



MOVESHelf®



MOVESHelf®

MANUAL

Questions?

support@moveshelf.com



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1. Terminology

Application	This is what we call our product: 'Moveshelf application'. In the user manual referred to as 'the application'.
Comparison	A comparison is an overview of two or more trials, with or without reference data, where numeric data is combined and overlaid in graphs.
Condition	A condition is a state in which a subject has been recorded, e.g., barefoot, or with shoes. It can include multiple trials.
Dashboard	The dashboard holds an overview of all projects of which you are a member.
Enterprise customer	As a Moveshelf customer you have an 'Enterprise' account type, which gives you access to Moveshelf's application and all its released features as a user. Your account type is visible in your profile.
Member	A member is a user who has been granted access to a project. A member can have different roles: Admin, Editor or Viewer.
Project	A project is a space where subjects and their data are stored, and where you can collaborate with the members of that project.
Reference data	Reference data is data that can be created within your project, based on (a selection of) your data and can be used to compare trials with e.g., data of healthy subjects.
Role - Admin	An admin is a member that has the rights to add others to a project, delete projects, edit data, and view data.
Role - Editor	An editor is a member that has the rights to edit and view data (e.g., lab operators).
Role - Viewer	A viewer is a member that only has the right to view data (e.g., clinicians).



Session	A session is an overview of all recorded measurements done in one 'visit' of a subject. It can include multiple conditions and trials.
Trial	A trial contains all data that was captured of a subject during one recording. It can include multiple data types that have been recorded synchronously, e.g. C3D, video, forces and EMG.
User	A user is a person of your organization who has an account on Moveshelf.

2. Introduction

Moveshelf integrates movement analysis tech with clinical systems so that you and your team can take better decisions, together. On [our website](#) we set forth the most important and distinguished properties of the Moveshelf application. This includes:

- Our ability to import all golden standard movement data types (and some more).
- A uniform workflow and interface in a web browser with interactive multi-media visualizations.
- Build insights within a subject to view progress over time, or compared to your own reference dataset.
- Dependent on the level of integration in your organization's IT system, uploading the data after capture can be automatized and accessed from a simple URL from the patient file in your Electronic Health Record (EHR).
- A compliant data management flow to local national regulations (e.g., GDPR or HIPAA) and organization-specific information security protocols.

With Moveshelf, we aim to create more efficient workflows for both the movement laboratory operators who process the data and the medical staff who apply these insights in a treatment plan of their patients. Removing the boundaries of static movement databases and the adoption/integration of new measurement technologies in clinical setting, we envision that more patients with movement disorders can receive better and more personalized treatments.

In this user manual we explain how to work with Moveshelf. If your question is not answered after reading the manual, please feel free to send an email to support@moveshelf.com.



3. How to access Moveshelf

The Moveshelf application is customized for each of organization (customer) that we work with. This allows us to guarantee data security and organization specific preferences. Each organization has their own Moveshelf subdomain (<subdomain>.moveshelf.com) with their separate data storage, which is access controlled. Your organization's account is set up to only allow access to predefined email domains.

To access the Moveshelf application, click on the link you have received in your email or in the Electronic Health Record (EHR). This link will redirect you to all multi-media movement data of the subject in question. Before you can access this data, you will have to login on Moveshelf (see chapter [3. How to access Moveshelf](#)). If you are already logged in and have access to the provided link, continue reading [4. Viewing Moveshelf](#) to learn more about how to work on Moveshelf.



3.1 Password login

Login with your business email address and password you have signed up with.

- **Reset password**

Did you forget your password? Click on **‘Forgot password?’** to reset your password. You will receive an email within a few minutes to set a new password. Please also check your spam folder for the email.

- **New to Moveshelf?**

If you don't have access yet, please contact your Organization's Moveshelf admin to receive an invitation.

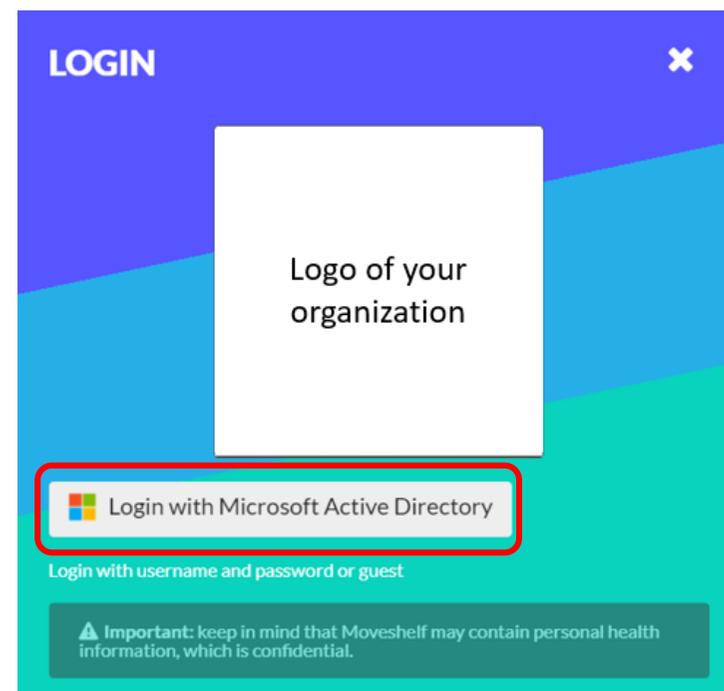
The screenshot shows a login modal window with a blue header containing the text 'LOGIN' and a close icon. Below the header, there are two input fields: the first is labeled 'email' and the second is labeled 'password'. To the right of the password field, there is a link that says 'Forgot password?'. At the bottom of the modal, there are two buttons: 'REQUEST ACCESS' and 'SIGN IN'.



3.2 SSO Login^(Optional)

SSO login is a Single Sign-On for enterprise customers using Microsoft Active Directory. Through SSO your organization is in control of access and editing/viewing rights for all employees. To login with SSO on Moveshelf you use the same credentials as you use for accessing Microsoft Outlook 365 and other software that your organization uses. This way, you are logged in to your Microsoft environment and you'll have automatic access to Moveshelf with only one click.

- Click on '**Login with Microsoft Active Directory**' to login with your Microsoft account.
- If you want to login manually, click on '**Login with username and password or guest**'.

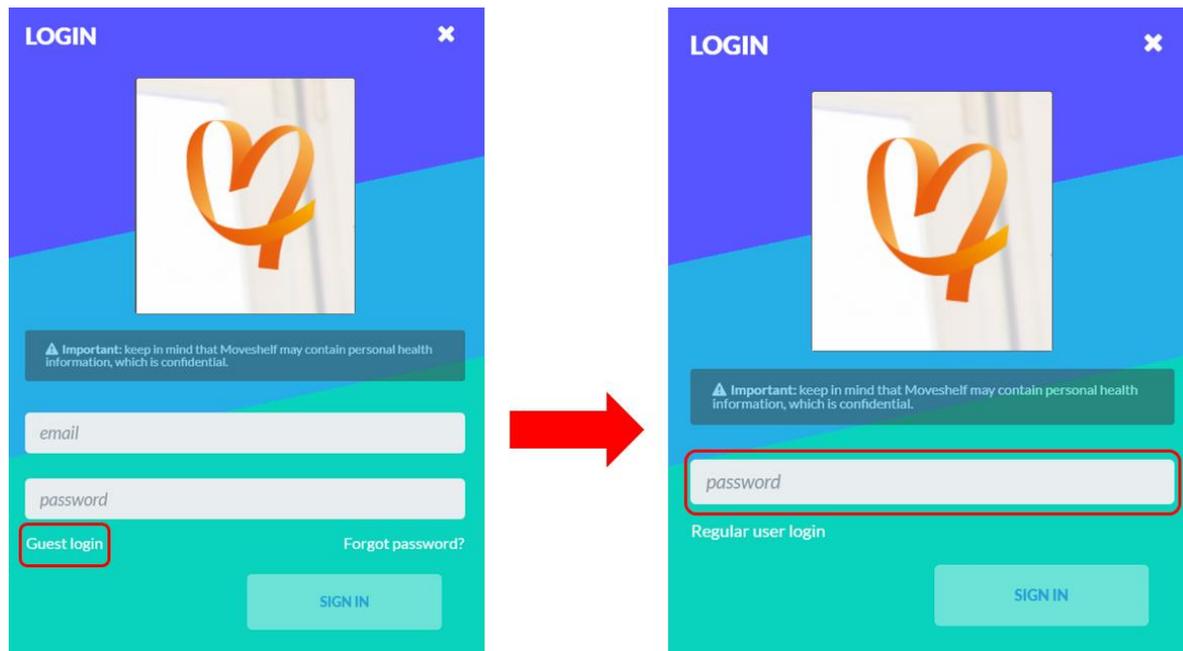


Optional feature: availability depends on how Moveshelf is configured for your organization



3.3 Guest Login^(Optional)

A guest login can be created by Moveshelf as a way to give temporary access to a group of people. This feature is frequently used by participants in for example gait courses. Click on **'Guest login'** and insert a password you have received from your organization to access Moveshelf.



4. Viewing Moveshelf

4.1 Interpretation of data

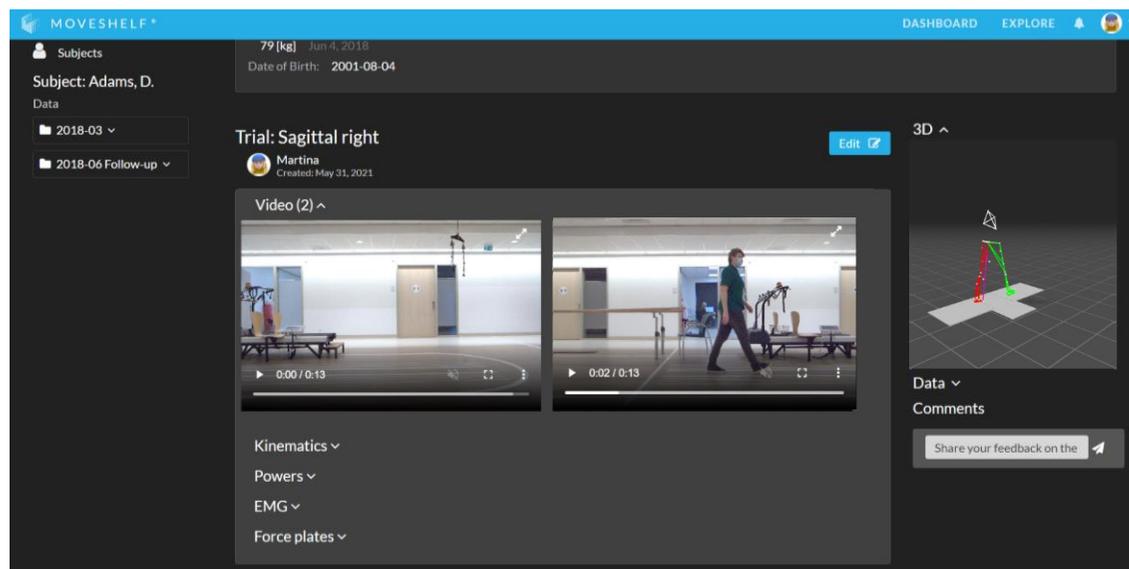
The received link will direct you to all multi-media data of the subject in question. After clicking on the link you will land on a specific Moveshelf page. On this page you can easily switch between trials, conditions and sessions (please see chapter [4.1.3 Navigation menu](#)), but if a numeric comparison is preferred, the operator will have created a comparison, please see chapter [4.1.2 Comparison](#).



4.1.1 Trial

A Moveshelf link can direct to a *Trial*. A trial contains all data that was captured of this subject during one recording. What is shown in this overview depends on the measurement equipment that was used and the lab operator's choice. For example, a trial can contain:

- 2D video
- 3D data (avatar)
- Kinematics
- Moments
- Powers
- EMG
- Force plates

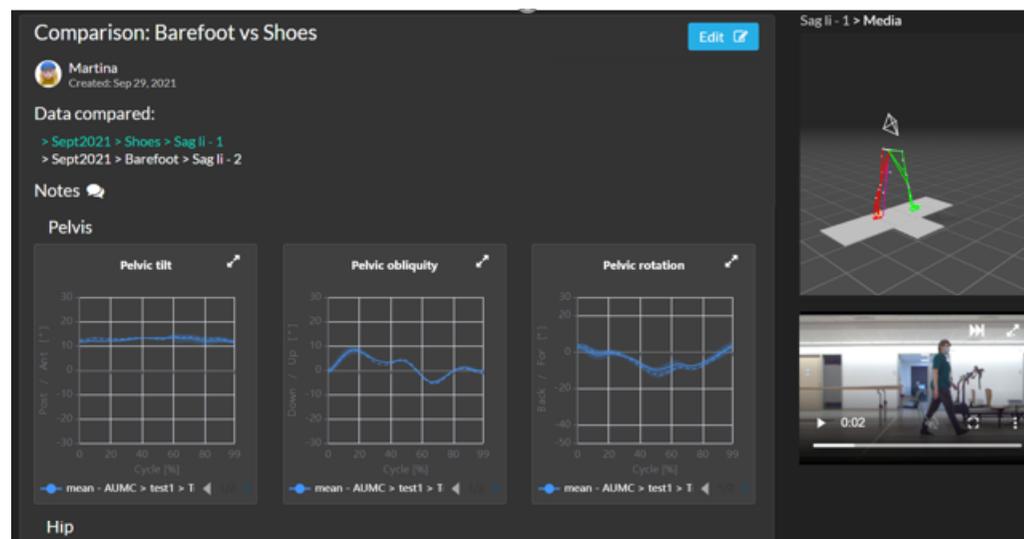


Click on the headers of the data type you would like to view. Specifically, the 3D data can be found in the panel on the right side of the screen, if available for this trial.

4.1.2 Comparison

A Moveshelf link can direct to a *Comparison*. A comparison is an overview of two or more trials, where numeric data is combined and overlaid in graphs. The operator also could have prepared a comparison of the trial with reference data, like healthy age-matched peers or other. Under the header '**Data compared:**' you will see all trials and optional references that are included in this comparison.

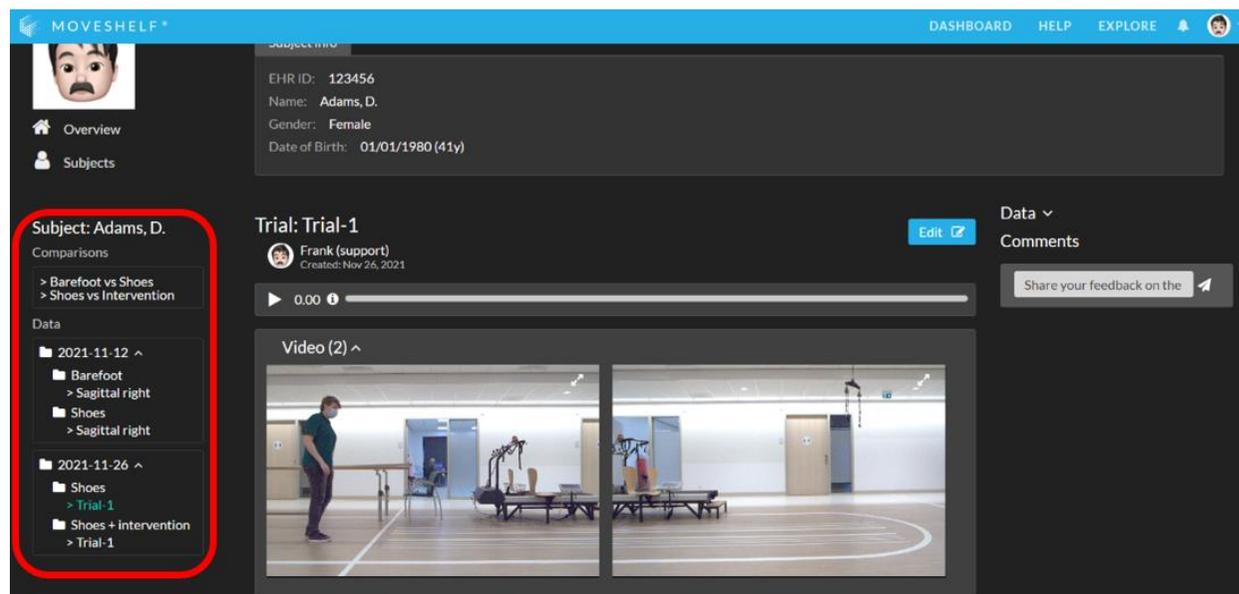
- To view the 2D video and/or 3D avatar of one of the trials, click on the trial name below the header '**Data compared:**' (highlighted in the screenshot in green). The videos and/or 3D avatar will be shown on the right side of the page.
- Click on  in the 2D video to go to the next video of the selected trial.





4.1.3 Navigation menu

In the menu on the left side of the screen you can click on the session name. It will drop down and display all trials and conditions within this session. This menu will allow you to easily switch between trials of different conditions and sessions. However, comparisons can be more user friendly to visualize numeric differences between 2 or more trials. Under the header '**comparisons**' in the menu on the left side of the screen you will find all comparisons that have been created for this subject.

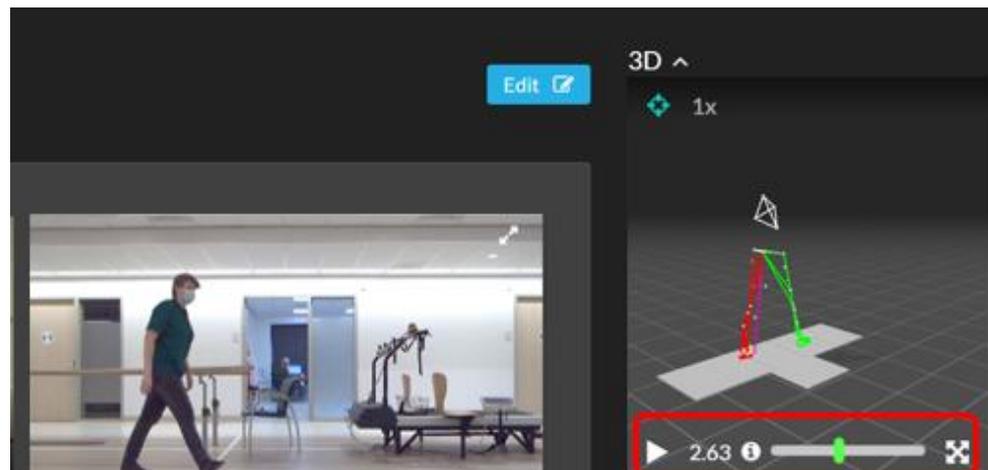




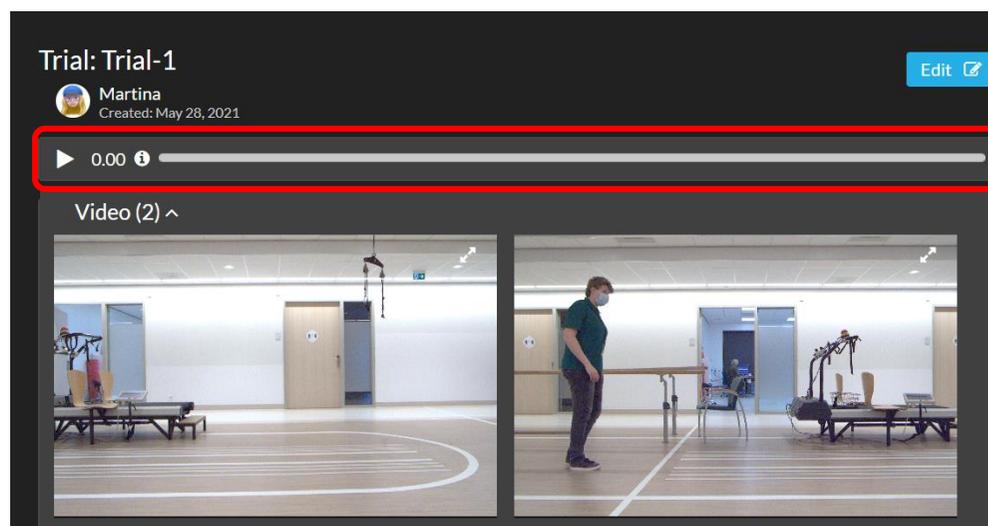
4.2 Features

4.2.1 Video 2D/3D avatar

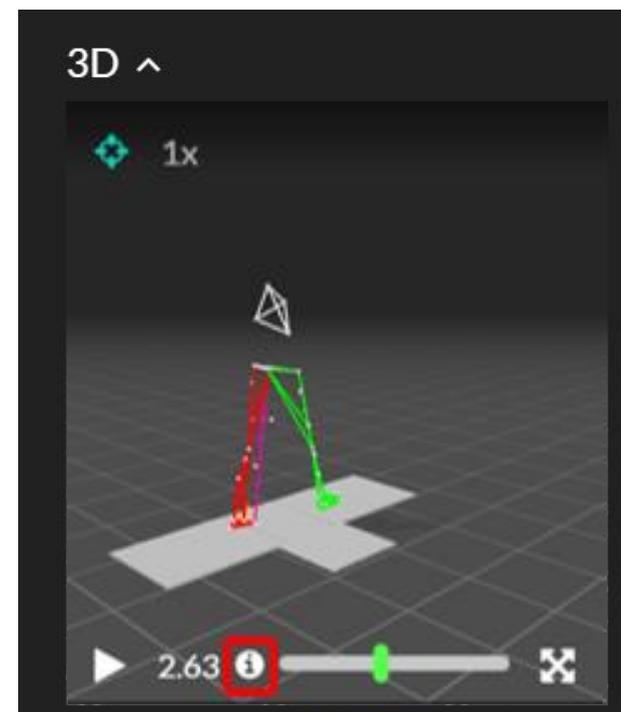
- All media can be played in sync using either:
 1. The time bar of the 3D viewer, when 3D data is present in the trial.



2. The time bar on top of the page in case there are only videos present (next to optional numeric data), without 3D.



- Click on  to open a video in full screen full screen.
- Hover over the  in above mentioned time bars to view all playback and viewport controls.
 1. Playback controls:
 - **Tap** or **click** on time bar: jump to time
 - **Shift + hover** on time bar: jog
 - **J** or **left-arrow**: jump – 20ms
 - **L** or **right-arrow**: jump +20ms
 - **K** or **spacebar**: play/pause
 - **Shift + i**: set selection start
 - **Shift + o**: set selection end
 - **Hold, then drag**: select region (if enabled)
 - **Double tap**: clear selection (if enabled)





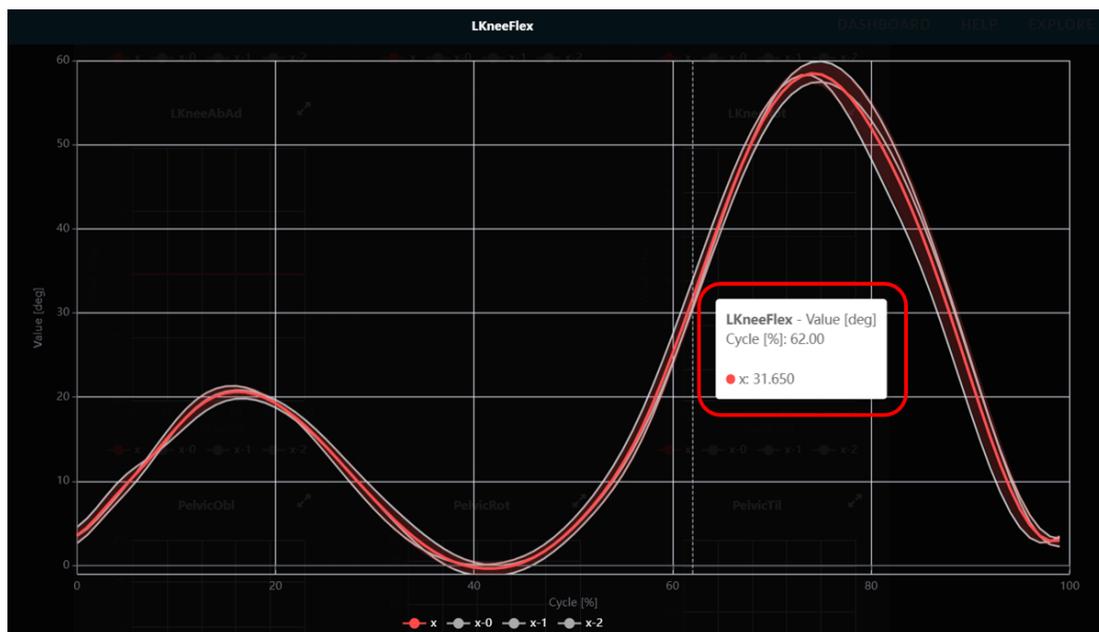
2. Viewport controls:

- **Left click:** orbit camera
- **Right click:** pan camera
- **Mouse wheel:** zoom
- **f:** toggle follow camera
- **Shift + l:** show/hide optical segments
- **Shift + m:** show/hide markers
- **Shift + h:** toggle GRF visualization
- **Shift + >:** show/hide markers trajectory
- **Shift + t:** show/hide technical mesh
- **Shift + f:** select next chart
- **Shift +):** ortographic/perspective camera
- **Shift + n:** select next take



4.2.2 Graphs

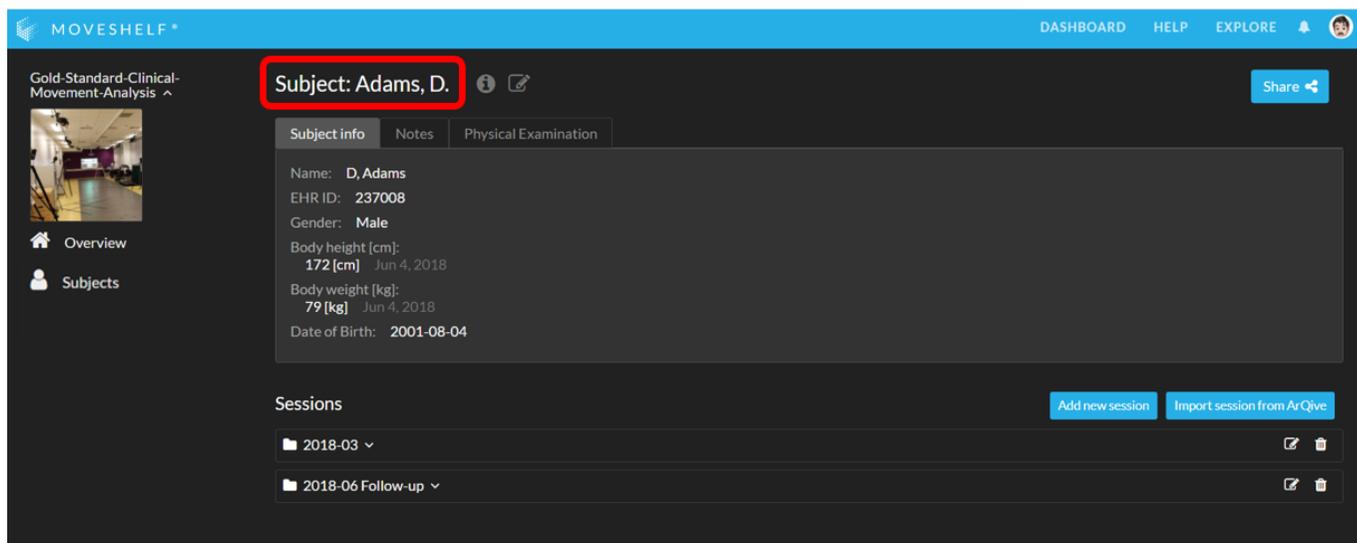
- The graphs and histograms are interactive. Hover over the curves and you will see the values of that point of the curve.
- Click the legend of a line below the graph to switch on/off this line (handy with a lot of gait cycles in a trial)
- Click on  to open a graph or histogram in full screen.



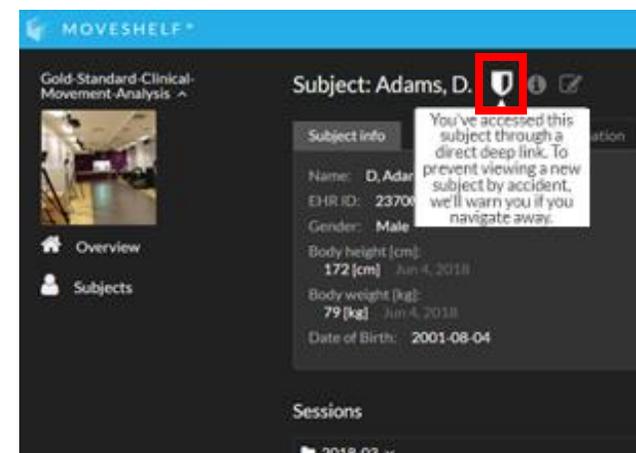


4.3 Subject Home Page

To see the history of a subject, click on the subject's name on top of the page. This will open an overview of all sessions that have been created for this subject. Every session has its own drop down menu. This menu includes all conditions and trials that have been captured. Click on a trial to navigate to it.



Note: an optional feature for Enterprises with an EHR integration is to produce a warning if you are navigating away from your subject, by clicking on Subjects in the left navigation menu e.g.. This feature is present for your organisation when you see a 'shield' icon next to the subject's name.

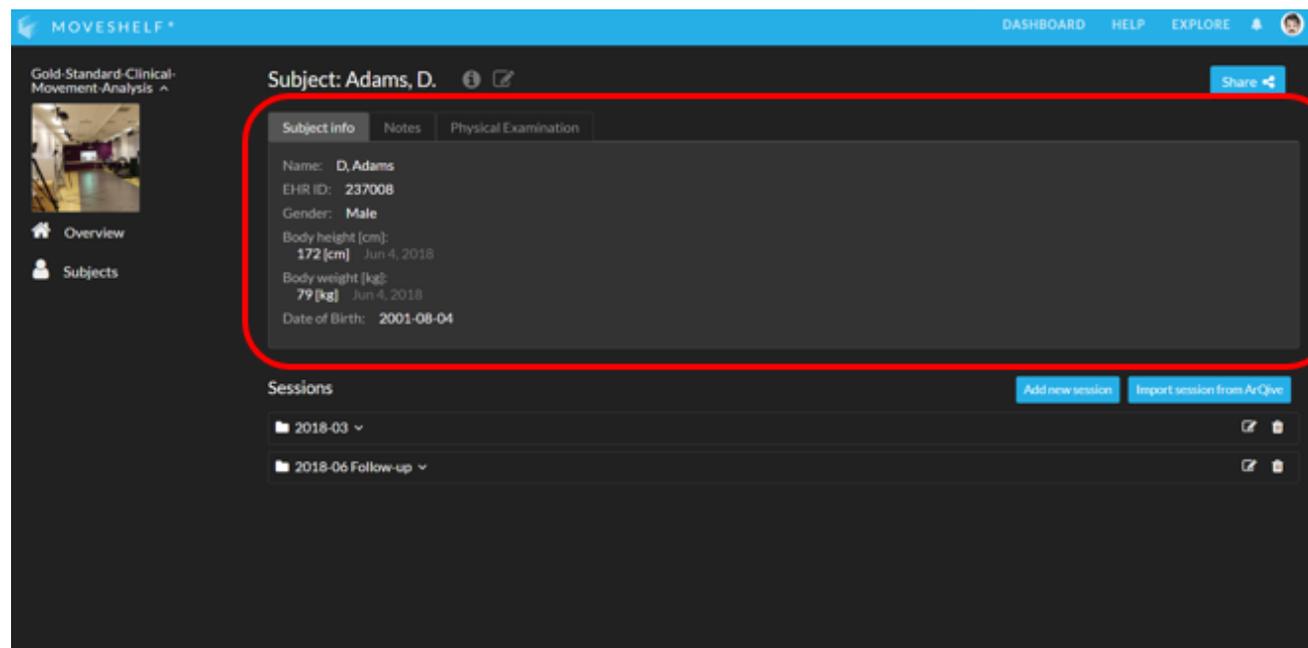




4.3.1 Subject information^(Optional)

In the subject home page subject information will be displayed.

- Click on **'Subject info'** to view the specific subject information.
- Click on **'Notes'** to view the notes that are shared by the lab operator.
- Click on **'Physical examination'** to see all outcomes of the physical examination that has been done.

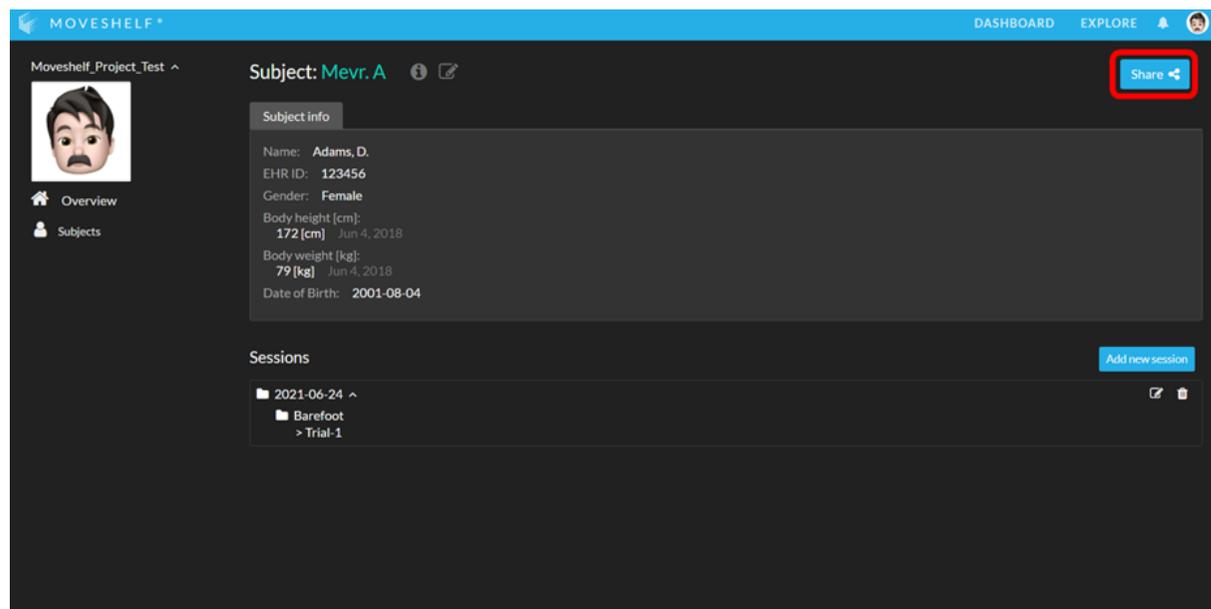




4.4 Share with others

You can share a Moveshelf link with others who have been granted access by your organization's settings.

- Click on **'Share'** to share a trial or comparison with others.
- Select **'Copy link'** or click on **'Send email'**.



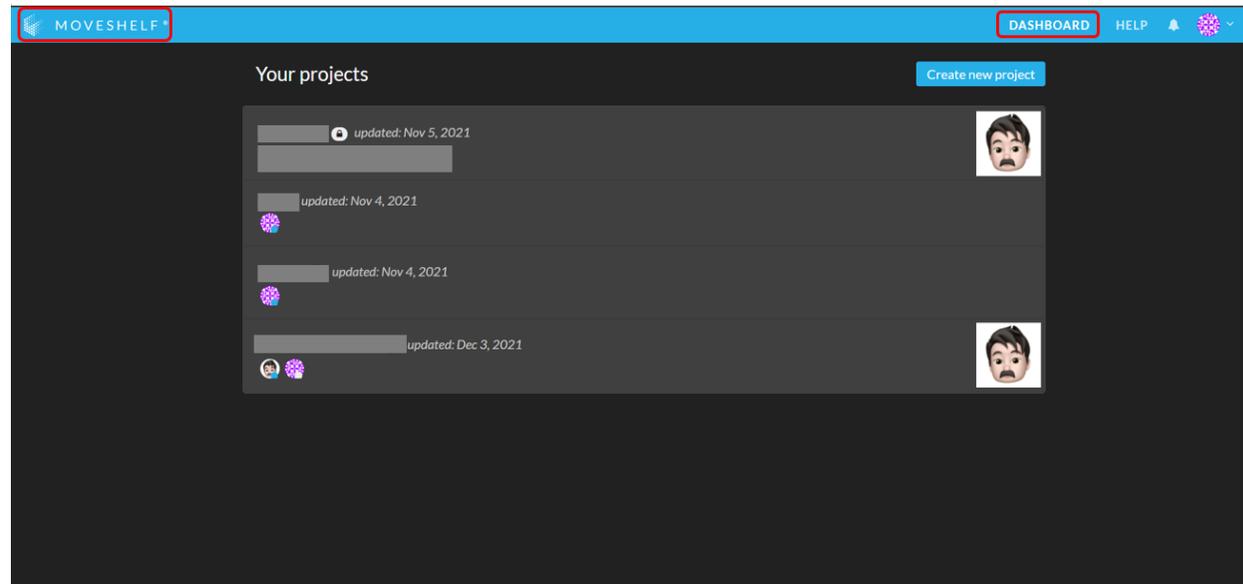
Note: Sharing the link is secure. Only people that have been granted access to this specific Moveshelf project can open the link.

4.5 Account

4.5.1 Dashboard

Every user has his own personal homepage, called '**Dashboard**'. Your dashboard holds an overview of all projects of which you are a member.

- Click on the Moveshelf logo or click on '**Dashboard**' in the menu bar on top of the page to navigate to your personal overview.





4.5.2 Help

If you need help;

- Click on **'HELP'** to open the manuals.

- Or send an email to: support@moveshelf.com

