

Frontal Shoulder Response in Pediatric Volunteers

- € Sign parental permission form and child assent
- € Sign gift card log
- € Explain procedure to child / parent
- € Make sure child's clothing is appropriate
- € Meets inclusion criteria

Subject # _____

Date _____

Birth Month / Year _____ Sex: M / F Arm Dominance: R / L

Anthropometry:

1.	Weight	
2.	Height (Standing)	
3.	Seated height	
4.	Shoulder width (lat delt to lat delt)	
5.	Bi-acromial Distance	
6.	Clavicular Length (R side)	
7.	Humeral Length (R side)	
8.	Chest Width	
9.	Chest Depth	
10.	Chest Circumference	
11.	Arm circumference (mid-bicep)	

- € Set up VICON (marker placement)
- € Position child for ROM assessment

12.	Active ROM	Motion	Trial #1	Trial #2	Trial #3
		Flexion			
		Extension			
		Abduction			
		Horizontal Abduction			
		Horizontal Adduction			
		Internal Rotation			
		External Rotation			
		Circumduction			

13.	Passive ROM	Motion	Trial #1	Trial #2	Trial #3
		Flexion			
		Extension			
		Abduction			
		Horizontal Abduction			
		Horizontal Adduction			
		Internal Rotation			
		External Rotation			
		Circumduction (active)			

€ Position child in test fixture

14.	Condition	Thorax Position	Angle of pull	Force used (N)	Trial #1	Trial #2
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	No Shoulder belt	Sitting Upright	90°	50 (25 N/arm)		
				150 (75 N/arm)		
				300 (150 N/arm)		
			135°	50 (25 N/arm)		
				150 (75 N/arm)		
				300 (150 N/arm)		
		170°	50 (25 N/arm)			
			150 (75 N/arm)			
			300 (150 N/arm)			
15.		Leaning Forward	90°	50 (25 N/arm)		
150 (75 N/arm)						
300 (150 N/arm)						
135°			50 (25 N/arm)			
			150 (75 N/arm)			
			300 (150 N/arm)			
16.	Shoulder belt	Sitting Upright	90°	50 (25 N/arm)		
150 (75 N/arm)						
300 (150 N/arm)						
135°			50 (25 N/arm)			
			150 (75 N/arm)			
			300 (150 N/arm)			
170°			50 (25 N/arm)			
			150 (75 N/arm)			
			300 (150 N/arm)			