

# Review of: "[Case Report] Acquiring Walking with Lower Leg Prosthesis by Passive Shoulder Blades and Improved Trunk Range of Motion: A Case Report"

Jyotindra Narayan<sup>1</sup>

<sup>1</sup> Imperial College London

Potential competing interests: No potential competing interests to declare.

This is an interesting case study where a 75-year-old man with a history of arteriosclerosis and renal failure following treatment for malignant lymphoma, who suffered a below-knee amputation resulting from a traffic accident, is having a lower thoracic vertebral deformity and difficulty walking with a prosthesis. However, through regular rehabilitation and trunk stretching, the patient's range of motion improved, leading to improved movement and the ability to walk with a lower leg prosthesis and a single T-cane. The findings suggest that expanding the range of motion of the trunk was beneficial for effective prosthetic locomotion and broadening indications for treatment. There are a few concerns that the author could consider to improve the readability and coherence of the case report.

1. The author should consider including a schematic representation of manual rehabilitation exercises with the subject at different days to understand the gradual improvement.
2. The author is suggested to include a quantitative analysis on the range of motion varying across 1st day to 103rd day. It is unclear how Berg Balance Scale changes over period of rehabilitation. How were movements recorded/measured to realize the improvements?
3. More details on prosthesis adjustments during rehabilitation measures should be presented. Some information on the body parameters of the subject and prosthesis will improve the readability of the case-report.