

Appendix Ten

Chi Square Tests of Population Outliers

Table AP 10.1: Chi Square comparisons for differences in outliers amongst males and females. (M=Male, F=Female).

M v F	Column 1	Column 2	Row
Frequen., M	372	34660	35032
% of total	.653%	<u>60.848%</u>	61.501%
Frequen., F	226	21704	21930
% of total	.397%	<u>38.103%</u>	38.499%
Column totals	598	56364	56962
% of total	1.050%	<u>98.950%</u>	
Chi-square (df=1)	.13	p= .7211	

Table AP 10.2: Chi Square comparisons for differences in outliers amongst age groups (FI=Foetal to Infant, EC=Early Childhood, LC=Late Childhood, AD=Adolescence, YA=Young Adults, MDA=Middle Adults, and MA=Mature Adults).

FI V EC	Column 1	Column 2	Row	FI V LC	Column 1	Column 2	Row
Frequen., FI	28	952	980	Frequen., FI	28	952	980
% of total	.526%	<u>17.885%</u>	18.411%	% of total	.503%	<u>17.092%</u>	17.594%
Frequen., EC	53	4290	4343	Frequen., EC	90	4500	4590
% of total	.996%	<u>80.594%</u>	81.589%	% of total	1.616%	<u>80.790%</u>	82.406%
Column totals	81	5242	5323	Column totals	118	5452	5570
% of total	1.522%	<u>98.478%</u>		% of total	2.118%	<u>97.882%</u>	
Chi-square (df=1)	14.29	p= .0002		Chi-square (df=1)	3.13	p= .0769	

FI V AD	Column 1	Column 2	Row	FI V YA	Column 1	Column 2	Row
Frequen., FI	28	952	980	Frequen., FI	28	952	980
% of total	.659%	<u>22.395%</u>	23.053%	% of total	.378%	<u>12.839%</u>	13.216%
Frequen., AD	61	3210	3271	Frequen., YA	81	6354	6435
% of total	1.435%	<u>75.512%</u>	76.947%	% of total	1.092%	<u>85.691%</u>	86.784%
Column totals	89	4162	4251	Column totals	109	7306	7415
% of total	2.094%	<u>97.906%</u>		% of total	1.470%	<u>98.530%</u>	
Chi-square (df=1)	3.62	p= .0570		Chi-square (df=1)	15.00	p= .0001	

Table AP 10.2: Continued.

FI V MDA	Column 1	Column 2	Row
Frequen., FI	28	952	980
% of total	.087%	<u>2.953%</u>	3.040%
Frequen., MDA	293	30961	31254
% of total	.909%	<u>96.051%</u>	96.960%
Column totals	321	31913	32234
% of total	.996%	<u>99.004%</u>	
Chi-square (df=1)	35.52	p= .0000	

FI V MA	Column 1	Column 2	Row
Frequen., FI	28	952	980
% of total	.150%	<u>5.100%</u>	5.250%
Frequen., MA	212	17473	17685
% of total	1.136%	<u>93.614%</u>	94.750%
Column totals	240	18425	18665
% of total	1.286%	<u>98.714%</u>	
Chi-square (df=1)	20.12	p= .0000	

EC V LC	Column 1	Column 2	Row
Frequen., EC	53	4290	4343
% of total	.593%	<u>48.024%</u>	48.617%
Frequen., LC	90	4500	4590
% of total	1.008%	<u>50.375%</u>	51.383%
Column totals	143	8790	8933
% of total	1.601%	<u>98.399%</u>	
Chi-square (df=1)	7.77	p= .0053	

EC V AD	Column 1	Column 2	Row
Frequen., EC	53	4290	4343
% of total	.696%	<u>56.344%</u>	57.040%
Frequen., AD	61	3210	3271
% of total	.801%	<u>42.159%</u>	42.960%
Column totals	114	7500	7614
% of total	1.497%	<u>98.503%</u>	
Chi-square (df=1)	5.26	p= .0219	

EC V YA	Column 1	Column 2	Row
Frequen., EC	53	4290	4343
% of total	.492%	<u>39.803%</u>	40.295%
Frequen., YA	81	6354	6435
% of total	.752%	<u>58.953%</u>	59.705%
Column totals	134	10644	10778
% of total	1.243%	<u>98.757%</u>	
Chi-square (df=1)	.03	p= .8600	

EC MDA	Column 1	Column 2	Row
Frequen., EC	53	4290	4343
% of total	.149%	<u>12.052%</u>	12.200%
Frequen., MDA	293	30961	31254
% of total	.823%	<u>86.976%</u>	87.800%
Column totals	346	35251	35597
% of total	.972%	<u>99.028%</u>	
Chi-square (df=1)	3.17	p= .0750	

EC V MA	Column 1	Column 2	Row
Frequen., EC	53	4290	4343
% of total	.241%	<u>19.475%</u>	19.716%
Frequen., MA	212	17473	17685
% of total	.962%	<u>79.322%</u>	80.284%
Column totals	265	21763	22028
% of total	1.203%	<u>98.797%</u>	
Chi-square (df=1)	.01	p= .9069	

LC V AD	Column 1	Column 2	Row
Frequen., LC	90	4500	4590
% of total	1.145%	<u>57.245%</u>	58.390%
Frequen., AD	61	3210	3271
% of total	.776%	<u>40.834%</u>	41.610%
Column totals	151	7710	7861
% of total	1.921%	<u>98.079%</u>	
Chi-square (df=1)	.09	p= .7601	

Table AP 10.2: Continued.

LC V YA	Column 1	Column 2	Row
Frequen., LC	90	4500	4590
% of total	.816%	<u>40.816%</u>	41.633%
Frequen., YA	81	6354	6435
% of total	.735%	<u>57.633%</u>	58.367%
Column totals	171	10854	11025
% of total	1.551%	<u>98.449%</u>	
Chi-square (df=1)	8.65	p= .0033	

LC V MDA	Column 1	Column 2	Row
Frequen., LC	90	4500	4590
% of total	.251%	<u>12.554%</u>	12.805%
Frequen., MDA	293	30961	31254
% of total	.817%	<u>86.377%</u>	87.195%
Column totals	383	35461	35844
% of total	1.069%	<u>98.931%</u>	
Chi-square (df=1)	39.65	p= .0000	

LC V MA	Column 1	Column 2	Row
Frequen., LC	90	4500	4590
% of total	.404%	<u>20.202%</u>	20.606%
Frequen., MA	212	17473	17685
% of total	.952%	<u>78.442%</u>	79.394%
Column totals	302	21973	22275
% of total	1.356%	<u>98.644%</u>	
Chi-square (df=1)	15.82	p= .0001	

AD V YA	Column 1	Column 2	Row
Frequen., AD	61	3210	3271
% of total	.628%	<u>33.072%</u>	33.701%
Frequen., YA	81	6354	6435
% of total	.835%	<u>65.465%</u>	66.299%
Column totals	142	9564	9706
% of total	1.463%	<u>98.537%</u>	
Chi-square (df=1)	5.53	p= .0187	

AD V MDA	Column 1	Column 2	Row
Frequen., AD	61	3210	3271
% of total	.177%	<u>9.298%</u>	9.474%
Frequen., MDA	293	30961	31254
% of total	.849%	<u>89.677%</u>	90.526%
Column totals	354	34171	34525
% of total	1.025%	<u>98.975%</u>	
Chi-square (df=1)	25.09	p= .0000	

AD V MA	Column 1	Column 2	Row
Frequen., AD	61	3210	3271
% of total	.291%	<u>15.318%</u>	15.609%
MA	212	17473	17685
% of total	1.012%	<u>83.379%</u>	84.391%
Column totals	273	20683	20956
% of total	1.303%	<u>98.697%</u>	
Chi-square (df=1)	9.53	p= .0020	

YA V MDA	Column 1	Column 2	Row
Frequen., YA	81	6354	6435
% of total	.215%	<u>16.859%</u>	17.074%
Frequen., MDA	293	30961	31254
% of total	.777%	<u>82.149%</u>	82.926%
Column totals	374	37315	37689
% of total	.992%	<u>99.008%</u>	
Chi-square (df=1)	5.61	p= .0179	

YA V MA	Column 1	Column 2	Row
Frequen., YA	81	6354	6435
% of total	.336%	<u>26.343%</u>	26.679%
Frequen., MA	212	17473	17685
% of total	.879%	<u>72.442%</u>	73.321%
Column totals	293	23827	24120
% of total	1.215%	<u>98.785%</u>	
Chi-square (df=1)	.14	p= .7068	

Table AP 10.2: Continued.

MDA V MA	Column 1	Column 2	Row	Subadults V Adults	Column 1	Column 2	Row
Frequen., MDA	293	30961	31254	Frequen., Subadults	599	56569	57168
% of total	.599%	<u>63.264%</u>	63.863%	% of total	.851%	<u>80.411%</u>	81.262%
Frequen., MA	212	17473	17685	Frequen., Adults	230	12952	13182
% of total	.433%	<u>35.704%</u>	36.137%	% of total	.327%	<u>18.411%</u>	18.738%
Column totals	505	48434	48939	Column total	829	69521	70350
% of total	1.032%	<u>98.968%</u>		% of total	1.178%	<u>98.822%</u>	
Chi-square (df=1)	7.55	p= .0060		Chi-square (df=1)	44.69	p= .0000	

Table AP 10.3: Chi Square comparisons for differences in outliers amongst adults from specific sites. (BF=Blackfriars, OCU=Chelsea, CH=Chichester, FG=Fishergate, HE=Hereford, HK=Hickleton, SH=St. Helen's, TO=Towton, WP=Wharram Percy, HCW=Wolverhampton, and YM=York Minster).

BF V OCU	Column 1	Column 2	Row	BF V CH	Column 1	Column 2	Row
Frequen., BF	10	1585	1595	Frequen., BF	10	1585	1595
% of total	.237%	<u>37.524%</u>	37.760%	% of total	.092%	<u>14.523%</u>	14.614%
Frequen., OCU	27	2602	2629	Frequen., CH	103	9216	9319
% of total	.639%	<u>61.600%</u>	62.240%	% of total	.944%	<u>84.442%</u>	85.386%
Column totals	37	4187	4224	Column totals	113	10801	10914
% of total	.876%	<u>99.124%</u>		% of total	1.035%	<u>98.965%</u>	
Chi-square (df=1)	1.83	p= .1762		Chi-square (df=1)	3.04	p= .0812	

BF V FG	Column 1	Column 2	Row	BF V HE	Column 1	Column 2	Row
Frequen., BF	10	1585	1595	Frequen., BF	10	1585	1595
% of total	.080%	<u>12.692%</u>	12.772%	% of total	.138%	<u>21.947%</u>	22.085%
Frequen., FG	101	10792	10893	Frequen., HE	33	5594	5627
% of total	.809%	<u>86.419%</u>	87.228%	% of total	.457%	<u>77.458%</u>	77.915%
Column totals	111	12377	12488	Column totals	43	7179	7222
% of total	.889%	<u>99.111%</u>		% of total	.595%	<u>99.405%</u>	
Chi-square (df=1)	1.42	p= .2328		Chi-square (df=1)	.03	p= .8528	

BF V HK	Column 1	Column 2	Row	BF V SH	Column 1	Column 2	Row
Frequen., BF	10	1585	1595	Frequen., BF	10	1585	1595
% of total	.369%	<u>58.466%</u>	58.834%	% of total	.091%	<u>14.441%</u>	14.532%
Frequen., HK	22	1094	1116	Frequen., SH	116	9265	9381
% of total	.812%	<u>40.354%</u>	41.166%	% of total	1.057%	<u>84.411%</u>	85.468%
Column totals	32	2679	2711	Column totals	126	10850	10976
% of total	1.180%	<u>98.820%</u>		% of total	1.148%	<u>98.852%</u>	
Chi-square (df=1)	10.17	p= .0014		Chi-square (df=1)	4.46	p= .0346	

Table AP 10.3: Continued.

BF V TO	Column 1	Column 2	Row
Frequen., BF	10	1585	1595
% of total	.346%	<u>54.787%</u>	55.133%
Frequen., TO	12	1286	1298
% of total	.415%	<u>44.452%</u>	44.867%
Column totals	22	2871	2893
% of total	.760%	<u>99.240%</u>	
Chi-square (df=1)	.84	p= .3595	

BF V WP	Column 1	Column 2	Row
Frequen., BF	10	1585	1595
% of total	.097%	<u>15.442%</u>	15.540%
Frequen., WP	93	8576	8669
% of total	.906%	<u>83.554%</u>	84.460%
Column totals	103	10161	10264
% of total	1.004%	<u>98.996%</u>	
Chi-square (df=1)	2.70	p= .1007	

BF V HCW	Column 1	Column 2	Row
Frequen., BF	10	1585	1595
% of total	.280%	<u>44.410%</u>	44.690%
Frequen., HCW	49	1925	1974
% of total	1.373%	<u>53.937%</u>	55.310%
Column totals	59	3510	3569
% of total	1.653%	<u>98.347%</u>	
Chi-square (df=1)	18.68	p= .0000	

BF V YM	Column 1	Column 2	Row
Frequen., BF	10	1585	1595
% of total	.160%	<u>25.307%</u>	25.467%
Frequen., YM	34	4634	4668
% of total	.543%	<u>73.990%</u>	74.533%
Column totals	44	6219	6263
% of total	.703%	<u>99.297%</u>	
Chi-square (df=1)	.18	p= .6755	

OCU V CH	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.226%	<u>21.778%</u>	22.004%
Frequen., CH	103	9216	9319
% of total	.862%	<u>77.134%</u>	77.996%
Column totals	130	11818	11948
% of total	1.088%	<u>98.912%</u>	
Chi-square (df=1)	.12	p= .7326	

OCU V FG	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.200%	<u>19.243%</u>	19.442%
Frequen., FG	101	10792	10893
% of total	.747%	<u>79.811%</u>	80.558%
Column totals	128	13394	13522
% of total	.947%	<u>99.053%</u>	
Chi-square (df=1)	.22	p= .6353	

OCU V HE	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.327%	<u>31.516%</u>	31.844%
Frequen., HE	33	5594	5627
% of total	.400%	<u>67.757%</u>	68.156%
Column totals	60	8196	8256
% of total	.727%	<u>99.273%</u>	
Chi-square (df=1)	4.82	p= .0281	

OCU V HK	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.721%	<u>69.479%</u>	70.200%
Frequen., HK	22	1094	1116
% of total	.587%	<u>29.212%</u>	29.800%
Column totals	49	3696	3745
% of total	1.308%	<u>98.692%</u>	
Chi-square (df=1)	5.41	p= .0200	

Table AP 10.3: Continued.

OCU V SH	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.225%	<u>21.665%</u>	21.890%
Frequen., SH	116	9265	9381
% of total	.966%	<u>77.144%</u>	78.110%
Column totals	143	11867	12010
% of total	1.191%	<u>98.809%</u>	
Chi-square (df=1)	.77	p= .3814	

OCU V TO	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.688%	<u>66.259%</u>	66.947%
Frequen., TO	12	1286	1298
% of total	.306%	<u>32.748%</u>	33.053%
Column totals	39	3888	3927
% of total	.993%	<u>99.007%</u>	
Chi-square (df=1)	.09	p= .7606	

OCU V WP	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.239%	<u>23.031%</u>	23.270%
Frequen., WP	93	8576	8669
% of total	.823%	<u>75.907%</u>	76.730%
Column totals	120	11178	11298
% of total	1.062%	<u>98.938%</u>	
Chi-square (df=1)	.04	p= .8410	

OCU V HCW	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.587%	<u>56.528%</u>	57.115%
Frequen., HCW	49	1925	1974
% of total	1.065%	<u>41.821%</u>	42.885%
Column totals	76	4527	4603
% of total	1.651%	<u>98.349%</u>	
Chi-square (df=1)	14.70	p= .0001	

OCU V YM	Column 1	Column 2	Row
Frequen., OCU	27	2602	2629
% of total	.370%	<u>35.658%</u>	36.029%
Frequen., YM	34	4634	4668
% of total	.466%	<u>63.506%</u>	63.971%
Column totals	61	7236	7297
% of total	.836%	<u>99.164%</u>	
Chi-square (df=1)	1.81	p= .1786	

CH V FG	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.510%	<u>45.597%</u>	46.106%
Frequen., FG	101	10792	10893
% of total	.500%	<u>53.394%</u>	53.894%
Column totals	204	20008	20212
% of total	1.009%	<u>98.991%</u>	
Chi-square (df=1)	1.59	p= .2068	

CH V HE	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.689%	<u>61.662%</u>	62.351%
Frequen., HE	33	5594	5627
% of total	.221%	<u>37.428%</u>	37.649%
Column totals	136	14810	14946
% of total	.910%	<u>99.090%</u>	
Chi-square (df=1)	10.47	p= .0012	

CH V HK	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.987%	<u>88.318%</u>	89.305%
Frequen., HK	22	1094	1116
% of total	.211%	<u>10.484%</u>	10.695%
Column totals	125	10310	10435
% of total	1.198%	<u>98.802%</u>	
Chi-square (df=1)	6.32	p= .0120	

Table AP 10.3: Continued.

CH V SH	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.551%	<u>49.283%</u>	49.834%
Frequen., SH	116	9265	9381
% of total	.620%	<u>49.545%</u>	50.166%
Column totals	219	18481	18700
% of total	1.171%	<u>98.829%</u>	
Chi-square (df=1)	.70	p= .4041	

CH V TO	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.970%	<u>86.804%</u>	87.774%
Frequen., TO	12	1286	1298
% of total	.113%	<u>12.113%</u>	12.226%
Column totals	115	10502	10617
% of total	1.083%	<u>98.917%</u>	
Chi-square (df=1)	.35	p= .5555	

CH V WP	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.573%	<u>51.234%</u>	51.807%
Frequen., WP	93	8576	8669
% of total	.517%	<u>47.676%</u>	48.193%
Column totals	196	17792	17988
% of total	1.090%	<u>98.910%</u>	
Chi-square (df=1)	.04	p= .8339	

CH V HCW	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.912%	<u>81.608%</u>	82.520%
Frequen., HCW	49	1925	1974
% of total	.434%	<u>17.046%</u>	17.480%
Column totals	152	11141	11293
% of total	1.346%	<u>98.654%</u>	
Chi-square (df=1)	23.26	p= .0000	

CH V YM	Column 1	Column 2	Row
Frequen., CH	103	9216	9319
% of total	.736%	<u>65.890%</u>	66.626%
Frequen., YM	34	4634	4668
% of total	.243%	<u>33.131%</u>	33.374%
Column totals	137	13850	13987
% of total	.979%	<u>99.021%</u>	
Chi-square (df=1)	4.56	p= .0328	

FG V HE	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.611%	<u>65.327%</u>	65.938%
Frequen., HE	33	5594	5627
% of total	.200%	<u>33.862%</u>	34.062%
Column totals	134	16386	16520
% of total	.811%	<u>99.189%</u>	
Chi-square (df=1)	5.35	p= .0207	

FG V HK	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.841%	<u>89.866%</u>	90.707%
Frequen., HK	22	1094	1116
% of total	.183%	<u>9.110%</u>	9.293%
Column totals	123	11886	12009
% of total	1.024%	<u>98.976%</u>	
Chi-square (df=1)	10.89	p= .0010	

FG V SH	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.498%	<u>53.231%</u>	53.729%
Frequen., SH	116	9265	9381
% of total	.572%	<u>45.699%</u>	46.271%
Column totals	217	20057	20274
% of total	1.070%	<u>98.930%</u>	
Chi-square (df=1)	4.55	p= .0328	

Table AP 10.3: Continued.

FG V TO	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.828%	<u>88.524%</u>	89.353%
Frequen., TO	12	1286	1298
% of total	.098%	<u>10.549%</u>	10.647%
Column totals	113	12078	12191
% of total	.927%	<u>99.073%</u>	
Chi-square (df=1)	.00	p= .9923	

FG V WP	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.516%	<u>55.168%</u>	55.684%
Frequen., WP	93	8576	8669
% of total	.475%	<u>43.840%</u>	44.316%
Column totals	194	19368	19562
% of total	.992%	<u>99.008%</u>	
Chi-square (df=1)	1.04	p= .3074	

FG V HCW	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.785%	<u>83.873%</u>	84.658%
Frequen., HCW	49	1925	1974
% of total	.381%	<u>14.961%</u>	15.342%
Column totals	150	12717	12867
% of total	1.166%	<u>98.834%</u>	
Chi-square (df=1)	35.07	p= .0000	

FG V YM	Column 1	Column 2	Row
Frequen., FG	101	10792	10893
% of total	.649%	<u>69.353%</u>	70.002%
Frequen., YM	34	4634	4668
% of total	.218%	<u>29.780%</u>	29.998%
Column totals	135	15426	15561
% of total	.868%	<u>99.132%</u>	
Chi-square (df=1)	1.50	p= .2203	

HE V HK	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.489%	<u>82.960%</u>	83.450%
Frequen., HK	22	1094	1116
% of total	.326%	<u>16.224%</u>	16.550%
Column totals	55	6688	6743
% of total	.816%	<u>99.184%</u>	
Chi-square (df=1)	22.08	p= .0000	

HE V SH	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.220%	<u>37.273%</u>	37.493%
Frequen., SH	116	9265	9381
% of total	.773%	<u>61.734%</u>	62.507%
Column totals	149	14859	15008
% of total	.993%	<u>99.007%</u>	
Chi-square (df=1)	15.12	p= .0001	

HE V TO	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.477%	<u>80.780%</u>	81.256%
Frequen., TO	12	1286	1298
% of total	.173%	<u>18.570%</u>	18.744%
Column totals	45	6880	6925
% of total	.650%	<u>99.350%</u>	
Chi-square (df=1)	1.87	p= .1718	

HE V WP	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.231%	<u>39.130%</u>	39.361%
Frequen., WP	93	8576	8669
% of total	.651%	<u>59.989%</u>	60.639%
Column totals	126	14170	14296
% of total	.881%	<u>99.119%</u>	
Chi-square (df=1)	9.24	p= .0024	

Table AP 10.3: Continued.

HE V HCW	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.434%	<u>73.596%</u>	74.030%
Frequen., HCW	49	1925	1974
% of total	.645%	<u>25.326%</u>	25.970%
Column totals	82	7519	7601
% of total	1.079%	<u>98.921%</u>	
Chi-square (df=1)	49.22	P= .0000	

HE V YM	Column 1	Column 2	Row
Frequen., HE	33	5594	5627
% of total	.321%	<u>54.337%</u>	54.658%
Frequen., YM	34	4634	4668
% of total	.330%	<u>45.012%</u>	45.342%
Column totals	67	10228	10295
% of total	.651%	<u>99.349%</u>	
Chi-square (df=1)	.79	p= .3727	

HK V SH	Column 1	Column 2	Row
Frequen., HK	22	1094	1116
% of total	.210%	<u>10.422%</u>	10.632%
Frequen., SH	116	9265	9381
% of total	1.105%	<u>88.263%</u>	89.368%
Column totals	138	10359	10497
% of total	1.315%	<u>98.685%</u>	
Chi-square (df=1)	4.15	P= .0416	

HK V TO	Column 1	Column 2	Row
Frequen., HK	22	1094	1116
% of total	.911%	<u>45.319%</u>	46.230%
Frequen., TO	12	1286	1298
% of total	.497%	<u>53.273%</u>	53.770%
Column totals	34	2380	2414
% of total	1.408%	<u>98.592%</u>	
Chi-square (df=1)	4.74	p= .0296	

HK V WP	Column 1	Column 2	Row
Frequen., HK	22	1094	1116
% of total	.225%	<u>11.180%</u>	11.405%
Frequen., WP	93	8576	8669
% of total	.950%	<u>87.644%</u>	88.595%
Column totals	115	9670	9785
% of total	1.175%	<u>98.825%</u>	
Chi-square (df=1)	6.87	p= .0088	

HK V HCW	Column 1	Column 2	Row
Frequen., HK	22	1094	1116
% of total	.712%	<u>35.405%</u>	36.117%
Frequen., HCW	49	1925	1974
% of total	1.586%	<u>62.298%</u>	63.883%
Column totals	71	3019	3090
% of total	2.298%	<u>97.702%</u>	
Chi-square (df=1)	.83	p= .3625	

HK V YM	Column 1	Column 2	Row
Frequen., HK	22	1094	1116
% of total	.380%	<u>18.914%</u>	19.295%
Frequen., YM	34	4634	4668
% of total	.588%	<u>80.118%</u>	80.705%
Column totals	56	5728	5784
% of total	.968%	<u>99.032%</u>	
Chi-square (df=1)	14.51	p= .0001	

SH V TO	Column 1	Column 2	Row
Frequen., SH	116	9265	9381
% of total	1.086%	<u>86.759%</u>	87.845%
Frequen., TO	12	1286	1298
% of total	.112%	<u>12.042%</u>	12.155%
Column totals	128	10551	10679
% of total	1.199%	<u>98.801%</u>	
Chi-square (df=1)	.94	p= .3329	

Table AP 10.3: Continued.

SH V WP	Column 1	Column 2	Row
Frequen., SH	116	9265	9381
% of total	.643%	<u>51.330%</u>	51.972%
Frequen., WP	93	8576	8669
% of total	.515%	<u>47.512%</u>	48.028%
Column totals	209	17841	18050
% of total	1.158%	<u>98.842%</u>	
Chi-square (df=1)	1.06	p= .3042	

SH V HCW	Column 1	Column 2	Row
Frequen., SH	116	9265	9381
% of total	1.022%	<u>81.594%</u>	82.616%
Frequen., HCW	49	1925	1974
% of total	.432%	<u>16.953%</u>	17.384%
Column totals	165	11190	11355
% of total	1.453%	<u>98.547%</u>	
Chi-square (df=1)	17.67	p= .0000	

SH V YM	Column 1	Column 2	Row
Frequen., SH	116	9265	9381
% of total	.826%	<u>65.948%</u>	66.773%
Frequen., YM	34	4634	4668
% of total	.242%	<u>32.985%</u>	33.227%
Column totals	150	13899	14049
% of total	1.068%	<u>98.932%</u>	
Chi-square (df=1)	7.62	p= .0058	

TO V WP	Column 1	Column 2	Row
Frequen., TO	12	1286	1298
% of total	.120%	<u>12.903%</u>	13.023%
Frequen., WP	93	8576	8669
% of total	.933%	<u>86.044%</u>	86.977%
Column totals	105	9862	9967
% of total	1.053%	<u>98.947%</u>	
Chi-square (df=1)	.24	p= .6255	

TO V HCW	Column 1	Column 2	Row
Frequen., TO	12	1286	1298
% of total	.367%	<u>39.303%</u>	39.670%
Frequen., HCW	49	1925	1974
% of total	1.498%	<u>58.833%</u>	60.330%
Column totals	61	3211	3272
% of total	1.864%	<u>98.136%</u>	
Chi-square (df=1)	10.39	p= .0013	

TO V YM	Column 1	Column 2	Row
Frequen., TO	12	1286	1298
% of total	.201%	<u>21.555%</u>	21.757%
Frequen., YM	34	4634	4668
% of total	.570%	<u>77.673%</u>	78.243%
Column totals	46	5920	5966
% of total	.771%	<u>99.229%</u>	
Chi-square (df=1)	.51	p= .4749	

WP V HCW	Column 1	Column 2	Row
Frequen., WP	93	8576	8669
% of total	.874%	<u>80.579%</u>	81.453%
Frequen., HCW	49	1925	1974
% of total	.460%	<u>18.087%</u>	18.547%
Column totals	142	10501	10643
% of total	1.334%	<u>98.666%</u>	
Chi-square (df=1)	24.26	p= .0000	

WP V YM	Column 1	Column 2	Row
Frequen., WP	93	8576	8669
% of total	.697%	<u>64.302%</u>	65.000%
Frequen., YM	34	4634	4668
% of total	.255%	<u>34.745%</u>	35.000%
Column totals	127	13210	13337
% of total	.952%	<u>99.048%</u>	
Chi-square (df=1)	3.82	p= .0508	

Table AP 10.3: Continued.

HCW V YM	Column 1	Column 2	Row
Frequen., HCW	49	1925	1974
% of total	.738%	<u>28.982%</u>	29.720%
Frequen., YM	34	4634	4668
% of total	.512%	<u>69.768%</u>	70.280%
Column totals	83	6559	6642
% of total	1.250%	<u>98.750%</u>	
Chi-square (df=1)	34.58	p= .0000	

Table AP 10.4: Chi Square comparisons for differences in outliers amongst subadults from specific sites. (BF=Blackfriars, CH=Chichester, FG=Fishergate, HE=Hereford, HK=Hickleton, SH=St. Helen's, WP=Wharram Percy, HCW=Wolverhampton, and YM=York Minster).

BF V CH	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.256%	<u>21.648%</u>	21.904%
Frequen., CH	36	1490	1526
% of total	1.842%	<u>76.254%</u>	78.096%
Column totals	41	1913	1954
% of total	2.098%	<u>97.902%</u>	
Chi-square (df=1)	2.31	p= .1288	

BF V FG	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.249%	<u>21.087%</u>	21.336%
Frequen., FG	32	1546	1578
% of total	1.595%	<u>77.069%</u>	78.664%
Column totals	37	1969	2006
% of total	1.844%	<u>98.156%</u>	
Chi-square (df=1)	1.37	p= .2411	

BF V HE	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.271%	<u>22.914%</u>	23.185%
Frequen., HE	22	1396	1418
% of total	1.192%	<u>75.623%</u>	76.815%
Column totals	27	1819	1846
% of total	1.463%	<u>98.537%</u>	
Chi-square (df=1)	.34	p= .5627	

BF V HK	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.663%	<u>56.101%</u>	56.764%
Frequen., HK	9	317	326
% of total	1.194%	<u>42.042%</u>	43.236%
Column totals	14	740	754
% of total	1.857%	<u>98.143%</u>	
Chi-square (df=1)	2.58	p= .1085	

Table AP 10.4: Continued.

BF V SH	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.181%	<u>15.271%</u>	15.451%
Frequen., SH	23	2319	2342
% of total	.830%	<u>83.718%</u>	84.549%
Column totals	28	2742	2770
% of total	1.011%	<u>98.989%</u>	
Chi-square (df=1)	.13	p= .7233	

BF V WP	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.112%	<u>9.512%</u>	9.624%
Frequen., WP	47	3972	4019
% of total	1.057%	<u>89.319%</u>	90.376%
Column totals	52	4395	4447
% of total	1.169%	<u>98.831%</u>	
Chi-square (df=1)	.00	p= .9982	

BF V HCW	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.464%	<u>39.276%</u>	39.740%
Frequen., HCW	49	600	649
% of total	4.550%	<u>55.710%</u>	60.260%
Column totals	54	1023	1077
% of total	5.014%	<u>94.986%</u>	
Chi-square (df=1)	22.06	p= .0000	

BF V YM	Column 1	Column 2	Row
Frequen., BF	5	423	428
% of total	.404%	<u>34.140%</u>	34.544%
Frequen., YM	3	808	811
% of total	.242%	<u>65.214%</u>	65.456%
Column totals	8	1231	1239
% of total	.646%	<u>99.354%</u>	
Chi-square (df=1)	2.78	p= .0953	

CH V FG	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	1.160%	<u>48.003%</u>	49.162%
Frequen., FG	32	1546	1578
% of total	1.031%	<u>49.807%</u>	50.838%
Column totals	68	3036	3104
% of total	2.191%	<u>97.809%</u>	
Chi-square (df=1)	.40	p= .5285	

CH V HE	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	1.223%	<u>50.611%</u>	51.834%
Frequen., HE	22	1396	1418
% of total	.747%	<u>47.418%</u>	48.166%
Column totals	58	2886	2944
% of total	1.970%	<u>98.030%</u>	
Chi-square (df=1)	2.48	p= .1151	

CH V HK	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	1.944%	<u>80.454%</u>	82.397%
Frequen., HK	9	317	326
% of total	.486%	<u>17.117%</u>	17.603%
Column totals	45	1807	1852
% of total	2.430%	<u>97.570%</u>	
Chi-square (df=1)	.18	p= .6690	

CH V SH	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	.931%	<u>38.521%</u>	39.452%
Frequen., SH	23	2319	2342
% of total	.595%	<u>59.953%</u>	60.548%
Column totals	59	3809	3868
% of total	1.525%	<u>98.475%</u>	
Chi-square (df=1)	11.66	p= .0006	

Table AP 10.4: Continued.

CH V WP	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	.649%	<u>26.871%</u>	27.520%
Frequen., WP	47	3972	4019
% of total	.848%	<u>71.632%</u>	72.480%
Column totals	83	5462	5545
% of total	1.497%	<u>98.503%</u>	
Chi-square (df=1)	10.62	P= .0011	

CH V HCW	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	1.655%	<u>68.506%</u>	70.161%
Frequen., HCW	49	600	649
% of total	2.253%	<u>27.586%</u>	29.839%
Column totals	85	2090	2175
% of total	3.908%	<u>96.092%</u>	
Chi-square (df=1)	32.67	p= .0000	

CH V YM	Column 1	Column 2	Row
Frequen., CH	36	1490	1526
% of total	1.540%	<u>63.757%</u>	65.297%
Frequen., YM	3	808	811
% of total	.128%	<u>34.574%</u>	34.703%
Column totals	39	2298	2337
% of total	1.669%	<u>98.331%</u>	
Chi-square (df=1)	12.77	P= .0004	

FG V HE	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	1.068%	<u>51.602%</u>	52.670%
Frequen., HE	22	1396	1418
% of total	.734%	<u>46.595%</u>	47.330%
Column totals	54	2942	2996
% of total	1.802%	<u>98.198%</u>	
Chi-square (df=1)	.96	p= .3278	

FG V HK	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	1.681%	<u>81.197%</u>	82.878%
Frequen., HK	9	317	326
% of total	.473%	<u>16.649%</u>	17.122%
Column totals	41	1863	1904
% of total	2.153%	<u>97.847%</u>	
Chi-square (df=1)	.69	p= .4066	

FG V SH	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	.816%	<u>39.439%</u>	40.255%
Frequen., SH	23	2319	2342
% of total	.587%	<u>59.158%</u>	59.745%
Column totals	55	3865	3920
% of total	1.403%	<u>98.597%</u>	
Chi-square (df=1)	7.45	p= .0063	

FG V WP	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	.572%	<u>27.622%</u>	28.194%
Frequen., WP	47	3972	4019
% of total	.840%	<u>70.967%</u>	71.806%
Column totals	79	5518	5597
% of total	1.411%	<u>98.589%</u>	
Chi-square (df=1)	6.00	p= .0143	

FG V HCW	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	1.437%	<u>69.421%</u>	70.858%
Frequen., HCW	49	600	649
% of total	2.200%	<u>26.942%</u>	29.142%
Column totals	81	2146	2227
% of total	3.637%	<u>96.363%</u>	
Chi-square (df=1)	40.01	p= .0000	

Table AP 10.4: Continued.

FG V YM	Column 1	Column 2	Row
Frequen., FG	32	1546	1578
% of total	1.339%	<u>64.713%</u>	66.053%
Frequen., YM	3	808	811
% of total	.126%	<u>33.822%</u>	33.947%
Column totals	35	2354	2389
% of total	1.465%	<u>98.535%</u>	
Chi-square (df=1)	10.20	p= .0014	

HE V HK	Column 1	Column 2	Row
Frequen., HE	22	1396	1418
% of total	1.261%	<u>80.046%</u>	81.307%
Frequen., HK	9	317	326
% of total	.516%	<u>18.177%</u>	18.693%
Column totals	31	1713	1744
% of total	1.778%	<u>98.222%</u>	
Chi-square (df=1)	2.22	p= .1362	

HE V SH	Column 1	Column 2	Row
Frequen., HE	22	1396	1418
% of total	.585%	<u>37.128%</u>	37.713%
Frequen., SH	23	2319	2342
% of total	.612%	<u>61.676%</u>	62.287%
Column totals	45	3715	3760
% of total	1.197%	<u>98.803%</u>	
Chi-square (df=1)	2.42	p= .1197	

HE V WP	Column 1	Column 2	Row
Frequen., HE	22	1396	1418
% of total	.405%	<u>25.676%</u>	26.081%
Frequen., WP	47	3972	4019
% of total	.864%	<u>73.055%</u>	73.919%
Column totals	69	5368	5437
% of total	1.269%	<u>98.731%</u>	
Chi-square (df=1)	1.22	p= .2692	

HE V HCW	Column 1	Column 2	Row
Frequen., HE	22	1396	1418
% of total	1.064%	<u>67.537%</u>	68.602%
Frequen., HCW	49	600	649
% of total	2.371%	<u>29.028%</u>	31.398%
Column totals	71	1996	2067
% of total	3.435%	<u>96.565%</u>	
Chi-square (df=1)	48.30	p= .0000	

HE V YM	Column 1	Column 2	Row
Frequen., HE	22	1396	1418
% of total	.987%	<u>62.629%</u>	63.616%
Frequen., YM	3	808	811
% of total	.135%	<u>36.249%</u>	36.384%
Column totals	25	2204	2229
% of total	1.122%	<u>98.878%</u>	
Chi-square (df=1)	6.49	p= .0108	

HK V SH	Column 1	Column 2	Row
Frequen., HK	9	317	326
% of total	.337%	<u>11.882%</u>	12.219%
Frequen., SH	23	2319	2342
% of total	.862%	<u>86.919%</u>	87.781%
Column totals	32	2636	2668
% of total	1.199%	<u>98.801%</u>	
Chi-square (df=1)	7.64	p= .0057	

HK V WP	Column 1	Column 2	Row
Frequen., HK	9	317	326
% of total	.207%	<u>7.296%</u>	7.503%
Frequen., WP	47	3972	4019
% of total	1.082%	<u>91.415%</u>	92.497%
Column totals	56	4289	4345
% of total	1.289%	<u>98.711%</u>	
Chi-square (df=1)	6.00	p= .0143	

Table AP 10.4: Continued.

HK V HCW	Column 1	Column 2	Row
Frequen., HK	9	317	326
% of total	.923%	<u>32.513%</u>	33.436%
Frequen., HCW	49	600	649
% of total	5.026%	<u>61.538%</u>	66.564%
Column totals	58	917	975
% of total	5.949%	<u>94.051%</u>	
Chi-square (df=1)	8.90	P= .0029	

HK V YM	Column 1	Column 2	Row
Frequen., HK	9	317	326
% of total	.792%	<u>27.880%</u>	28.672%
Frequen., YM	3	808	811
% of total	.264%	<u>71.064%</u>	71.328%
Column totals	12	1125	1137
% of total	1.055%	<u>98.945%</u>	
Chi-square (df=1)	12.73	p= .0004	

SH V WP	Column 1	Column 2	Row
Frequen., SH	23	2319	2342
% of total	.362%	<u>36.457%</u>	36.818%
Frequen., WP	47	3972	4019
% of total	.739%	<u>62.443%</u>	63.182%
Column totals	70	6291	6361
% of total	1.100%	<u>98.900%</u>	
Chi-square (df=1)	.48	p= .4896	

SH V HCW	Column 1	Column 2	Row
Frequen., SH	23	2319	2342
% of total	.769%	<u>77.533%</u>	78.302%
Frequen., HCW	49	600	649
% of total	1.638%	<u>20.060%</u>	21.698%
Column totals	72	2919	2991
% of total	2.407%	<u>97.593%</u>	
Chi-square (df=1)	93.31	p=0.0000	

SH V YM	Column 1	Column 2	Row
Frequen., SH	23	2319	2342
% of total	.729%	<u>73.549%</u>	74.278%
Frequen., YM	3	808	811
% of total	.095%	<u>25.626%</u>	25.722%
Column totals	26	3127	3153
% of total	.825%	<u>99.175%</u>	
Chi-square (df=1)	2.76	p= .0966	

WP V HCW	Column 1	Column 2	Row
Frequen., WP	47	3972	4019
% of total	1.007%	<u>85.090%</u>	86.097%
Frequen., HCW	49	600	649
% of total	1.050%	<u>12.853%</u>	13.903%
Column totals	96	4572	4668
% of total	2.057%	<u>97.943%</u>	
Chi-square (df=1)	112.94	p=0.0000	

WP V YM	Column 1	Column 2	Row
Frequen., WP	47	3972	4019
% of total	.973%	<u>82.236%</u>	83.209%
Frequen., YM	3	808	811
% of total	.062%	<u>16.729%</u>	16.791%
Column totals	50	4780	4830
% of total	1.035%	<u>98.965%</u>	
Chi-square (df=1)	4.21	p= .0402	

HCW V YM	Column 1	Column 2	Row
Frequen., HCW	49	600	649
% of total	3.356%	<u>41.096%</u>	44.452%
Frequen., YM	3	808	811
% of total	.205%	<u>55.342%</u>	55.548%
Column totals	52	1408	1460
% of total	3.562%	<u>96.438%</u>	
Chi-square (df=1)	54.11	p= .0000	

Table AP 10.5: Chi Square comparisons for differences in outliers amongst adults from specific settlement types. (U=Urban, R=Rural, and H=Hospital).

U V R	Column 1	Column 2	Row	U V H	Column 1	Column 2	Row
Frequen., U	343	33795	34138	Frequen., U	343	33795	34138
% of total	.737%	<u>72.596%</u>	73.333%	% of total	.789%	<u>77.767%</u>	78.556%
Frequen., R	142	12272	12414	Frequen., H	103	9216	9319
% of total	.305%	<u>26.362%</u>	26.667%	% of total	.237%	<u>21.207%</u>	21.444%
Column totals	485	46067	46552	Column totals	446	43011	43457
% of total	1.042%	<u>98.958%</u>		% of total	1.026%	<u>98.974%</u>	
Chi-square (df=1)	1.71	p= .1911		Chi-square (df=1)	.73	p= .3935	

R V H	Column 1	Column 2	Row
Frequen., R	142	12272	12414
% of total	.653%	<u>56.467%</u>	57.121%
Frequen., H	103	9216	9319
% of total	.474%	<u>42.406%</u>	42.879%
Column totals	245	21488	21733
% of total	1.127%	<u>98.873%</u>	
Chi-square (df=1)	.07	p= .7897	

Table AP 10.6: Chi Square comparisons for differences in outliers amongst subadults from specific settlement types. (U=Urban, R=Rural, and H=Hospital).

U V R	Column 1	Column 2	Row	U V H	Column 1	Column 2	Row
Frequen., U	144	7092	7236	Frequen., U	144	7092	7236
% of total	1.235%	<u>60.834%</u>	62.069%	% of total	1.643%	<u>80.940%</u>	82.584%
Frequen., R	52	4370	4422	Frequen., H	36	1490	1526
% of total	.446%	<u>37.485%</u>	37.931%	% of total	.411%	<u>17.005%</u>	17.416%
Column totals	196	11462	11658	Column totals	180	8582	8762
% of total	1.681%	<u>98.319%</u>		% of total	2.054%	<u>97.946%</u>	
Chi-square (df=1)	11.01	p= .0009		Chi-square (df=1)	.85	p= .3557	

R V H	Column 1	Column 2	Row
Frequen., R	52	4370	4422
% of total	.874%	<u>73.470%</u>	74.344%
Frequen., H	36	1490	1526
% of total	.605%	<u>25.050%</u>	25.656%
Column totals	88	5860	5948
% of total	1.479%	<u>98.521%</u>	
Chi-square (df=1)	10.90	p= .0010	

Table AP 10.7: Chi Square comparisons for differences in outliers amongst adults from specific periods. (AS=Anglo-Saxon, M=Medieval, and PM=Post Medieval).

AS V M	Column 1	Column 2	Row	AS V PM	Column 1	Column 2	Row
Frequen., AS	32	4320	4352	Frequen., AS	32	4320	4352
% of total	.072%	<u>9.715%</u>	9.787%	% of total	.277%	<u>37.373%</u>	37.650%
Frequen., M	404	39711	40115	Frequen., PM	116	7091	7207
% of total	.909%	<u>89.304%</u>	90.213%	% of total	1.004%	<u>61.346%</u>	62.350%
Column totals	436	44031	44467	Column totals	148	11411	11559
% of total	.981%	<u>99.020%</u>		% of total	1.280%	<u>98.720%</u>	
Chi-square (df=1)	2.99	p= .0839		Chi-square (df=1)	16.41	p= .0001	

M V PM	Column 1	Column 2	Row
Frequen., M	404	39711	40115
% of total	.854%	<u>83.917%</u>	84.770%
Frequen., PM	116	7091	7207
% of total	.245%	<u>14.985%</u>	15.230%
Column totals	520	46802	47322
% of total	1.099%	<u>98.901%</u>	
Chi-square (df=1)	20.40	p= .0000	

Table AP 10.8: Chi Square comparisons for differences in outliers amongst adults from specific periods. (AS=Anglo-Saxon, M=Medieval, and PM=Post Medieval).

AS V M	Column 1	Column 2	Row	AS V PM	Column 1	Column 2	Row
Frequen., AS	9	632	641	Frequen., AS	9	632	641
% of total	.113%	<u>7.940%</u>	8.053%	% of total	.429%	<u>30.110%</u>	30.538%
Frequen., M	118	7201	7319	Frequen., PM	66	1392	1458
% of total	1.482%	<u>90.465%</u>	91.947%	% of total	3.144%	<u>66.317%</u>	69.462%
Column totals	127	7833	7960	Column totals	75	2024	2099
% of total	1.595%	<u>98.405%</u>		% of total	3.573%	<u>96.427%</u>	
Chi-square (df=1)	.16	p= .6867		Chi-square (df=1)	12.60	p= .0004	

M V PM	Column 1	Column 2	Row
Frequen., M	118	7201	7319
% of total	1.344%	<u>82.044%</u>	83.388%
Frequen., PM	66	1392	1458
% of total	.752%	<u>15.860%</u>	16.612%
Column totals	184	8593	8777
% of total	2.096%	<u>97.904%</u>	
Chi-square (df=1)	50.32	p= .0000	