

Author, year	Immediate																	
	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superoinferior [mm]		
	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min
Gomes <i>et al.</i> (36)	4.0 (5.5)	18.3	-11.8	-5.5 (6.6)	8.7	-30.5	-7.7 (7.6)	14.0	-32.3	-1.5 (1.7)	2.5	-7.3	-0.6 (1.2)	3.2	-3.5	-0.9 (1.2)	2.3	-5.0
	3.2 (5.1)	12.1	-10.6	-2.4 (5.4)	6.1	-13.5	-3.3 (5.5)	7.9	-18.6	-1.0 (1.4)	1.4	-4.8	-0.7 (0.7)	1.0	-2.4	0.1 (0.8)	1.2	-1.9
	3.8 (5.1)	11.6	-5.0	-0.3 (5.3)	8.9	-12.3	-1.4 (4.6)	10.7	-8.5	-0.9 (1.3)	1.1	-2.6	-0.9 (1.1)	0.4	-3.2	0.3 (0.9)	0.4	-3.2
Gomes <i>et al.</i> (23)	4.5 (6.0)	18.3	-11.8	-5.2 (7.3)	8.7	-30.5	-7.5 (8.0)	14	-32.3	-1.5 (1.8)	2.5	-7.3	-0.6 (1.3)	3.2	-3.5	-1.0 (1.3)	2.3	-5.0
Xue <i>et al.</i> (40)	0.64	1.10	0.17	2.25	5.26	0.07	1.03	1.88	0.88	-0.46	-0.02	-1.01	0.32	0.93	0.06	0.46	0.67	0.12
	0.34	0.63	0.18	2.25	5.84	0.09	0.86	2.42	0.10	-0.53	-0.01	-1.04	0.51	1.35	0.06	0.61	1.13	0.03
	-3.85	-0.68	-4.45	-1.13	-0.06	-3.39	-2.69	-0.76	-6.19	0.76	1.83	0.04	-0.47	-0.06	-0.72	-0.54	-0.09	-1.41
	-3.00	-0.63	-8.16	-1.14	0.08	-1.80	-0.58	-0.02	-1.50	0.74	1.99	0.01	-0.41	-0.01	-1.15	-0.49	-0.05	-1.43
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
He <i>et al.</i> (37)	-3.47 (4.45)	-2.05	-4.89	0.13 (4.13)	1.45	-1.19	2.24 (13.16)	6.45	-1.97	0.79 (1.34)	1.22	0.36	-0.10 (0.78)	0.15	-0.35	-0.68 (1.32)	-0.26	-1.10
	-3.05 (3.8)	-1.95	-4.15	-0.67 (2.52)	0.06	-1.40	1.38 (9.79)	4.22	-1.46	0.67 (0.87)	0.92	0.42	0.19 (0.45)	0.32	0.06	-0.33 (0.60)	-0.16	-0.50
Park <i>et al.</i> (38)	-0.18 (3.84)	1.25	-1.61	-4.57 (7.8)	-1.66	-7.48	3.43 (6.47)	5.85	1.01	-0.76 (0.97)	-0.40	-1.12	1.23 (1.79)	1.90	0.56	-2.63 (1.54)	-2.05	-3.21
	-1.66 (7.1)	1.49	-4.81	-6.62 (4.7)	-4.54	-8.70	5.09 (7.14)	8.26	1.92	-0.76 (1.34)	-0.17	-1.35	1.14 (1.35)	1.74	0.54	-1.93 (1.9)	-1.09	-2.77
Wang <i>et al.</i> (31)	-3.26 (3.13)	-2.44	-4.08	-0.3 (3.25)	0.55	-1.15	4.08 (13.25)	7.56	0.60	0.65 (0.95)	0.9	0.4	-0.03 (0.64)	0.14	-0.20	-0.65 (0.90)	-0.41	-0.89
	-3.26 (3.65)	-2.24	-4.28	0.86 (4.22)	2.03	-0.31	0.5 (18.17)	5.56	-4.56	0.56 (0.71)	0.76	0.36	-0.09 (0.77)	0.12	-0.30	-0.64 (0.93)	-0.38	-0.90
Kim <i>et al.</i> (27)	-0.48 (1.00)	-0.16	-0.80	-0.04 (0.91)	0.25	-0.33	-0.21 (0.97)	0.10	-0.52	0.41 (0.74)	0.65	0.17	-0.09 (0.51)	0.07	-0.25	0.14 (0.38)	0.26	0.02
Wan <i>et al.</i> (39) <sup>§</sup>	-	14.27	0.71	-	19.82	0.75	-	116.16 (28.29)	0.39	-	3.79	0	-	3.48	0	-	2.79	0.05
6 weeks																		
Author, year	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superoinferior [mm]		
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
	Zupnik <i>et al.</i> (41)	-7.55 (6.33)	-5.27	-9.83	5.58 (3.61)	6.88	4.28	-3.22 (2.23)	-2.42	-4.02	-0.88 (0.6)	-0.66	-1.10	1.02 (1.11)	1.42	0.62	-0.58 (0.4)	-0.44
Han <i>et al.</i> (22)	-5.41 (3.07)	-4.22	-6.60	4.63 (2.35)	5.54	3.72	-2.30 (1.27)	-1.81	-2.79	-0.6 (0.47)	-0.42	-0.78	0.5 (0.47)	0.68	0.32	-0.3 (0.31)	-0.18	-0.42
	3.05 (3.17)	4.19	1.91	-2.50 (3.81)	-1.13	-3.87	6.07 (5.15)	7.93	4.21	1.30 (1.30)	1.77	0.83	-1.23 (1.32)	-0.75	-1.71	0.94 (0.80)	1.23	0.65
	0.95 (0.78)	1.25	0.65	-2.07 (1.77)	-1.38	-2.76	2.47 (1.79)	3.16	1.78	0.26 (0.33)	0.39	0.13	-0.47 (0.32)	-0.35	-0.59	0.7 (0.79)	1.01	0.39
3 months																		
Author, year	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superoinferior [mm]		
	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min
Ma <i>et al.</i> (43)	2.7 (2.0)	6.2	0.5	2.4 (2.0)	7.8	0.1	3.6 (2.3)	9.8	0.1	0.3 (0.2)	0.9	0.02	0.4 (0.6)	3.8	0.0	0.3 (0.2)	0.7	0.1
	-3.4 (2.9)	-0.2	-13.1	-2.7 (1.8)	-0.6	-8.7	-4.4 (5.9)	-0.8	-23.8	-0.7 (0.7)	0.0	-4.84	-0.3 (0.2)	-0.0	-1.3	-0.6 (0.6)	0.0	-3.2
Ma <i>et al.</i> (43)	-4.14 (3.70)	-2.98	-5.29	-1.49 (1.92)	-0.89	-2.08	0.95 (2.88)	1.85	0.05	-0.06 (0.65)	0.14	-0.27	0.02 (0.51)	0.17	-0.13	0.06 (0.41)	0.19	-0.07
6 months																		
Author, year	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superoinferior [mm]		
	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min
Ma <i>et al.</i> (43)	-4.1 (3.86)	-2.90	-5.31	-1.3 (2.21)	-0.61	-1.99	0.78 (3.13)	1.76	-0.19	-0.05 (0.64)	0.49	-0.25	0.09 (0.48)	0.23	-0.07	-0.12 (0.38)	-0.01	-0.24
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
Wang <i>et al.</i> (31)	-1.98 (3.1)	-1.16	-2.80	-0.19 (2.92)	0.58	-0.96	2.02 (12.78)	5.38	-1.34	0.03 (1.48)	0.42	-0.36						

**Figure S1** Condyle positional changes. (+) indicates lateral, anterior and superior movement, outward yaw, medial roll and counterclockwise pitch. (-) indicates medial, posterior and inferior movement, inward yaw, lateral roll and clockwise pitch.  $\dagger$ , mean + 95% CI.  $\ddagger$ , mean - 95% CI.  $\S$ , absolute values (value 0 for the Q3), after surgical splint removal.

Immediate																		
Author year	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superioinferior [mm]		
	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min	Mean (SD)	Max	Min
Lim et al. (9)	-3.4 (4)	-1.7	-5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-4.3 (2.5)	-3.1	-5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-2.3 (2.8)	-0.9	-3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Li et al. (1)	-3.93 (3.92)	4.46	-10.25	-0.1 (2.4)	3.20	-5.05	-	-	-	0.50 (0.90)	2.56	-1.27	>0.2	-	-	-1.00 (1.10)	1.45	-3.01
	-3.06 (3.37)	3.67	-9.59	-0.4 (3.1)	5.17	-5.25	-	-	-	1.50 (1.60)	5.18	-0.27	>0.2	-	-	-1.20 (1.00)	-0.03	-3.34
Han et al. (28)	-2.70 (3.13)	2.83	-11.63	-1.01 (3.48)	5.91	-6.19	-	-	-	1.30 (0.97)	5.09	-0.31	-0.11 (0.69)	2.29	-2.04	0.34 (1.01)	3.19	-2.07
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
Sander et al. (30)	2.93 (4.46)	3.93	1.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.75 (4.94)	1.86	-0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xi et al. (21)	-0.34 (3.99)	0.50	-1.18	3.42 (2.85)	4.02	2.82	1.13 (2.1)	1.57	0.69	-	-	-	-	-	-	-	-	-
	0.09 (3.68)	1.72	-1.54	4.51 (2.18)	5.48	3.54	2.84 (2.41)	3.91	1.77	-	-	-	-	-	-	-	-	-
Xi et al. (3)	1.0 (4.0)	1.8	0.2	3.6 (3.0)	4.2	3.0	1.6 (4.1)	2.4	0.8	-	-	-	-	-	-	-	-	-
Li et al. (1)	-5.17 (2.29)	-4.03	-6.31	-0.62 (2.82)	0.78	-2.02	-	-	-	0.76 (0.84)	1.18	0.34	-0.01 (0.87)	0.42	-0.44	-1.22 (1.29)	-0.58	-1.86
	-2.69 (4.85)	-0.28	-5.10	0.42 (1.86)	1.34	-0.50	-	-	-	0.20 (0.82)	0.61	-0.21	0.25 (0.60)	0.55	-0.05	-0.83 (0.81)	-0.43	-1.23
	-3.92 (3.81)	-2.03	-5.81	-1.55 (3.43)	0.16	-3.26	-	-	-	1.69 (2.10)	2.73	0.65	0.03 (0.48)	0.27	-0.21	-1.81 (1.17)	-1.23	-2.39
	-2.21 (2.96)	-0.74	-3.68	0.74 (2.58)	2.02	-0.54	-	-	-	1.30 (1.15)	1.87	0.73	0.07 (0.58)	0.36	-0.22	-0.63 (0.34)	-0.46	-0.80
Hwang et al. (24)	2.70 (3.13)	7.68	-2.28	-	-	-	-	-	-	1.04 (0.65)	1.24	0.84	-0.57 (0.29)	-0.40	-0.74	0.30	-	-
	-4.53 (2.2)	-3.89	-5.17	-	-	-	-	-	-	-0.57 (0.29)	-0.40	-0.74	-0.81 (0.46)	-0.67	-0.95	-1.41 (0.71)	-1.20	-1.62
Tyan et al. (32)	-0.01 (2.44)	1.13	-1.15	-0.29 (3.26)	1.24	-1.82	-	-	-	-	-	-	-	-	-	-	-	-
	-0.92 (3.62)	0.77	-2.61	1.14 (2.85)	2.47	-0.19	-	-	-	-	-	-	-	-	-	-	-	-
Choi et al. (35)	-2.30 (6.54)	0.14	-4.74	-0.94 (2.75)	0.09	-1.97	-	-	-	-	-	-	-	-	-	-	-	-
	-2.20 (3.36)	-0.95	-3.45	-1.02 (3.11)	0.14	-2.18	-	-	-	-	-	-	-	-	-	-	-	-
Park et al. (33)	-0.52 (4.1)	0.87	-1.91	-1.42 (2.92)	-0.43	-2.41	-	-	-	0.03 (3.79)	1.31	-1.25	0.51 (4.09)	1.89	-0.87	-2.88 (3.10)	-1.83	-3.93
	-1.36 (3.82)	1.83	-4.55	-0.30 (3.58)	2.69	-3.29	-	-	-	-0.03 (4.64)	3.85	-3.91	0.71 (4.37)	4.36	-2.94	-3.44 (1.93)	-1.83	-5.05
	-0.28 (4.21)	1.35	-1.91	-1.74 (2.29)	-0.85	-2.63	-	-	-	0.04 (3.61)	1.44	-1.36	0.45 (4.09)	2.04	-1.14	-2.66 (3.37)	-1.35	-3.97
Choi et al. (26)	-2.48 (4.19)	-0.92	-4.04	-1.8 (3.88)	-0.35	-3.25	-	-	-	-	-	-	-	-	-	-	-	-
	-2.72 (4.27)	-1.13	-4.31	-0.98 (4.45)	0.68	-2.64	-	-	-	-	-	-	-	-	-	-	-	-
	10.8 (9.4)	-	-	-	-	-	-	-	-	-	-	-	1.0 (1.3)	-	-	-1.8 (1.4)	-	-
Rokutanda et al. (42)	8.1 (5.9)	-	-	-	-	-	-	-	-	-	-	-	0.5 (0.7)	-	-	-1.7 (0.7)	-	-
	3 (6.5)	-	-	-	-	-	-	-	-	-	-	-	0.2 (0.5)	-	-	-1.2 (0.5)	-	-
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
3 months																		
Author year	Yaw [°]			Roll [°]			Pitch [°]			Mediolateral [mm]			Anteroposterior [mm]			Superioinferior [mm]		
	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>	Mean (SD)	Max <sup>†</sup>	Min <sup>‡</sup>
Yang et al. (25)	-1.50 (3.76)	0.02	-3.02	1.46 (4.69)	3.35	-0.43	-	-	-	-	-	-	-	-	-	-	-	-
	-3.95 (2.96)	-2.48	-5.42	1.53 (2.73)	2.89	0.17	-	-	-	-	-	-	-	-	-	-	-	-
	-1.53 (4.22)	0.17	-3.23	-0.5 (5.62)	1.77	-2.77	-	-	-	-	-	-	-	-	-	-	-	-
	-2.19 (1.89)	-1.25	-3.13	0.57 (3.95)	2.53	-1.39	-	-	-	-	-	-	-	-	-	-	-	-
Tyan et al. (32)	1.00 (1.81)	1.85	0.15	-0.67 (2.60)	0.55	-1.89	-	-	-	-	-	-	-	-	-	-	-	-
	0.36 (3.67)	2.08	-1.36	0.02 (3.90)	1.85	-1.81	-	-	-	-	-	-	-	-	-	-	-	-
Rokutanda et al. (42)	5.5 (7.1)	-	-	-	-	-	-	-	-	-	-	-	0.51 (0.8)	-	-	-0.47 (0.68)	-	-
	4.1 (6.2)	-	-	-	-	-	-	-	-	-	-	-	0.51 (0.47)	-	-	-0.51 (0.47)	-	-
	-0.3 (6.6)	-	-	-	-	-	-	-	-	-	-	-	0.55 (0.08)	-	-	-0.97 (0.32)	-</	