

b UNIVERSITÄT BERN

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App KOOS - Manual

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1. **G**ENERAL

1.1. The ACT registry

The ACT-registry consists of 3 surgeon forms (Surgery, Adverse Event, Follow-up) and the patient form "Knee Injury and Osteoarthritis Score (KOOS)". While the entries of the surgeon forms are captured on the web application (<u>https://act.swissrdl.unibe.ch/</u>), the **KOOS questionnaire** can be answered using the **app on the provided tablets**.

A general registry manual and the KOOS-entry by paperform can be found on the registry homepage.

1.2. Study design / timepoints of survey completion

Each patient is asked to fill in the KOOS questionnaire during three occasions:

- 1. Before surgery (before biopsy)
- 2. 6 months post-surgery
- 3. 12 months post-surgery



Attention: the preoperative KOOS needs to be filled in at latest on the day of the knee biopsy. Questionnaires filled in after this date are not valid.

1.3. Tablets

Each center is provided with a tablet with the KOOS apps (live and demo-version) pre-installed. The iPads are managed by SwissRDL. They can only be used to access the KOOS apps and the camera – all other functions e.g., browser and email, and other apps are deactivated or removed.

2. PREPARING THE TABLETS

2.1. Set up tablets – WLAN connection

The apps are pushed to the tablets automatically – there is nothing the user needs to do, except:

Enable access to local WLAN:

- Click on the grey Settings icon (swipe the screen to the left to see the icon, it's on the second screen)
- Click on Wi-Fi choose your network
- Add the password
- Check if the connection is set up





2.2. Apps

For the ACT-registry, the following apps are installed:

- KOOS Demo: to test the functionality of this patient form
- KOOS: send patient forms to live server

The demo version's functionality is identical to the live version of the KOOS app, with the following differences:

no login needed, it's a demo account only data is not sent anywhere

2.3. Trust developer profile

In case you start the app and the following error message pops up:



Please, go to Settings, General, Profile & Device Management and select the Wilhelm Schulthess - Stiftung profile.

Click on Trust "Wilhelm Schulthess - Stiftung".

Zurück	Wilhelm Schulthess -	Stiftung				
Apps vom Entwickler "iPhone Distribution: Wilhelm Schulthess - Stiftung" wird auf diesem iPad nicht vertraut und sie können erst ausgeführt werden, wenn dem Entwickler vertraut wird.						
"Wilhelm Schulthess - Stiftung" vertrauen						
APPS VOM ENTWICKLER "IPHONE DISTRIBUTION: WILHELM SCHULTHESS - STIFTUNG"						
O ACT I	KOOS	Überprüft				



3. DATA CAPTURE

3.1. Login

To enter, submit and synchronize the data of the app with the live registry, you will need to login to the KOOS live app. The login information is provided by SwissRDL. Please note that_



a) this login to the app is different to your login to the web-application

b) there is only one login to the app per department

To log in, you need:

- Username
- Password
- WLAN connection of the tablet

Please contact the SwissRDL support team (tel: +41 31 684 59 66 / e-mail: swissrdl.ispm@unibe.ch) for any support with login.





Please note: For security reasons, you are automatically logged out after 15 min of inactivity.

3.2. Basic data – demographic patient data

Basic surgery data and demographic data are filled in by the responsible data entry person.

If a patient does not exist yet on the system, the patient record is thereby automatically created. If a patient already exists, the record is automatically added to the patient.

The required information consists of:

- PID (unique hospital, clinic patient ID)
- Gender
- Year of birth
- The side (operated / to be operated)
- The timepoint of the evaluation
 - The surgery date, for "Post-OP"-evaluations

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ACT-registry





Attention I: please enter the **patient ID** (PID or MRN) and **not the case-number (FID)**! If two different case numbers for the same patient are used, the system will automatically create two different patients.



Attention II: The date of operation is needed to calculate the exact follow-up time after surgery. Furthermore, if there is more than one surgery-form per patient, it allows to link the survey to the correct surgery.



3.3. Consent to survey

After entering the basic information, the app is handed over to the patient who first must consent to the survey. If the patient does not consent, the questionnaire will not be started, and no data will be transferred to the registry.

WELCOME





3.4. Filling in the questionnaire

Each question needs to be answered by tipping on the corresponding button. After completing all the questions of the page, tap "Next" on the bottom-right corner.



3.5. Submit the questionnaire

When all questions of the survey are answered, tab "Submit" on the bottom-right corner of the last page of the survey.



If the data has successfully been synchronized with the registry, the following page appears and by tapping "Next" another questionnaire can be started; by tapping "Exit", the session will be interrupted:





3.6. Error message - Missing answers

If one or more questions have not been answered, the following error message pops up and missing answers are highlighted in red:



3.7. Error message - Failed to login

To Log in, the tablet must be connected to WLAN. If the error message "Failed to login" appears, please make sure the device has an active internet connection. See 2.1 on how to set-up a WLAN-connection.

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3.8. Error message – Form not synchronized

If a form cannot be submitted because there is no WLAN connection, the following message appears:

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It is possible to collect another survey by tapping on "Next", or to interrupt the session by clicking "Exit". The data will be stored locally and will be synchronized once the WLAN connection is re-established.

3.9. Review of submissions

If there is a problem -e.g. currently no WLAN connection, the issue(s) can be reviewed by tapping "REVIEW" on the top of the first page of the app. Please note that this box disappears as soon as all the issues have been resolved.

2:07 Diensta	g 19. Apr.			73% 🔳)
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		C Right		
GENDER Select	•	∽) () Left		
YEAR OF	BIRTH •			
QUESTIC	ONNAIRE			
English	GE •	~) (CONTINUE	
(D)				$\bigcirc \bigcirc $
← Bac	ĸ			HUMAN CELL EXPERTS
PID	Status	Timestamp	Message	Action
456	pending	19 Apr 2022 10:07	0	Copy Retry Delete

If the form has not been transferred because of lacking internet connection, reactivate WLAN, and click "Retry". Please be aware that this issue should disappear in any case shortly after re-establishing the connection.

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In case of other errors preventing the transaction of the data, please take a picture of the error message and send it to the support team of SwissRDL (e-mail: swissrdl.ispm@unibe.ch).



Attention: Please check regularly if there are any issues with your submissions.

4. SUPPORT AND DOCUMENTS

For further support, please contact the support team at SwissRDL:

swissrdl.ispm@unibe.ch, +41 31 684 59 66

User manual for the ACT registry can be found here:

https://act.swissrdl.unibe.ch