354
Hockey (46)	21 (45.7%)	1.26 (0.53-2.97)	0.598
Football (26)	19(73.1%)	1.06 (0.45-2.5)	0.902
Athletics (21)	2 (9.5%)	0.5 (0.09-2.79)	0.430
Gymnastics (15)	9 (60%)	2.25 (0.67-7.55)	0.189
Sailing (15)	4 (27.7%)	0.55 (0.15-2.02)	0.364

**Table 5 Periodontal condition (Worst BPE score) by characteristics of the group**

	Number (%) with BPE = 0	Number (%) with BPE = 1 or 2	Number (%) with BPE = 3 or 4	
All (N =344)	4 (1.1% )	272 (77.3%)	76 (21.6%)	
		95% CI 72.60 -81.35	95% CI 17.60 - 26.19	
<b>Age</b>				chi squared P = 0.012
≤ 24 years (167)	4 (2.4%)	134 (80.2%)	29 (17.4%)	
≥ 25 years (177)	0	130(73.4%)	47 (26.6%)	
<b>Gender</b>				chi squared P = 0.642
Male (236)	3 (1.3%)	179 (75.8%)	54 (22.9%)	
Female (116)	1 (0.9%)	93 (80.2%)	22 (19%)	
<b>Ethnicity</b>				chi squared P = 0.082
White British (275)	4 (1.5%)	216 (78.6%)	55 (20%)	
Other (69)	0	46 (68.7%)	21 (31.3%)	
<b>Educational status</b>				chi squared P= 0.678
Have/studying for degree (162)	1 (0.6%)	124 (76.5%)	37 (22.8%)	
No degree (182)	3 (1.7%)	139 (77.2%)	38 (21.1%)	
<b>Sport category</b>				chi squared P = 0.747
Strength and power (n=50)	0	72	28	
Endurance (n = 143)	2 (1.4%)	78.3	20.3	
Mixed (n = 159)	2 (1.36%)	78	20.8	

**Table 6 Extent of periodontal disease by BPE score**

	Number of sextants per athletes affected					
	1 -2 sextants		3 -4 sextants		5 -6 sextants	
BPE	n	%	n	%	n	%
1 or 2	39	11.1	130	37	177	50.5
3 or 4	66	18.8	9	2.6	0	0

**Table 7 Self-reported general health status by characteristics of the groups**

	Number reporting general health Very good/good (%)	Odds Ratio (95% CI)	P value
<b>All (344)</b>	310 (90.1%)		
<b>Characteristics of the group (n)</b>			
<b>Age</b>			
≤ 24 years (167)	148 (88.6%)	1	
≥ 25 years (177)	162 (91.5%)	1.39 (0.68-2.83)	0.471
<b>Gender</b>			
Male (236)	205 (89.9%)	1	
Female (116)	105 (90.5%)	1.07 (0.50-2.25)	>0.999
<b>Ethnicity</b>			
White British (275)	251 (91.3%)	1	
Other (69)	57 (85.1%)	0.55 (0.25-1.20)	0.196
<b>Educational status</b>			
Have/studying for degree (162)	148 (91.4%)		
No degree (182)	160 (88.9%)	0.76 (0.37-1.55)	0.561
<b>Sport category</b>	P = 0.167		
Strength and power (50)	44 (88%)	0.66 (0.23-1.89)	0.441
Endurance (143)	122 (87.1%)	1 (Reference)	
Mixed (159)	144 (93.5%)	1.51 (0.53-4.33)	0.441
<b>Sport</b>	P = 0.619		
Rowing (60)	53 (88.3%)	1 (Reference)	
Rugby (67)	61 (91%)	1.34 (0.43-4.25)	0.616
Cycling (47)	42 (87.5%)	1.11 (0.33-3.75)	0.367
Swimming (46)	40 (87%)	0.88 (0.27-2.82)	0.830
Hockey (46)	43 (93.5%)	1.89 (0.46-7.76)	0.375
Football (26)	26 (100%)	7.43 (0.41-335.08)	0.175
Athletics (23)	18 (85.7%)	0.79 (0.02-3.39)	0.754
Gymnastics (15)	13 (86.7%)	0.86 (0.16-4.63)	0.859
Sailing (15)	14 (93.3%)	1.85 (0.21-16.30)	0.580



**Table 8 Self-assessed oral health status by characteristics of the group**

	Number reporting oral health Very good/good (%)	Odds Ratio (95% CI)	P value
<b>All (344)</b>	238 (69.2%)		
<b>Characteristics of the group (n)</b>			
<b>Age</b>			
≤ 24 years (167)	119 (71.3%)	1	
≥ 25 years (177)	119 (67.2%)	0.88 (0.52-1.31)	0.489
<b>Gender</b>			
Male (236)	145 (63.3%)	1	
Female (116)	93 (80.2%)	2.314 (1.36-3.93)	0.002
<b>Ethnicity</b>			
White British (275)	198 (72%)	1	
Other (69)	39 (58.2%)	0.542 (0.31-0.94)	0.041
<b>Educational status</b>			
Have/studying for degree (162)	117 (72.2%)	1	
No degree (182)	119 (66.1%)	0.750 (0.47-1.19)	0.270
<b>Sport category</b>			
Strength and power (50)	32 (64%)	0.87 (0.44-1.71)	0.687
Endurance (143)	96 (68.6%)	1 (Reference)	
Mixed (159)	110 (71.4%)	1.10 (0.68-1.79)	0.703
<b>Sport</b>			
Rowing (60)	43 (71.7%)	1 (Reference)	
Rugby (67)	47 (70.1%)	0.93 (0.43-2.0)	0.851
Cycling (47)	31 (64.6%)	0.77 (0.34-1.75)	0.526
Swimming (46)	31 (67.4%)	0.82 (0.03-1.88)	0.635
Hockey (46)	36 (78.3%)	1.42 (0.58-3.50)	0.441
Football (26)	15 (57.7%)	21.32 (1.23-369.48)	0.035
Athletics (21)	14 (66.7%)	0.79 (0.27-2.30)	0.666
Gymnastics (15)	9 (60%)	0.59 (0.18-1.92)	0.384
Sailing (15)	12 (80%)	1.58 (0.40-6.31)	0.516

**Table 9 Oral impacts on daily performance by characteristics of the group**

	Number (%) reporting difficulty.....			At least one oral impact on daily performance	Odds Ratio (95% CI)	P value
	Eating/ drinking	Relaxing including sleeping	Smiling, laughing, showing teeth without embarrassment			
<b>All (n = 344)</b>	119 (34.6%)	52 (15.1%)	59 (17.2%)	169 (49.1%)		
<b>Characteristics of the group (n)</b>						
<b>Age</b>						
≤ 24 years (167)	57 (34.1%)	31 (18.6%)	31 (18.6%)	85 (50.9%)	1.147 (0.752-1.752)	0.524
≥ 25 years (177)	62 (35%)	21 (11.9%)	28 (15.8%)	84 (47.5%)	1	
<b>Gender</b>						
Male (236)	81 (35.5%)	29 (12.7%)	37 (16.2%)	112 (49.1%)	0.999 (0.64-1.56)	> 0.999
Female (116)	38 (32.8%)	23 (19.8%)	22 (19%)	57 (49.1%)	1	
<b>Ethnicity</b>					0.109	
White British (275)	87 (31.6%)	36 (13.1%)	44 (16%)	130 (47.3%)	0.644 (0.375-1.105)	0.109
Other (69)	32 (47.8%)	16 (23.9%)	15 (22.4%)	39 (58.2%)	1	
<b>Educational status</b>						
Have/studying for degree (162)	57 (35.2%)	22 (13.6%)	25 (15.4%)	77 (47.5%)	0.96 (0.59-1.38)	0.600
No degree (182)	62 (34.4%)	30 (16.7%)	33 (18.3%)	91 (50.6%)	1	
<b>Sport category</b>						
Strength and power (50)	21 (42%)	9 (18%)	9 (18%)	27 (54%)	0.99 (0.52-1.90)	0.972
Endurance ((140)	52 (37.1%)	20 (14.3%)	27 (19.3%)	76 (54.3%)	1 (Reference)	
Mixed (154)	46 (29.9%)	23 (14.9%)	23 (14.9%)	66 (42.9%)	0.63 (0.39-1.01)	0.051

- Non-zero score

**Table 9a Oral impacts on daily performance by sport**

Sport	Number (%) reporting difficulty* .....			At least one oral impact on daily performance	Odds ratio (95%CI)	P value
	Eating/ drinking	Relaxing including sleeping	Smiling, laughing, showing teeth without embarrassment			
Rowing (n=60 )	19 (31.7%)	8 (13.3%)	5 (8.3% )	25 (41.7%)	1 (Reference)	
Rugby (n = 67)	20 (29.9%)	11 (16.4% )	10 (14.9%)	29 (43.3% )	1.07 (0.53-2.16)	0.854
Cycling (n = 47 )	24 (50% )	10 (20.8%)	8 (16.7% )	31 (64.6%)	2.71 (1.23-5.99)	0.013
Swimming (n = 46)	13 (28.3%)	7 (15.2% )	15 (32.6% )	27 (58.7%)	1.80 (0.84-3.85)	0.133
Hockey (n = 46)	14 (30.4%)	5 (10.9%)	6 (13% )	20 (43.5%)	1.08 (0.49-2.34)	0.852
Football (n = 26)	8 (30.8%)	7 (26.9%)	6 (23.1%)	12 (46.2%)	1.2 (0.47-3.03)	0.699
Athletics (n = 21)	11 (52.4%)	2 (9.5% )	5 (23.8%)	12 (57.1% )	1.87 (0.68-5.1)	0.224
Gymnastics (n = 15)	6 (40% )	2 (13.3%)	3 (20% )	8 (53.3%)	1.6 (0.51-4.98)	0.418
Sailing (n = 15)	4 (26.7%)	0	1 (6.7%)	5 (33.3% )	0.7 (0.21-2.30)	0.557

- Non-zero score

**Table 10 Oral impacts on sport performance by characteristics of the group**

	Number (%) reporting difficulty* .....						
	Participating in normal training	Reduction in volume of training	Performance affected...	Experience of pain.....	At least one oral impact on sport performance	Odds ratio (95% CI)	P value
<b>All N = 344</b>	31 (9%)	13 (3.8%)	20 (5.8%)	103 (29.9%)	110 (32%)		
<b>Age</b>							
≤ 24 years (167)	14 (8.4%)	8 (4.8%)	12 (7.2%)	5 (32.9%)	57 (34.1%)	1.21 (0.77-1.91)	0.405
≥ 25 years (177)	17 (9.6%)	5 (2.8%)	8 (4.5%)	48 (27.1%)	53 (29.9%)	1	
<b>Gender</b>							
Male (236)	13 (5.7%)	6 (2.6%)	9 (3.9%)	61 (26.8%)	64 (28.1%)	0.59 (0.371-0.95)	0.030
Female (116)	18 (15.5%)	7 (6%)	11 (9.5%)	42 (36.2%)	46 (39.7%)	1	
<b>Ethnicity</b>							
White British (275)	27 (9.8%)	10 (3.6%)	15 (5.5%)	78 (28.4%)	84 (30.5%)	0.69 (0.39-1.21)	0.196
Other (67)	4 (6%)	3 (4.5%)	5 (7.5%)	25 (37.3%)	26 (38.8%)	1	
<b>Educational status</b>							
Have/studying for degree (162)	11.7% (19)	4.9% (8)	4.9% (8)	32.1% (52)	35.2% (57)	1	
No degree (182)	12 (6.7%)	5 (6.7%)	12 (6.7%)	51 (28.3%)	53 (29.4%)	0.76 (0.48-1.19)	0.229
<b>Sport category</b>							
Strength and power (50)	4 (8%)	2 (4%)	4 (8%)	22 (44%)	23 (46%)	1.86 (0.96-3.60)	0.066
Endurance (140)	12 (8.6%)	4 (2.9%)	8 (5.7%)	42 (30%)	44 (31.4%)	1 (Reference)	
Mixed (154)	15 (9.7%)	7 (4.5%)	8 (5.2%)	39 (25.3%)	43 (27.9%)	0.85 (0.51-1.39)	0.511

- Non-zero score

**Table 10a Oral impacts on sport performance by sport**

Sport	Number (%) reporting difficulty* .....						
	Participating in normal training	Reduction in volume of training	Performance affected...	Experience of pain.....	At least one oral impact on sport performance	Odds ratio (95%CI)	P value
Rowing (n=60 )	5 (8.3% )	1 (1.7%)	1 (1.7%)	16 (26.7%)	18 (30% )	1 (Reference)	
Rugby (n = 67)	5 (7.5%)	3 (4.5% )	5 (7.5% )	16 (23.9%)	18 (26.9% )	0.86 (0.39-1.86)	0.696
Cycling (n = 47)	6 (12.5%)	3 (6.3%)	7 (14.6%)	20 (41.7%)	20 (41.7%)	1.73 (0.77-3.84)	0.179
Swimming (n = 46)	4 (8.7%)	2 (4.3%)	2 (4.3% )	13 (28.3%)	13 (28.3% )	0.92 (0.39-2.14)	0.843
Hockey (n = 46)	7 (15.2%)	4 (8.7% )	3 (6.5%)	13 (28.3%)	14 (30.4% )	1.02 (0.44-2.36)	0.961
Football (n = 26)	2 (7.7%)	0	0	7 (26.9% )	8 (30.8%)	1.04 (0.38-2.81)	0.943
Athletics (n = 21)	1 (4.8%)	0	1 (4.8%)	9 (33.3%)	8 (38.1% )	1.44 (0.51-4.06)	0.495
Gymnastics (n = 15)	0	0	1 (6.7% )	8 (53.3% )	8 (53.3%)	2.67 (0.84-8.46)	0.096
Sailing (n = 15)	1 (6.7% )	0	0	3 (20% )	3 (20% )	0.58 (0.15-2.32)	0.444

- Non-zero score

**Table 11 Oral impacts on daily performance by clinical indicators of oral health, self-assessed general health and oral health status**

	Number (%) reporting difficulty*.....			
	Eating/ drinking	Relaxing including sleeping	Smiling, laughing or showing teeth without embarrassment	At least one oral impact on daily performance
<b>All (n = 344)</b>	119 (34.6%)	52 (15.1%)	59 (17.2%)	169 (49.1%)
<b>Number with condition (n)</b>				
<b>Established caries</b>				
No decay (179)	52 (29.4%)	22 (12.4%)	28 (15.8%)	78 (44.1%)
Caries in one or more teeth (173)	67 (40.1%)	30 (18%)	31 (18.6%)	91 (54.5%)
<b>Chi squared test</b>	P = 0.048	P = 0.200	P = 0.595	P = 0.068
<b>Any PUFA</b>				
No (340)	111 (33.4%)	44 (13.3%)	57 (17.2%)	160 (48.2%)
Yes (12)	8 (66.7%)	8 (66.7%)	16.7%	75% (9)
<b>Chi squared test</b>	P = 0.027	P <0.001	P >0.999	P = 0.082
<b>Periodontal condition</b>				
BPE 0, 1 or 2 (276)	86 (32.1%)	41 (15.3%)	44 (16.4%)	125 (46.6%)
BPE 3 or 4 (76)	33 (43.4%)	11 (14.5%)	15 (19.7%)	44 (57.9%)
<b>Chi squared test</b>	P = 0.076	P > 0.999	P = 0.605	P = 0.092
<b>TSL</b>				
BEWE score < 6 (204)	68 (34.3%)	29 (14.6%)	30 (15.2%)	93 (47%)
BEWE score ≥ 7 (148)	51 (34.9%)	23 (15.8%)	29 (19.9%)	76 (52.1%)
<b>Chi squared test</b>	P > 0.999	P = 0.879	P = 0.311	P = 0.383
<b>Self-reported general health</b>				
Very/good (310)	102 (32.9%)	37 (11.9%)	49 (15.8%)	145 (46.8%)
Fair- very poor (34)	17 (50%)	15 (44.1%)	10 (29.4%)	24 (70.6%)
<b>Chi squared test</b>	P = 0.057	P < 0.001	P = 0.056	P = 0.011
<b>Self-reported oral health</b>				
Very/good (238)	67 (28.2%)	27 (11.3%)	30(2.6%)	97 (40.8%)
Fair-very poor (106)	52 (49.1%)	25 (23.6%)	29 (27.4%)	72 (67.9%)
<b>Chi squared test</b>	P<0.001	P = 0.005	P = 0.001	P <0.001

- Non-zero score

**Table 12 Oral impacts on sport performance by clinical indicators of oral health, self-assessed general and oral health status**

	Number (%) reporting difficulty*.....					
	Participating in normal training	Reduction in volume of training	Performance affected	Experience of pain	At least one oral impact on sport performance	At least one oral impact on daily or sport performance
<b>All (n = 344)</b>	<b>31 (9% )</b>	<b>13 (3.8%)</b>	<b>20 (5.8%)</b>	<b>103 (29.9%)</b>	<b>110 (32% )</b>	<b>180 (52.3%)</b>
<b>Number with condition (n)</b>						
<b>Established caries</b>						
None (179)	14 (7.9% )	6 (3.4%)	8 (4.5% )	50 (28.2%)	55 (31.1% )	83 (46.9%)
Caries in one or more teeth (173)	17 (10.2% )	6 (4.2%)	12 (7.2%)	57 (31.7% )	55 (32.9%)	97 (58.1%)
<b>Chi squared test</b>	P = 0.585	P = 0.915	P = 0.409	P = 0.556	P = 0.799	P = 0.049
<b>Any PUFA</b>						
No (340)	26 (7.8% )	11 (3.3%)	19 (5.7%)	94 (28.3%)	101 (30.4%)	170 (51.2% )
Yes (12)	5 (41.7%)	2 (16.7%)	1 (8.3%)	9 (75% )	9 (75%)	10 (83.3% )
<b>Chi squared test</b>	P =0.002	P = 0.070	P >0.999	P =0.001	P = 0.002	P =0.038
<b>Periodontal condition</b>						
BPE 0, 1 or 2 (276)	25 (9.3%)	10 (3.7%)	16 (6% )	76 (28.4%)	80 (29.9%)	134 (50% )
BPE 3 or 4 (76)	6 (7.9%)	3 (3.9%)	4 (5.3%)	27 (35.5%)	30 (39.5%)	46 (60.5%)
<b>Chi squared test</b>	P = 0.823	P >0.999	P >0.999	P = 0.253	P = 0.126	P = 0.119
<b>Erosion</b>						
BEWE score < 6 (204)	20 (10.1%)	8 (4% )	12 (6.1%)	62 (31.3%)	65 (32.8%)	100 (50.5%)
BEWE score ≥ 7 (148)	11 (7.5%)	5 (3.4%)	8 (5.5%)	41 (28.1%)	45 (30.8%)	80 (54.8%)
<b>Chi squared test</b>	P = 0.452	P = 0.786	P >0.999	P = 0.553	P = 0.727	P = 0.446
<b>Self-reported general health</b>						
Very/good (310)	23 (7.4%)	9 (2.9%)	14 (4.5%)	87 (28.1%)	93 (30.0%)	155 (50% )
Fair- very poor (34)	23.5%	4 (11.8%)	6 (17.6% )	16 (47.1)	17 (50% )	25 (73.5%)
<b>Chi squared test</b>	P = 0.006	P = 0.030	P = 0.008	P = 0.029	P = 0.021	P = 0.011
<b>Self-reported oral health</b>						
Very/good (238)	20 (8.4%)	9 (3.8%)	11 (4.6%)	62 (26.1%)	68 (28.6%)	165 (44.1%)
Fair-very poor (106)	11 (10.4%)	4 (3.8% )	9 (8.5%)	41 (38.7%)	42 (39.6%)	75 (70.8%)
<b>Chi squared test</b>	P = 0.684	P >0.999	P = 0.210	P =0.022	P = 0.046	P<0.001

- Non-zero score

**Table 13 Oral impacts on daily performance by self-reported oral health problems**

	Number (%) reporting difficulty#.....			
	Eating /drinking	Relaxing including sleeping	Smiling, laughing or showing teeth without embarrassment	At least one oral impact on daily performance
<b>All (n = 344)</b>	<b>119 (34.6%)</b>	<b>52 (15.1%)</b>	<b>59 (17.2%)</b>	<b>169 (49.1%)</b>
<b>Current pain/problem</b>				
No (325)	104 (32.8%)	40 (12.6%)	51 (16.1%)	146 (46.1%)
Yes (27)	15 (55.6%)	12 (44.4%)	8 (29.6%)	23 (85.2%)
Chi squared test	P =0.030	P <0.001	P = 0.127	P <0.001
<b>Sensitivity to hot or cold</b>				
No (258)	74 (29.2%)	37 (14.6%)	42 (16.6%)	113 (44.7%)
Yes (94)	45 (49.5%)	15 (16.5%)	17 (18.7%)	56 (61.5%)
Chi squared test	P = 0.001	P = 0.800	P = 0.772	P = 0.008
<b>Self-reported bleeding when cleaning teeth</b>				
No (215)	54 (30.7%)	19 (10.8%)	27 (15.3%)	74 (42%)
Yes (137)	44 (39.3%)	23 (20.5%)	18 (16.1%)	61 (54.5%)
Chi squared test	P = 0.169	P = 0.035	P >0.999	P = 0.053
<b>History of wisdom tooth swelling*</b>				
No (270)	72 (27.5%)	33 (12.6%)	39 (14.9%)	106 (40.5%)
Yes (82)	47 (57.3%)	19 (23.2%)	20 (24.4%)	63 (76.8%)
Chi squared test	P <0.001	P = 0.031	P = 0.068	P <0.001

- Previous 12 months # Non-zero score



**Table 14 Oral impacts on sport performance by self-reported oral health problems**

	Number (%) reporting difficulty*.....				
	Participating in normal training	Reduction in volume of training.	Performance affected....	Experience of pain....	At least one oral impact on sport performance
<b>All (n = 344)</b>	<b>31 (9% )</b>	<b>13 (3.8% )</b>	<b>20 (5.8%)</b>	<b>103 (29.9%)</b>	<b>110 (32% )</b>
<b>Current pain/problem</b>					
No (325)	23 (7.3%)	10 (3.2%)	16 (5%)	83 (26.2%)	89 (28.1%)
Yes (27)	8 (29.6%)	3 (11.1%)	4 (14.8%)	20 (74.1%)	21 (77.8%)
Chi squared test	P < 0.001	P = 0.120	P = 0.098	P < 0.001	P < 0.001
<b>Sensitivity to hot or cold</b>					
No (258)	25 (9.9%)	12 (4.7% )	14 (5.5%)	68 (26.9%)	72 (28.5%)
Yes (94)	6 (6.6% )	1 (1.1%)	6 (6.6%)	35 (38.5%)	38 (41.8%)
Chi squared test	P = 0.468	P = 0.214	P = 0.913	P = 0.053	P = 0.028
<b>Self-reported bleeding when cleaning teeth</b>					
No (215)	16 (9.1%)	5 (2.8% )	9 (5.1%)	44 (25%)	48 (27.3%)
Yes (137)	8 (7.1% )	4 (3.6%)	5 (4.5%)	35 (31.3%)	38 (33.9%)
Chi squared test	P = 0.716	P > 0.999	P > 0.999	P = 0.306	P = 0.284
<b>History of wisdom tooth swelling*</b>					
No (270)	18 (6.9%)	6 (2.3%)	11 (4.2%)	64 (24.4% )	70 (26.7%)
Yes (82)	13 (15.9%)	7 (8.5%)	9 (11% )	39 (47.6%)	40 (48.8%)
Chi squared test	P = 0.024	P = 0.024	P = 0.044	P < 0.001	P < 0.001

- Previous 12 months

**Table 15 Comparison of clinical data with other studies**

	<b>Caries</b>	<b>ETW</b>	<b>Gingivitis</b>	<b>Periodontitis</b>
<b>London 2012 Olympics</b>	55%	45%	76%	15%
<b>Systematic review 2014</b>	15% - 75%	36% - 85%	up to 76%	up to 15%
<b>English professional football 2014</b>	37%	53%	80%	5%
<b>Elite and professional sport 2016</b>	49%	42%	77%	22%
<b>Adult dental health survey 2009</b>	29% - 35%	52% - 69%	50% - 55%	19% - 36%