

Student's full name:

MODULE BIOMECHANICS OF GAIT

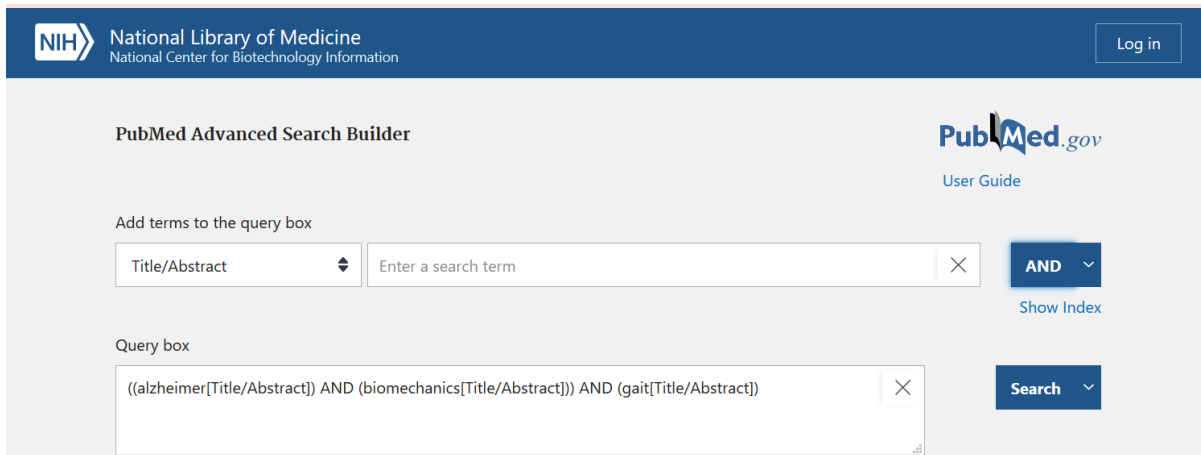
Didactic Unit D: Instrumented analysis of gait

D.4. In which cases and how can a biomechanical instrumented analysis of gait be useful?

Activity 1:

It is common for updated and diverse scientific information to be found more easily in databases of scientific articles, than in books or other scientific dissemination formats. If you would like to investigate the biomechanical analysis of the gait of a certain population or disease, you should resort to these databases.

Based on the above, we propose the following exercise. Choose a clinical topic of interest to you. You can choose a pathology, an age group of people, an innovative treatment, whatever you want! Then enter in the advanced pubmed search (<https://pubmed.ncbi.nlm.nih.gov/>) the terms related to the topic you have chosen and the words biomechanics and gait, as shown in the example.



The screenshot shows the PubMed Advanced Search Builder interface. At the top, it displays the NIH logo and the text "National Library of Medicine National Center for Biotechnology Information". There is a "Log in" button in the top right corner. The main heading is "PubMed Advanced Search Builder" with a "User Guide" link. Below this, there is a section "Add terms to the query box" with a dropdown menu set to "Title/Abstract" and a text input field containing "Enter a search term". To the right of the input field is a blue "AND" button with a dropdown arrow. Below the input field is a "Show Index" link. A second section, "Query box", contains a text input field with the search query: "((alzheimer[Title/Abstract]) AND (biomechanics[Title/Abstract])) AND (gait[Title/Abstract])". To the right of the query box is a blue "Search" button with a dropdown arrow.

Then choose one of the publications thrown up by the search and fill in the following form that we propose below. Discuss with your classmates the information you have obtained and the answers on your worksheet.



<i>Utility of biomechanical instrumented analysis of gait</i>	
Search topic	
First author and year	
Aim of study	
Gait measuring instrument	
Biomechanical outcomes	
Conclusion of the study	
How useful has the instrumental evaluation of gait been in publication?	

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.