## Validation of musculoskeletal models

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NY BODY









## The presenter: Mark de Zee

Affiliated with:

Denmark

Aalborg University

Institute of Mechanical Engineering

and

Department of Health Science and Technology Center for Sensory-Motor Interaction (SMI) Aalborg University Denmark

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EARCH PROJECT



































Quantification										
Table 2 Correlation coefficients between the	normalized EMG er	nvelopes and the es	timated muscle activ	vities <u>for each m</u> usc	le and task					
Muscles	Task 1	Task 2	Task 3	Task 4	Task 5	Mea				
Masseter left	0.851	0.754	0.890	0.955	0.946	0.87				
Masseter right	0.868	0.446	0.876	0.956	0.928	0.81				
Anterior temporalis left	0.848	0.557	0.848	0.932	0.798	0.79				
Anterior temporalis right	0.920	0.754	0.911	0.884	0.918	0.87				
Medial ptervgoid left	0.599	0.255	0.952	0.933	0.938	0.73				
Medial pterygoid right	-0.379	-0.085	0.672	0.888	0.824	0.3				
Superior lateral ptervgoid left	0.540	-0.134	0.685	0.854	-0.352	0.3				
Superior lateral ptervgoid right	0.770	0.396	-0.113	-0.332	-0.096	0.12				
Inferior lateral pterygoid left	0.516	-0.259	0.706	0.854	0.780	0.51				
Inferior lateral pterygoid right	0.768	0.414	-0.116	0.765	-0.096	0.34				
Mean	0.630	0.310	0.631	0.769	0.559	0.58				
	Sup	erior Lateral Ptery	goid Right							
	0.5	0.5 Only a nun not tell you story			umber does ou the whole	)				
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Succes	oo rot	ioo		
Succes	55 Tal	105 - 3	arm crar	nking
Elbow position	Subiect #			
ELEVATED	02	03	04	Mean
Ant. Deltoid	0.88	0.52	0.69	0.70
Med. Deltoid	0.89	1.00	0.77	0.89
Post. Deltoid	1.00	0.99	0.89	0.96
Biceps	0.92	0.78	0.94	0.88
Triceps	0.75	0.61	0.34	0.57
Brachioradialis	0.84	0.83	0.74	0.80
Mean	0.88	0.78	0.73	
LOWERED	02	03	04	Mean
Ant. Deltoid	0.58	0.90	0.31	0.60
Med. Deltoid	0.22	0.52	0.22	0.32
Post. Deltoid	0.03	0.00	0.39	0.14
Biceps	0.82	0.72	0.73	0.76
Triceps	0.92	0.97	0.43	0.77
Brachioradialis	0.53	0.82	0.69	0.68
Mean	0.52	0.66	0.46	
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