

Orthodontic analysis improves the accuracy of lip morphology prediction in facial reconstruction

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	Ak-Pr	Ak-InS	Ak-Me	Ss-Pr	Ss-Sm	Pr-InS	Pr-Id	Id-Sm	Id-Me	CejU1-InS	CN(L-R)	U1d(L-R)	U3d(L-R)	CejU3(L-R)	N-A-P	SNA	SNB	ANB	Gn-Go to S-N	U1 to NS	L1 to Gn-Go	L1 to Op	U1 to L1	InS to NP mm	Sex group	Age group
Philtrum height	0.40	0.51	0.45	0.39	0.42	0.35	0.15	0.17	0.27	0.02	0.14	0.01	-0.11	0.12	0.35	0.04	-0.18	0.35	0.22	-0.26	0.14	-0.21	-0.01	0.31	-0.27	0.39
Total upper lip height	0.62	0.71	0.68	0.51	0.59	0.35	0.21	0.29	0.44	0.11	0.10	0.01	-0.05	0.10	0.40	0.06	-0.17	0.36	0.35	-0.16	0.17	-0.29	-0.16	0.49	-0.27	0.18
Total lip height	0.54	0.62	0.69	0.44	0.65	0.30	0.36	0.30	0.41	0.15	0.18	0.03	0.06	0.14	0.19	0.04	-0.06	0.15	0.26	-0.06	0.11	-0.19	-0.18	0.35	-0.26	0.18
Lower facial height to ChinA	0.44	0.50	0.73	0.36	0.62	0.25	0.38	0.29	0.54	0.09	0.15	0.06	0.19	0.16	-0.09	0.02	0.10	-0.13	0.14	0.03	-0.08	0.01	-0.05	0.10	-0.41	0.13
Upper midline vermillion height	0.32	0.29	0.35	0.16	0.24	-0.01	0.08	0.18	0.26	0.15	-0.08	-0.01	0.11	-0.03	0.06	0.03	0.02	0.01	0.18	0.17	0.04	-0.12	-0.25	0.27	0.02	-0.35
Total vermillion height	0.38	0.35	0.38	0.23	0.25	-0.01	0.09	0.12	0.25	0.18	-0.05	0.10	0.17	0.05	0.16	0.02	-0.02	0.06	0.23	0.15	0.13	-0.22	-0.31	0.36	-0.03	-0.39
Lower vermillion height	0.35	0.32	0.32	0.23	0.20	0.00	0.09	0.04	0.19	0.16	-0.01	0.16	0.19	0.11	0.20	0.01	-0.05	0.09	0.22	0.10	0.18	-0.25	-0.29	0.36	-0.07	-0.33
Upper paramedian vermillion height L	0.38	0.40	0.43	0.22	0.31	0.10	0.13	0.17	0.28	0.19	-0.04	0.05	0.10	0.06	0.11	0.05	0.03	0.04	0.19	0.15	0.05	-0.16	-0.24	0.34	-0.04	-0.29
Upper paramedian vermillion height R	0.34	0.36	0.40	0.19	0.31	0.09	0.14	0.20	0.26	0.19	-0.07	0.06	0.15	0.09	0.09	0.10	0.08	0.02	0.14	0.15	0.08	-0.18	-0.25	0.32	-0.02	-0.28
Nasal alar base width	0.08	0.14	0.27	0.18	0.29	0.15	0.20	0.08	0.22	-0.06	0.39	0.20	0.20	0.24	0.06	0.18	0.17	-0.01	-0.07	0.06	0.10	-0.09	-0.07	0.17	-0.42	0.34
Philtrum width	-0.02	-0.04	0.04	-0.01	-0.04	-0.05	0.07	-0.10	0.07	0.06	0.23	0.32	0.34	0.31	-0.01	0.20	0.23	-0.08	-0.22	0.16	0.13	-0.16	-0.12	0.06	-0.27	0.07
Mouth width	0.10	0.10	0.15	0.16	0.06	0.03	-0.03	0.01	0.22	-0.09	0.37	0.42	0.37	0.41	-0.04	0.08	0.12	-0.07	-0.19	0.02	0.14	-0.08	-0.01	-0.01	-0.39	0.37
Ss-Ss'	-0.18	-0.22	0.01	-0.01	0.10	-0.12	0.08	0.09	0.11	0.19	0.05	0.11	0.25	0.14	-0.35	0.07	0.31	-0.40	-0.36	0.35	0.02	0.05	-0.12	-0.12	-0.60	-0.23
Pr-Pr'	-0.19	-0.14	0.08	-0.12	0.12	0.11	0.24	0.00	0.09	0.22	0.16	0.13	0.28	0.15	-0.26	0.01	0.20	-0.32	-0.26	0.31	0.06	0.05	-0.16	-0.09	-0.62	-0.12
InS-InS'	-0.10	-0.10	-0.12	0.06	-0.07	-0.02	-0.17	0.02	0.03	-0.02	0.01	0.07	0.10	0.10	-0.31	-0.13	0.03	-0.23	-0.22	-0.21	-0.23	0.39	0.46	-0.56	-0.18	-0.21
Id-Id'	0.07	0.07	0.14	0.14	0.12	0.00	0.08	-0.03	0.12	0.33	-0.01	0.08	0.18	0.09	-0.01	0.00	0.00	0.01	-0.14	0.16	0.13	-0.04	-0.14	0.05	-0.49	-0.27
Sm-Sm'	0.21	0.22	0.34	0.25	0.43	0.04	0.17	0.35	0.27	0.22	-0.15	0.03	0.02	-0.03	0.16	0.10	0.01	0.14	0.13	0.12	0.05	-0.08	-0.19	0.32	-0.27	-0.07
Pg-Pg'	0.29	0.24	0.30	0.29	0.29	-0.07	0.01	0.28	0.28	0.19	-0.09	0.09	0.02	0.06	0.27	0.11	-0.03	0.20	0.12	0.06	0.10	-0.12	-0.14	0.32	-0.21	-0.20

Online Resource 11. Pearson correlation analysis between dependent and explanatory variables. Bold numbers indicate significant results.