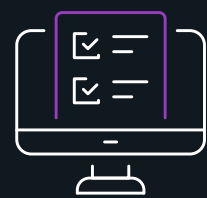


SOP User Guide for
Concussion Screenings/Checks

Here for
healthier
futures

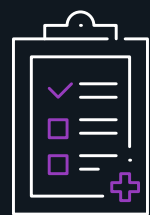
sciana[∞]





Module Purpose

This guide provides a standardised procedure for performing NeuroFlex® concussion screenings to maintain consistency, patient safety, and compliance. It is intended for all staff administering screenings at participating pharmacies.



Available Concussion Checks

-  **Baseline Check:** Establishes initial brain function data, which can be used for future injury comparisons.
-  **Assessment Check:** Conducted post-injury to assess potential changes, supporting diagnosis, inform assessments, and guide tailored treatment plans.

***Reminder:** Proper setup and adherence to protocols are crucial for accurate results and patient safety.*



Conducting Concussion Checks



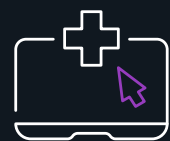
Pre-check checklist >



Identifying with/and managing rare adverse reactions



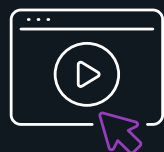
Starting a Concussion Check >



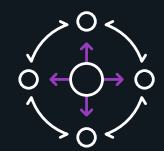
Connecting to NeuroFlex® >



Equipment Setup >



Starting and Monitoring the Test >



Protocols Overview >



Reporting Subjective Symptoms >



Data Analysis and Removing the Headset >



Review and Communicate Findings >



Post-Check Procedure >





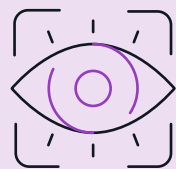
Identifying & managing rare adverse reactions



Motion Sickness (Virtual Reality Sickness)

- ∞ **Symptoms:** Nausea, dizziness, sweating, headaches, or a feeling of imbalance.
- ∞ **What to Do:**
 - + Take a break from the testing.
 - + Discontinue if symptoms persist.
 - + Patient should remain seated until symptoms subside.

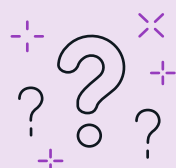
Note: Symptoms may be related to concussion episode.



Eye Strain

- ∞ **Symptoms:** Difficulty focusing, or mild headache.
- ∞ **What to Do:**
 - + Take a break.
 - + Discontinue if symptoms persist.
 - + Patient should remain seated until symptoms subside.

Note: Symptoms may be related to concussion episode.



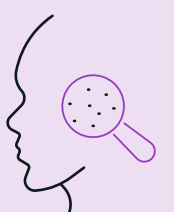
Disorientation

- ∞ **Symptoms:** A feeling of being “out of place” after removing the goggles.
- ∞ **What to Do:**
 - + Transition slowly by having the patient remain seated for at least a minute after removing the headset.
 - + Patient should remain seated until symptoms subside.



Discomfort

- ∞ **Symptoms:** Neck or head pain, pressure around the eyes or face.
- ∞ **What to Do:**
 - + Adjust the straps and fit of the headset for even weight distribution.
 - + Ensure the headset is positioned correctly to avoid pressing on sensitive areas.



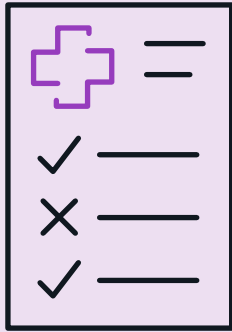
Skin Irritation

- ∞ **Symptoms:** Redness or irritation on the face where the headset rests.
- ∞ **What to Do:**
 - + Use a washable or hypoallergenic face pad.
 - + Clean the headset as recommended to prevent bacteria buildup.



Claustrophobia

- ∞ **Symptoms:** Difficulty focusing, restlessness and increased anxiety.
- ∞ **What to Do:**
 - + Pause the protocol.
 - + Reassure the patient.
 - + Encourage deep breathing.
 - + Resume only when they feel calm and comfortable.



Pre-check checklist



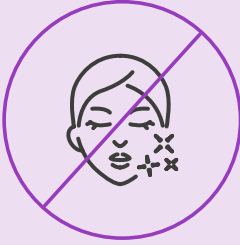
No photosensitive epilepsy.



Confirm patient consent has been obtained.



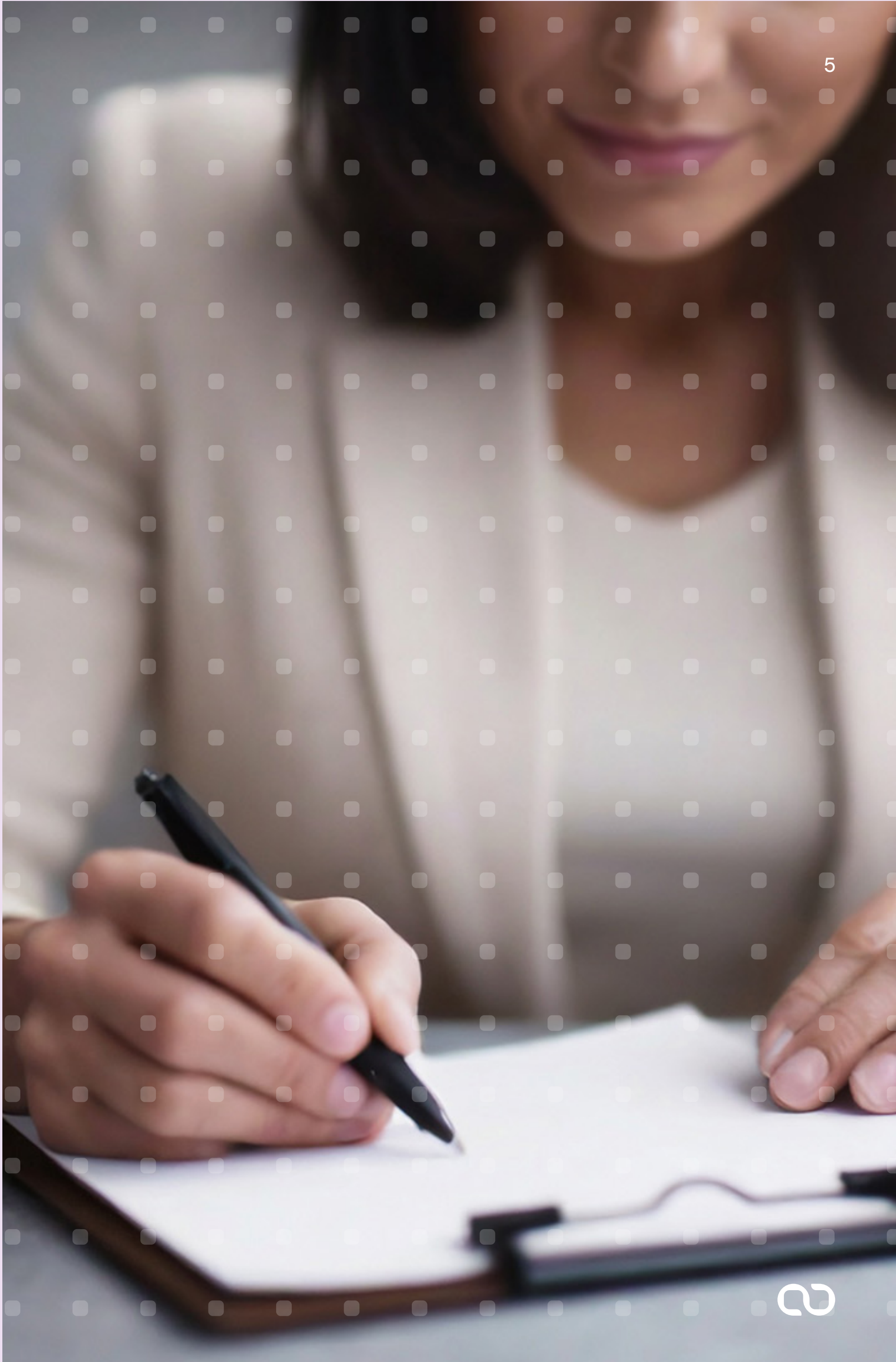
Confirm if the patient has ingested alcohol and/or recreational drugs in the last 24 hours.



Remove excessive eye or facial makeup



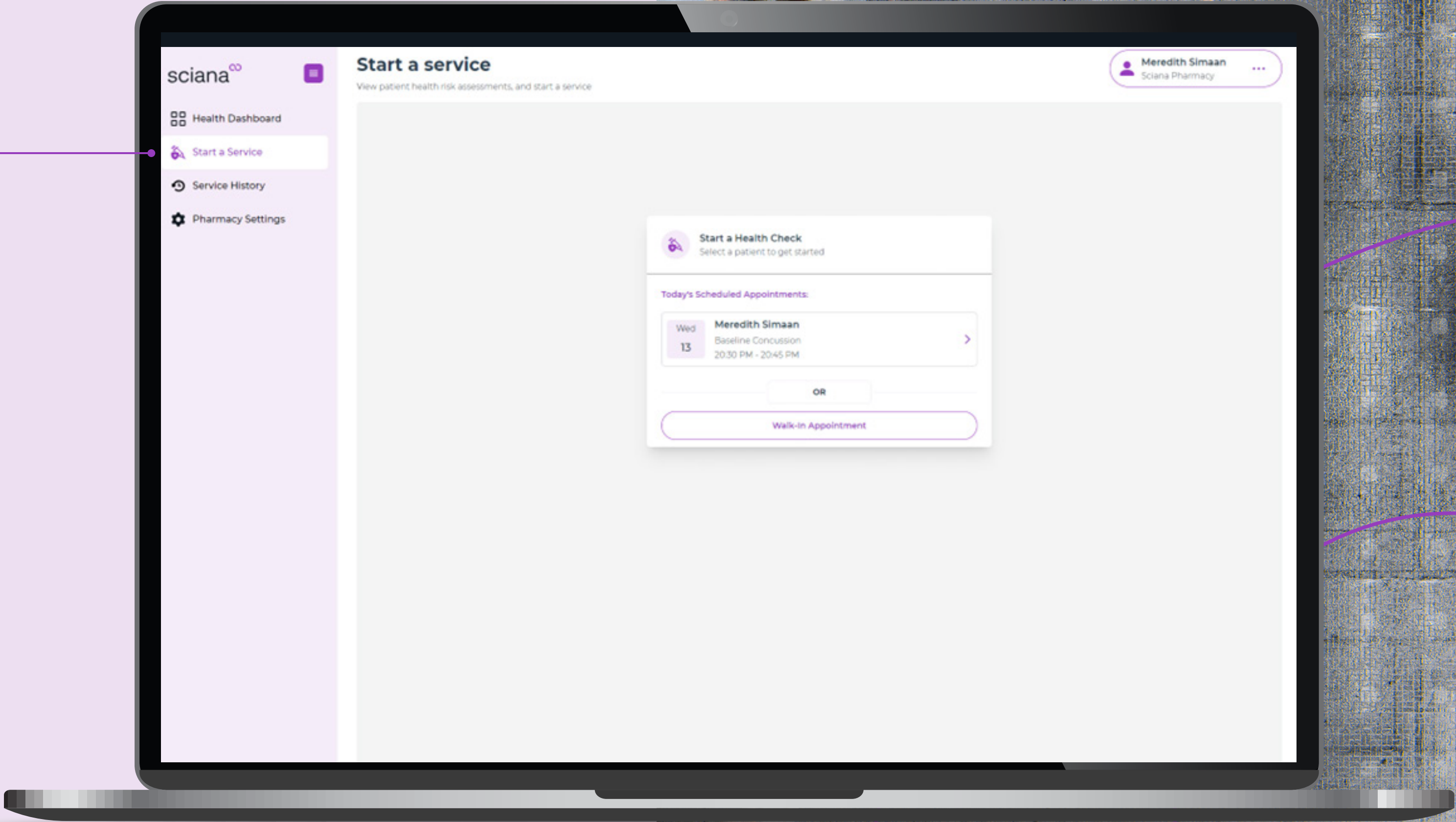
Remove glasses, contact lenses preferred





Starting a Concussion Check

- 1. **Access the Sciana Platform:**
 - ∞ Select “**Start a Service**” on the platform dashboard.



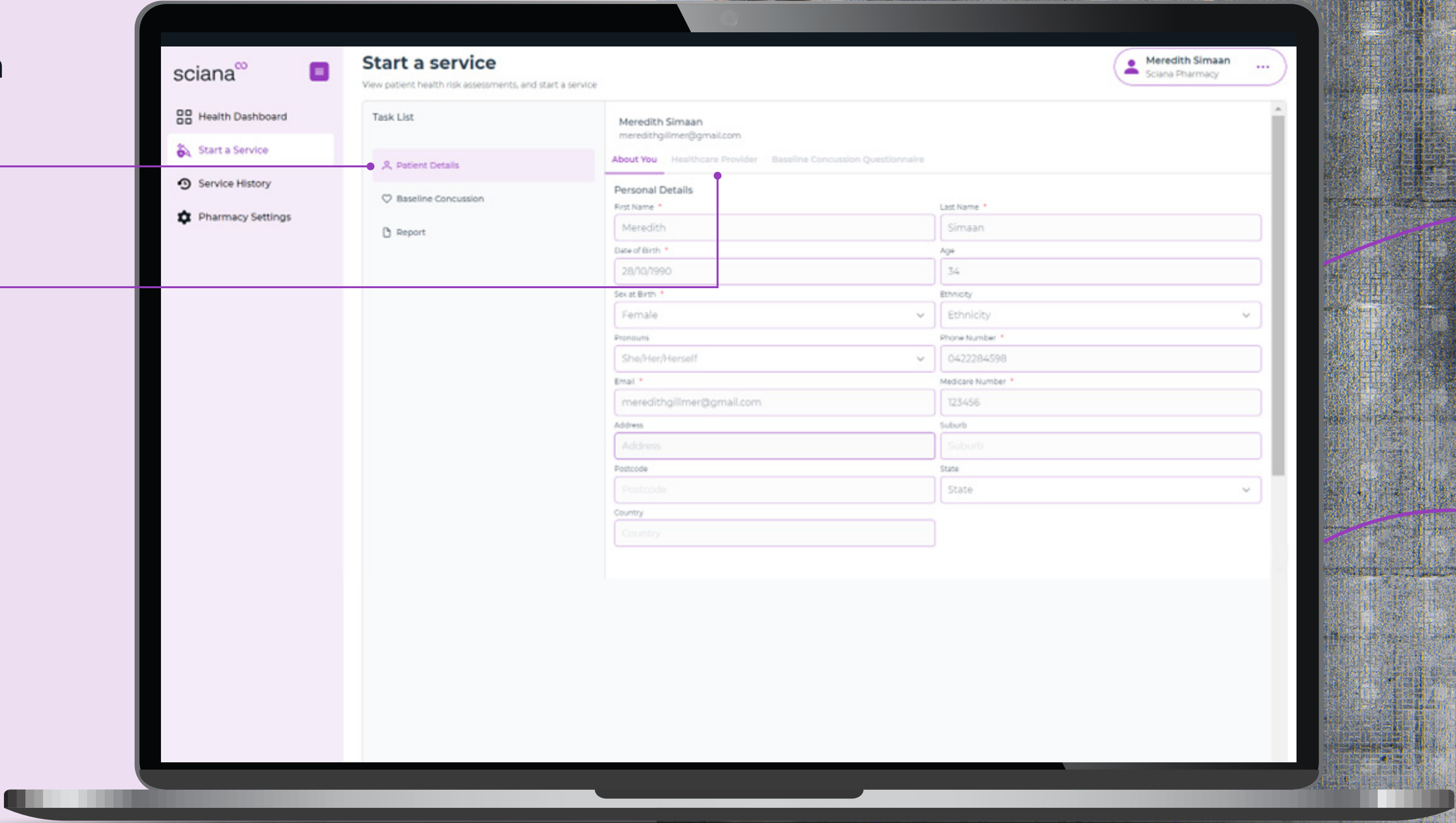


cont ...

Starting a Concussion Check

2. Confirm Patient Details:

- ∞ Verify the following information
 - + Name, Date of Birth (DOB), Email, Mobile
- ∞ If available, confirm or update treating healthcare provider details.





cont ...

Starting a Concussion Check

3. Review Pre-Screening Questions:

- Confirm responses to all pre-screening questions.

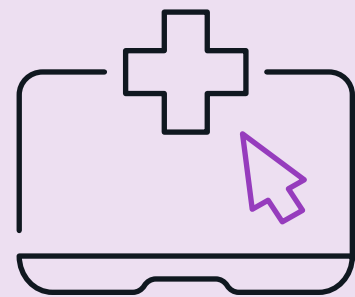
If incomplete, review and complete with the patient.

The screenshot shows the 'Start a service' page in the Sciana system. The left sidebar contains navigation links: Health Dashboard, Start a Service (highlighted), Service History, and Pharmacy Settings. The main content area is titled 'Start a service' and includes a 'Task List' with 'Baseline Concussion' selected. The questionnaire form is displayed with the following fields and error messages:

- Baseline Concussion Questionnaire** (Header)
- The Sports field is required.** (Error message)
- The Sports must have at least 7 items.** (Error message)
- The Concussions field is required.** (Error message)
- The Concussions must be an integer.** (Error message)
- The Epilepsy field is required.** (Error message)
- What sport do you play? Select all that apply:** (Question)
- ☐ Aussie Rules
- ☐ Rugby League
- ☐ Rugby Union
- ☐ Soccer
- ☐ Netball
- ☐ Basketball
- ☐ Hockey
- ☐ Cricket
- ☐ None
- ☐ Other (please specify):
- The Sports field is required.** (Error message)
- How many concussions have you had?** (Question)
- (Field)
- The Concussions field is required.** (Error message)
- Do you have epilepsy?** (Question)
- ☐ Yes
- ☐ No
- The Epilepsy field is required.** (Error message)

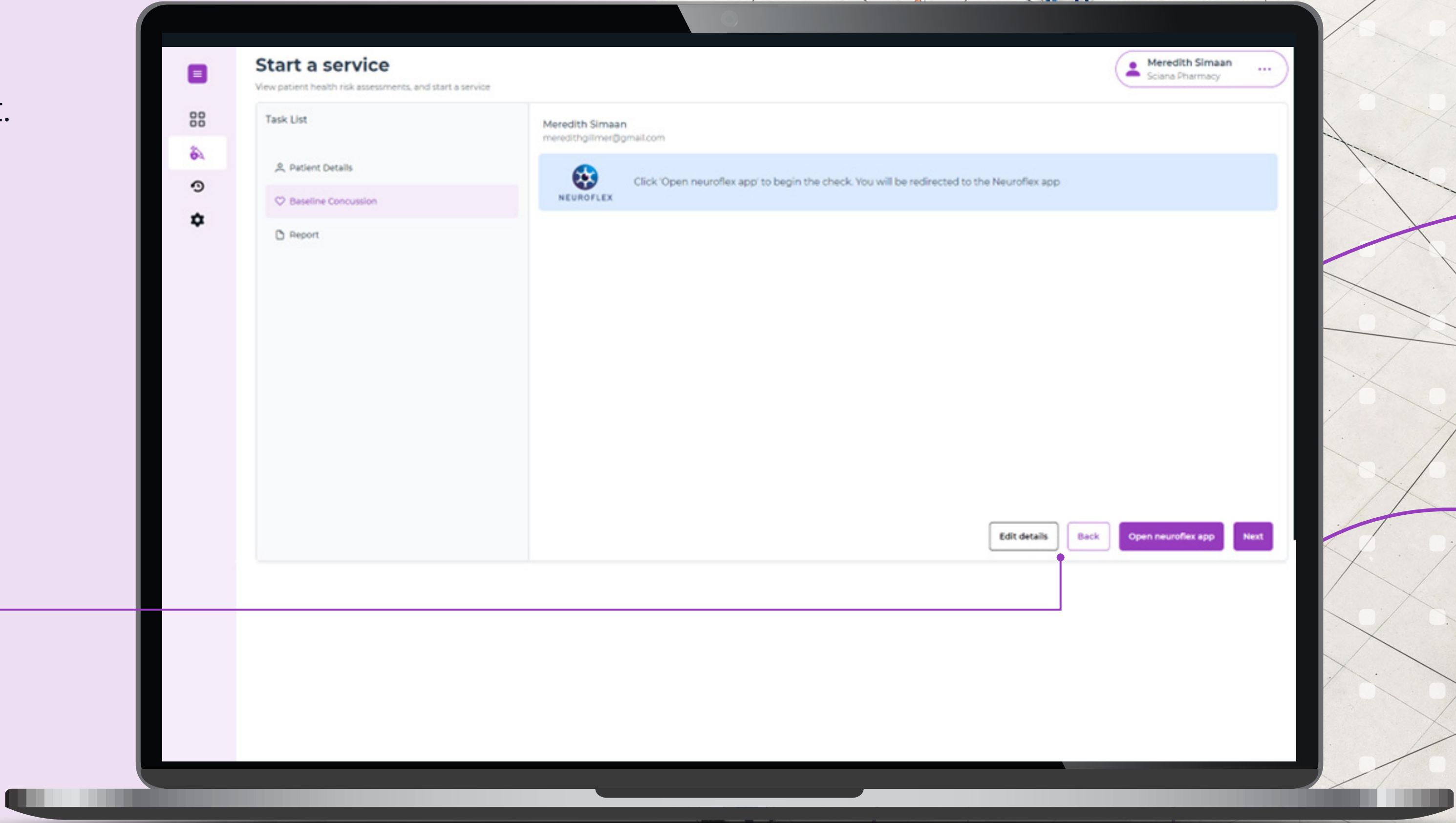
Buttons at the bottom right: Edit details, Back, Next.

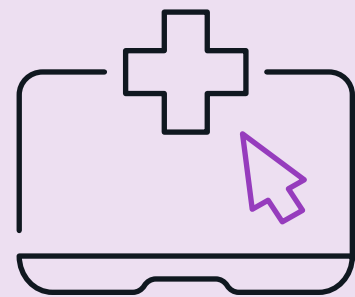




Connecting to NeuroFlex®

- 1. **Open NeuroFlex® App:**
 - Tap the “Open NeuroFlex® Application” button to connect.

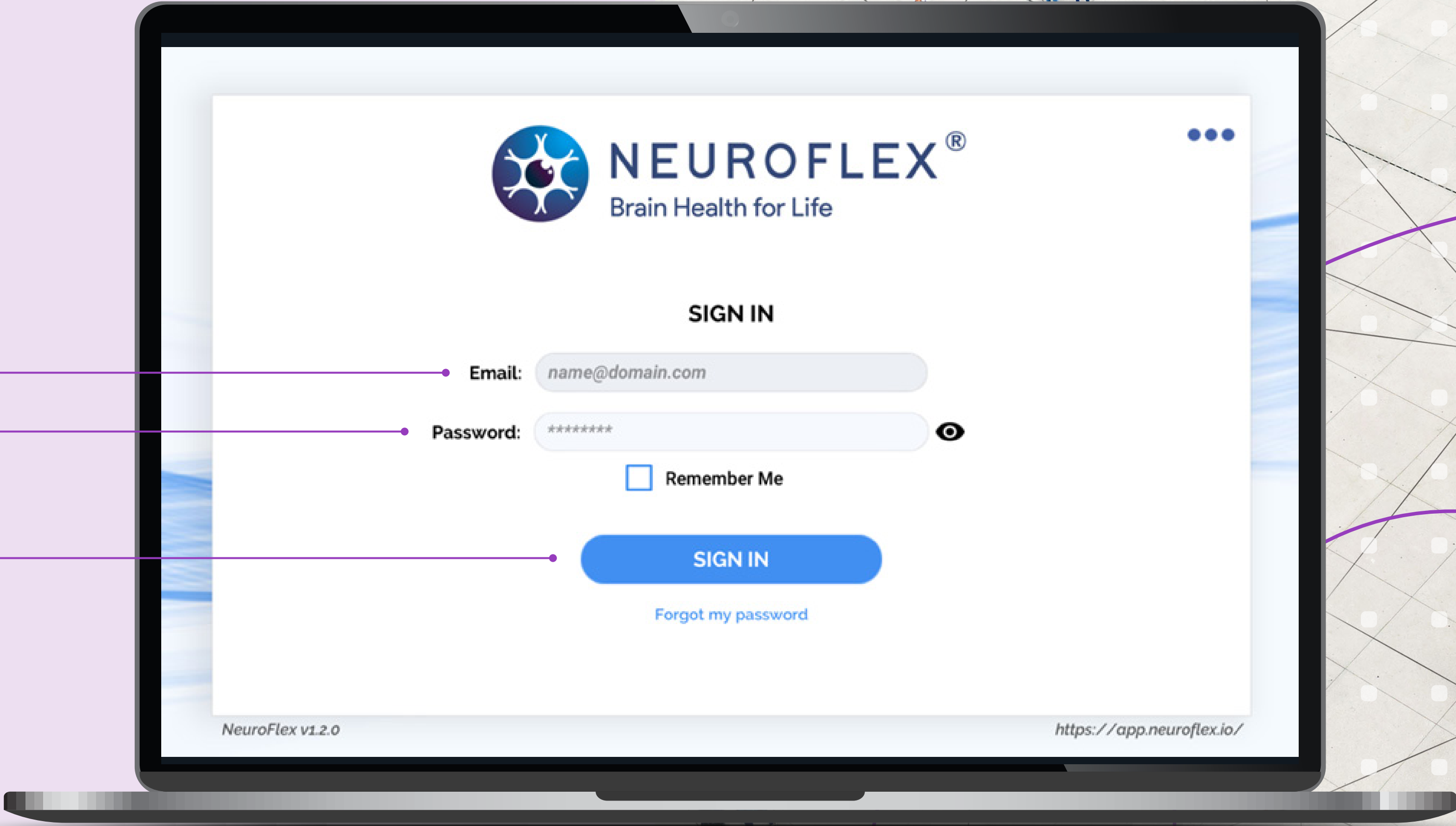


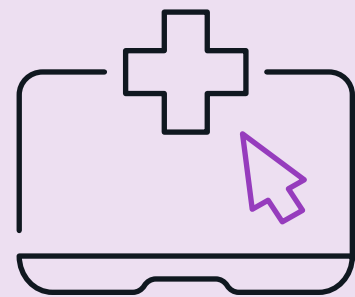


cont ...

Connecting to NeuroFlex®

2. Log in to NeuroFlex®:
- Use the same login credentials as for the Sciana platform.



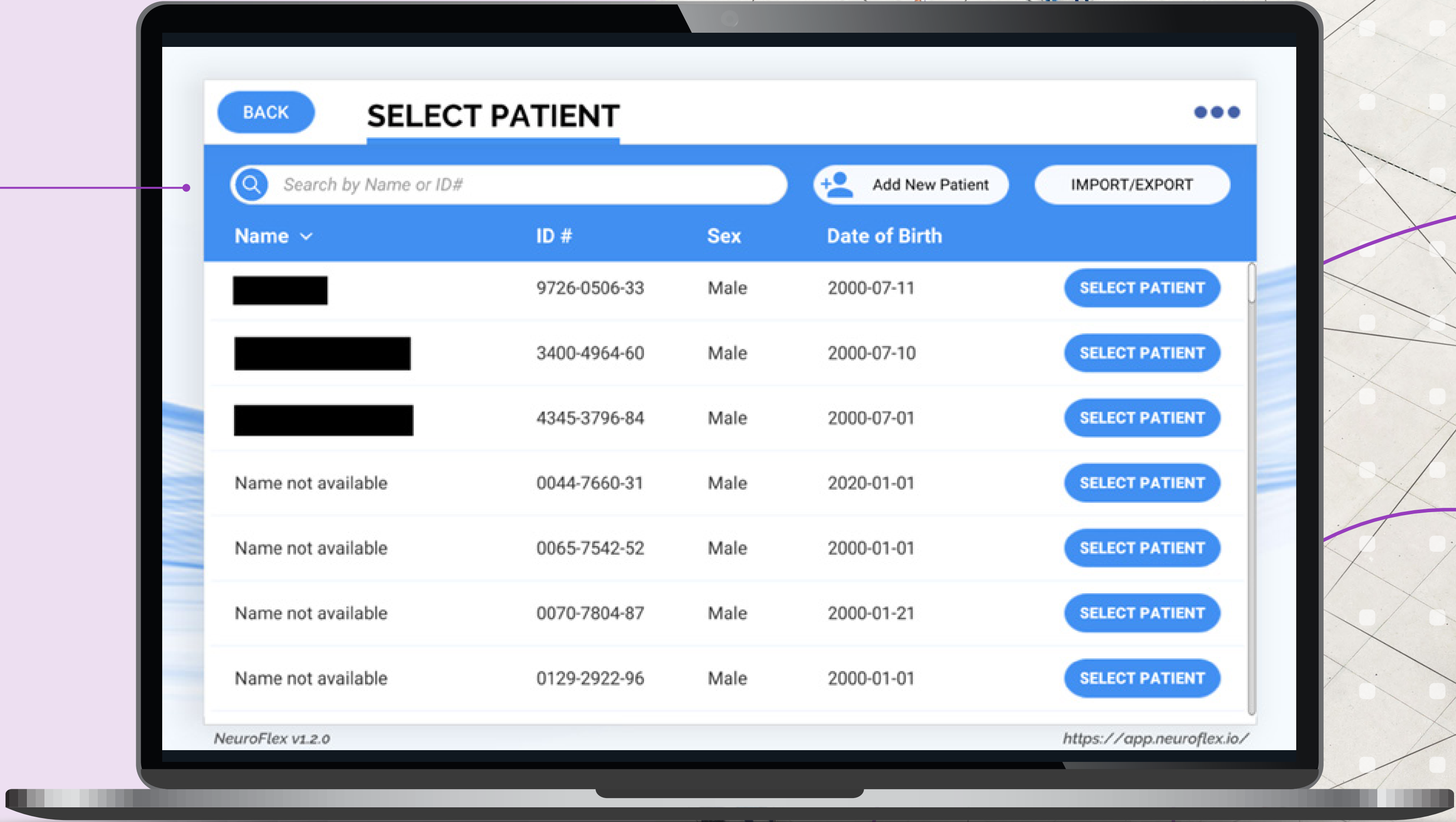


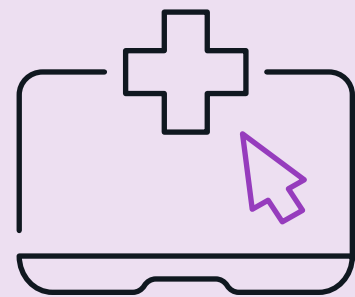
cont ...

Connecting to NeuroFlex®

3. Patient Search:

🔍 Locate the patient using the **search toolbar**; patient information from Sciana will auto-fill.





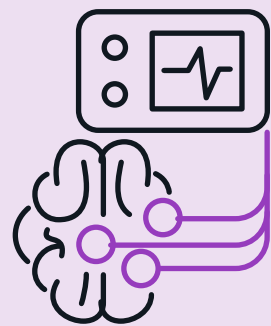
cont ...

Connecting to NeuroFlex®

4. Select Test Type:

Choose either
"Baseline" or
"Assessment (Head Injury)."



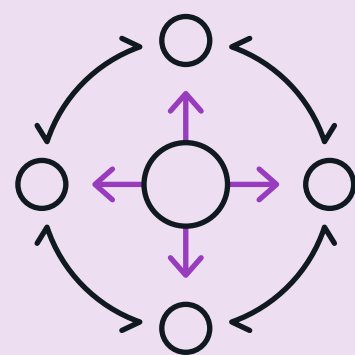


Equipment Setup

- 1. **Seating:**
 - ☞ Seat the patient in a stable, non-swivel chair close to the laptop for easy access.
- 2. **Place the headset on the Patient:**
 - ☞ Help the patient position the headset comfortably.
 - ☞ Adjust and secure the straps, ensuring they're snug but not tight.
 - ☞ Ensure the patient's head is centred, click '**Align headset**'.
- 3. **Calibrate the headset:**
 - ☞ Click the "**Calibrate**" button on the bottom-right of the screen.
 - ☞ Ask the patient to keep their head still and follow the green dot until "**Calibration Successful**" appears (approx. 15–20 seconds).

Important: If the headset moves or vision blurs, recalibrate before proceeding.





Protocols Overview

The concussion checks include the following 8 protocols:

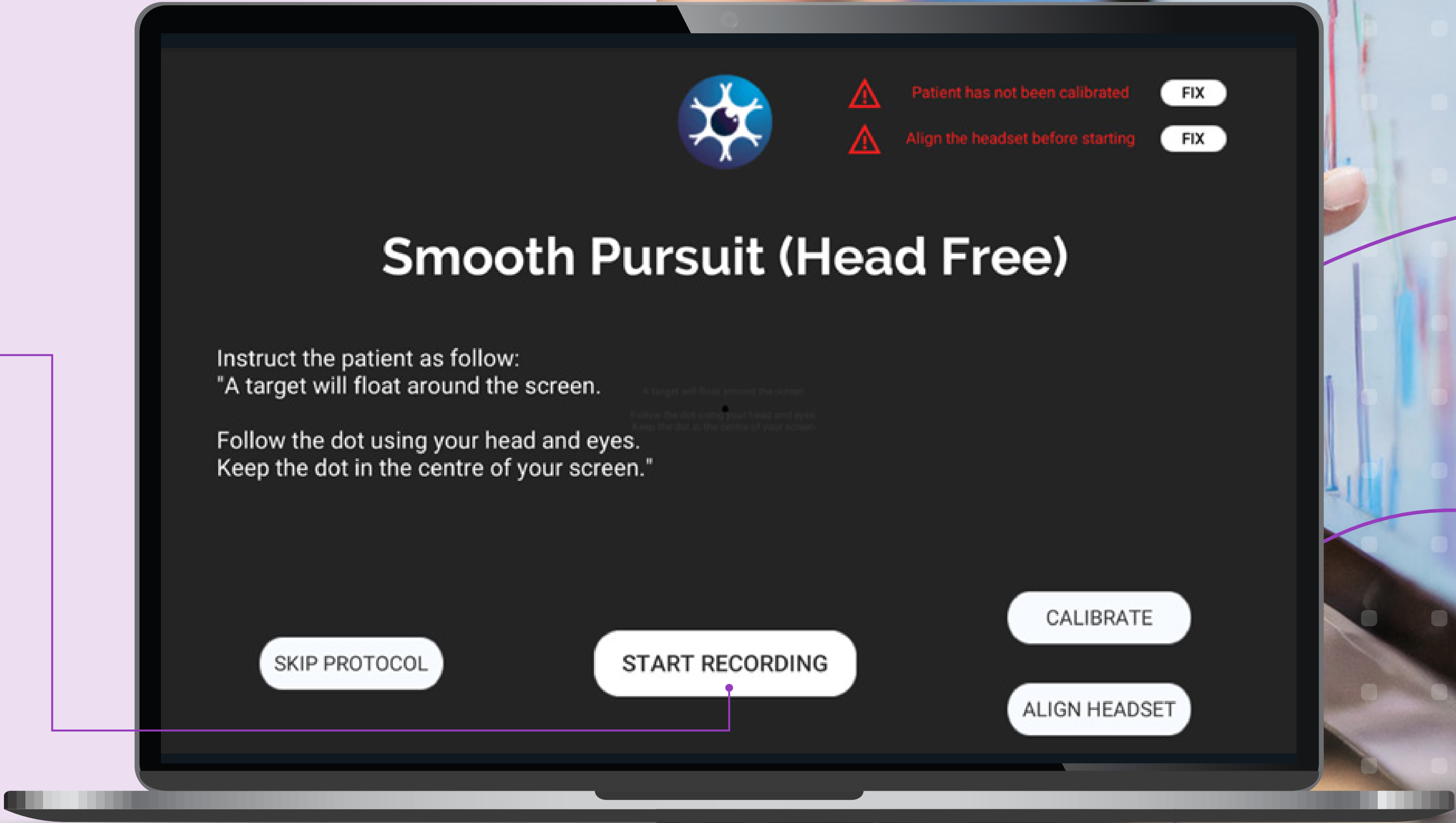
1. **Smooth Pursuit Head Free** – 30 seconds
2. **VOR Horizontal** – 45 seconds
3. **VOR Vertical** – 45 seconds
4. **Smooth Pursuit Head Fixed** – 30 seconds
5. **(Pro)saccades** – 75 seconds
6. **Anti-saccades** – 75 seconds
7. **Optokinetic Nystagmus** – 40 seconds
8. **Spontaneous Nystagmus** – 40 seconds

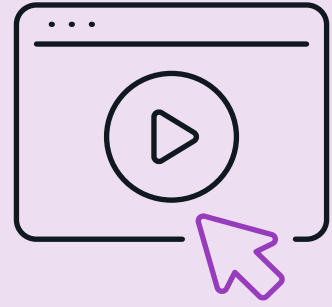




Starting and Monitoring the Test

- 1. Read the on-screen text out loud to the patient.
- 2. Begin Recording:
 - Press “Start Recording” to initiate the test.
 - Follow prompts, pressing “Continue” as required.



*cont ...*

Starting and Monitoring the Test

3. Monitor Patient (Protocols 1 – 3):

- ∞ Patient will be required to move their head for these protocols.
- ∞ Ensure the patient's head is recentred at the start of each protocol.
- ∞ Click "align headset" before starting the next protocol.

4. Monitor Patient (Protocols 4 – 8):

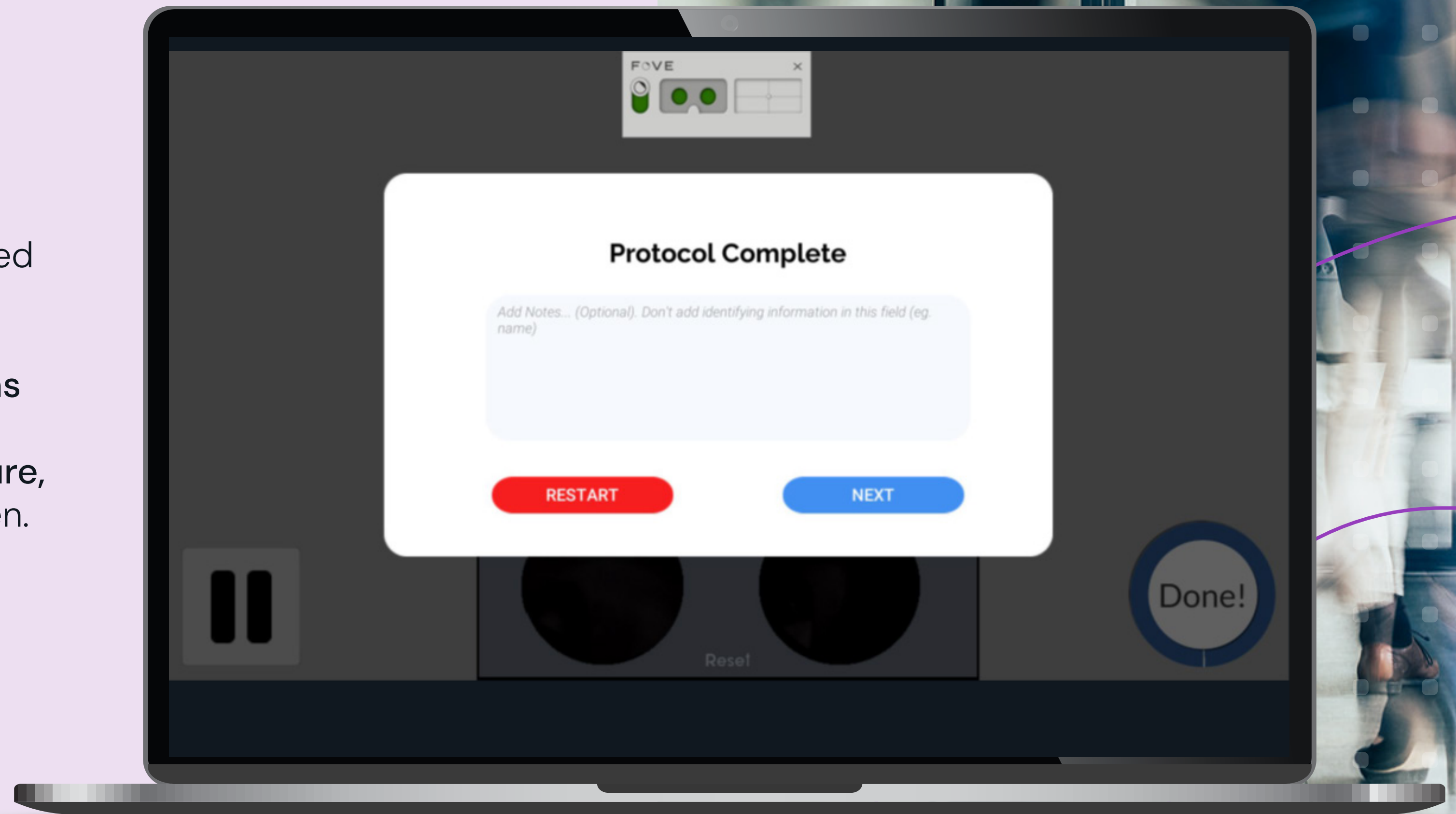
- ∞ Patient will be required to keep their head still for these protocols.
- ∞ Remind patient to follow the target with their eyes only.
- ∞ If significant head movement occurs, restart the protocol.

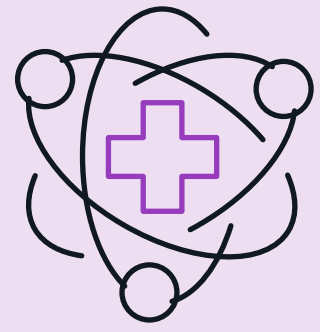




Reporting Subjective Symptoms

1. After completing the test, a textbox will appear on the screen.
 - ∞ Record any symptoms reported by the patient (e.g., nausea, dizziness).
 - ∞ Note any unusual observations (e.g., eye closures).
 - ∞ If there is prolonged eye closure, you will be prompted on-screen. Recommended to restart the protocol.





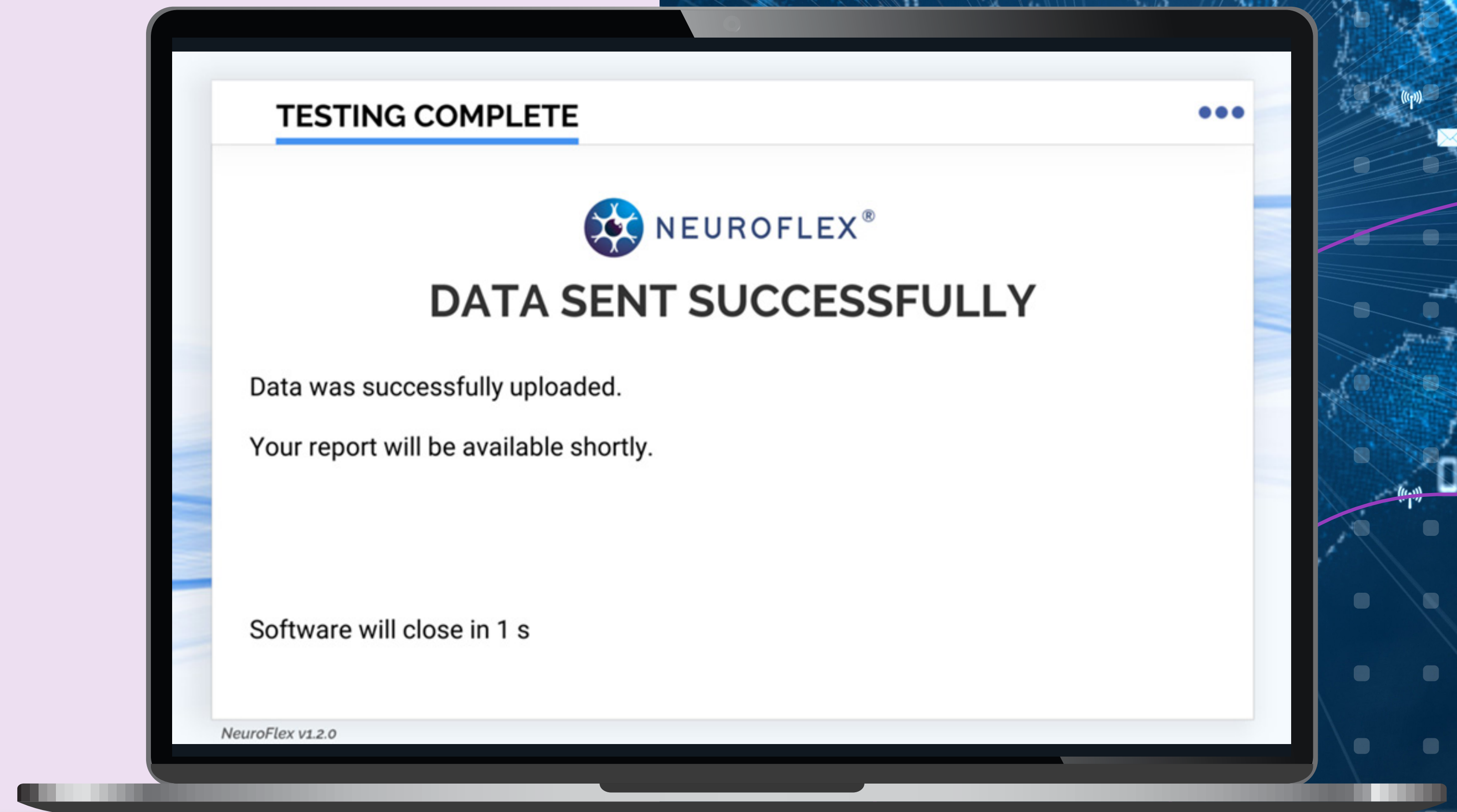
Data Analysis and Removing the Headset

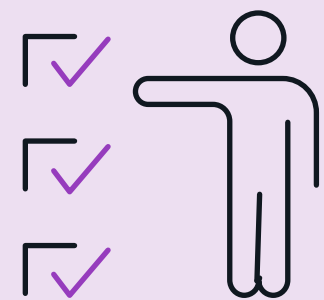
1. Data Transmission:

- ☞ Data from the check is automatically sent securely for analysis.

2. Headset Removal:

- ☞ Assist the patient with removing the headset.
- ☞ Upon successful data transmission, the NeuroFlex® application will close.





Review and Communicate Findings

Baseline

Outcome

Baseline Check data will be safely stored and used by health professionals to compare patients brain health in the case of a future head injury.

Communicate

Advise patient to schedule next baseline test in 12 months’ time. Reminder’s will be sent to patient via the Sciana platform

Recommendations

Assessment

Advise the patient on visiting the pharmacy for a Concussion Assessment if they have a suspected concussion.

Assessment [normal]

Findings

Assessment check findings will be emailed to the patient and their chosen GP.

Communicate

If the patient experiences any symptoms Please contact your GP or go to the emergency room.

Recommendations

Partners

Sciana has partnered with a network of physiotherapists who are trained to assess, diagnose and manage concussions if they have any concerns.
Referral Network: <https://sciana.health/>.

Programs

HeadCheck is an evidence-based concussion app developed by the Murdoch Children’s Research Institute.
[Download the app](#) to monitor concussion symptoms and track your progress.

Products

Advise the patient on medications for pain management.

Assessment [referral]

Findings

Assessment check findings will be emailed to the patient and their chosen GP.

Communicate

If the findings are outside normative range for the patient, recommend that they consult a physiotherapist or their GP for further advice.

Recommendations

Partners

Sciana has partnered with a network of physiotherapists who are trained to assess, diagnose, manage and refer concussions as part of multidisciplinary team.
Referral Network: <https://sciana.health/>.

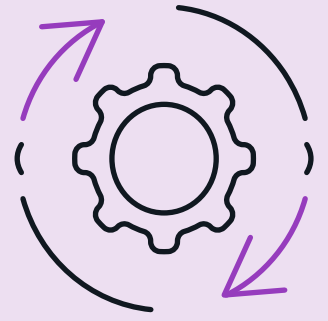
Programs

HeadCheck is an evidence-based concussion app developed by the Murdoch Children’s Research Institute.
[Download the app](#) to monitor concussion symptoms and track your progress.

Products

Advise the patient on medications for pain management.





Post-Check Procedure

1. Cleaning and Maintenance:

- ∞ Wipe the headset with hospital-grade disinfectant.
- ∞ Clean lenses with low-moisture anti-fog wipes.

Warning: Do not use cleaning solutions or solvents directly on the screen.

2. Follow-Up:

- ∞ Recommend scheduling annual baseline checks.
This ensures that we have the most current data for accurate comparison in the event a head injury occurs.

3. Return headset:

- ∞ to a position where the Sciana logo is facing upright in preparation for the next check.



For healthier futures

References

- 1. AIS-Concussion-and-Brain-Health-Position-Statement_2024.
- 2. SCAT 6™ Sports Concussion Assessment Tool For Adolescents- 13 years & Adults
- 3. SCOAT 6™ Sports Concussion Assessment Tool For Adolescents- 13 years & Adults