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	Copyright © 2016 EDIZIONI MINERVA MEDICA language: English				Clinical control of Balance Society of Physics of an at Providence (1997) Balance Society of the Society of an at Providence (1997)
tion d	Trunk motion analysis: a systematic review from a clinical and methodological perspective Stefano NEGRINI ^{1, 2} , Barbara PIOVANELLI ² , Cinzia AMICI ³ , Valter CAPPELLINI ³ , Gabriele BOVI ² , Maurizio FERRARIN ² , Fabio ZAINA ⁴ , Alberto BORBONI ³ ¹ Department of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy; ² IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milan, Italy; ³ Department of Mechanical and Industrial Engineering, University of Brescia, Brescia, Italy; ⁴ ISICO (Italian Scientific Spine Institute), Milan, Italy				Experience for the factor (percenters - Project and a finite factor for factors (picket) = 2 (protections) = 2 (protecti
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eckout	INTRODUCTION: This systematic literature review aims to check the current state of affairs of non-gait-related optoelectronic trunk movement analysis; results have been analyzed from a clinical and a methodological perspective. EVIDENCE ACQUISITION: Extensive research was performed on all papers published until December 31st, 2015, dealing with trunk movement analysis assessed by optoelectronic systems, excluding those related to gait. The research was performed on the 14th of January 2016 on three databases: Scopus, Science Direct and Pubmed. A				eTOC
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IS	reference search and expert consultation were also performed. EVIDENCE SYNTHESIS: Out of a total number of 8431 papers, 45 participants, 57.9% healthy, with age range 8-85. Few studies con vertebra independently: the trunk was almost always divided int more markers. Most of the papers focused mainly on the biome low back pain were the most studied region and pathology respe CONCLUSIONS: This study has shown the relative scarcity of curr clinical terms, results were sparse. The only quite well represent		ed. 45 were deemed relevant: the considered the whole trunk l into three segments. Thirte omechanics of various mover espectively. current literature focusing o	hey included 1334 , and none focused on each en studies included 20 or ments; the lumbar area and n trunk motion analysis. In	ARTICLE TOOLS Reprints Permissions Cite this article as

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pathologies, but the scarcity of individuals evaluated make the results questionable. The use of optoelectronic systems in the evaluation of spine movement is a growing research area. Nevertheless, no standard protocols have been developed so far. Future research is needed to define a precise protocol in terms of number and position of markers along the spine and movements and tasks to be evaluated.

top of page



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