

表12. 人工歯排列の上顎計測データ (1/3)

受験者 番号	上顎								
	左側3番 (Left 3)						左側2番 (Left 2)		
	遠心			切端			切端		
	1			2			3		
	X	Y	Z	X	Y	Z	X	Y	Z
004	59.77	-12.99	1.86	58.04	-16.75	0.72	52.06	-21.02	1.06
009	60.02	-12.76	2.14	58.20	-16.62	0.97	52.87	-21.21	1.24
010	60.10	-13.93	2.48	58.61	-17.70	0.24	52.63	-21.99	0.96
012	59.69	-12.11	2.07	57.75	-16.14	0.37	52.59	-20.24	1.35
013	59.84	-12.87	2.15	58.61	-17.05	0.59	53.15	-20.98	1.03
015	59.74	-12.79	1.79	57.99	-16.95	0.16	52.49	-21.21	0.95
020	60.06	-12.48	1.75	58.56	-15.84	0.05	53.08	-20.85	1.02
023	60.05	-12.80	3.06	58.31	-16.54	0.55	52.60	-21.09	0.90
024	60.00	-13.07	3.07	58.28	-17.24	0.71	52.57	-21.30	1.07
026	61.06	-14.80	3.26	58.86	-18.40	0.90	52.92	-22.49	1.90
027	60.16	-13.41	2.34	58.69	-17.27	0.18	52.98	-21.57	0.62
031	60.25	-12.06	2.58	59.02	-17.07	0.69	53.32	-21.12	1.30
033	58.79	-13.18	2.67	57.54	-17.16	0.37	51.30	-21.43	0.85
040	60.06	-13.70	2.55	58.32	-16.95	0.47	52.82	-21.71	1.22
045	59.97	-12.57	2.33	58.76	-16.55	0.70	53.05	-21.11	1.64
048	60.37	-13.46	1.53	58.90	-17.24	-0.29	53.20	-21.55	0.44
049	59.80	-13.71	2.69	58.49	-17.52	0.75	52.44	-21.70	1.25
055	59.72	-12.25	3.05	58.49	-16.52	0.88	52.77	-21.29	1.66
057	60.00	-12.33	2.38	58.52	-15.86	0.64	52.81	-20.40	1.27
059	60.31	-13.31	2.28	58.56	-16.69	0.68	53.07	-21.20	1.62
062	60.92	-13.67	2.45	59.20	-17.28	0.63	53.25	-21.83	1.45
074	60.66	-12.83	1.77	59.18	-16.57	0.22	52.72	-20.88	0.47
105	59.85	-12.31	2.14	58.35	-16.25	0.64	52.62	-20.88	0.90
108	60.32	-13.26	2.50	58.58	-17.45	0.02	52.57	-21.20	0.18
111	60.36	-12.99	1.78	58.59	-16.66	-0.56	52.35	-20.92	-0.01
117	59.48	-13.44	2.26	58.05	-17.07	-0.09	52.61	-21.65	0.61
120	59.27	-13.38	2.27	58.20	-16.81	0.21	52.10	-21.69	0.45
128	60.88	-12.77	2.56	59.13	-17.01	0.27	52.90	-21.28	0.63
147	60.07	-12.50	1.93	58.57	-16.78	-0.10	52.59	-20.80	0.45
163	60.23	-12.77	2.60	58.50	-16.73	1.19	52.52	-20.26	1.41
169	60.05	-13.20	1.45	58.44	-17.25	-0.60	52.34	-21.37	-0.61
178	60.24	-12.63	2.33	58.23	-17.08	-0.56	52.25	-20.60	-0.16
185	60.00	-13.05	3.41	58.29	-17.07	1.32	52.59	-21.63	1.83
202	60.14	-12.55	2.76	58.40	-16.33	0.91	52.70	-21.13	1.63
209	60.00	-13.09	2.71	58.52	-17.33	0.98	52.81	-21.89	1.12
212	60.22	-13.67	2.14	58.71	-17.44	0.15	52.98	-22.45	1.59
213	60.15	-11.99	2.13	58.60	-15.99	0.46	52.32	-19.68	0.87
216	59.65	-12.82	2.55	57.82	-16.08	0.87	51.97	-20.45	1.14
226	59.57	-15.16	2.71	57.79	-19.16	1.23	51.78	-22.37	2.42
227	60.43	-13.83	2.85	58.58	-17.16	0.76	52.98	-21.54	0.94
230	60.42	-14.62	1.56	58.90	-18.21	-0.09	53.15	-22.20	0.46
232	59.72	-14.29	3.55	57.71	-17.82	1.83	52.47	-22.08	2.28
233	60.43	-13.70	2.48	58.92	-18.00	0.86	52.92	-21.74	1.18
237	59.92	-14.40	2.74	58.43	-17.75	1.06	52.21	-22.03	1.15
245	59.98	-12.82	2.10	58.74	-16.77	0.34	53.02	-21.05	1.03
247	59.79	-13.39	2.54	58.30	-17.24	1.03	52.82	-21.27	1.34
269	59.66	-13.36	2.61	58.07	-17.10	1.19	52.47	-21.48	1.38
276	59.23	-13.86	2.25	57.74	-17.47	0.82	52.02	-22.08	1.32
289	60.06	-12.86	2.90	58.21	-16.74	0.97	52.62	-20.86	1.49
290	60.41	-13.82	1.13	58.94	-17.72	-1.01	52.73	-21.77	-0.61
302	60.36	-14.18	2.66	58.62	-17.77	1.35	52.64	-22.05	1.67
304	60.50	-14.10	0.40	59.26	-18.03	-1.30	53.27	-22.06	-1.50
307	60.17	-14.37	1.92	58.43	-18.68	-0.09	52.68	-22.44	1.08
308	60.42	-15.72	-0.22	58.60	-19.99	-2.01	52.80	-24.40	-1.03
311	59.85	-13.01	1.53	58.32	-17.52	-0.05	52.56	-21.49	0.72
314	60.81	-15.10	0.02	59.32	-19.51	-1.95	53.11	-23.54	-0.35
315	60.35	-15.41	0.73	59.03	-19.54	-1.16	52.98	-23.46	-0.54
330	60.81	-13.25	1.71	59.08	-16.50	-0.22	53.60	-21.27	0.39
331	59.80	-13.56	2.35	58.24	-17.84	0.21	52.70	-21.53	0.84
332	59.24	-13.15	2.38	57.49	-16.49	0.67	51.52	-21.02	1.03
336	59.83	-13.22	1.87	58.84	-17.05	0.36	52.87	-21.83	1.36
337	59.50	-13.24	2.10	57.74	-17.04	0.47	52.03	-21.31	1.35
344	59.57	-12.92	2.25	57.80	-15.96	0.63	51.81	-19.46	0.79
351	59.78	-14.27	2.73	58.33	-18.61	0.69	52.14	-22.21	1.22
353	59.18	-14.10	3.49	57.91	-18.49	1.31	51.91	-21.73	1.67
354	60.26	-13.66	3.05	58.46	-18.02	0.91	52.68	-21.97	1.01
357	59.60	-13.78	2.71	57.86	-17.23	0.86	52.61	-21.82	1.50
360	59.26	-12.86	2.23	58.23	-16.42	0.84	51.95	-20.58	0.86
361	59.03	-12.77	2.64	58.06	-16.58	0.65	52.57	-21.09	1.32
250	59.67	-13.49	2.90	58.38	-17.67	1.36	52.60	-21.88	1.68
268	60.30	-13.08	2.36	58.80	-16.81	-0.15	52.85	-21.87	0.30

人工歯排列の上顎計測データ (2/3)

受験者 番号	上顎								
	左側1番 (Left 1)								
	切端			唇側歯基下点			舌側歯基下点		
	4			5			6		
	X	Y	Z	X	Y	Z	X	Y	Z
004	45.32	-24.30	0.56	45.08	-20.26	10.40	45.06	-21.58	2.53
009	45.82	-23.65	1.09	46.10	-21.50	11.49	45.40	-19.20	4.59
010	45.65	-25.27	0.62	45.95	-22.86	11.21	44.90	-20.44	5.02
012	45.38	-23.12	0.38	45.93	-21.92	10.02	44.57	-17.92	5.54
013	46.17	-23.90	0.59	46.71	-21.95	10.86	45.91	-20.98	3.47
015	45.24	-23.71	0.95	45.75	-20.31	11.02	44.75	-18.48	4.57
020	45.84	-23.62	0.80	46.37	-21.98	10.60	45.34	-18.42	4.87
023	45.12	-23.90	0.36	45.44	-22.49	10.00	45.12	-18.75	4.91
024	45.09	-23.63	0.73	45.64	-22.22	10.90	45.07	-18.64	5.33
026	45.93	-23.83	1.32	46.44	-23.73	12.06	45.65	-21.19	5.45
027	45.75	-23.89	0.58	46.26	-22.59	10.87	45.22	-19.67	3.92
031	46.33	-23.18	0.90	46.41	-21.32	11.16	45.58	-19.92	3.98
033	44.05	-23.69	0.55	44.86	-23.18	10.77	43.82	-19.09	5.25
040	45.57	-24.21	0.75	45.77	-22.85	11.15	45.30	-20.82	4.60
045	45.83	-23.93	0.82	46.07	-21.61	11.04	45.53	-18.41	5.19
048	45.98	-24.13	0.22	46.24	-21.47	10.24	45.18	-18.21	4.39
049	45.14	-24.85	1.15	45.74	-22.11	11.26	45.25	-18.88	4.89
055	45.78	-23.83	1.20	45.74	-21.05	11.41	45.24	-17.76	6.17
057	45.59	-23.71	0.91	45.86	-22.29	10.05	45.56	-18.43	5.35
059	45.57	-24.21	1.08	45.58	-21.27	10.13	44.82	-18.40	4.53
062	46.02	-24.40	1.56	46.03	-21.89	10.20	45.72	-18.09	5.06
074	46.00	-23.69	0.52	46.79	-21.76	10.79	45.98	-18.41	5.20
105	45.88	-23.79	0.65	45.95	-20.13	11.95	44.90	-16.54	6.81
108	45.82	-23.94	-0.49	45.79	-21.63	10.07	45.56	-20.20	3.35
111	45.09	-23.68	-0.41	45.21	-21.55	9.83	44.65	-17.02	4.57
117	45.15	-24.50	-0.11	45.57	-23.30	10.06	45.03	-18.38	5.45
120	45.30	-24.30	-0.05	45.62	-22.47	10.49	44.39	-19.65	1.44
128	45.91	-24.05	-0.06	45.44	-22.12	10.11	45.41	-19.19	4.05
147	45.59	-23.58	-0.24	45.65	-21.23	9.88	45.10	-17.85	4.65
163	45.53	-23.05	1.24	45.77	-20.70	11.29	44.75	-16.62	6.37
169	45.27	-24.20	-0.61	44.92	-21.90	8.72	44.44	-18.61	3.45
178	45.25	-23.63	-0.53	45.58	-21.84	9.94	44.77	-18.99	3.87
185	44.86	-23.70	1.47	45.32	-21.76	11.79	44.53	-17.00	7.20
202	45.72	-24.19	1.35	45.79	-22.04	10.28	45.47	-18.75	5.82
209	45.58	-24.21	0.75	45.91	-22.31	10.63	45.08	-18.90	5.45
212	45.98	-24.46	0.75	46.30	-23.68	11.28	45.51	-19.54	6.64
213	45.05	-22.11	1.02	45.60	-21.94	10.60	44.38	-16.78	6.23
216	45.17	-22.29	0.70	44.99	-21.51	11.53	44.31	-17.59	7.05
226	44.52	-24.84	1.83	45.30	-23.39	11.71	44.56	-19.43	7.59
227	45.92	-24.13	0.30	45.49	-24.16	9.27	44.86	-17.94	7.41
230	45.90	-24.69	0.50	45.95	-22.92	9.95	44.94	-16.40	6.38
232	45.23	-24.60	2.08	45.07	-23.47	11.39	44.26	-19.92	6.59
233	45.92	-23.74	1.06	45.47	-23.07	10.94	45.70	-18.95	6.12
237	45.47	-24.57	1.02	45.99	-24.11	10.65	44.45	-18.62	6.59
245	46.03	-23.84	1.15	46.09	-22.84	10.70	45.29	-18.33	7.28
247	45.84	-24.55	1.16	45.87	-22.39	11.37	44.83	-19.52	5.81
269	45.40	-24.32	1.02	45.20	-23.98	9.98	44.78	-19.46	6.00
276	45.03	-24.79	1.08	45.59	-23.39	9.88	44.78	-19.31	5.63
289	45.80	-23.96	1.18	46.10	-22.86	11.79	44.92	-19.06	6.70
290	45.50	-24.58	-1.13	45.48	-22.23	9.60	43.95	-18.60	6.43
302	45.65	-24.59	1.18	45.69	-21.82	11.51	45.15	-18.87	6.33
304	46.03	-24.35	-1.95	46.35	-21.70	7.52	45.79	-19.04	1.90
307	45.69	-25.21	0.95	44.94	-22.35	10.83	45.43	-18.97	3.21
308	45.53	-26.06	-0.88	46.13	-22.49	8.81	45.43	-17.24	5.55
311	45.80	-24.48	-0.11	45.87	-22.92	9.51	45.60	-18.91	4.51
314	45.62	-25.58	-0.28	46.69	-21.48	9.16	45.12	-20.00	2.88
315	45.94	-26.11	-0.95	45.57	-23.12	9.35	45.31	-20.55	3.66
330	46.36	-23.81	-0.04	46.11	-21.99	10.76	46.34	-18.47	4.75
331	45.92	-24.21	0.34	45.75	-23.01	10.54	45.51	-19.23	5.20
332	44.28	-23.80	0.78	44.88	-21.80	11.07	44.06	-18.14	6.05
336	45.63	-24.87	1.03	46.20	-21.10	9.75	45.88	-18.74	3.93
337	45.04	-24.35	1.02	45.16	-21.96	10.76	44.82	-18.50	5.38
344	45.05	-22.31	-0.31	45.88	-22.85	9.70	45.09	-19.01	4.86
351	45.18	-25.07	0.92	45.74	-22.78	11.35	44.63	-19.38	5.64
353	44.65	-24.74	1.28	44.52	-23.39	11.63	44.45	-19.96	5.06
354	45.65	-24.65	0.74	45.69	-23.19	10.56	45.19	-20.99	4.54
357	45.36	-24.48	1.51	45.58	-23.45	10.74	45.10	-19.71	4.79
360	44.94	-22.83	0.85	44.98	-22.33	10.98	44.24	-18.27	6.42
361	45.09	-24.37	0.95	45.02	-22.37	10.78	44.79	-18.49	5.42
250	44.83	-24.34	1.27	45.20	-23.40	11.67	44.66	-19.85	6.06
268	46.12	-24.42	-0.03	46.48	-22.83	10.31	45.88	-19.25	4.96

人工歯排列の上顎計測データ (3/3)

受験者 番号	上顎											
	右側1番 (Right 1)			右側2番 (Right 2)			右側3番 (Right 3)					
	切端			切端			切端			遠心		
	7			8			9			10		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
004	36.57	-24.34	0.63	30.06	-21.12	1.41	24.29	-16.40	1.15	22.77	-12.63	2.40
009	37.58	-23.26	1.28	30.36	-21.13	1.96	24.44	-16.92	1.72	22.76	-12.94	3.31
010	37.39	-24.46	0.21	30.63	-21.84	0.93	24.61	-17.62	0.60	22.85	-13.23	3.24
012	36.89	-23.12	0.75	30.09	-20.34	1.78	24.51	-16.28	1.38	22.69	-12.34	3.30
013	37.17	-23.48	0.88	30.40	-21.04	1.47	24.86	-16.83	1.34	22.84	-13.11	2.66
015	36.99	-23.46	1.33	30.24	-21.02	1.53	23.99	-16.20	0.89	22.25	-12.46	2.91
020	37.59	-23.55	0.82	30.33	-20.66	1.39	24.57	-15.67	1.33	22.57	-12.13	3.20
023	36.62	-23.47	0.50	29.36	-21.05	1.57	23.81	-16.34	1.02	22.54	-12.50	2.33
024	36.84	-23.46	1.08	30.07	-20.54	1.76	24.02	-16.10	1.49	22.48	-11.83	2.76
026	37.68	-23.94	1.57	30.40	-21.54	1.98	24.10	-18.12	1.67	22.55	-13.67	3.86
027	37.49	-23.47	1.02	30.47	-20.78	1.20	24.67	-15.83	0.67	23.39	-11.98	2.82
031	38.08	-23.01	1.03	30.57	-21.32	1.93	24.53	-16.88	1.60	23.25	-12.44	3.25
033	35.80	-23.21	1.17	29.30	-20.23	1.80	23.29	-16.48	1.20	21.29	-12.75	2.46
040	37.57	-23.96	0.86	30.32	-21.47	1.60	24.32	-16.97	1.01	22.30	-13.41	3.47
045	37.58	-24.00	0.97	30.30	-21.33	1.92	24.01	-16.88	1.39	22.22	-12.40	3.27
048	37.73	-24.22	0.41	30.45	-21.54	0.66	24.41	-17.85	0.32	22.87	-13.24	2.12
049	37.15	-24.50	1.29	30.19	-21.16	1.54	24.00	-16.82	1.47	22.81	-13.07	2.76
055	37.53	-23.37	1.18	30.26	-20.91	1.83	24.74	-16.69	1.48	22.97	-12.53	2.87
057	37.59	-23.77	1.09	30.57	-20.57	1.79	24.78	-16.62	1.56	23.25	-12.37	3.18
059	37.57	-23.73	1.15	29.82	-20.49	2.10	24.31	-16.00	1.39	22.56	-12.22	2.95
062	37.52	-24.48	1.67	30.50	-22.05	1.83	24.21	-17.61	1.42	23.42	-13.13	2.73
074	38.50	-23.76	0.66	31.23	-21.32	1.02	24.94	-16.88	0.96	23.16	-13.00	2.53
105	37.63	-23.83	0.64	30.87	-20.35	1.06	24.60	-16.13	0.97	23.60	-11.50	2.53
108	37.07	-23.94	-0.25	30.32	-20.69	0.49	24.82	-16.44	0.46	23.32	-12.19	2.29
111	36.85	-23.43	-0.08	30.35	-20.44	0.68	24.34	-15.95	0.00	22.61	-11.88	1.77
117	37.14	-23.87	0.03	29.85	-21.47	0.77	24.53	-16.55	0.91	23.46	-12.22	2.79
120	37.05	-24.14	0.04	30.11	-21.01	0.47	24.21	-15.89	0.24	22.79	-12.29	2.38
128	36.91	-24.09	0.25	29.90	-21.11	0.82	24.13	-16.63	0.37	22.63	-12.77	2.25
147	37.34	-23.10	-0.26	30.33	-20.12	0.38	24.82	-15.89	0.11	23.07	-11.55	2.21
163	37.03	-22.60	1.32	30.26	-19.38	1.75	24.50	-16.16	0.46	22.22	-12.15	2.12
169	37.27	-24.27	-0.56	30.35	-20.86	0.21	24.20	-16.47	-0.13	22.56	-12.33	1.79
178	37.00	-23.65	-0.24	29.75	-20.43	0.15	24.23	-15.95	-0.19	22.73	-11.60	1.80
185	36.60	-23.30	1.38	29.59	-21.60	2.19	24.03	-16.15	1.63	22.24	-12.34	3.33
202	37.47	-23.76	1.44	30.20	-20.82	2.46	24.65	-16.38	1.59	23.14	-12.82	3.01
209	37.33	-24.04	1.07	30.31	-21.35	1.55	24.52	-17.41	1.58	22.99	-12.59	2.91
212	37.23	-24.47	0.94	30.48	-21.99	1.82	24.22	-17.49	1.37	23.23	-13.18	3.25
213	37.05	-22.04	1.30	30.07	-19.72	1.65	24.10	-15.67	1.13	22.40	-11.90	2.77
216	36.67	-22.60	1.14	29.72	-20.18	1.30	23.81	-16.05	1.42	21.91	-12.22	2.98
226	36.27	-23.80	2.13	29.29	-20.76	2.66	23.55	-16.99	1.54	22.08	-12.98	3.00
227	37.68	-23.69	0.55	30.74	-21.04	1.40	24.58	-17.14	1.49	22.69	-13.06	3.23
230	37.65	-23.89	0.42	30.40	-21.42	0.84	24.91	-16.91	0.51	23.18	-12.96	2.98
232	36.98	-24.46	1.99	29.97	-21.38	2.58	24.22	-17.65	2.62	22.72	-13.73	4.00
233	37.42	-23.24	1.24	30.42	-21.23	1.35	24.17	-16.98	1.02	23.19	-12.82	3.59
237	37.22	-24.11	1.32	30.45	-21.39	1.29	24.43	-17.17	1.69	22.67	-13.51	3.89
245	37.78	-23.64	1.17	30.52	-21.18	1.45	24.50	-17.47	1.14	22.73	-13.47	2.79
247	37.58	-24.34	1.29	31.07	-21.38	1.82	24.80	-17.41	1.95	23.54	-13.36	3.55
269	37.41	-24.15	0.98	30.48	-20.99	1.21	25.07	-16.61	1.24	23.17	-12.40	2.95
276	37.03	-24.33	1.18	37.03	-24.33	1.18	30.26	-21.36	1.72	23.99	-17.15	1.35
289	37.56	-23.52	1.37	30.63	-20.37	1.82	25.22	-16.24	1.63	23.81	-12.24	2.85
290	37.50	-24.16	-1.12	30.72	-21.72	-0.17	24.69	-17.52	-0.36	23.65	-12.79	1.21
302	37.40	-23.98	1.55	30.64	-21.16	2.01	24.37	-17.44	1.60	23.35	-13.24	3.16
304	37.78	-24.39	-1.65	30.28	-22.17	-0.79	24.01	-18.20	-0.72	23.25	-13.73	0.90
307	37.44	-25.97	1.05	29.94	-23.23	1.11	24.18	-18.73	-0.08	23.42	-14.14	1.31
308	37.29	-24.95	-0.96	30.32	-22.86	-0.77	23.88	-17.78	-1.10	22.69	-13.87	0.74
311	37.30	-24.45	-0.21	30.57	-21.66	1.00	24.32	-17.65	0.26	22.85	-13.40	1.61
314	37.63	-25.88	0.28	30.12	-23.42	0.80	24.33	-18.96	-0.15	22.82	-14.34	1.89
315	37.45	-25.74	-1.02	30.99	-22.66	-0.64	24.54	-18.82	-0.42	22.62	-14.80	1.68
330	38.36	-23.47	-0.19	31.60	-20.88	0.52	25.08	-16.66	-0.21	23.06	-12.95	1.94
331	37.68	-23.37	0.23	30.45	-21.28	0.97	24.50	-16.47	0.73	23.31	-12.48	2.62
332	36.28	-23.34	0.81	29.27	-20.38	1.39	23.75	-16.15	1.44	22.24	-12.24	2.72
336	37.63	-24.16	1.22	30.12	-21.94	1.85	23.84	-17.23	0.76	23.09	-13.28	2.47
337	37.04	-24.39	1.14	29.79	-21.68	1.91	24.00	-16.96	0.83	22.75	-12.94	2.81
344	36.30	-22.73	0.17	29.81	-20.48	1.55	24.30	-16.72	0.62	22.81	-12.96	1.86
351	36.92	-24.45	1.01	30.12	-21.30	1.50	24.06	-17.65	1.32	22.51	-13.63	2.90
353	36.40	-23.98	1.30	29.66	-21.21	2.01	23.91	-17.21	1.61	22.18	-13.51	3.34
354	37.41	-24.33	1.02	30.43	-21.51	1.13	24.22	-16.96	1.16	22.76	-13.38	3.19
357	37.36	-24.12	1.22	30.11	-21.47	2.03	24.86	-16.48	1.67	22.85	-13.27	3.53
360	36.69	-22.83	1.15	29.46	-20.23	1.93	24.23	-15.70	1.46	22.76	-12.48	2.59
361	36.84	-24.16	1.25	30.07	-20.68	1.90	24.56	-16.46	1.00	22.78	-12.36	2.55
250	36.84	-24.04	1.43	30.11	-20.99	2.03	23.88	-16.71	1.62	22.68	-12.41	3.15
268	38.11	-24.44	-0.07	30.85	-22.07	0.67	25.56	-17.36	0.64	24.05	-12.87	3.00

人工歯排列の下顎計測データ (1/3)

受験者 番号	下顎								
	左側3番 (Left 3)						左側2番 (Left 2)		
	遠心			切端			切端		
	1			2			3		
	X	Y	Z	X	Y	Z	X	Y	Z
004	56.16	-14.83	1.67	53.67	-16.75	2.98	48.17	-18.53	3.09
009	57.18	-16.68	0.93	54.94	-18.63	2.23	50.21	-21.41	2.39
010	56.49	-14.53	1.31	55.31	-17.20	3.25	49.88	-20.60	2.76
012	56.75	-14.05	2.04	54.02	-15.84	5.00	49.10	-19.14	4.82
013	56.78	-14.61	1.21	54.59	-17.19	3.64	49.37	-19.75	3.47
015	56.46	-14.49	1.86	54.26	-16.48	3.55	49.33	-19.12	3.54
020	56.70	-14.45	1.88	54.72	-16.85	3.78	49.50	-19.55	3.88
023	56.38	-14.88	1.85	54.39	-16.32	3.15	49.39	-19.81	2.61
024	56.44	-14.24	2.21	54.21	-16.22	4.07	49.50	-19.32	3.51
026	56.42	-14.28	2.13	54.46	-16.60	4.36	49.76	-19.96	3.72
027	57.23	-14.91	1.89	54.99	-16.82	3.46	50.29	-20.38	3.46
031	55.76	-13.68	1.35	53.31	-16.09	3.71	48.35	-18.70	3.22
033	55.77	-15.86	0.61	52.61	-17.75	3.42	47.69	-19.75	3.18
040	56.57	-14.79	1.41	54.36	-17.11	3.60	49.40	-19.95	3.40
045	56.84	-15.00	1.20	55.10	-17.52	2.77	49.87	-20.32	2.60
048	57.14	-14.71	1.23	54.68	-17.15	2.96	49.97	-19.80	2.87
049	55.97	-14.20	1.03	54.01	-17.06	3.19	49.30	-19.95	3.76
055	56.21	-14.43	1.98	54.76	-16.70	3.35	49.56	-19.28	3.80
057	56.72	-14.27	1.43	54.28	-16.81	3.26	49.58	-19.36	3.45
059	56.98	-14.91	0.99	54.77	-17.17	2.95	49.55	-19.99	2.90
062	57.11	-14.79	1.91	55.37	-16.54	3.60	49.87	-20.07	3.47
074	56.71	-14.30	1.11	54.49	-16.89	2.92	49.27	-19.19	3.22
105	56.53	-14.27	0.62	54.57	-16.70	2.26	49.87	-19.78	2.24
108	56.05	-13.95	0.67	53.82	-16.46	2.37	49.35	-19.87	2.06
111	56.13	-14.70	0.24	54.16	-16.49	1.56	48.95	-19.47	1.61
117	56.12	-16.19	0.59	54.64	-17.67	1.45	49.67	-20.98	1.39
120	57.06	-15.19	1.32	54.82	-16.87	2.53	50.08	-20.03	2.58
128	55.49	-13.85	0.85	53.77	-15.96	2.23	48.82	-19.54	2.18
147	55.81	-13.68	1.71	53.35	-16.23	4.16	48.87	-19.76	2.83
163	55.86	-13.50	1.59	53.66	-16.04	4.39	48.42	-18.53	3.57
169	56.36	-14.40	0.91	53.86	-16.54	2.51	48.85	-19.55	2.29
178	56.30	-14.20	1.50	54.57	-16.10	3.04	49.35	-19.70	2.32
185	56.74	-15.85	0.73	54.53	-18.36	3.16	49.32	-21.21	3.03
202	57.06	-15.11	1.40	55.61	-17.85	3.18	50.41	-20.74	2.53
209	57.30	-15.14	0.29	55.54	-18.02	2.53	50.28	-20.52	2.28
212	57.26	-15.73	0.53	54.56	-18.18	2.76	49.85	-21.24	2.87
213	56.59	-14.66	1.30	54.12	-16.30	2.93	49.14	-19.13	2.49
216	56.50	-14.17	1.92	54.04	-16.03	4.03	48.57	-17.91	3.44
226	56.97	-16.08	0.99	54.98	-18.63	4.09	49.50	-20.86	4.14
227	57.02	-15.20	2.27	54.82	-17.76	3.96	49.86	-20.42	2.84
230	55.91	-15.50	-0.75	54.21	-18.53	2.50	49.24	-21.30	2.45
232	56.00	-16.02	0.91	54.02	-18.11	3.23	49.04	-20.91	3.41
233	56.58	-14.70	1.55	55.11	-16.78	3.42	49.64	-19.82	3.12
237	57.08	-14.58	1.95	54.85	-16.57	3.89	50.39	-19.63	3.46
245	56.95	-14.31	2.03	54.48	-16.76	4.04	49.24	-18.71	4.34
247	57.39	-15.92	0.94	55.00	-17.90	2.97	50.62	-20.78	2.64
269	56.72	-14.96	1.51	54.74	-17.49	3.39	49.50	-20.03	3.12
276	56.18	-14.36	1.06	54.49	-17.16	3.69	49.57	-20.58	2.90
289	56.26	-13.99	0.96	54.07	-16.69	2.99	49.14	-20.10	3.52
290	55.91	-14.54	1.32	53.44	-16.59	3.22	49.24	-20.19	2.65
302	56.63	-15.26	0.17	54.40	-17.70	2.07	49.43	-20.97	2.43
304	56.53	-14.58	0.64	54.54	-16.76	2.03	49.56	-19.55	1.78
307	56.69	-15.69	0.95	54.29	-17.46	2.64	49.47	-20.97	2.78
308	56.05	-14.94	0.77	53.32	-16.37	2.65	49.12	-20.91	2.92
311	56.23	-14.32	1.38	54.54	-16.80	2.97	49.61	-19.74	3.08
314	56.10	-16.39	1.17	53.63	-18.62	3.23	48.66	-21.47	2.87
315	55.05	-14.92	0.19	53.05	-17.75	3.01	48.30	-21.25	2.10
330	57.15	-14.89	1.27	54.70	-16.85	2.75	49.75	-20.30	2.61
331	56.65	-14.74	1.05	54.44	-16.71	2.55	49.48	-18.81	2.54
332	56.58	-14.19	1.09	53.88	-16.27	3.14	49.17	-19.40	2.79
336	55.90	-14.88	1.27	54.19	-17.53	3.20	49.48	-20.60	3.11
337	57.18	-14.43	1.87	54.47	-16.64	3.31	49.53	-20.33	3.16
344	56.40	-13.87	1.31	54.44	-16.81	2.87	49.21	-19.58	2.50
351	57.19	-16.39	0.52	54.73	-18.40	2.69	49.53	-21.00	2.66
353	57.14	-16.69	0.52	54.92	-19.10	2.63	49.45	-21.96	2.29
354	56.20	-14.50	1.35	54.48	-17.22	3.70	49.75	-20.26	3.62
357	55.88	-13.60	1.42	54.15	-16.43	4.49	49.41	-19.40	4.33
360	56.44	-14.40	1.40	53.96	-16.61	3.24	48.74	-19.06	3.09
361	56.61	-14.84	1.43	54.16	-16.93	3.26	49.48	-20.56	2.75
250	55.86	-13.94	1.68	53.85	-16.38	4.43	48.85	-19.91	4.16
268	56.13	-14.99	1.35	54.41	-17.52	3.72	49.45	-20.89	3.21

人工歯排列の下顎計測データ (2/3)

受験者 番号	下顎								
	左側1番 (Left 1)								
	切端			唇側歯茎下点			舌側歯茎下点		
	4			5			6		
	X	Y	Z	X	Y	Z	X	Y	Z
004	43.42	-20.20	2.87	43.85	-20.00	-5.12	43.13	-16.30	-2.60
009	44.97	-22.35	2.13	45.22	-22.60	-5.72	44.69	-18.90	-2.49
010	44.65	-21.66	2.81	44.62	-22.96	-5.52	44.59	-20.07	-0.79
012	44.13	-20.27	5.22	44.12	-18.58	0.04	44.50	-23.08	-3.07
013	44.14	-21.28	3.43	44.08	-21.62	-4.53	43.83	-18.93	-0.39
015	44.13	-20.94	3.82	44.36	-21.75	-4.44	43.78	-17.91	-0.85
020	44.26	-20.75	4.10	44.50	-21.07	-4.07	44.22	-17.32	-0.87
023	44.40	-21.14	2.60	44.08	-21.32	-5.44	43.84	-17.49	-2.94
024	44.26	-20.08	3.89	43.77	-21.24	-4.71	43.72	-16.99	-1.70
026	44.53	-21.52	3.95	44.26	-21.67	-4.63	43.96	-17.96	-1.60
027	45.31	-22.19	3.58	45.10	-21.98	-3.77	44.54	-18.49	-0.85
031	43.37	-19.99	2.99	43.85	-21.26	-5.43	43.30	-17.24	-2.60
033	42.46	-20.19	3.35	41.75	-21.94	-4.97	42.06	-17.43	-1.89
040	44.43	-21.40	3.49	44.39	-22.22	-4.68	43.84	-18.13	-2.28
045	44.38	-21.36	2.82	44.16	-22.23	-5.24	44.12	-18.21	-1.95
048	44.74	-21.06	3.00	44.46	-21.55	-4.41	44.42	-17.83	-0.96
049	44.32	-21.51	3.82	44.31	-21.72	-4.50	44.01	-17.97	-2.20
055	44.32	-20.21	4.11	44.33	-21.93	-4.44	44.02	-18.02	-1.29
057	44.36	-20.64	3.65	44.58	-21.50	-4.91	44.51	-17.49	-1.79
059	44.32	-21.29	3.22	44.31	-21.80	-3.51	43.51	-17.57	-1.51
062	44.63	-21.10	3.77	44.83	-21.68	-4.51	44.35	-18.04	-1.20
074	43.77	-19.81	3.06	44.02	-20.98	-4.16	43.48	-16.77	-2.26
105	44.65	-21.86	2.26	45.34	-21.98	-6.45	44.56	-18.35	-3.14
108	44.11	-20.66	2.08	44.37	-22.32	-5.48	43.83	-17.78	-3.73
111	44.22	-21.29	1.80	44.20	-22.49	-4.94	43.93	-18.95	-0.79
117	44.44	-22.58	1.47	44.18	-23.04	-6.59	44.65	-19.75	-2.71
120	44.83	-21.31	2.79	44.86	-21.65	-6.32	44.58	-18.91	-0.43
128	43.83	-20.36	2.28	43.32	-20.24	-3.84	43.52	-16.32	-1.81
147	43.88	-21.18	2.66	44.08	-20.92	-4.31	43.81	-17.03	-2.68
163	43.43	-20.14	3.54	43.61	-19.81	-4.78	43.85	-16.10	-2.26
169	43.84	-21.29	2.32	44.08	-21.09	-6.10	43.09	-17.61	-2.40
178	43.87	-21.50	2.42	43.82	-20.64	-5.55	43.55	-16.73	-2.59
185	44.08	-21.85	3.26	43.86	-22.51	-5.22	43.53	-17.78	-4.13
202	45.43	-22.19	2.39	44.91	-22.73	-6.33	44.86	-18.75	-2.23
209	45.03	-21.32	2.43	45.02	-22.54	-6.82	45.04	-17.63	-0.23
212	44.62	-22.45	3.15	44.59	-22.67	-5.50	44.05	-19.15	-2.27
213	43.65	-20.29	2.57	44.07	-21.44	-5.59	43.58	-17.94	-1.70
216	43.33	-18.69	3.17	43.83	-20.47	-4.06	43.76	-16.02	-2.81
226	44.26	-21.92	4.23	44.06	-23.51	-3.01	44.25	-19.61	0.59
227	44.38	-21.97	2.86	44.86	-21.94	-4.29	44.30	-17.62	-3.64
230	44.25	-22.53	2.41	44.74	-22.95	-5.85	43.44	-18.38	-3.92
232	43.81	-22.33	3.44	43.82	-22.58	-4.44	43.53	-18.86	-2.50
233	44.66	-21.25	2.92	44.39	-22.39	-4.43	44.11	-18.45	-2.28
237	45.16	-21.34	3.77	44.93	-23.16	-2.52	44.63	-18.87	-1.72
245	43.74	-19.31	4.24	44.18	-20.87	-3.99	43.43	-16.64	-1.73
247	45.19	-22.75	2.50	44.86	-22.49	-6.12	44.52	-19.66	-2.08
269	44.26	-22.16	3.23	44.72	-21.74	-4.75	43.97	-18.33	-1.39
276	44.36	-22.35	2.90	44.85	-22.10	-3.41	44.25	-17.88	-2.16
289	44.17	-21.64	3.59	44.16	-22.34	-5.55	43.84	-18.43	-2.60
290	44.27	-22.00	2.53	44.26	-21.50	-5.02	44.21	-17.94	-3.57
302	44.20	-22.46	2.88	43.95	-22.52	-6.61	43.16	-17.78	-3.67
304	44.31	-20.94	1.67	44.82	-22.08	-5.79	44.05	-17.92	-3.34
307	44.57	-22.79	3.01	44.78	-23.28	-5.01	44.35	-19.47	-2.39
308	43.88	-22.25	3.10	43.90	-22.45	-4.95	43.59	-17.53	-2.41
311	44.38	-20.72	3.33	44.39	-21.40	-2.68	43.79	-17.23	-1.91
314	43.93	-23.40	2.79	43.88	-23.21	-6.62	43.87	-20.22	-1.74
315	43.30	-22.70	1.96	43.80	-22.24	-6.89	43.05	-18.76	-3.65
330	44.52	-21.56	2.64	44.69	-21.94	-3.45	44.64	-17.54	-2.49
331	44.51	-20.65	2.70	44.75	-20.50	-5.43	43.92	-16.54	-3.86
332	44.20	-21.06	2.75	44.13	-22.23	-5.56	43.85	-18.04	-2.93
336	43.99	-21.66	3.08	43.92	-21.03	-4.59	43.65	-17.28	-1.98
337	44.55	-21.76	3.32	44.52	-22.51	-4.74	43.47	-18.07	-1.41
344	43.71	-19.90	2.92	43.90	-20.92	-3.79	43.62	-16.68	-3.20
351	44.56	-22.53	2.68	44.25	-22.33	-6.09	43.96	-18.68	-2.59
353	44.47	-23.52	2.07	44.45	-23.25	-6.26	44.18	-20.68	-0.87
354	44.25	-21.79	3.64	44.47	-23.01	-3.57	43.96	-18.01	0.01
357	44.42	-20.61	4.96	44.16	-21.48	-3.26	43.89	-17.26	-1.44
360	43.49	-19.80	3.14	43.78	-21.34	-4.74	42.98	-17.24	-2.61
361	44.52	-22.42	2.64	44.95	-22.93	-5.75	44.42	-19.38	-1.40
250	43.85	-21.85	3.99	44.14	-22.21	-4.22	43.88	-18.27	-1.52
268	44.21	-22.43	3.01	44.19	-21.78	-4.74	43.90	-18.13	-2.31

人工歯排列の下顎計測データ (3/3)

受験者 番号	下顎											
	右側1番 (Right 1)			右側2番 (Right 2)			右側3番 (Right 3)			遠心		
	切端			切端			切端			遠心		
	7			8			9			10		
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
004	38.16	-19.87	2.63	32.92	-18.69	2.74	28.42	-14.44	2.69	25.90	-12.56	0.21
009	39.72	-22.43	2.43	34.21	-21.52	2.67	28.94	-18.29	2.90	26.43	-16.65	1.37
010	39.66	-21.82	3.07	34.12	-20.36	2.90	29.31	-17.25	3.73	26.75	-15.36	1.51
012	38.87	-20.10	5.12	33.84	-18.94	5.22	29.49	-14.71	4.37	26.98	-13.26	1.00
013	38.64	-21.24	3.70	33.62	-19.72	3.82	28.82	-16.24	3.71	26.77	-14.08	1.64
015	39.12	-20.62	3.83	33.58	-19.24	3.94	28.99	-15.61	4.10	26.91	-13.24	1.78
020	39.26	-20.38	4.09	33.75	-19.34	4.11	28.97	-16.19	4.50	26.20	-14.09	2.16
023	38.65	-21.15	2.55	33.90	-20.29	2.69	28.89	-16.90	2.98	26.86	-14.21	0.43
024	39.00	-19.97	4.04	33.49	-19.13	3.85	28.71	-16.02	4.15	26.43	-13.85	1.89
026	39.28	-21.38	4.47	34.01	-19.89	4.59	29.46	-16.42	5.05	26.68	-14.60	2.66
027	40.31	-22.18	3.92	35.03	-20.30	3.90	29.99	-16.85	3.90	27.73	-14.78	1.18
031	38.12	-20.07	3.02	33.10	-18.53	3.15	28.04	-15.04	2.89	26.00	-13.19	1.35
033	36.95	-20.10	3.30	31.89	-18.82	3.37	27.25	-15.76	3.36	24.88	-13.20	1.32
040	39.42	-20.93	3.66	34.16	-20.29	3.99	29.37	-17.20	4.18	26.81	-14.94	1.18
045	39.13	-21.07	2.89	33.87	-20.27	2.96	28.85	-17.45	3.05	26.34	-15.36	0.67
048	39.50	-21.39	3.10	33.97	-19.94	3.38	28.93	-17.03	3.33	26.63	-14.78	1.39
049	38.82	-21.34	3.71	33.80	-19.90	3.67	29.01	-16.47	3.57	26.47	-14.37	1.63
055	38.57	-19.84	4.22	33.54	-18.52	4.16	28.72	-15.16	4.13	26.67	-12.63	1.49
057	39.11	-20.75	3.74	34.07	-18.84	3.94	29.01	-15.96	3.62	26.45	-13.87	1.84
059	38.82	-21.35	3.21	33.55	-20.18	2.96	28.51	-16.98	3.07	26.22	-14.16	1.38
062	39.13	-21.78	3.87	34.12	-21.07	3.74	28.62	-17.59	3.43	26.86	-15.64	2.34
074	38.52	-19.77	3.17	33.51	-18.66	3.21	28.23	-15.94	3.06	25.70	-13.87	1.23
105	39.64	-21.27	2.38	34.61	-19.66	2.23	29.31	-16.33	2.25	26.77	-14.21	0.64
108	38.86	-20.53	2.25	34.10	-19.38	2.98	29.56	-15.30	3.30	27.04	-13.16	1.22
111	38.96	-20.84	1.86	33.95	-19.40	1.96	29.65	-15.69	2.14	27.36	-13.23	0.21
117	39.19	-22.33	1.59	33.93	-21.03	2.00	29.14	-17.39	2.37	26.86	-15.35	0.48
120	39.58	-21.38	2.73	34.33	-19.93	2.67	29.32	-16.96	2.51	26.81	-14.94	0.72
128	38.84	-20.35	2.70	33.56	-18.93	3.04	29.26	-15.04	2.63	26.72	-12.77	0.58
147	38.63	-20.66	2.85	33.62	-19.23	3.27	29.59	-14.93	4.21	27.55	-12.55	2.07
163	38.68	-19.79	3.58	33.67	-18.13	3.81	28.64	-14.48	4.17	26.11	-12.44	2.33
169	38.84	-20.77	2.48	33.60	-19.13	2.92	28.61	-15.43	3.25	26.61	-12.93	1.37
178	39.12	-21.28	2.63	33.10	-19.07	2.89	28.81	-14.81	3.56	26.53	-12.41	1.13
185	38.57	-21.12	3.31	33.05	-20.23	3.16	27.51	-17.54	3.28	25.22	-14.96	1.20
202	40.19	-22.40	2.63	35.15	-20.47	3.20	30.35	-17.26	3.82	27.81	-15.40	2.03
209	39.78	-21.36	2.37	34.54	-19.55	2.32	29.55	-16.94	2.40	27.05	-14.93	0.40
212	39.37	-22.53	3.18	34.10	-21.25	3.08	28.81	-18.54	3.58	26.52	-16.62	1.32
213	39.14	-19.82	2.39	33.88	-18.60	2.56	28.36	-15.78	2.86	25.57	-13.79	0.95
216	38.34	-19.38	2.72	33.32	-18.22	3.10	27.77	-15.22	3.88	24.98	-13.14	1.95
226	39.26	-21.72	4.10	34.00	-20.26	4.42	28.96	-17.25	4.79	26.70	-15.01	2.11
227	39.38	-21.90	2.99	33.87	-21.00	3.21	28.81	-17.43	3.98	26.52	-15.13	2.16
230	38.75	-22.64	2.39	33.99	-21.72	2.60	28.70	-18.12	2.88	26.18	-16.64	0.52
232	38.55	-21.77	3.31	33.29	-20.47	3.50	28.50	-17.34	3.85	26.48	-15.06	1.67
233	39.41	-21.53	3.07	34.40	-19.91	3.25	29.37	-17.31	3.39	27.59	-15.16	1.54
237	40.15	-21.25	3.59	35.14	-19.79	3.79	30.35	-16.57	4.17	27.57	-14.50	2.00
245	38.99	-20.02	4.21	33.73	-19.06	3.90	28.47	-16.30	4.29	25.70	-14.10	2.06
247	39.95	-22.95	2.57	35.14	-21.63	2.97	30.00	-18.47	3.67	27.88	-16.18	2.13
269	39.51	-21.84	3.04	34.25	-20.32	3.30	28.98	-16.88	3.33	26.96	-14.48	1.54
276	39.85	-22.14	2.84	34.31	-20.41	3.03	29.73	-16.97	3.62	27.67	-14.04	1.24
289	38.91	-21.28	3.36	33.88	-19.67	3.57	29.05	-15.94	3.36	26.50	-13.90	1.88
290	38.76	-21.10	2.56	33.74	-19.83	2.59	28.94	-16.69	3.40	26.40	-14.29	1.27
302	39.20	-22.39	2.65	33.93	-20.83	2.74	28.90	-17.63	2.80	26.63	-15.16	0.48
304	39.56	-20.86	1.76	34.06	-19.96	1.91	29.79	-16.87	2.16	27.28	-14.43	-0.18
307	39.56	-22.74	3.21	34.24	-21.63	3.61	29.54	-17.98	3.85	27.39	-15.57	1.68
308	38.63	-21.53	2.84	33.61	-19.91	2.93	28.81	-16.11	3.22	26.79	-13.64	0.88
311	39.13	-20.67	3.24	33.84	-19.04	3.25	28.76	-15.66	3.27	26.70	-13.47	1.49
314	38.92	-23.09	2.79	33.66	-21.62	2.85	28.63	-18.41	3.44	26.59	-15.98	1.63
315	38.30	-22.18	1.77	33.55	-19.97	1.86	29.05	-16.50	2.90	26.80	-13.97	0.79
330	39.51	-21.12	2.47	34.50	-20.21	2.77	29.44	-16.50	2.98	27.38	-14.37	1.12
331	39.26	-20.51	2.66	33.99	-19.72	2.89	29.43	-16.70	2.55	27.13	-14.11	0.33
332	38.94	-20.77	2.79	33.91	-18.62	2.81	28.86	-14.98	3.18	26.32	-13.02	1.62
336	38.74	-21.67	3.22	33.48	-20.31	3.53	28.69	-17.01	4.23	26.90	-14.15	2.42
337	39.55	-21.97	3.56	34.53	-20.71	3.37	29.24	-17.75	3.84	26.94	-15.10	1.52
344	38.71	-19.69	2.93	33.71	-19.22	3.29	28.69	-15.72	3.95	26.14	-13.25	1.56
351	39.55	-22.26	2.70	34.03	-20.98	2.95	29.22	-17.84	3.06	26.91	-15.51	0.29
353	39.23	-23.80	2.12	33.96	-22.34	2.49	28.67	-18.90	3.10	26.38	-16.46	1.13
354	39.50	-21.31	3.69	34.25	-20.34	3.72	29.23	-17.08	4.37	26.71	-14.79	2.06
357	38.92	-20.76	4.85	33.91	-19.03	4.42	29.14	-15.56	4.31	27.13	-13.18	2.30
360	38.49	-19.45	3.15	33.22	-17.75	3.03	28.19	-14.32	3.34	25.67	-12.18	1.82
361	39.26	-22.14	2.74	33.97	-20.18	2.97	29.41	-16.66	3.78	26.85	-14.47	1.91
250	38.85	-21.44	3.78	33.85	-19.50	4.02	29.10	-15.37	4.71	27.36	-12.90	2.14
268	38.96	-22.13	3.23	33.69	-20.66	3.60	28.65	-17.06	3.51	26.63	-15.05	1.64

表13. 人工歯排列の解析評価中間データ

人工歯排列の解析用中間データ (1/2)

受験者 番号	上顎アーチフォーム 頂点(b,c)						下顎アーチフォーム 頂点(b,c)					
	Y=a·(x-b) ² +c			2·a	Pu4	P4 Z	Y=a·(x-b) ² +c			2·a	P4 Z	
	相関	a	b	c	曲率		相関	a	b	c	曲率	
004	0.997	0.029	41.216	-24.765	0.058	0.557	0.936	0.029	42.020	-20.284	0.058	2.872
009	0.988	0.025	41.366	-24.051	0.050	1.093	0.984	0.025	42.163	-22.756	0.050	2.127
010	0.994	0.026	41.755	-25.237	0.053	0.622	0.994	0.028	42.255	-22.037	0.056	2.810
012	0.999	0.027	41.117	-23.633	0.054	0.375	0.973	0.035	42.196	-20.690	0.070	5.222
013	0.998	0.026	41.856	-24.249	0.051	0.594	0.990	0.029	42.105	-21.501	0.057	3.432
015	0.998	0.026	41.462	-24.133	0.052	0.952	0.988	0.031	41.963	-21.020	0.062	3.816
020	0.996	0.029	41.719	-24.235	0.058	0.795	0.989	0.026	42.243	-20.855	0.051	4.099
023	0.995	0.026	41.149	-24.319	0.052	0.364	0.989	0.030	41.234	-21.580	0.060	2.598
024	0.999	0.025	41.852	-24.023	0.050	0.734	0.969	0.026	41.652	-20.464	0.052	3.890
026	0.987	0.020	41.967	-24.338	0.040	1.317	0.995	0.033	42.043	-21.804	0.067	3.948
027	0.997	0.026	42.459	-24.290	0.053	0.575	0.999	0.036	42.553	-22.412	0.071	3.579
031	0.987	0.022	41.885	-23.699	0.044	0.901	0.995	0.029	41.230	-20.274	0.059	2.990
033	0.996	0.024	41.007	-23.831	0.048	0.552	0.981	0.023	41.459	-20.531	0.045	3.352
040	0.993	0.026	41.474	-24.653	0.052	0.747	0.981	0.027	41.733	-21.480	0.054	3.490
045	0.999	0.025	41.296	-24.444	0.051	0.819	0.987	0.023	42.036	-21.529	0.046	2.823
048	0.997	0.024	41.454	-24.587	0.047	0.224	0.997	0.026	41.841	-21.461	0.052	2.999
049	0.996	0.026	41.679	-24.950	0.053	1.153	0.997	0.032	41.815	-21.726	0.063	3.823
055	0.993	0.026	41.661	-24.190	0.053	1.198	0.992	0.026	42.771	-20.408	0.052	4.113
057	0.998	0.028	41.339	-24.090	0.056	0.913	0.997	0.028	42.266	-20.854	0.056	3.653
059	0.998	0.028	41.892	-24.469	0.055	1.077	0.994	0.026	41.640	-21.608	0.052	3.218
062	0.999	0.024	41.564	-24.963	0.049	1.563	0.977	0.026	41.078	-21.880	0.052	3.770
074	0.999	0.025	41.799	-24.043	0.050	0.518	0.992	0.021	42.196	-20.062	0.041	3.060
105	0.994	0.028	41.725	-24.159	0.056	0.651	0.993	0.033	42.266	-21.710	0.065	2.259
108	0.996	0.026	42.123	-24.356	0.052	-0.485	0.971	0.035	42.318	-21.163	0.069	2.080
111	0.999	0.026	41.821	-23.955	0.052	-0.409	0.987	0.035	42.161	-21.346	0.069	1.804
117	0.991	0.028	41.542	-24.844	0.056	-0.107	0.994	0.032	41.992	-22.798	0.064	1.474
120	1.000	0.029	41.652	-24.778	0.058	-0.047	0.996	0.029	42.084	-21.628	0.057	2.788
128	0.999	0.025	41.737	-24.569	0.051	-0.057	0.978	0.035	41.953	-20.847	0.069	2.281
147	0.999	0.026	42.168	-23.763	0.052	-0.236	0.980	0.041	42.020	-21.471	0.081	2.656
163	0.990	0.023	41.991	-23.051	0.047	1.242	0.993	0.031	41.987	-20.116	0.062	3.538
169	0.997	0.026	41.737	-24.529	0.053	-0.610	0.997	0.033	41.862	-21.252	0.066	2.321
178	0.993	0.026	41.627	-23.984	0.052	-0.533	0.992	0.037	42.182	-21.706	0.074	2.421
185	0.972	0.025	41.524	-24.322	0.051	1.472	0.965	0.021	42.075	-21.827	0.041	3.262
202	0.998	0.029	41.600	-24.508	0.057	1.345	0.995	0.031	43.245	-22.470	0.062	2.388
209	0.996	0.025	41.659	-24.633	0.050	0.745	0.996	0.024	43.458	-21.536	0.048	2.428
212	0.990	0.025	41.643	-25.128	0.051	0.746	0.993	0.026	41.572	-22.754	0.052	3.151
213	0.998	0.022	41.432	-22.437	0.044	1.017	0.991	0.025	41.823	-20.237	0.050	2.567
216	0.994	0.024	40.884	-23.017	0.047	0.702	0.959	0.021	41.245	-19.209	0.041	3.172
226	0.996	0.023	42.133	-24.664	0.045	1.829	0.997	0.024	42.934	-22.013	0.048	4.225
227	0.993	0.025	41.853	-24.334	0.050	0.299	0.984	0.027	41.823	-22.237	0.054	2.855
230	0.995	0.025	42.655	-24.848	0.050	0.496	0.988	0.028	41.565	-22.933	0.056	2.413
232	0.994	0.026	41.303	-24.970	0.052	2.079	0.994	0.028	41.801	-22.325	0.056	3.441
233	0.996	0.021	42.258	-23.999	0.043	1.063	0.998	0.027	41.851	-21.524	0.054	2.921
237	0.999	0.025	41.837	-24.749	0.051	1.024	0.999	0.033	42.607	-21.549	0.066	3.768
245	0.996	0.024	41.372	-24.153	0.048	1.151	0.954	0.020	41.561	-19.889	0.039	4.243
247	0.994	0.027	41.592	-24.742	0.054	1.162	1.000	0.031	42.094	-23.084	0.063	2.502
269	1.000	0.029	41.837	-24.707	0.058	1.018	0.989	0.030	42.099	-22.063	0.059	3.233
276	0.999	0.029	41.677	-25.055	0.058	1.077	0.999	0.035	42.204	-22.466	0.070	2.899
289	0.998	0.028	42.019	-24.159	0.057	1.181	0.997	0.035	41.993	-21.787	0.069	3.592
290	0.999	0.024	41.910	-24.736	0.049	-1.125	0.971	0.035	41.420	-21.913	0.069	2.525
302	0.992	0.024	41.967	-24.625	0.048	1.179	0.999	0.031	41.738	-22.662	0.061	2.875
304	0.998	0.021	41.570	-24.812	0.043	-1.947	0.982	0.028	41.881	-21.198	0.056	1.669
307	0.993	0.025	41.018	-26.038	0.050	0.954	0.992	0.035	41.528	-23.121	0.070	3.011
308	0.984	0.024	42.780	-26.209	0.047	-0.881	0.966	0.040	41.525	-22.407	0.080	3.099
311	0.998	0.025	41.307	-24.811	0.050	-0.112	0.996	0.028	42.437	-21.008	0.057	3.327
314	0.992	0.023	41.993	-26.230	0.045	-0.284	0.995	0.031	41.229	-23.388	0.063	2.794
315	0.993	0.024	42.379	-26.207	0.048	-0.954	0.998	0.039	41.822	-22.730	0.077	1.955
330	0.990	0.026	42.305	-24.099	0.052	-0.044	0.984	0.031	42.303	-21.750	0.062	2.639
331	0.991	0.025	42.141	-24.318	0.050	0.344	0.972	0.026	41.595	-20.776	0.052	2.698
332	0.999	0.027	40.857	-24.029	0.054	0.775	0.999	0.035	42.152	-21.130	0.070	2.753
336	0.992	0.026	41.361	-25.020	0.051	1.028	0.990	0.029	41.786	-22.030	0.057	3.082
337	0.999	0.027	40.822	-24.845	0.055	1.024	0.995	0.031	41.269	-22.150	0.062	3.315
344	0.993	0.023	40.312	-22.909	0.047	-0.311	0.946	0.023	42.334	-20.307	0.047	2.918
351	0.991	0.024	41.875	-24.972	0.047	0.924	0.994	0.027	42.246	-22.592	0.055	2.678
353	0.994	0.024	41.605	-24.654	0.048	1.280	0.993	0.028	41.730	-23.847	0.056	2.070
354	1.000	0.025	41.969	-24.907	0.051	0.735	0.989	0.029	41.983	-21.842	0.058	3.644
357	0.992	0.029	41.726	-24.982	0.058	1.509	0.996	0.032	42.116	-21.006	0.063	4.957
360	0.993	0.025	41.431	-23.375	0.050	0.853	0.997	0.026	42.706	-19.946	0.053	3.144
361	0.999	0.029	41.450	-24.709	0.059	0.951	0.999	0.038	41.982	-22.576	0.075	2.642
250	0.998	0.025	41.821	-24.600	0.050	1.272	0.998	0.039	41.927	-21.913	0.079	3.989
268	0.994	0.028	41.831	-25.083	0.057	-0.027	0.997	0.032	41.830	-22.592	0.063	3.007

人工歯排列の解析用中間データ (2/2)

受験者 番号	歯軸		オーバー		中切歯		
	上顎°	下顎°	ジェット	バイト	上顎°	下顎°	内角°
004	22.353	-1.441	-4.103	-2.535	-1.415	-3.109	184.524
009	11.714	1.797	-1.301	-1.299	1.560	-1.855	180.295
010	12.820	8.880	-3.610	-2.133	1.612	0.186	178.202
012	7.080	-18.126	-2.852	-4.444	3.234	0.077	176.689
013	10.776	2.446	-2.620	-2.874	3.039	0.425	176.537
015	18.636	5.656	-2.770	-2.590	2.899	-1.644	178.744
020	9.504	2.237	-2.870	-3.080	3.093	-1.690	178.597
023	8.317	1.255	-2.753	-2.247	1.909	2.295	175.796
024	7.897	7.712	-3.545	-2.776	3.091	3.263	173.646
026	0.502	0.975	-2.302	-2.404	2.682	1.856	175.462
027	7.197	-1.668	-1.697	-2.882	2.880	1.668	175.452
031	10.276	8.567	-3.195	-2.317	0.430	-3.261	182.831
033	2.835	11.868	-3.500	-2.626	4.515	4.879	170.606
040	7.443	5.763	-2.809	-2.650	1.101	0.245	178.653
045	12.787	6.172	-2.570	-1.777	1.351	1.584	177.065
048	14.885	3.792	-3.069	-2.650	1.487	2.149	176.364
049	15.157	1.424	-3.339	-2.610	3.393	0.117	176.490
055	15.215	11.340	-3.616	-2.602	-0.219	-0.040	180.259
057	8.813	5.748	-3.068	-2.532	1.737	-1.465	179.728
059	18.016	4.341	-2.926	-1.827	0.057	0.068	179.875
062	16.212	4.043	-3.305	-1.911	0.040	-1.433	181.393
074	10.635	9.171	-3.876	-2.698	4.431	-1.960	177.530
105	17.956	0.769	-1.934	-1.592	0.370	-4.574	184.203
108	12.371	12.368	-3.285	-2.549	-0.174	-1.939	182.113
111	11.715	10.037	-2.383	-2.020	0.654	0.170	179.176
117	6.750	3.266	-1.924	-1.493	2.378	1.883	175.740
120	9.849	2.132	-2.994	-2.624	1.745	-0.164	178.418
128	10.795	-1.132	-3.692	-2.240	-2.608	4.807	177.801
147	13.052	-2.212	-2.392	-3.066	0.311	-1.678	181.367
163	13.172	-2.273	-2.915	-2.328	1.334	-1.247	179.914
169	13.861	-1.361	-2.913	-2.903	-2.192	-1.593	183.784
178	9.668	-6.170	-2.130	-2.849	1.794	0.338	177.868
185	10.644	4.448	-1.848	-1.555	2.579	1.478	175.942
202	13.554	3.569	-2.007	-1.186	0.468	3.399	176.133
209	10.906	7.527	-2.892	-1.532	1.895	0.056	178.049
212	4.213	1.430	-2.005	-2.121	1.762	0.225	178.013
213	0.998	8.023	-1.826	-1.473	3.337	-2.968	179.630
216	4.120	13.788	-3.602	-2.736	-0.989	-3.988	184.977
226	8.371	12.370	-2.919	-2.313	4.537	1.615	173.849
227	-0.223	-0.193	-2.159	-2.543	-2.756	-3.861	186.617
230	10.605	2.895	-2.160	-1.949	0.315	-3.386	183.070
232	6.880	1.802	-2.268	-1.335	-0.978	-0.087	181.065
233	3.911	8.818	-2.494	-2.056	-2.581	2.063	180.517
237	2.731	16.197	-3.232	-2.436	3.129	2.069	174.802
245	6.002	10.721	-4.528	-3.187	0.359	-3.052	182.692
247	11.946	-1.721	-1.803	-1.480	0.202	2.252	177.546
269	2.224	-3.021	-2.166	-2.103	-1.336	-3.300	184.636
276	8.984	-2.241	-2.438	-1.824	3.626	-4.458	180.832
289	5.916	4.389	-2.321	-2.340	1.664	0.113	178.224
290	12.371	-3.784	-2.586	-3.775	-0.091	0.076	180.015
302	14.985	0.350	-2.126	-1.253	0.238	1.473	178.288
304	15.623	8.725	-3.410	-3.724	1.955	-3.883	181.928
307	16.114	3.439	-2.412	-1.825	-4.318	-1.543	185.861
308	20.188	1.459	-3.809	-3.801	3.548	-0.093	176.545
311	9.217	6.379	-3.756	-3.187	0.440	-0.048	179.607
314	23.466	-1.163	-2.185	-3.149	6.456	0.298	173.246
315	16.174	-2.945	-3.415	-3.054	-2.052	-3.235	185.287
330	9.541	3.545	-2.248	-2.657	-1.368	-1.647	183.015
331	6.733	-1.029	-3.559	-2.198	-0.944	-1.670	182.614
332	11.010	7.976	-2.741	-2.012	3.319	0.441	176.240
336	23.383	-4.693	-3.206	-2.084	3.701	0.485	175.814
337	13.778	5.299	-2.591	-2.133	0.694	0.199	179.107
344	-3.095	8.619	-2.411	-2.812	4.748	-1.564	176.816
351	12.349	-1.261	-2.540	-1.736	3.063	2.005	174.932
353	7.380	-1.816	-1.217	-1.007	-0.725	0.131	180.594
354	8.447	9.590	-2.864	-2.883	0.210	-1.747	181.537
357	6.374	6.081	-3.872	-2.818	1.403	1.799	176.798
360	2.871	11.075	-3.035	-2.241	0.266	-2.092	181.826
361	11.517	3.486	-1.955	-1.797	-0.414	-2.934	183.348
250	5.151	2.505	-2.486	-2.889	2.017	-2.024	180.007
268	8.780	-4.777	-1.996	-3.234	2.038	0.185	177.777

表14. 人工歯排列の多変量解析評価データ

受験者 番号	上顎アーチフォーム				下顎アーチフォーム				歯軸		オーバー		中切歯 内角°
	相関	曲率	距離	P4 Z	相関	曲率	距離	P4 Z	上顎°	下顎°	ジェット	バイト	
004	0.997	0.000	0.206	0.563	0.936	0.010	2.160	0.319	19.157	5.865	1.788	0.702	4.549
009	0.988	0.008	0.933	0.027	0.984	0.018	0.503	1.064	8.518	2.627	1.014	0.534	0.320
010	0.994	0.006	0.608	0.498	0.994	0.012	0.618	0.381	9.624	4.457	1.295	0.300	1.773
012	0.999	0.005	1.341	0.745	0.973	0.002	1.790	2.031	3.883	22.550	0.537	2.611	3.287
013	0.998	0.007	0.970	0.526	0.990	0.011	0.985	0.241	7.579	1.977	0.305	1.041	3.439
015	0.998	0.007	0.876	0.168	0.988	0.006	1.422	0.625	15.440	1.232	0.455	0.757	1.231
020	0.996	0.000	0.896	0.325	0.989	0.017	1.642	0.908	6.308	2.187	0.555	1.247	1.378
023	0.995	0.006	0.655	0.756	0.989	0.008	1.010	0.593	5.120	3.169	0.438	0.414	4.179
024	0.999	0.009	1.146	0.386	0.969	0.016	1.971	0.699	4.701	3.288	1.230	0.943	6.329
026	0.987	0.019	0.988	0.197	0.995	0.001	0.680	0.757	2.695	3.449	0.013	0.571	4.513
027	0.997	0.006	1.424	0.545	0.999	0.003	0.775	0.388	4.001	6.092	0.618	1.049	4.524
031	0.987	0.014	1.441	0.219	0.995	0.009	2.225	0.201	7.079	4.143	0.880	0.484	2.856
033	0.996	0.010	1.157	0.568	0.981	0.023	1.927	0.161	0.362	7.444	1.185	0.793	9.369
040	0.993	0.006	0.414	0.373	0.981	0.014	0.952	0.299	4.246	1.339	0.494	0.817	1.322
045	0.999	0.007	0.534	0.301	0.987	0.022	0.938	0.368	9.591	1.748	0.255	0.056	2.910
048	0.997	0.011	0.456	0.896	0.997	0.016	0.972	0.192	11.689	0.632	0.754	0.817	3.612
049	0.996	0.005	0.472	0.033	0.997	0.005	0.705	0.632	11.960	3.000	1.024	0.777	3.485
055	0.993	0.006	0.903	0.078	0.992	0.016	2.253	0.922	12.018	6.916	1.301	0.769	0.284
057	0.998	0.003	0.890	0.207	0.997	0.012	1.651	0.462	5.617	1.324	0.753	0.699	0.248
059	0.998	0.003	0.849	0.043	0.994	0.016	0.834	0.027	14.820	0.082	0.611	0.006	0.100
062	0.999	0.010	0.356	0.443	0.977	0.016	0.892	0.579	13.016	0.381	0.990	0.078	1.418
074	0.999	0.008	1.100	0.602	0.992	0.027	2.405	0.131	7.438	4.747	1.561	0.865	2.446
105	0.994	0.002	0.963	0.469	0.993	0.003	0.870	0.932	14.759	3.655	0.381	0.241	4.228
108	0.996	0.006	1.102	1.605	0.971	0.001	1.377	1.111	9.175	7.944	0.970	0.716	2.137
111	0.999	0.006	1.186	1.529	0.987	0.001	1.151	1.387	8.519	5.613	0.068	0.187	0.800
117	0.991	0.002	0.357	1.227	0.994	0.004	0.424	1.717	3.554	1.158	0.391	0.340	4.236
120	1.000	0.000	0.484	1.167	0.996	0.011	0.859	0.403	6.653	2.292	0.679	0.791	1.557
128	0.999	0.008	0.665	1.177	0.978	0.001	1.594	0.910	7.599	5.556	1.377	0.407	2.174
147	0.999	0.006	1.543	1.356	0.980	0.013	0.990	0.535	9.855	6.636	0.077	1.233	1.391
163	0.990	0.012	2.073	0.122	0.993	0.006	2.325	0.347	9.976	6.697	0.600	0.495	0.062
169	0.997	0.006	0.689	1.730	0.997	0.002	1.182	0.870	10.665	5.785	0.598	1.070	3.809
178	0.993	0.006	1.072	1.653	0.992	0.006	0.830	0.770	6.472	10.594	0.185	1.016	2.107
185	0.972	0.008	0.721	0.352	0.965	0.027	0.672	0.071	7.448	0.024	0.467	0.278	4.033
202	0.998	0.001	0.606	0.225	0.995	0.006	1.467	0.803	10.358	0.855	0.308	0.647	3.842
209	0.996	0.009	0.563	0.375	0.996	0.020	1.903	0.763	7.709	3.103	0.577	0.301	1.926
212	0.990	0.008	0.463	0.374	0.993	0.016	0.383	0.040	1.016	2.994	0.310	0.288	1.962
213	0.998	0.014	2.544	0.103	0.991	0.018	2.195	0.624	2.198	3.599	0.489	0.360	0.345
216	0.994	0.011	1.980	0.418	0.959	0.027	3.266	0.019	0.923	9.364	1.287	0.903	5.002
226	0.996	0.013	0.974	0.709	0.997	0.020	1.228	1.034	5.175	7.946	0.604	0.480	6.127
227	0.993	0.009	0.907	0.821	0.984	0.014	0.199	0.336	3.420	4.616	0.156	0.710	6.642
230	0.995	0.009	1.452	0.624	0.988	0.012	0.545	0.778	7.409	1.529	0.155	0.116	3.095
232	0.994	0.007	0.096	0.959	0.994	0.012	0.108	0.250	3.684	2.622	0.047	0.498	1.090
233	0.996	0.016	1.431	0.057	0.998	0.014	0.910	0.270	0.715	4.394	0.179	0.223	0.542
237	0.999	0.008	0.667	0.096	0.999	0.002	1.210	0.577	0.466	11.773	0.917	0.603	5.173
245	0.996	0.010	0.834	0.031	0.954	0.029	2.551	1.052	2.806	6.297	2.213	1.354	2.717
247	0.994	0.005	0.448	0.042	1.000	0.005	0.726	0.689	8.749	6.145	0.512	0.353	2.430
269	1.000	0.001	0.682	0.102	0.989	0.009	0.488	0.042	0.972	7.445	0.149	0.270	4.661
276	0.999	0.000	0.476	0.043	0.999	0.002	0.427	0.292	5.787	6.665	0.123	0.009	0.856
289	0.998	0.002	1.148	0.061	0.997	0.001	0.678	0.401	2.720	0.035	0.006	0.507	1.752
290	0.999	0.010	0.740	2.245	0.971	0.001	0.630	0.666	9.175	8.208	0.271	1.942	0.040
302	0.992	0.010	0.835	0.059	0.999	0.007	0.235	0.316	11.789	4.074	0.189	0.580	1.687
304	0.998	0.016	0.395	3.067	0.982	0.012	1.237	1.522	12.427	4.301	1.095	1.891	1.953
307	0.993	0.008	1.084	0.166	0.992	0.002	0.734	0.180	12.917	0.985	0.097	0.008	5.886
308	0.984	0.011	2.001	2.001	0.966	0.012	0.255	0.092	16.992	2.964	1.494	1.968	3.431
311	0.998	0.008	0.189	1.232	0.996	0.011	1.568	0.136	6.021	1.955	1.441	1.354	0.368
314	0.992	0.013	1.483	1.404	0.995	0.005	1.104	0.397	20.270	5.587	0.130	1.316	6.730
315	0.993	0.011	1.703	2.074	0.998	0.009	0.302	1.236	12.977	7.369	1.100	1.221	5.312
330	0.990	0.007	1.401	1.164	0.984	0.006	0.860	0.552	6.345	0.879	0.067	0.824	3.040
331	0.991	0.009	1.139	0.776	0.972	0.016	1.665	0.493	3.537	5.453	1.244	0.365	2.639
332	0.999	0.004	1.005	0.345	0.999	0.002	1.353	0.438	7.814	3.552	0.426	0.179	3.736
336	0.992	0.007	0.161	0.092	0.990	0.011	0.401	0.109	20.187	9.117	0.891	0.251	4.162
337	0.999	0.003	0.406	0.096	0.995	0.006	0.582	0.124	10.582	0.875	0.276	0.300	0.869
344	0.993	0.011	2.248	1.431	0.946	0.021	2.195	0.273	6.291	4.195	0.096	0.979	3.159
351	0.991	0.011	0.667	0.196	0.994	0.013	0.494	0.513	9.153	5.684	0.225	0.097	5.043
353	0.994	0.011	0.508	0.160	0.993	0.012	1.417	1.121	4.183	6.240	1.098	0.826	0.619
354	1.000	0.008	0.764	0.385	0.989	0.010	0.623	0.453	5.251	5.166	0.549	1.050	1.561
357	0.992	0.000	0.518	0.389	0.996	0.005	1.464	1.766	3.178	1.657	1.557	0.985	3.177
360	0.993	0.008	1.611	0.267	0.997	0.015	2.652	0.047	0.325	6.651	0.720	0.408	1.851
361	0.999	0.000	0.357	0.169	0.999	0.007	0.250	0.549	8.321	0.938	0.360	0.036	3.373
250	0.998	0.009	0.716	0.152	0.998	0.011	0.538	0.798	1.955	1.919	0.171	1.056	0.032
268	0.994	0.001	0.633	1.147	0.997	0.005	0.169	0.184	5.584	9.201	0.319	1.401	2.199

表15. 人工歯排列の多変量解析結果

受験者 番号	予測値	平均 (100点)	誤差	ズレ	NN	I	II	III	IV	V	VI	平均	合計	配点	平均 (100点)
004	25.1	44.4	19.3	0.75	1	1	2	1	2	1	1	1.33	8	45	44.4
009	86.8	27.8	-59.0	0.46	3	0	1	1	1	1	1	0.83	5	30	27.8
010	26.6	27.8	1.1	0.41	1	0	1	1	1	1	1	0.83	5	30	27.8
012	25.2	44.4	19.2	0.75	1	1	2	1	2	1	1	1.33	8	45	44.4
013	88.4	38.9	-49.5	0.40	3	1	1	1	2	1	1	1.17	7	40	38.9
015	94.9	38.9	-56.0	0.54	3	1	2	1	2	0	1	1.17	7	40	38.9
020	63.6	44.4	-19.2	0.43	2	1	1	1	2	1	2	1.33	8	45	44.4
023	82.2	38.9	-43.3	0.34	3	1	1	1	2	1	1	1.17	7	40	38.9
024	74.1	44.4	-29.7	0.53	2	1	2	1	2	1	1	1.33	8	45	44.4
026	88.0	44.4	-43.6	0.48	3	1	2	1	2	1	1	1.33	8	45	44.4
027	84.5	33.3	-51.2	0.38	3	1	2	1	1	0	1	1.00	6	35	33.3
031	74.4	44.4	-29.9	0.54	2	1	2	1	2	1	1	1.33	8	45	44.4
033	66.8	44.4	-22.4	0.61	2	1	2	1	2	1	1	1.33	8	45	44.4
040	104.1	44.4	-59.7	0.32	3	1	2	1	2	1	1	1.33	8	45	44.4
045	108.2	44.4	-63.7	0.45	3	0	2	1	2	1	2	1.33	8	45	44.4
048	104.3	27.8	-76.6	0.52	3	1	1	1	1	0	1	0.83	5	30	27.8
049	27.5	44.4	17.0	0.45	1	1	2	1	2	1	1	1.33	8	45	44.4
055	39.1	27.8	-11.3	0.58	1	1	1	1	1	0	1	0.83	5	30	27.8
057	106.5	44.4	-62.1	0.36	3	1	2	1	2	1	1	1.33	8	45	44.4
059	72.0	38.9	-33.1	0.50	2	0	1	1	2	1	2	1.17	7	40	38.9
062	108.3	33.3	-75.0	0.51	3	1	0	0	2	1	2	1.00	6	35	33.3
074	76.5	44.4	-32.1	0.60	3	1	2	1	2	1	1	1.33	8	45	44.4
105	73.5	44.4	-29.0	0.51	2	1	2	1	1	1	2	1.33	8	45	44.4
108	68.4	38.9	-29.5	0.51	2	1	1	1	1	1	2	1.17	7	40	38.9
111	80.7	38.9	-41.8	0.44	3	1	1	1	2	0	2	1.17	7	40	38.9
117	94.2	33.3	-60.8	0.35	3	0	1	1	2	1	1	1.00	6	35	33.3
120	58.0	27.8	-30.2	0.33	2	0	1	1	1	1	1	0.83	5	30	27.8
128	52.8	27.8	-25.1	0.46	2	0	1	1	2	0	1	0.83	5	40	27.8
147	71.3	44.4	-26.8	0.51	2	1	2	1	2	1	1	1.33	8	45	44.4
163	59.1	27.8	-31.3	0.58	2	1	1	1	1	0	1	0.83	5	30	27.8
169	77.0	22.2	-54.8	0.50	3	0	1	1	1	0	1	0.67	4	25	22.2
178	91.8	38.9	-52.9	0.46	3	1	1	1	2	1	1	1.17	7	40	38.9
185	61.2	44.4	-16.8	0.54	2	0	2	1	2	1	2	1.33	8	45	44.4
202	97.7	33.3	-64.4	0.42	3	0	1	1	2	0	2	1.00	6	35	33.3
209	94.8	27.8	-67.0	0.48	3	0	1	0	2	0	2	0.83	5	30	27.8
212	62.7	38.9	-23.8	0.30	2	1	1	0	3	0	2	1.17	7	40	38.9
213	49.7	27.8	-21.9	0.57	1	0	2	0	2	0	1	0.83	5	30	27.8
216	76.8	38.9	-37.9	0.72	3	0	2	1	2	0	2	1.17	7	40	38.9
226	31.6	27.8	-3.8	0.55	1	1	2	0	1	0	1	0.83	5	30	27.8
227	76.9	22.2	-54.7	0.42	3	0	1	1	1	0	1	0.67	4	25	22.2
230	47.2	27.8	-19.4	0.41	1	1	1	0	2	0	1	0.83	5	40	27.8
232	103.3	44.4	-58.9	0.28	3	1	2	1	2	1	1	1.33	8	45	44.4
233	65.7	44.4	-21.2	0.44	2	1	2	1	2	1	1	1.33	8	45	44.4
237	48.2	38.9	-9.3	0.41	1	0	2	0	2	1	2	1.17	7	40	38.9
245	59.3	38.9	-20.4	0.69	2	0	2	1	2	1	1	1.17	7	40	38.9
247	48.5	44.4	-4.1	0.36	1	0	2	1	2	1	2	1.33	8	45	44.4
269	58.3	44.4	-13.9	0.27	2	1	2	1	2	1	1	1.33	8	45	44.4
276	62.7	44.4	-18.3	0.24	2	0	2	1	2	1	2	1.33	8	45	44.4
289	49.0	44.4	-4.6	0.22	1	0	2	1	2	2	1	1.33	8	45	44.4
290	29.7	38.9	9.2	0.56	1	1	1	1	2	1	1	1.17	7	40	38.9
302	59.0	33.3	-25.6	0.45	2	0	1	1	1	1	2	1.00	6	35	33.3
304	30.2	44.4	14.2	0.73	1	1	2	1	2	1	1	1.33	8	45	44.4
307	90.6	27.8	-62.8	0.49	3	0	1	1	1	1	1	0.83	5	30	27.8
308	35.2	22.2	-12.9	0.77	1	1	1	0	1	0	1	0.67	4	25	22.2
311	104.4	33.3	-71.1	0.45	3	1	1	0	2	1	1	1.00	6	35	33.3
314	80.4	33.3	-47.1	0.78	3	1	2	0	1	1	1	1.00	6	35	33.3
315	50.2	44.4	-5.7	0.66	2	1	2	1	2	1	1	1.33	8	45	44.4
330	45.3	22.2	-23.1	0.40	1	0	1	0	2	0	1	0.67	4	25	22.2
331	40.3	44.4	4.2	0.47	1	1	2	1	2	1	1	1.33	8	45	44.4
332	80.4	44.4	-36.0	0.36	3	1	2	1	2	1	1	1.33	8	45	44.4
336	25.1	44.4	19.3	0.68	1	0	2	2	2	1	1	1.33	8	45	44.4
337	53.4	33.3	-20.1	0.34	2	0	1	1	2	1	1	1.00	6	35	33.3
344	67.6	22.2	-45.4	0.65	2	0	1	0	1	1	1	0.67	4	25	22.2
351	41.5	33.3	-8.2	0.46	1	0	1	1	2	1	1	1.00	6	35	33.3
353	29.0	22.2	-6.7	0.44	1	0	1	0	1	1	1	0.67	4	25	22.2
354	84.1	33.3	-50.8	0.35	3	1	1	1	1	1	1	1.00	6	35	33.3
357	38.9	44.4	5.5	0.42	1	0	2	1	2	1	2	1.33	8	45	44.4
360	44.3	44.4	0.1	0.50	1	0	2	1	2	1	2	1.33	8	45	44.4
361	30.5	27.8	-2.7	0.30	1	0	1	0	2	1	1	0.83	5	30	27.8
250	79.0	83.3	4.4	0.31	3	2	3	3	3	2	3	2.50	15	80	83.3
268	56.9	100.0	43.1	0.37	2	3	3	3	3	3	3	3.00	18	100	100.0
平均	65.4	平均誤差	37.6											平均	38.3

備考	不合格	不合格	22	31.9%	誤差	12.9
	合格	50点台で合格	8	11.6%	誤差	23.0
	合格	最低配点から合格	3	4.3%	誤差	51.8
	評価者と不一致	赤太字	29	40.8%		

表 17. 学説試験の学科目および実地試験2課題の主成分分析 (相関行列)

相関 (学説素データ.sta)											
	全	人	解	理	顎	法	有	冠	矯	小	技
全	1.000000	0.537470	0.227449	0.232501	0.164870	0.092908	0.209694	0.221012	0.273473	0.277076	0.075425
人	0.537470	1.000000	0.254862	0.216558	0.136484	0.120179	0.223434	0.305458	0.211992	0.247062	0.093205
解	0.227449	0.254862	1.000000	0.673915	0.544434	0.402588	0.613251	0.679825	0.535823	0.488893	0.464980
理	0.232501	0.216558	0.673915	1.000000	0.545050	0.471003	0.703914	0.689456	0.562573	0.499605	0.466523
顎	0.164870	0.136484	0.544434	0.545050	1.000000	0.309375	0.551500	0.575046	0.548452	0.442787	0.390543
法	0.092908	0.120179	0.402588	0.471003	0.309375	1.000000	0.451555	0.523701	0.446503	0.334358	0.359797
有	0.209694	0.223434	0.613251	0.703914	0.551500	0.451555	1.000000	0.736601	0.576777	0.472771	0.513725
冠	0.221012	0.305458	0.679825	0.689456	0.575046	0.523701	0.736601	1.000000	0.632128	0.560977	0.546650
矯	0.273473	0.211992	0.535823	0.562573	0.548452	0.446503	0.576777	0.632128	1.000000	0.558462	0.448530
小	0.277076	0.247062	0.488893	0.499605	0.442787	0.334358	0.472771	0.560977	0.558462	1.000000	0.369217
技	0.075425	0.093205	0.464980	0.466523	0.390543	0.359797	0.513725	0.546650	0.448530	0.369217	1.000000

表18. 学説試験と実地試験の主成分分析

因子負荷量 (バリマックス法) (スプレッドシート1) 抽出法: 主成分分析 (マーク: 負荷量 >.700000)			
	因子1	因子2	因子3
全	0.158068	0.856887	-0.028312
人	0.080118	0.862404	0.130706
解	0.731802	0.170555	0.289290
理	0.719371	0.143848	0.391297
顎	0.831712	0.025822	-0.010174
法	0.217336	0.049968	0.897573
有	0.721447	0.122423	0.401580
冠	0.727782	0.187477	0.462974
矯	0.708233	0.187897	0.280080
小	0.674086	0.261300	0.113175
技	0.552933	-0.067245	0.420124
説明済分散	4.135285	1.689182	1.703797
寄与率	0.375935	0.153562	0.154891

表19. 共分散行列の固有値と関連する統計量

共分散行列の固有値と関連する統計量 (学説素データ.sta) アクティブな変数のみ				
	固有値	寄与率	累積	累積
1	1813.559	55.36003	1813.559	55.3600
2	560.591	17.11239	2374.150	72.4724
3	226.215	6.90534	2600.365	79.3778
4	178.369	5.44481	2778.733	84.8226
5	132.484	4.04415	2911.217	88.8667
6	96.395	2.94252	3007.612	91.8092
7	75.686	2.31035	3083.298	94.1196
8	56.347	1.72002	3139.645	95.8396
9	50.600	1.54460	3190.245	97.3842
10	46.444	1.41774	3236.689	98.8020
11	39.247	1.19803	3275.936	100.0000

表20. 学説試験学科目と実地試験課題における主成分分析の因子負荷量

因子負荷量 (バリマックス法) (スプレッドシート 37) 抽出法: 主成分分析 (マーク: 負荷量 >.700000)

	因子	因子
全	-0.053009	0.929279
人	0.010915	0.923726
解	0.943362	0.023301
理	0.949506	0.019796
顎	0.926562	-0.130944
法	0.887193	-0.203273
有	0.956836	-0.014397
冠	0.973782	0.042755
矯	0.945871	0.008991
小	0.909756	0.126683
技	0.887435	-0.274789
説明済分散	7.813706	1.869903
寄与率	0.710337	0.169991

表21. 学説試験学科目と実地試験課題における主成分分析の因子スコア係数

因子スコア係数 (スプレッドシート 37) 回転法: バリマックス法 抽出法: 主成分分析

	因子	因子
全	0.018361	0.500818
人	0.026479	0.499552
解	0.122649	0.038193
理	0.123349	0.036466
顎	0.116291	-0.045629
法	0.109236	-0.085789
有	0.123369	0.018184
冠	0.127112	0.049533
矯	0.122586	0.030527
小	0.121108	0.093158
技	0.107326	-0.124436

表2.2. 二年制養成機関と三年制養成機関との成績比較
(学説試験)

独立2標本のt検定 (スプレッドシート 15) 注: 変数は独立標本として処理した。											
	平均	平均	t 値	df	p	ケース数	ケース数	標準偏差	標準偏差	F 比	p
変数 1 vs. 変数 3	510.1821	571.7143	-2.24941	365	0.025082	346	21	121.4335	126.4959	1.085115	0.726280

(実地試験)

独立2標本のt検定 (スプレッドシート 15) 注: 変数は独立標本として処理した。											
	平均	平均	t 値	df	p	ケース数	ケース数	標準偏差	標準偏差	F 比	p
変数 2 vs. 変数 4	103.0661	137.4286	-4.35415	352	0.000018	333	21	35.78805	19.82062	3.260179	0.002943

表2.3. 今年度の課題以外に

実地試験に必要と思われる課題

ワイヤークラサプの屈曲・鑄造鉤の蟻形成
ワックスによる歯型彫刻
インレーの蟻形成
ブリッジの蟻形成
総義歯の人工歯排列・歯肉形成
支台築造 (鑄造ポスト・コア)

図1. 実地試験に用いた石膏模型と完成作品

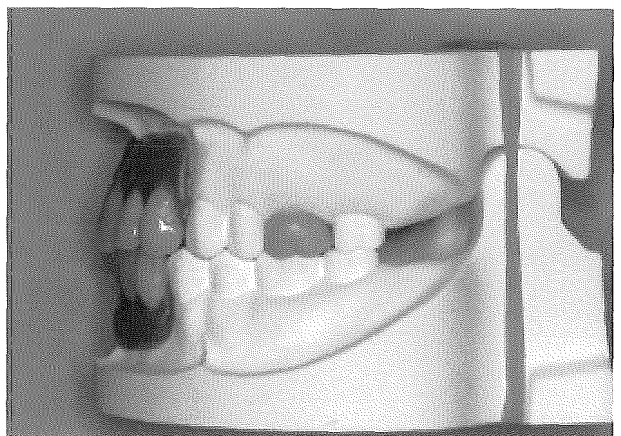
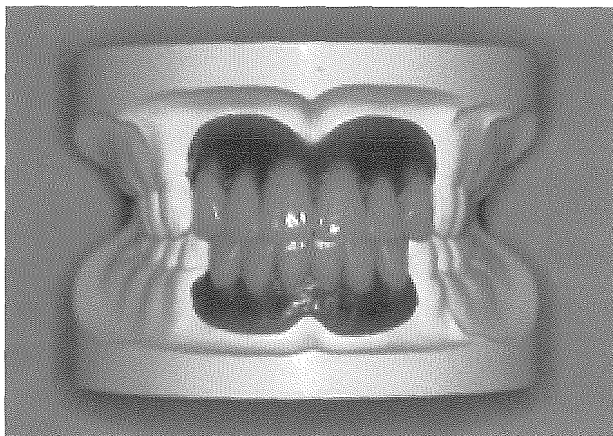
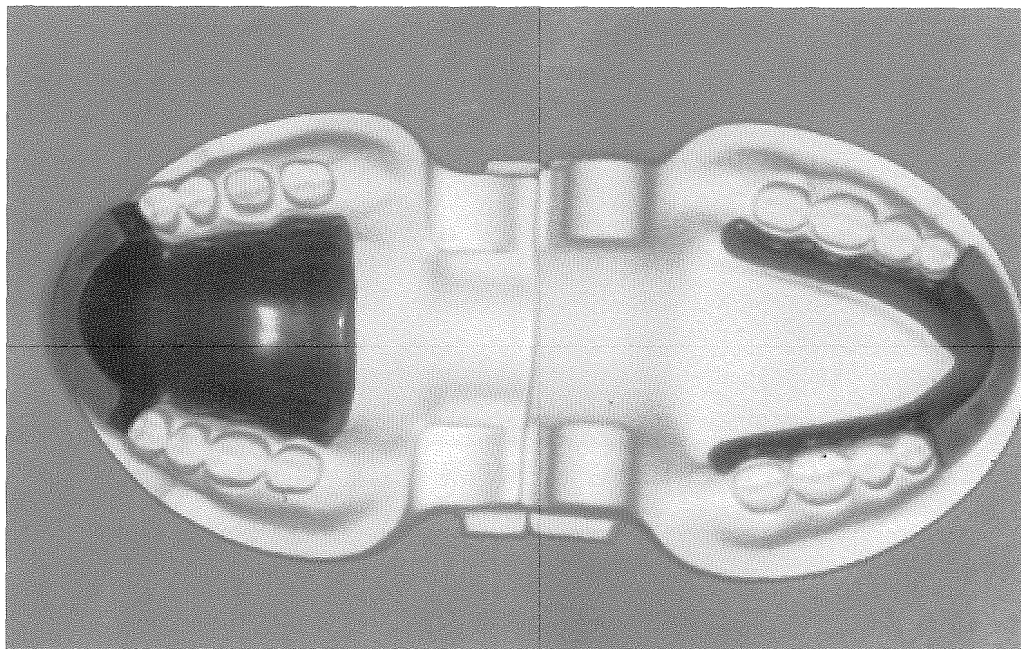
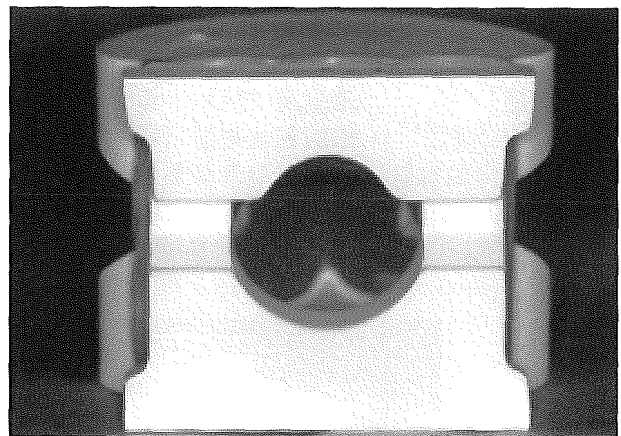
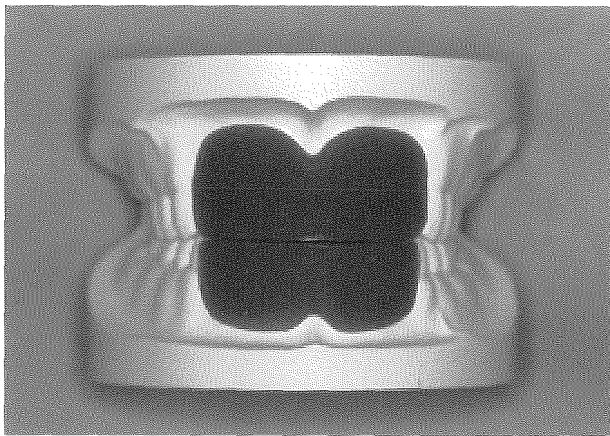
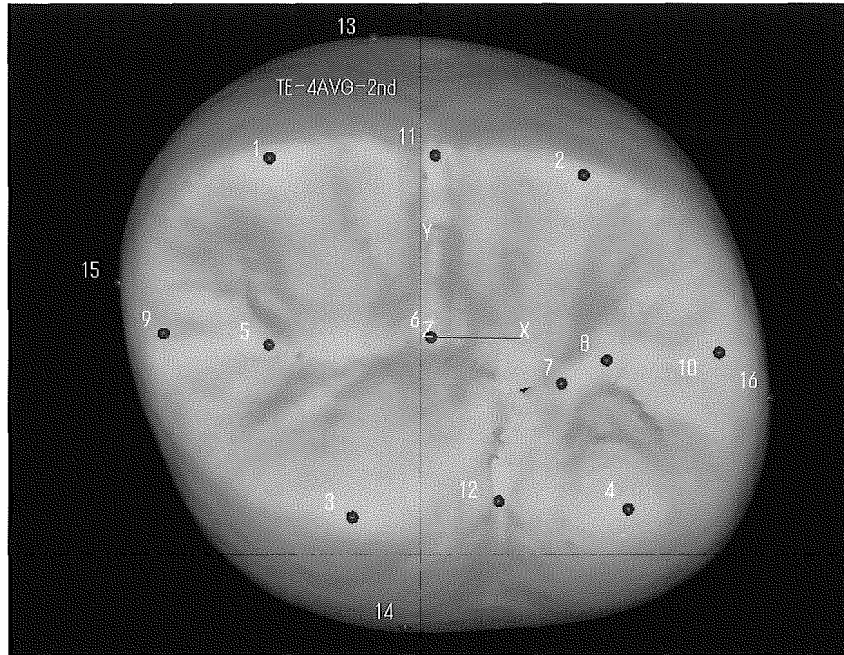


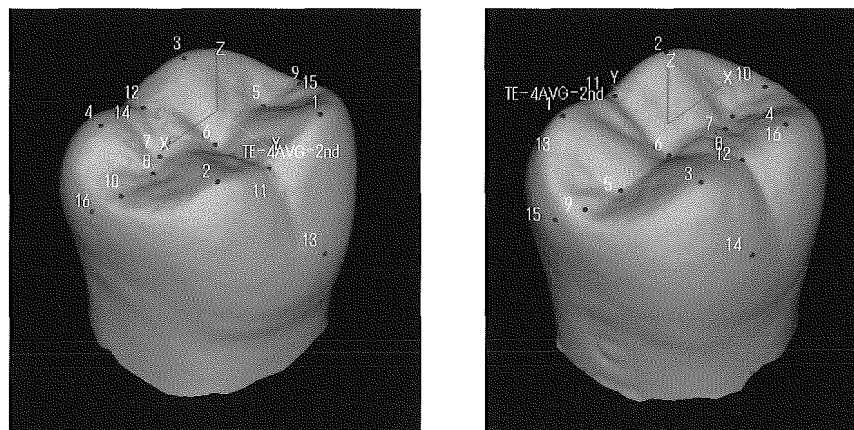
図2. 全部鑄造冠蟻形成の解析評価位置 () 内は評価位置のラベルを示す

- 【咬頭の位置】 頬側近心咬頭 (1) 頬側遠心咬頭 (2) 舌側近心咬頭 (3) 舌側遠心咬頭 (4)
- 【窩の位置】 近心小窩 (5) 中央窩 (6) 遠心窩 (7) 遠心小窩 (8)
- 【辺縁隆線の位置】 近心辺縁隆線 (9) 遠心辺縁隆線 (10)
- 【裂溝の位置】 頬側溝 (11) 舌側溝 (12)
- 【最大豊隆の位置】 頬側最大豊隆 (13) 舌側最大豊隆 (14)
- 【コンタクトの位置】 近心コンタクト (15) 遠心コンタクト (16)
- 【咬合の位置】 左側6番歯 上顎頬側近心咬頭 (17) 下顎頬側溝 (18: 一定)

※ 計測データは、上下の咬合確認であるため、人工歯排列模型で計測した上記の位置座標を用いた。



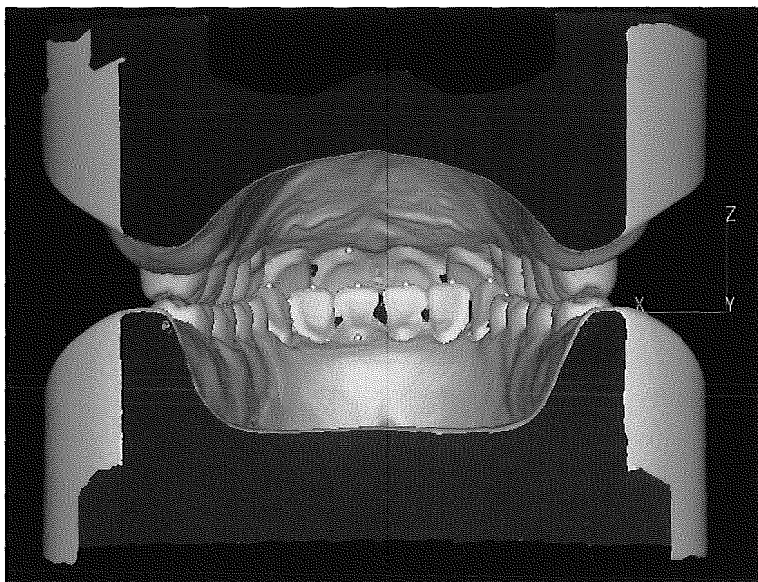
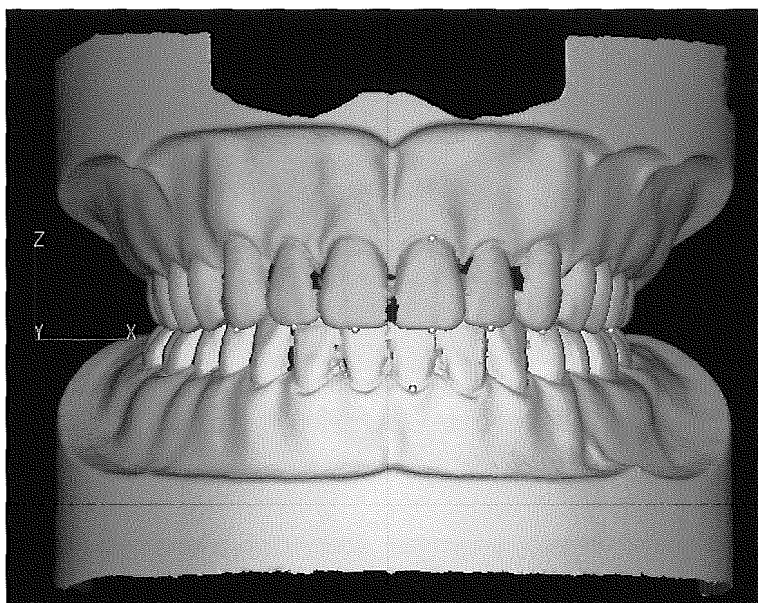
咬合面から見た解析評価位置



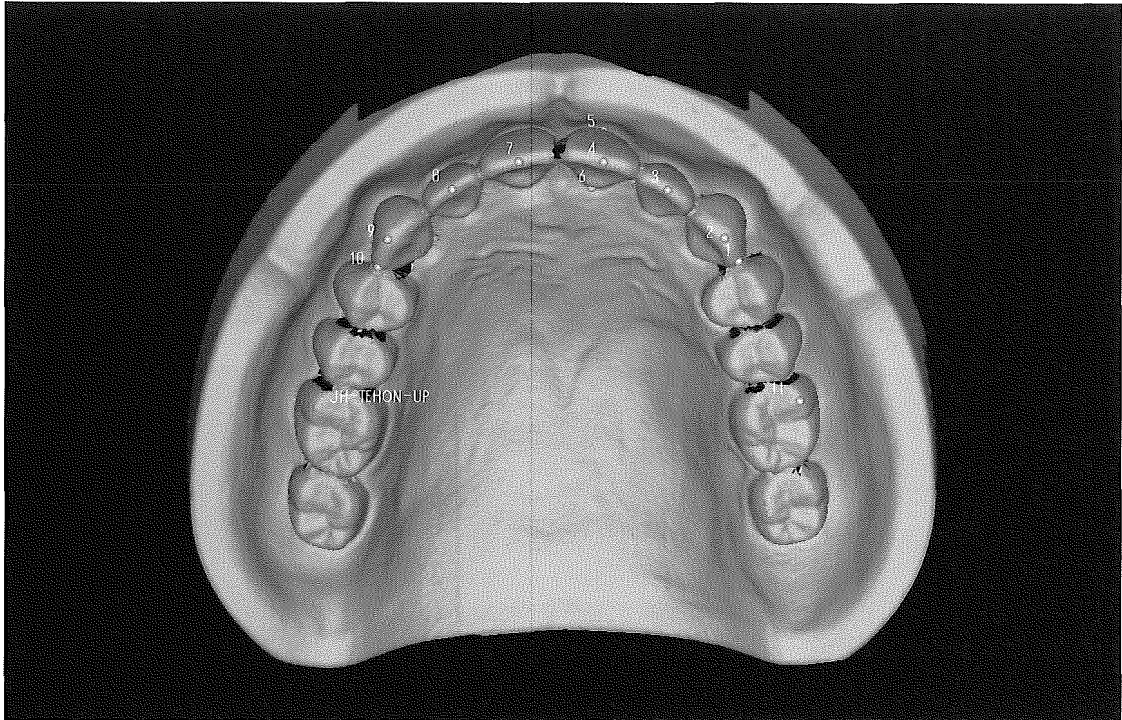
近遠心面から見た解析評価位置

図3. 人工歯排列の解析評価位置 () 内は評価位置のラベルを示す

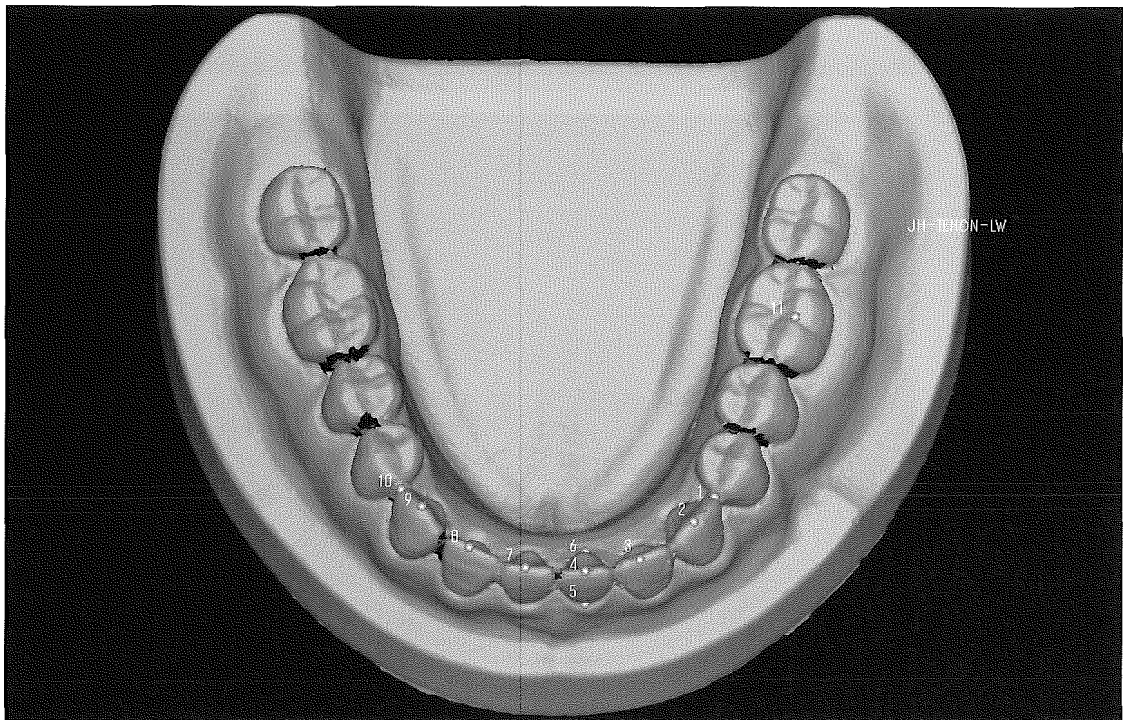
- | | | | | |
|--------------|----------------|-----------|-------------|----------|
| 【切端の位置】 | 上顎左側 | 中切歯切端 (4) | 側切歯切端 (3) | 犬歯切端 (2) |
| | 右側 | 中切歯切端 (7) | 側切歯切端 (8) | 犬歯切端 (9) |
| | 下顎左側 | 中切歯切端 (4) | 側切歯切端 (3) | 犬歯切端 (2) |
| | 右側 | 中切歯切端 (7) | 側切歯切端 (8) | 犬歯切端 (9) |
| 【遠心のコンタクト位置】 | 上顎左側犬歯遠心コンタクト | (1) | 右側犬歯遠心コンタクト | (10) |
| | 下顎左側犬歯遠心コンタクト | (1) | 右側犬歯遠心コンタクト | (10) |
| 【歯頸部下点の位置】 | 上顎左側中切歯唇側歯頸部下点 | (5) | 舌側歯頸部下点 | (6) |
| | 下顎左側中切歯唇側歯頸部下点 | (5) | 舌側歯頸部下点 | (6) |



上下顎咬合状態の前後から見た解析評価位置



上顎咬合面から見た解析評価位置



下顎咬合面から見た解析評価位置

図4. 学説試験総合計点数の度数分布

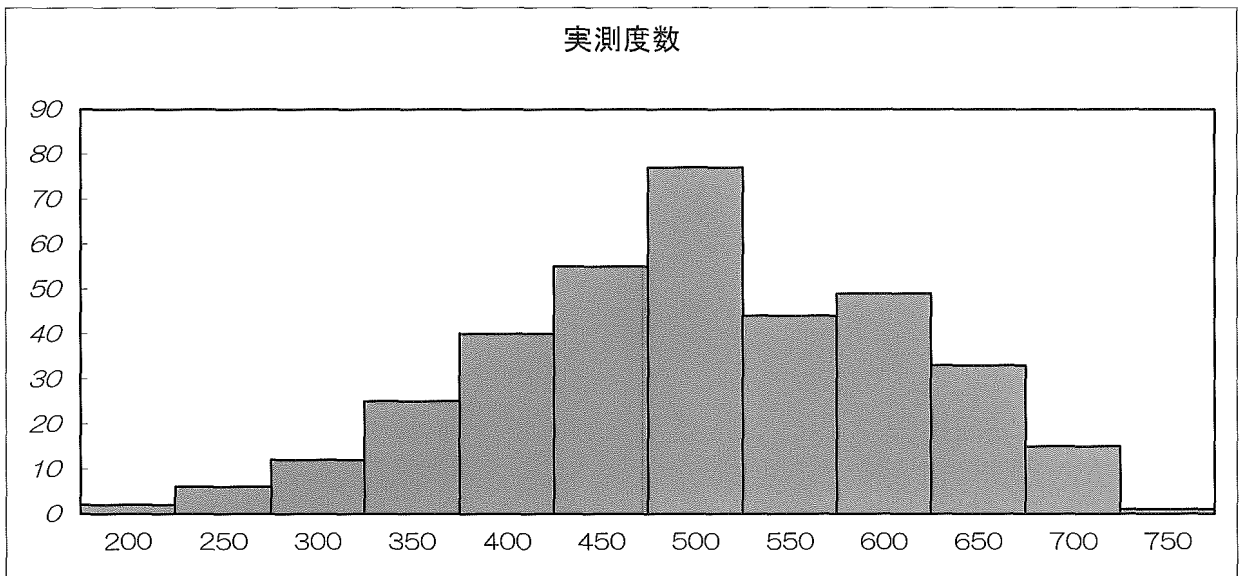


図5. 学説試験科目別の平均点

