

**Supplemental Table 1: Proportion Correct & Reaction Time within degree of rotation between Surgeons and Laypersons**

Condition	% Correct				Reaction Time (seconds)			
	Surgeons	Laypersons	OR (95% CI)	<sup>1</sup> p	Surgeons	Laypersons	e <sup>b</sup> (95% CI)	<sup>2</sup> p
<b>Overall</b>	87.7%	64.0%	4.53 (3.66, 5.61)	<.001	2.77	1.40	1.98 (1.79, 2.20)	<.001
<b>Normal</b>								
0°-180°	88.4%	81.5%	2.02 (1.30, 3.14)	0.001	3.66	1.48	2.47 (2.17, 2.80)	<.001
0°	91.4%	81.3%	2.97 (1.54, 5.72)	0.001	3.50	1.54	2.26 (1.93, 2.66)	<.001
45°	86.5%	80.3%	1.84 (1.05, 3.23)	0.034	3.89	1.56	2.49 (2.14, 2.90)	<.001
90°	90.4%	83.6%	2.25 (1.23, 4.10)	0.008	3.71	1.49	2.49 (2.18, 2.84)	<.001
135°	88.1%	81.8%	1.94 (1.09, 3.47)	0.025	3.63	1.40	2.59 (2.27, 2.95)	<.001
180°	93.4%	83.4%	3.83 (1.75, 8.38)	<.001	3.34	1.42	2.36 (2.02, 2.74)	<.001
<b>Peak A</b>								
0°-180°	82.6%	44.1%	14.2 (8.4, 24.1)	<.001	2.60	1.65	1.58 (1.39, 1.79)	<.001
0°	89.9%	58.6%	19.6 (7.0, 55.0)	<.001	2.25	1.52	1.47 (1.28, 1.69)	<.001
45°	90.3%	49.0%	27.2 (12.7, 58.0)	<.001	2.47	1.66	1.49 (1.30, 1.71)	<.001
90°	76.8%	41.4%	13.2 (6.4, 27.3)	<.001	2.59	1.66	1.56 (1.33, 1.83)	<.001
135°	77.3%	38.7%	13.7 (6.9, 27.3)	<.001	2.86	1.74	1.65 (1.29, 2.10)	<.001
180°	81.7%	36.0%	46.2 (16.0, 132.9)	<.001	2.40	1.55	1.55 (1.32, 1.81)	<.001
<b>Peak B</b>								
0°-180°	72.6%	38.2%	7.1 (4.7, 10.7)	<.001	3.46	1.84	1.89 (1.63, 2.19)	<.001
0°	88.2%	51.5%	17.7 (6.9, 45.7)	<.001	2.82	1.60	1.77 (1.35, 2.31)	<.001
45°	75.9%	41.9%	8.1 (4.6, 14.4)	<.001	3.34	1.76	1.89 (1.62, 2.21)	<.001
90°	71.9%	35.2%	8.4 (4.9, 14.5)	<.001	3.40	1.84	1.85 (1.55, 2.20)	<.001
135°	66.2%	34.1%	6.4 (3.7, 11.1)	<.001	3.26	2.00	1.63 (1.28, 2.06)	<.001
180°	66.0%	32.5%	7.4 (3.8, 14.6)	<.001	3.91	1.66	2.36 (1.63, 3.40)	<.001
<b>Ptosis A</b>								
0°-180°	91.1%	53.5%	16.7 (10.5, 26.6)	<.001	2.35	1.64	1.43 (1.28, 1.60)	<.001
0°	96.9%	69.5%	28.5 (8.5, 95.3)	<.001	1.63	1.38	1.18 (1.00, 1.38)	0.046
45°	96.7%	61.3%	47.5 (18.3, 122.9)	<.001	2.02	1.54	1.31 (1.16, 1.48)	<.001
90°	87.9%	50.5%	15.7 (8.1, 30.4)	<.001	2.61	1.74	1.50 (1.33, 1.70)	<.001
135°	88.1%	47.3%	18.4 (9.1, 37.1)	<.001	2.94	1.81	1.62 (1.27, 2.06)	<.001
180°	86.0%	40.9%	19.8 (9.2, 42.5)	<.001	2.26	1.67	1.36 (1.14, 1.62)	<.001

**Ptosis B**

0°-180°	97.8%	84.4%	26 (8, 79)	<.001	1.21	1.03	1.18 (1.07, 1.29)	<.001
0°	99.3%	84.4%	1,188 (11, 131,145)	0.003	1.11	0.90	1.23 (1.10, 1.37)	<.001
45°	99.1%	85.1%	354 (11, 11,534)	<.001	1.15	0.99	1.16 (1.04, 1.31)	0.009
90°	98.4%	83.5%	49 (7, 317)	<.001	1.15	1.07	1.07 (0.90, 1.28)	0.420
135°	97.2%	82.7%	16 (5, 56)	<.001	1.21	1.06	1.15 (1.04, 1.26)	0.005
180°	96.7%	84.2%	14 (2, 82)	0.002	1.15	1.06	1.08 (0.94, 1.24)	0.266

<sup>1</sup>Mixed effects logistic regression. <sup>2</sup>Generalized mixed effects linear regression model with logarithmic linkage

OR=Odds Ratio; e<sup>b</sup>= exponentiated coefficient. Interpreted as (e<sup>b</sup>-1)\*100 = percentage difference in reaction time;

95% CI = 95% Confidence Interval