Myoelectric vs Body-Powered Upper Extremity Prostheses

The summaries are organized in three levels depending on the detail of information. The overview table (Level 1) lists all the relevant publications dealing with a particular product (topic) as well as researched categories (e.g. level walking, safety, activities, etc). Summaries of all the literature dealing with a specific topic can be found in the document(s) above the overview table (Level 2).

For those interested to learn more about individual studies, a summary of the study can be obtained by clicking on the relevant author/reference (Level 3).

The studies presented in the table below are summarized here (Level 2):
Myoelectric vs body-powered upper extremity prostheses – Do amputees need both of them?

Reference		Category								Prosthesis
		Body Functions		Activity		Participation	Others			
Author	Year	Mechanics	Pain	Grip patterns Force	Manual dexterity	ADL	Satisfaction QoL	Training	Technical aspects	
Johansen	2016						x			myoelectric, body-powered, passive prostheses
Carey	2015		x			x	x	x	x	myoelectric, body-powered prostheses
Razak	2014						x			biomechatronics wrist prosthesis, body-powered prosthesis
Ostlie	2012					x	x			myoelectric, body-powered, passive prostheses
Kooijmana	2000		x							myoelectric, body-powered, passive prostheses
Millstein	1986					x	x			myoelectric, body-powered prostheses
Stain	1983				x	x				myoelectric (Ottobock 6V), body-powered prosthesis
Northmore-Ball	1980					x	x			myoelectric, body-powered prostheses
Total: 8		0	2	0	1	5	6	1	1	