



NOVASYNE

STUDYPRO

User Guide

Run a clinical trial end to end — subjects, consent, recordings, signals, analysis and the money — with every change written to an audit log you can read.

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Before you start

STUDYPRO holds a clinical trial: the people in it, what was consented, what was collected, what the signals look like, what the analysis says, and where the money went. It is one place rather than a folder of spreadsheets, and every change it accepts is written to an audit log that reads back in plain language.

Three things are worth knowing before the first screen.

Access is per study, and it is granted by email. Having an account does not give you a study. Someone who administers the study adds your email address to it, and that is what makes it appear in your list.

Nothing here is deleted quietly. Removing a subject's identifying details is a deliberate, irreversible act with its own button and its own wording, and it leaves the clinical record intact. Revoking a study is separate again, and says so.

The AI features are optional and off by default. They need an OpenAI key against the study. Everything else — import, subjects, recordings, the signal viewers, every statistical analysis in this guide, finances, export — runs without one.

What you need

The application	Running and reachable in a browser. See DEPLOYMENT.md for installation.
An account	Registered with your work email, confirmed by the link you are sent.
A study	Created by you, or one you have been added to by email.
An OpenAI key	Only for the AI analyses and the research assistant.

The study in this guide

Every figure comes from one study: **CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition** — a randomised, placebo-controlled trial of omega-3 supplementation on sleep quality, cardiometabolic markers and mood. Twenty-four subjects in two arms, roughly 1,100 recordings, four study documents, and a budget of \$185,000. It was itself imported from a REDCap export, which is the subject of the last part of this guide.

The public side

The front page

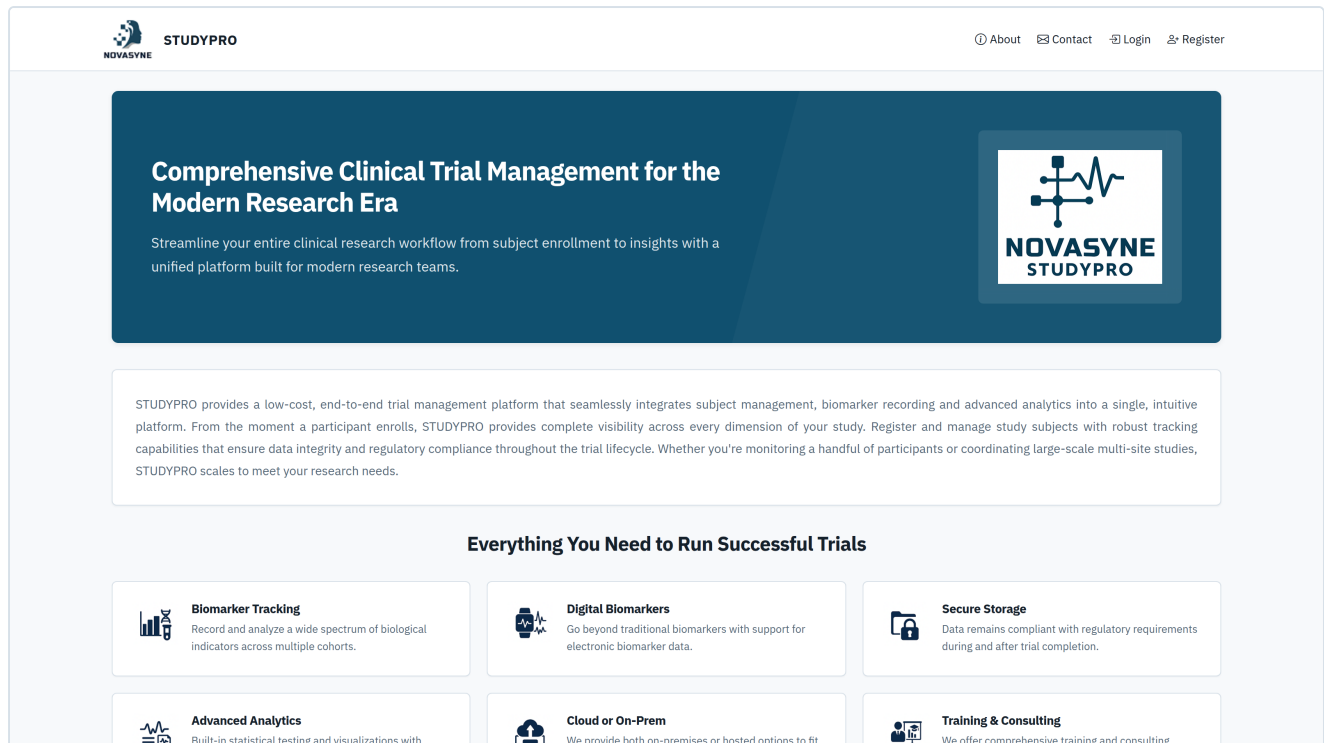


Figure 1 — The front page.

Everything before sign-in is a description of the product rather than part of it. It matters for one reason: this is what a collaborator sees when you send them a link, before they have an account.

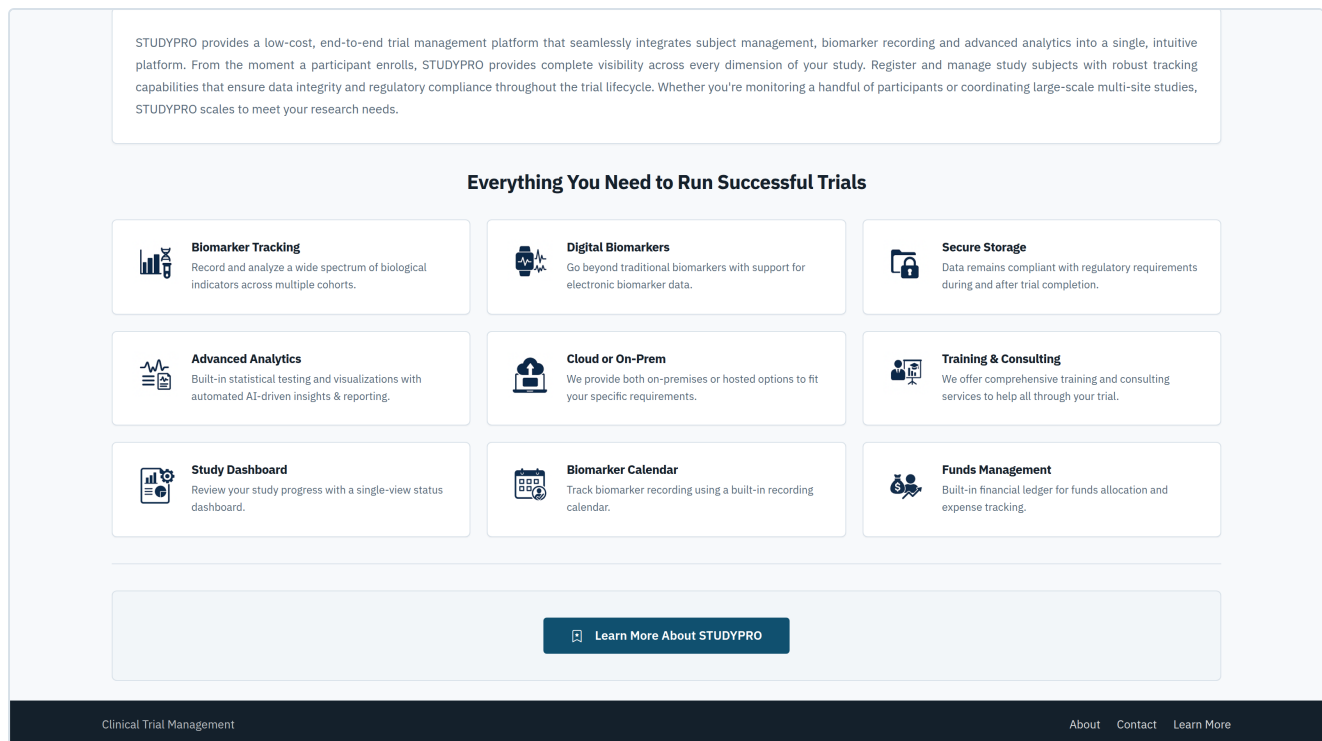


Figure 2 — What the platform claims to do.

The longer tour

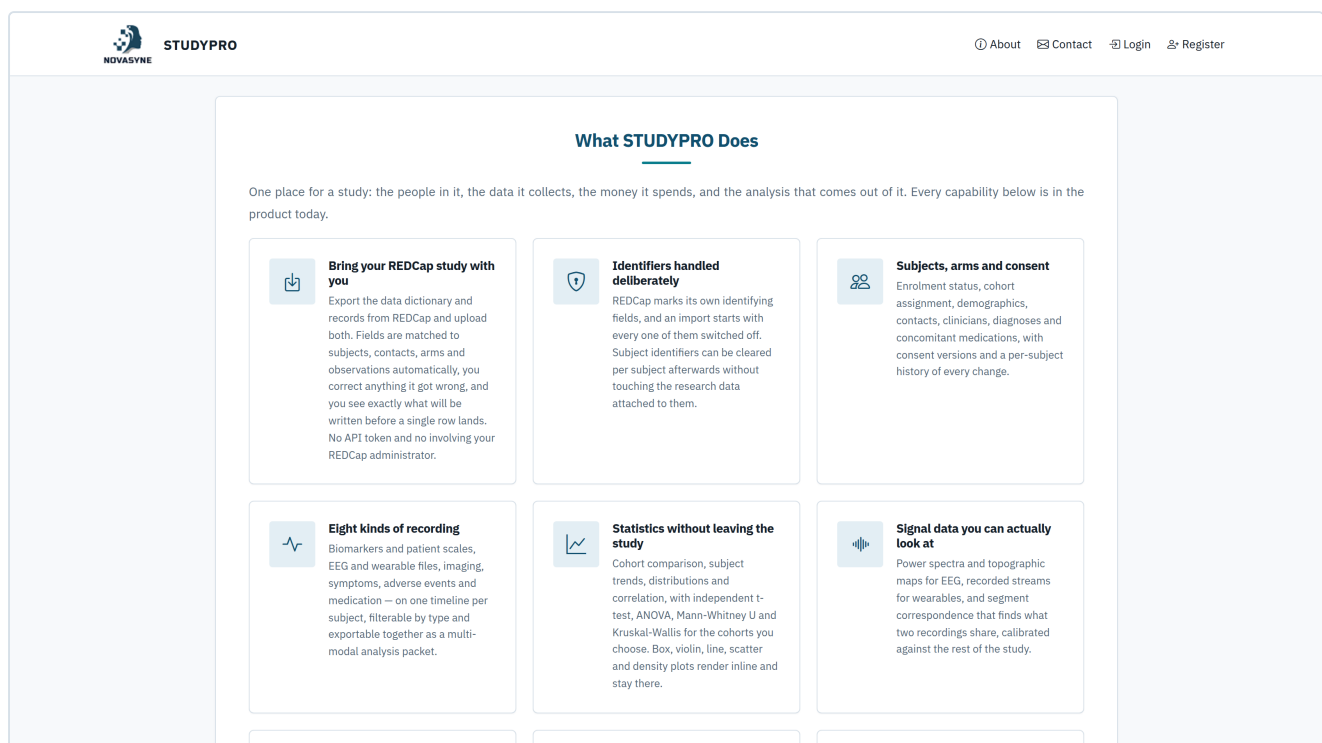


Figure 3 — The tour.

Learn more walks the same ground in more detail — what a study holds, what the analysis bench does, what the signal viewers read.

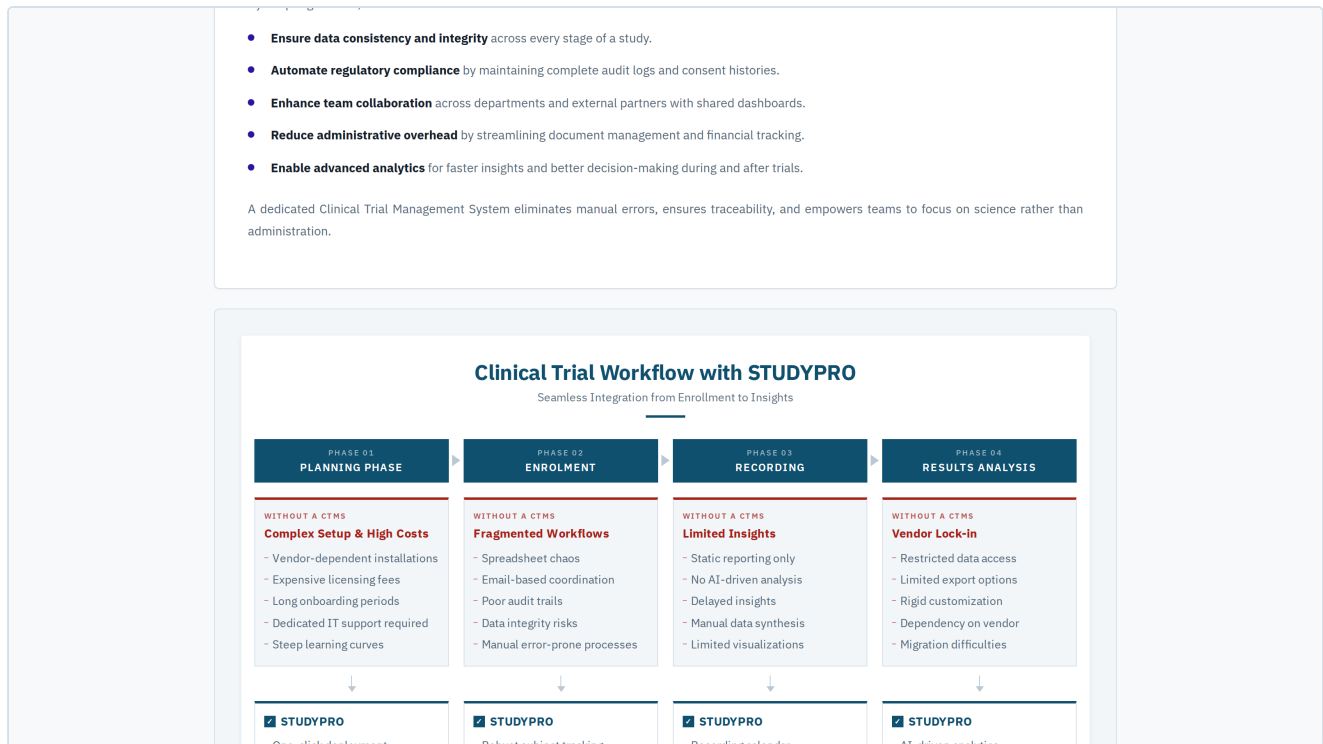


Figure 4 — Further down the same page.

The best-practice guide

NOVASYNE STUDYPRO

① About ✉ Contact 🔑 Login 👤 Register

① Please log in to access this page. ✕

Welcome Back
Sign in to your STUDYPRO account

EMAIL ADDRESS

PASSWORD

🔑 Sign In

Forgotten your password?

Don't have an account? [Create one](#)

Clinical Trial Management

About Contact Learn More

Figure 5 — Running a study well, rather than running the software.

This one is not about the software. It is about the trial: pre-registration, consent versioning, protocol deviations, keeping the analysis plan ahead of the data. Worth reading once before the first subject is enrolled.

About and contact

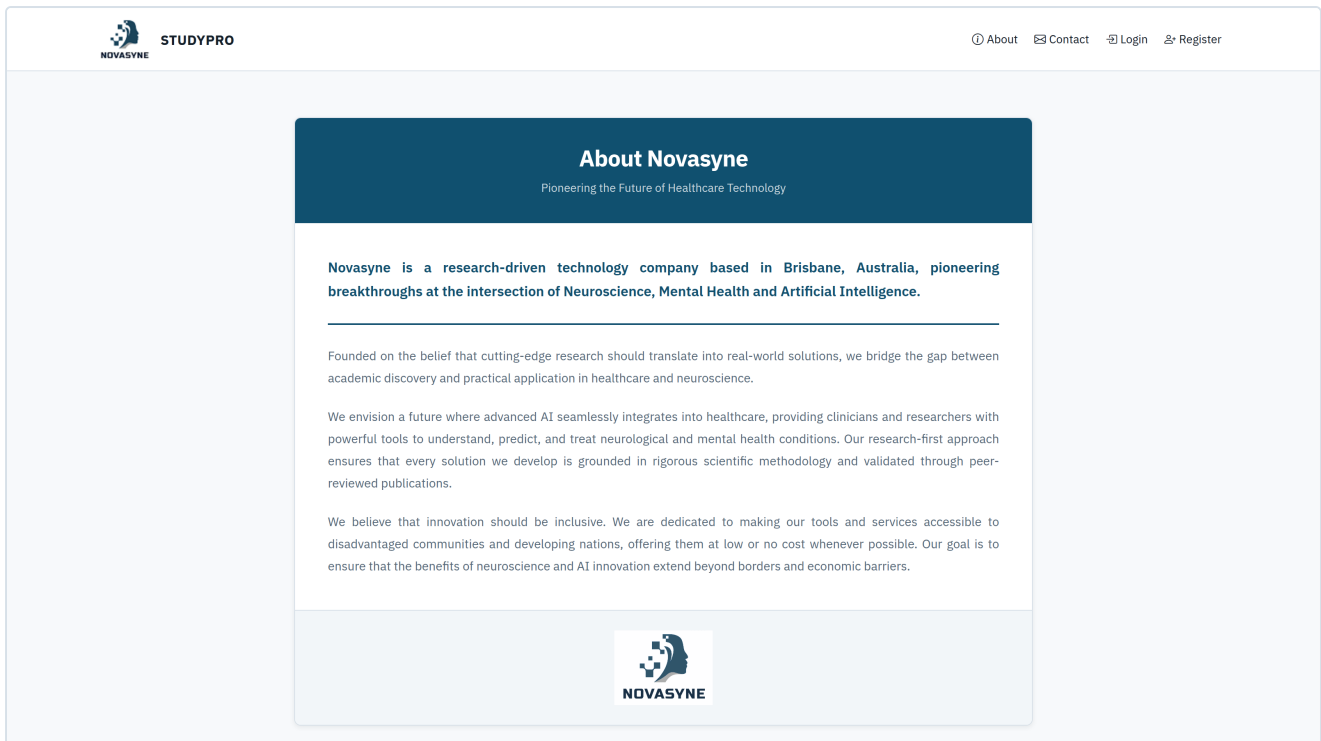


Figure 6 — About.

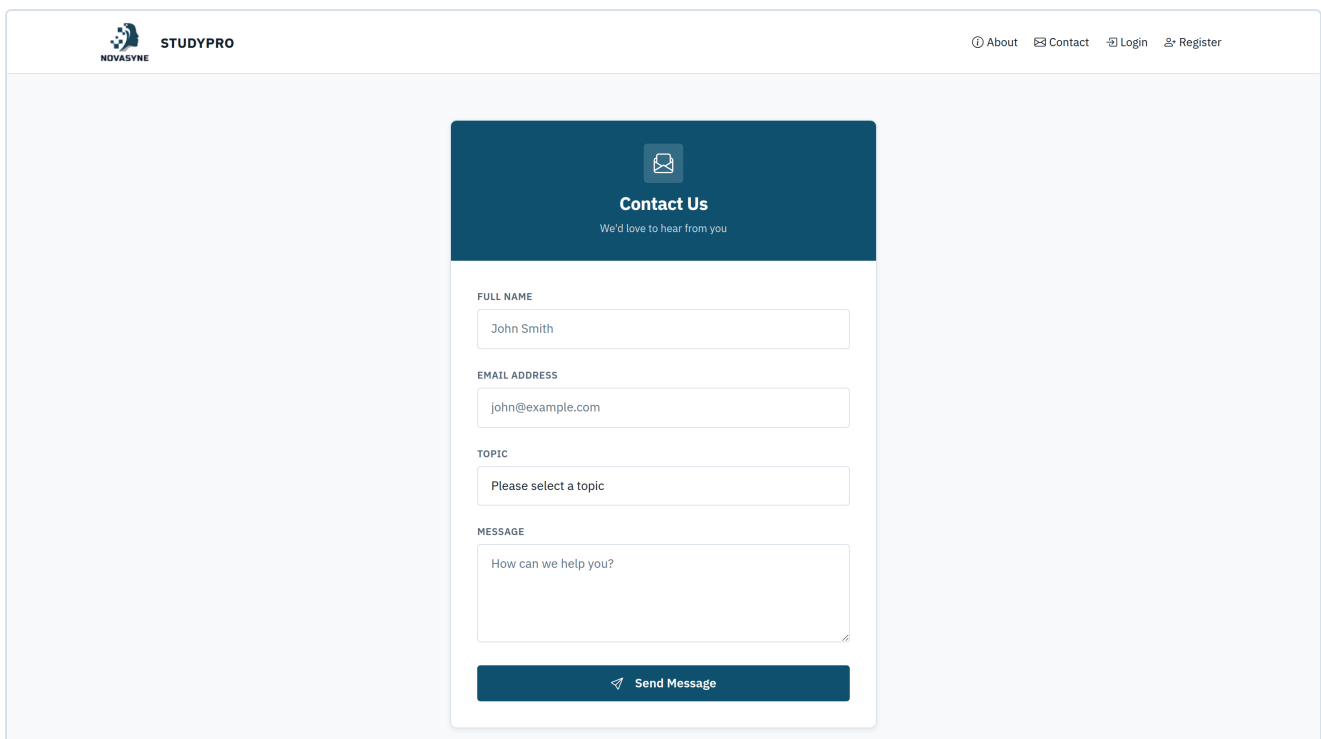


Figure 7 — Contact.

Getting an account

Registering

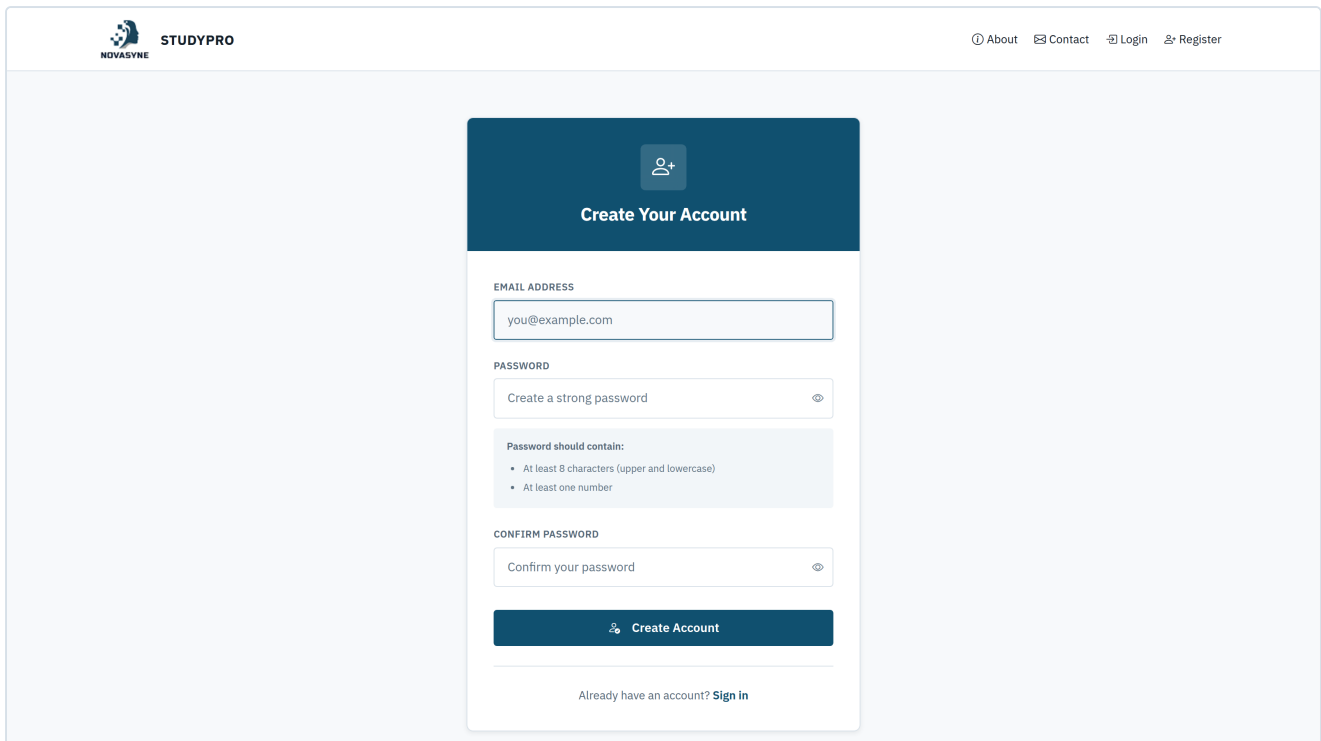
The screenshot shows the STUDYPRO registration interface. At the top left is the NOVASYNE logo and the text 'STUDYPRO'. At the top right are links for 'About', 'Contact', 'Login', and 'Register'. The main content is a 'Create Your Account' form. It has a dark blue header with a user icon and the title 'Create Your Account'. The form fields include: 'EMAIL ADDRESS' with the placeholder 'you@example.com'; 'PASSWORD' with the placeholder 'Create a strong password' and a toggle icon; a password requirements section stating 'Password should contain:' with bullet points 'At least 8 characters (upper and lowercase)' and 'At least one number'; 'CONFIRM PASSWORD' with the placeholder 'Confirm your password' and a toggle icon; a dark blue 'Create Account' button; and a link 'Already have an account? Sign in' at the bottom.

Figure 8 — Registering.

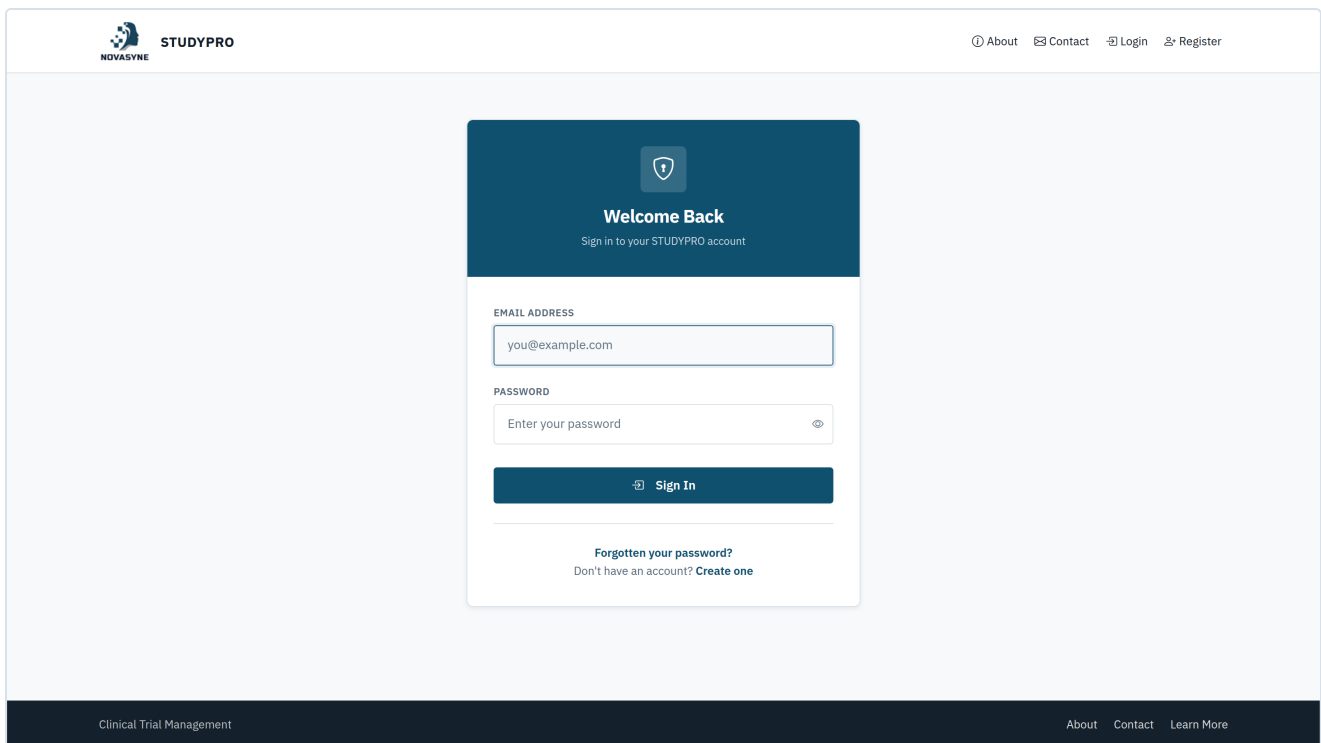
Register with the email address your colleagues will use to add you to a study. If you register with a personal address and are invited by your work address, you will have an account that can see nothing.

Registration sends a confirmation link. The account exists but cannot sign in until it is followed.

THE EMAIL YOU REGISTER WITH IS THE KEY TO EVERYTHING

Study access is matched on the email address, not on your name and not on an account id. Changing which address you use later means being added to every study again.

Signing in

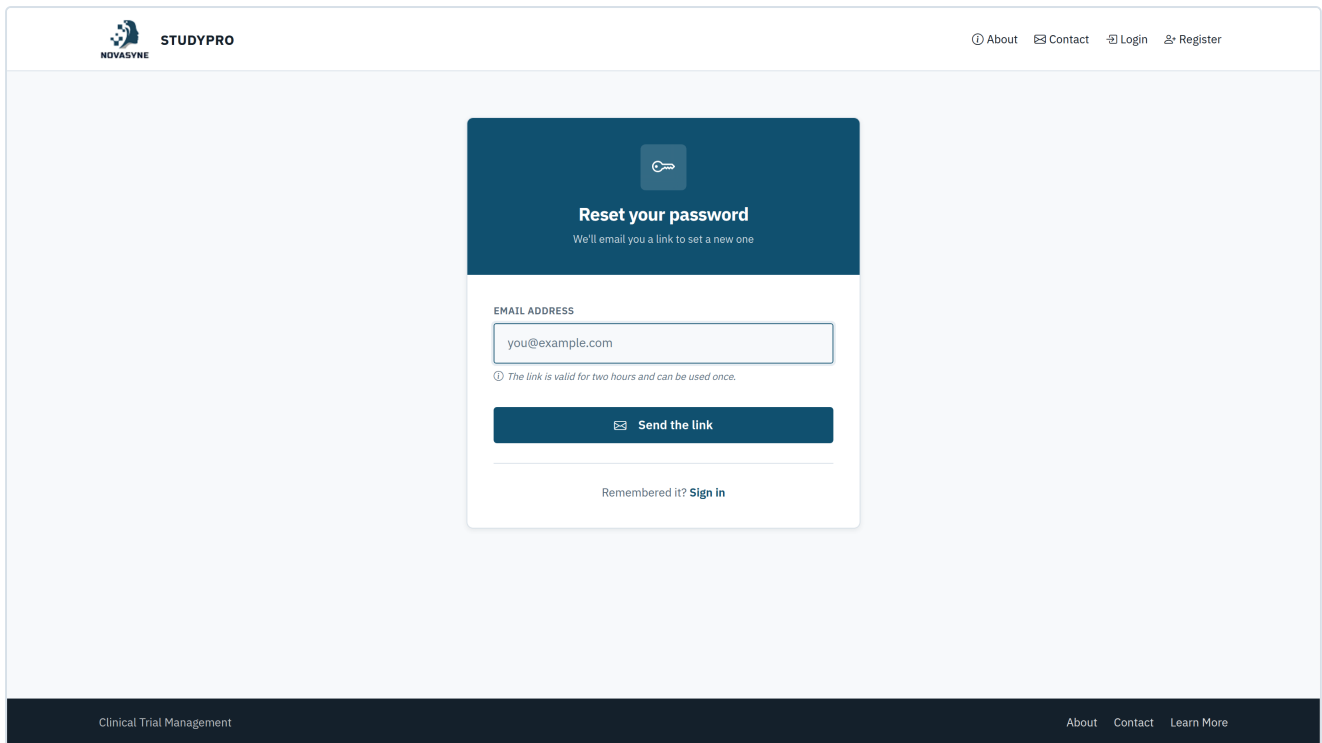


The screenshot shows the STUDYPRO Sign In page. At the top left is the NOVASYNE logo and the text 'STUDYPRO'. At the top right are links: 'About', 'Contact', 'Login', and 'Register'. The main content area features a central sign-in form. The form has a dark blue header with a shield icon, the text 'Welcome Back', and 'Sign in to your STUDYPRO account'. Below this are two input fields: 'EMAIL ADDRESS' with the placeholder 'you@example.com' and 'PASSWORD' with the placeholder 'Enter your password'. A dark blue 'Sign In' button is below the password field. At the bottom of the form, there is a link 'Forgotten your password?' and a link 'Don't have an account? Create one'. The footer contains 'Clinical Trial Management' on the left and 'About', 'Contact', and 'Learn More' on the right.

Figure 9 — Signing in.

Repeated failures are throttled rather than locked out: ten failures from one address in five minutes and it stops answering for a while, then starts again on its own. A successful sign-in clears the count.

When you have forgotten it



The screenshot shows the STUDYPRO website's password reset interface. At the top left is the NOVASYNE logo and the text 'STUDYPRO'. At the top right are links for 'About', 'Contact', 'Login', and 'Register'. The main content area features a central white card with a dark blue header. The header contains a key icon, the title 'Reset your password', and the subtext 'We'll email you a link to set a new one'. Below the header is a text input field labeled 'EMAIL ADDRESS' containing the text 'you@example.com'. Underneath the input field is a small note: 'ⓘ The link is valid for two hours and can be used once.' Below this is a dark blue button with a white envelope icon and the text 'Send the link'. At the bottom of the card, it says 'Remembered it? [Sign in](#)'. The footer of the page is dark blue and contains the text 'Clinical Trial Management' on the left and 'About', 'Contact', and 'Learn More' on the right.

Figure 10 — Asking for a reset link.

The reply is the same whether or not the address is known to the system, which is deliberate — it is not a way to find out who has an account. The link that arrives is valid for two hours, and using it invalidates itself: it is signed with the password it is about to replace.

Your studies

The screenshot displays the 'Your Studies' page in the STUDYPRO application. At the top, there's a navigation bar with links for Studies, Audit Log, Help, Account, and Logout. Below this, the 'Your Studies' section features three action buttons: 'Research Assistant', 'Import from REDCap', and 'Register New Study'. A table lists the studies, with one study shown: 'CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition'. The study is in 'Ongoing' status, has 24 subjects, 1122 recordings, and was last active on 2026-10-28. The table includes columns for Name, Status, Subjects, Recordings, Start Date, Last Activity, and Actions. An 'Admin' button is visible next to the study name. The page also shows a search bar and pagination controls.

NAME	STATUS	SUBJECTS	RECORDINGS	START DATE	LAST ACTIVITY	ACTIONS
Admin CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	Ongoing	24	1122	2026-02-01	2026-10-28	Open

Figure 11 — Every study this account can reach.

One row per study, with the count of subjects and recordings, the status, and when it was last touched. **Admin** on a row means you can change the study itself — its settings, its participants and its money — rather than only work inside it.

Three buttons sit above the table:

Register New Study opens the three-step wizard, covered near the end of this guide.

Import from REDCap starts the same thing from an existing REDCap project.

Research Assistant is the AI assistant, and needs a key.

The study workspace

Everything inside a study is reached from one tab strip, and every page in it carries the same breadcrumb: Studies, the study, the section you are in.

Tab	What lives there
Dashboard	Status, recruitment, spend and completeness at a glance
Analytics	The analysis bench
Finances	Budget, expenses and the transaction history
Subjects	The roster, and everything held about one person
Recordings	Every observation, and the viewers
Documents	The study binder
Arms	The cohorts subjects are allocated to
Participants	Who works on the study, and who administers it
Settings	The study record itself

The dashboard

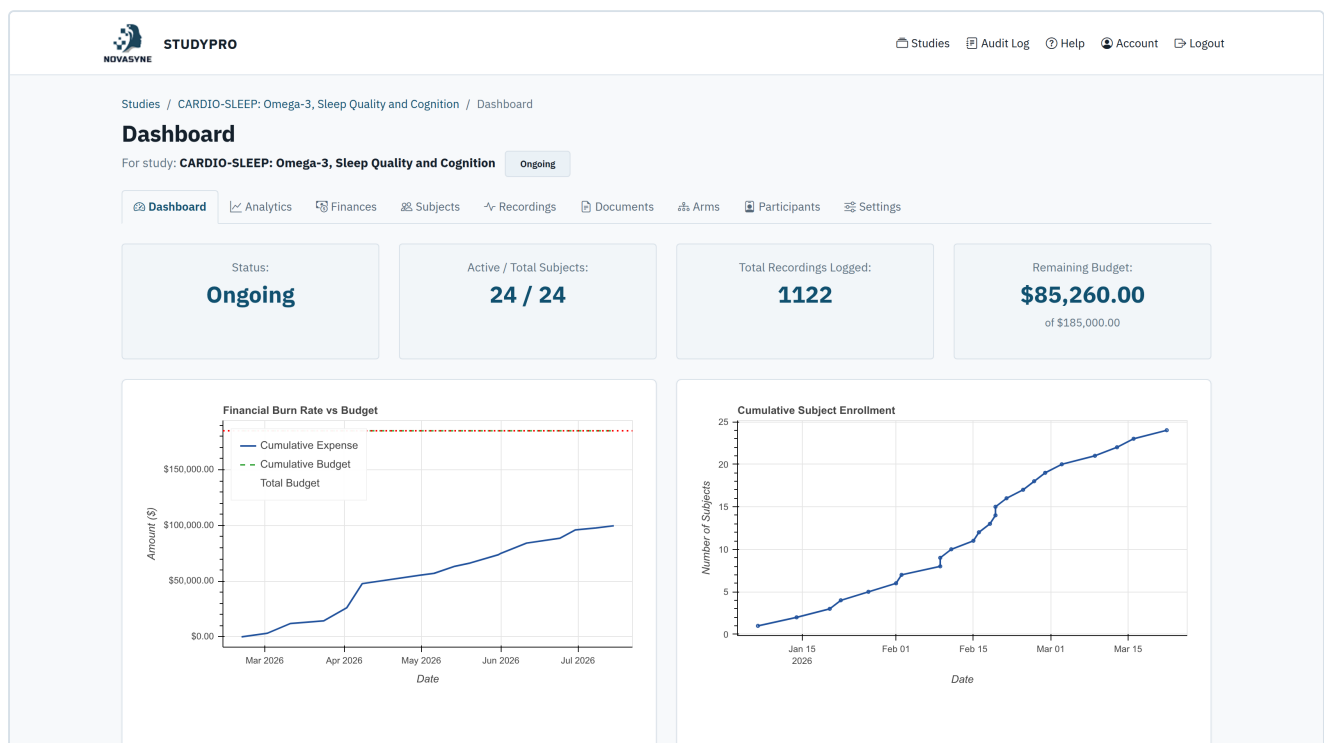
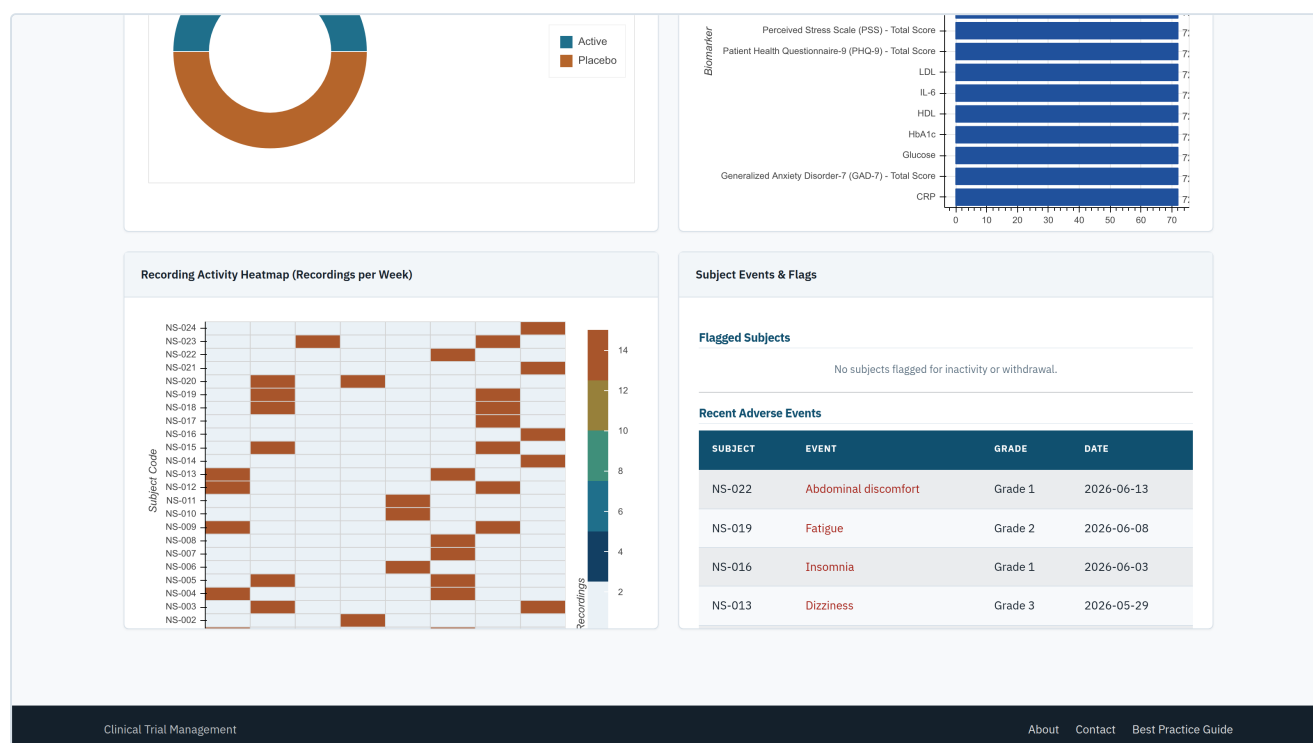


Figure 12 — The study dashboard.

Four numbers first: the status, how many subjects are active out of how many enrolled, how many recordings have been logged, and what is left of the budget.



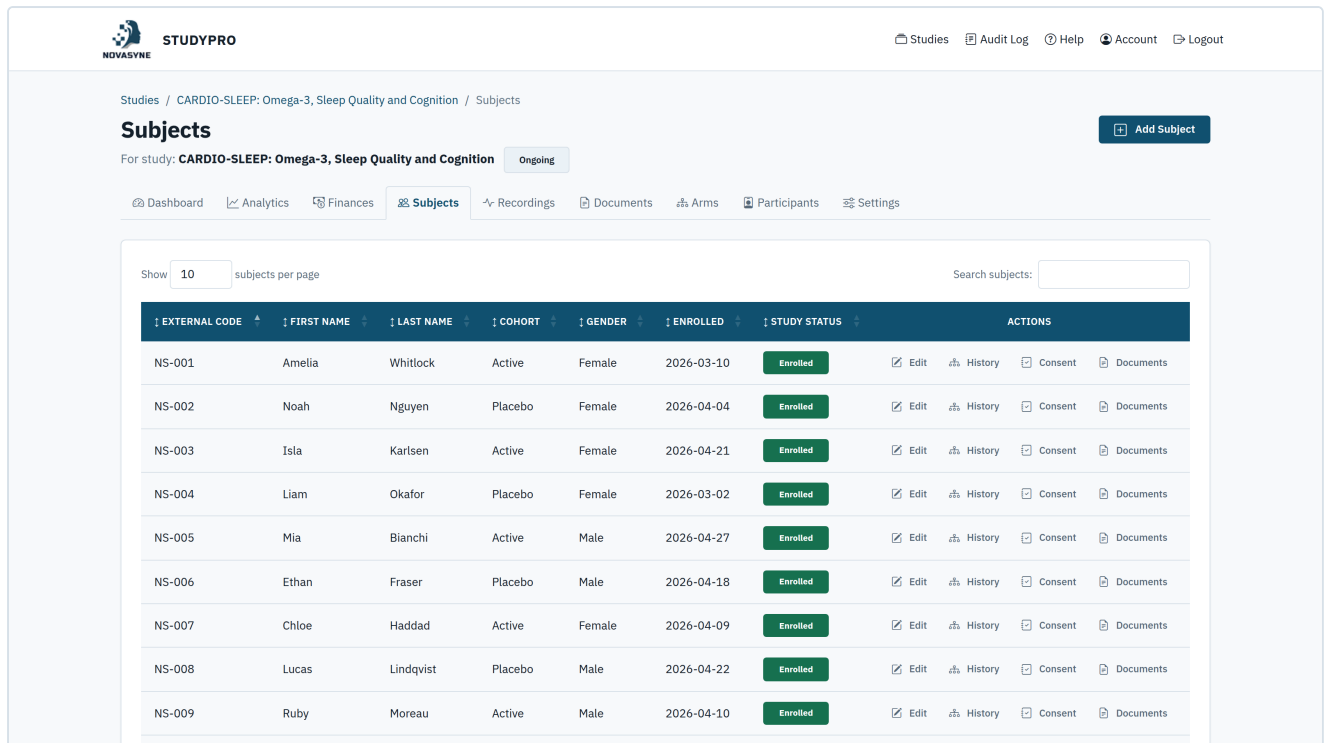
Then two curves that answer the two questions a chief investigator asks between meetings: *are we recruiting fast enough?* and *are we spending faster than we are recruiting?* The budget line is the plan; the expense line is what has actually been committed.



Lower down, the same recording counts broken out by kind, which is the fastest way to notice that one modality has quietly stopped arriving.

Subjects

The roster



STUDYPRO

Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Subjects

Subjects For study: CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition Ongoing Add Subject

Dashboard Analytics Finances **Subjects** Recordings Documents Arms Participants Settings

Show 10 subjects per page Search subjects:

EXTERNAL CODE	FIRST NAME	LAST NAME	COHORT	GENDER	ENROLLED	STUDY STATUS	ACTIONS
NS-001	Amelia	Whitlock	Active	Female	2026-03-10	Enrolled	Edit History Consent Documents
NS-002	Noah	Nguyen	Placebo	Female	2026-04-04	Enrolled	Edit History Consent Documents
NS-003	Isla	Karlsen	Active	Female	2026-04-21	Enrolled	Edit History Consent Documents
NS-004	Liam	Okafor	Placebo	Female	2026-03-02	Enrolled	Edit History Consent Documents
NS-005	Mia	Bianchi	Active	Male	2026-04-27	Enrolled	Edit History Consent Documents
NS-006	Ethan	Fraser	Placebo	Male	2026-04-18	Enrolled	Edit History Consent Documents
NS-007	Chloe	Haddad	Active	Female	2026-04-09	Enrolled	Edit History Consent Documents
NS-008	Lucas	Lindqvist	Placebo	Male	2026-04-22	Enrolled	Edit History Consent Documents
NS-009	Ruby	Moreau	Active	Male	2026-04-10	Enrolled	Edit History Consent Documents

Figure 15 — The subject roster.

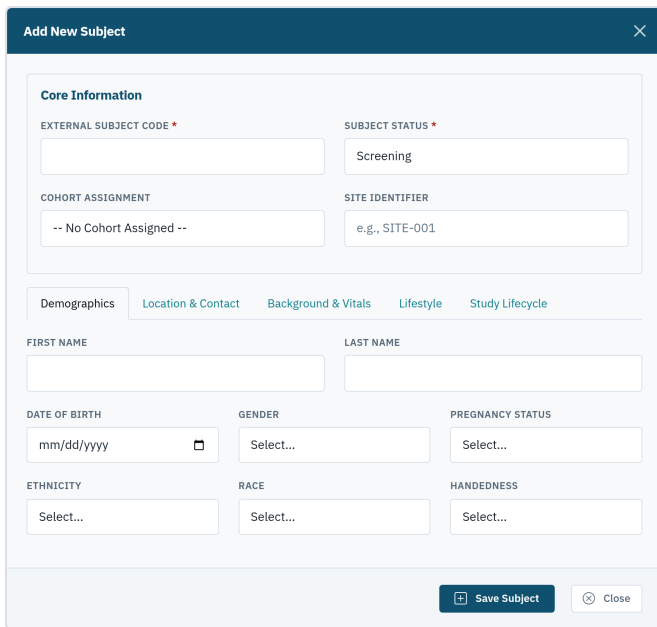
One row per subject: the external code you know them by, first and last name, the arm they are in, gender, when they were enrolled, and their study status.

The four buttons on each row are the whole subject record — **Edit**, **History**, **Consent** and **Documents**.

THE EXTERNAL CODE IS YOURS, NOT OURS

NS-001 is whatever your protocol calls that person. It is unique within the study, and it is what appears on every recording, every export and every audit entry. Names are held for the site; the code is what travels.

Enrolling someone

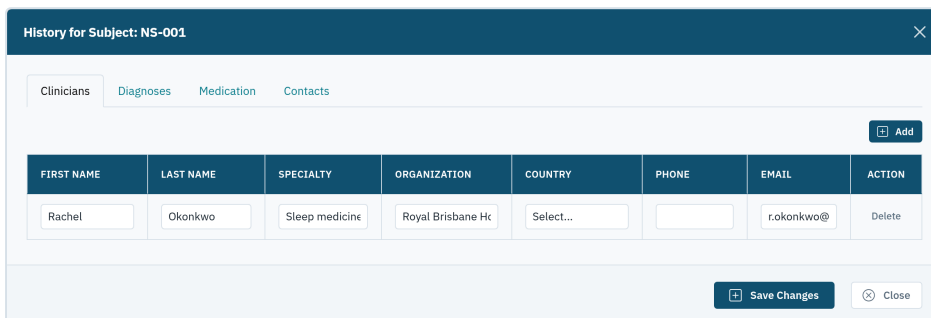


The 'Add New Subject' form is a modal window with a dark blue header and a close button. It contains a 'Core Information' section with fields for 'EXTERNAL SUBJECT CODE *' (empty), 'SUBJECT STATUS *' (dropdown with 'Screening'), 'COHORT ASSIGNMENT' (dropdown with '-- No Cohort Assigned --'), and 'SITE IDENTIFIER' (text field with 'e.g., SITE-001'). Below this is a tabbed interface with tabs for 'Demographics', 'Location & Contact', 'Background & Vitals', 'Lifestyle', and 'Study Lifecycle'. The 'Demographics' tab is active, showing fields for 'FIRST NAME' (empty), 'LAST NAME' (empty), 'DATE OF BIRTH' (text field with 'mm/dd/yyyy' and a calendar icon), 'GENDER' (dropdown with 'Select...'), 'PREGNANCY STATUS' (dropdown with 'Select...'), 'ETHNICITY' (dropdown with 'Select...'), 'RACE' (dropdown with 'Select...'), and 'HANDEDNESS' (dropdown with 'Select...'). At the bottom right are 'Save Subject' and 'Close' buttons.

Figure 16 — What the study records about a subject.

The form is grouped into demographics, location, background, lifestyle and study lifecycle, because that is roughly the order a site collects it in. Only the external code and the arm are needed to create the record; the rest can follow.

Clinical history



The 'History for Subject: NS-001' form is a modal window with a dark blue header and a close button. It features a tabbed interface with tabs for 'Clinicians', 'Diagnoses', 'Medication', and 'Contacts'. The 'Clinicians' tab is active, showing a table with columns: 'FIRST NAME', 'LAST NAME', 'SPECIALTY', 'ORGANIZATION', 'COUNTRY', 'PHONE', 'EMAIL', and 'ACTION'. The table contains one row: Rachel Okonkwo, Sleep medicine, Royal Brisbane Hc, Select..., empty, r.okonkwo@, Delete. At the bottom right are 'Save Changes' and 'Close' buttons.

FIRST NAME	LAST NAME	SPECIALTY	ORGANIZATION	COUNTRY	PHONE	EMAIL	ACTION
Rachel	Okonkwo	Sleep medicine	Royal Brisbane Hc	Select...		r.okonkwo@	Delete

Figure 17 — Clinicians, diagnoses, medications and contacts.

Four tabs, each a table you edit in place.

FIRST NAME	LAST NAME	SPECIALTY	ORGANIZATION	COUNTRY	PHONE	EMAIL	ACTION
Rachel	Okonkwo	Sleep medicine	Royal Brisbane Hc	Select...		r.okonkwo@	Delete
				Select...			Delete

Figure 18 — A row you fill in place, rather than a form on another page.

Add appends an empty row and you type into it. Nothing is written until **Save Changes**, which writes all four tables at once.

NAME	DOSE	INDICATION	START	END	CURRENT	ACTION
Melatonin	2 mg nightly	Sleep onset	01/08/2026	mm/dd/yyyy	☐	Delete

Figure 19 — Concomitant medication, which the frequency analysis counts.

Medication is not just a note: the **Concomitant Medication Frequency** analysis counts these rows across the study, so a drug typed three different ways counts as three drugs.

Consent

Manage Consent for: NS-001

Existing Consent Records

VERSION	TYPE	SIGNED AT	WITHDRAWN AT	ACTIONS
v3	Data Sharing	2026-03-01		Edit Delete
v3	General	2026-03-01		Edit Delete
v3	Wearable Use	2026-03-01		Edit Delete
v3	Genetic	2026-03-01		Edit Delete

Add New Consent

VERSION

TYPE

-- Select a Type --

SIGNED AT

mm/dd/yyyy

WITHDRAWN AT

mm/dd/yyyy

SIGNATURE FILE REFERENCE

e.g., signature_scan_001.pdf

Add

Close

Figure 20 — Which version, signed when, withdrawn when.

Consent is versioned. Each row is a consent type and version with the date it was signed, and — if it happened — the date it was withdrawn. A withdrawal does not delete anything; it records that the permission ended, which is what an auditor will ask to see.

Documents

Documents for Subject: NS-001

Attached Documents

FILENAME	DESCRIPTION	UPLOADED	ACTIONS
NS-001_signed_consent_v3.pdf	Signed participant information and consent form	2026-04-06 10:00	Download Delete

Upload New Document

DESCRIPTION *

FILE *

Choose File

No file chosen

Upload Document

Close

Figure 21 — Documents held against one subject.

Signed consent forms, correspondence, source documents. These are stored against the subject rather than the study, and they follow the same access rules as everything else about that person.

Releasing a subject

A subject can ask to be forgotten. **Release** does that, in the only way a trial can honour it:

- first name, last name, date of birth, city, state, postcode and site identifier are cleared on the subject record;
- their contacts and clinicians are deleted outright;
- every historical audit value naming them is overwritten with a marker saying the values were removed at their request;
- the clinical record — arm, visits, recordings, adverse events — is kept.

RELEASE CANNOT BE UNDONE, AND IT IS NOT DELETION

The trial keeps the data it was consented to keep; what goes is everything that ties it to a name. The action is recorded in the audit log with who did it and how many historical values were scrubbed.

Recordings

What a recording is

The screenshot shows the STUDYPRO interface for the 'CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition' study. The 'Recordings' tab is active, showing a table of observations for subject NS-014 - Felix Adeyemi. The table has columns for Subject, Recording Type, Date & Time, and Details. The details column lists various biomarkers and their values.

SUBJECT	RECORDING TYPE	DATE & TIME	DETAILS
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	RMSSD: 60.50000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	Glucose: 5.90000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	WASO: 70.00000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	IL-6: 2.63000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	sleep_efficiency: 87.30000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	Patient Health Questionnaire-9 (PHQ-9) - Total Score: 6.00000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	CRP: 2.88000
NS-014 - Felix Adeyemi	Biomarker	2026-10-28 15:15:00	Triglycerides: 2.88000

Figure 22 — Every observation the study holds.

A recording is one observation of one subject at one moment. That covers more than signals: a blood result, a questionnaire score, a symptom, an adverse event and a medication are all recordings, which is why one table can carry the whole study.

The tabs across the top filter by kind — Biomarkers, Scales, EEG, Wearables, Symptoms, Adverse Events, Medication — and **CSV** and **Excel** export whatever the table is currently showing.

STUDYPRO

Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Recordings

Recordings

For study: **CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition** Ongoing

Dashboard Analytics Finances Subjects **Recordings** Documents Arms Participants Settings

Export Analysis Packet Export Template Import Template Calendar View **New Recording**

All Biomarkers Scales **EEG** Wearables Symptoms Adverse Events Medication

CSV Excel

Search all fields:

↑ SUBJECT	↑ RECORDING TYPE	↑ DATE & TIME	↓ DETAILS
▶ NS-012 - Henry Ellery	EEG	2026-10-06 09:00:00	File Recording
▶ NS-008 - Lucas Lindqvist	EEG	2026-05-14 09:30:00	File Recording
▶ NS-008 - Lucas Lindqvist	EEG	2026-04-22 09:30:00	File Recording
▶ NS-004 - Liam Okafor	EEG	2026-04-21 09:00:00	File Recording

Showing 1 to 4 of 4 recordings (filtered from 1,122 total recordings)

Previous **1** Next

Clinical Trial Management About Contact Best Practice Guide

Figure 23 — Filtered to one kind of recording.

FILTER FIRST ON A LARGE STUDY

The table is paginated and only the rows on screen exist in the page. With a thousand recordings, filtering to the kind you want is faster than searching, and it is the only way to be sure the export contains what you think it does.

STUDYPRO

Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Recordings

Recordings

For study: **CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition** Ongoing

Dashboard Analytics Finances Subjects **Recordings** Documents Arms Participants Settings

Export Analysis Packet Export Template Import Template Calendar View **New Recording**

All Biomarkers Scales **EEG** Wearables Symptoms Adverse Events Medication

CSV Excel

Search all fields:

↑ SUBJECT	↑ RECORDING TYPE	↑ DATE & TIME	↓ DETAILS
▼ NS-012 - Henry Ellery	EEG	2026-10-06 09:00:00	File Recording
Actions Visualize Download Delete			
▶ NS-008 - Lucas Lindqvist	EEG	2026-05-14 09:30:00	File Recording
▶ NS-008 - Lucas Lindqvist	EEG	2026-04-22 09:30:00	File Recording
▶ NS-004 - Liam Okafor	EEG	2026-04-21 09:00:00	File Recording

Showing 1 to 4 of 4 recordings (filtered from 1,122 total recordings)

Previous **1** Next

Figure 24 — A row opened for its actions.

At this width the Actions column is folded away. Click the arrow at the left of a row to open it, and the actions — including **Visualize** for a signal recording — appear underneath.

The calendar

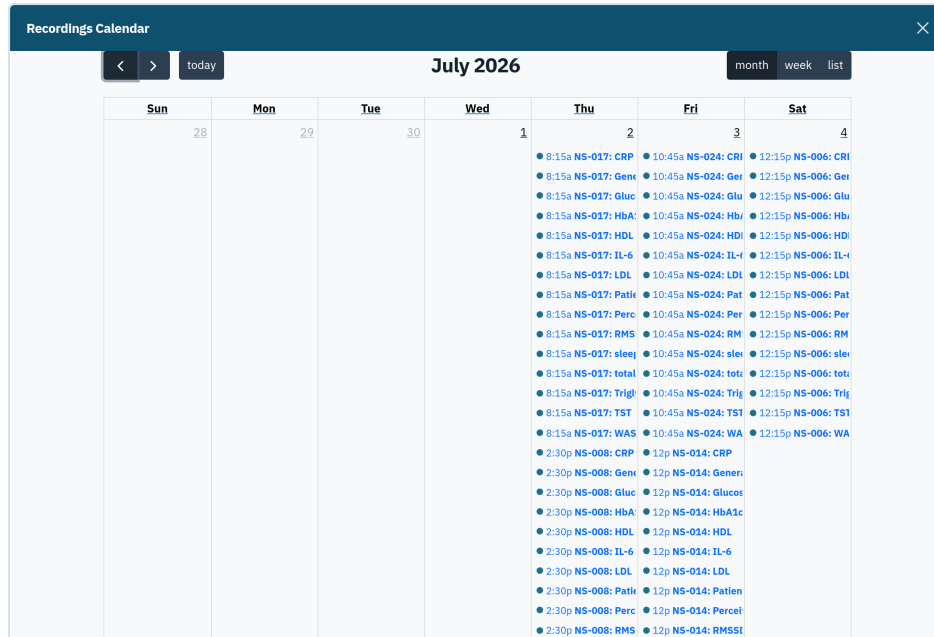


Figure 25 — When collection actually happened.

The same recordings, by date. It opens on the current week; switch to month view and step back to the period you care about. A visit window with nothing in it is much easier to see here than in a table.

The image shows a 'Recordings for 2026-07-02' window. The window has a 'CSV' and 'Excel' button at the top left. A 'Filter:' input field is located at the top right. The table below shows the recordings for Tuesday, July 2nd, 2026.

SUBJECT	RECORDING TYPE	TIME	DETAILS	ACTIONS
NS-017 Nina Marchetti	Biomarker	08:15:00	Glucose: 6.40000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	WASO: 43.00000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	sleep_efficiency: 82.90000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	Patient Health Questionnaire-9 (PHQ-9) - Total Score: 10.00000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	Perceived Stress Scale (PSS) - Total Score: 25.00000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	HDL: 1.45000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	TST: 407.00000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	Generalized Anxiety Disorder-7 (GAD-7) - Total Score: 3.00000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	LDL: 2.20000	Visualize Download
NS-017 Nina Marchetti	Biomarker	08:15:00	IL-6: 0.47000	Visualize Download

At the bottom of the table, there are navigation buttons: 'Previous', '1', '2', '3', and 'Next'. The '1' button is currently selected. A 'Close' button is located at the bottom right of the window.

Figure 26 — One day, and everything collected on it.

Clicking a day lists what was collected on it.

Adding one by hand

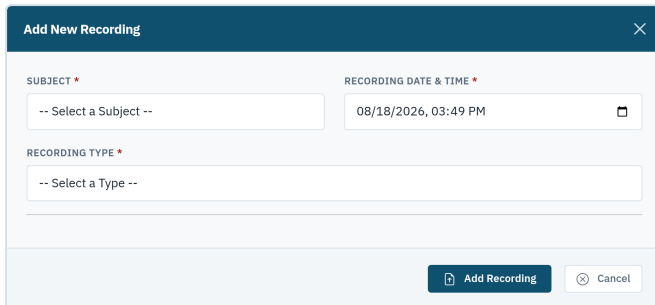
A modal dialog box titled "Add New Recording" with a close button (X) in the top right corner. It contains three input fields: "SUBJECT" with a dropdown menu showing "-- Select a Subject --", "RECORDING DATE & TIME" with a date/time picker showing "08/18/2026, 03:49 PM" and a calendar icon, and "RECORDING TYPE" with a dropdown menu showing "-- Select a Type --". At the bottom right, there are two buttons: "Add Recording" (with a plus icon) and "Cancel" (with an X icon).

Figure 27 — Adding a recording.

Choose the subject, the kind of recording, the moment it was taken, and then whatever that kind needs — a biomarker and a value, or a file for a signal.

The spreadsheet route

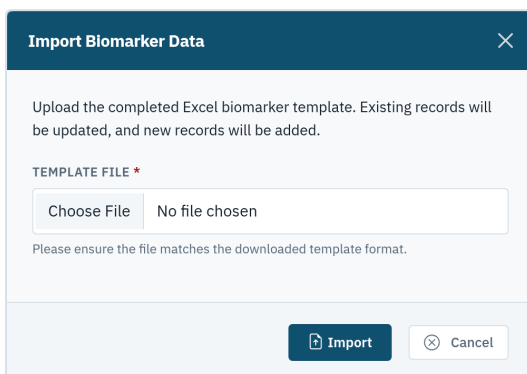
A modal dialog box titled "Import Biomarker Data" with a close button (X) in the top right corner. It contains a text instruction: "Upload the completed Excel biomarker template. Existing records will be updated, and new records will be added." Below this is a section labeled "TEMPLATE FILE" with a "Choose File" button and a text field showing "No file chosen". A note below the text field says: "Please ensure the file matches the downloaded template format." At the bottom right, there are two buttons: "Import" (with a plus icon) and "Cancel" (with an X icon).

Figure 28 — The spreadsheet route in.

Export Template writes a spreadsheet shaped for this study — its subjects, its allowed biomarkers — and **Import Template** reads it back. This is the sane way to enter a visit's worth of results, and it validates every row before writing anything.

Taking data out

Export Multi-modal Analysis Packet

Select subjects and date range to package & export recordings, organized by subject and date.

SUBJECTS *

- NS-001 (Amelia Whitlock)
- NS-002 (Noah Nguyen)
- NS-003 (Isla Karlsen)
- NS-004 (Liam Okafor)
- NS-005 (Mia Bianchi)
- NS-006 (Ethan Fraser)
- NS-007 (Chloe Haddad)
- NS-008 (Lucas Lindqvist)
- NS-009 (Puhu Merson)

START DATE: mm/dd/yyyy

END DATE: mm/dd/yyyy

Download Analysis Packet Close

Figure 29 — Exporting an analysis packet.

The analysis packet is the export for someone doing statistics elsewhere: choose the subjects and a date range, and it builds a zip of tables plus the raw signal files.

RAW FILES COME FROM CLOUD STORAGE

Signals live in blob storage. If storage is not configured the packet is still written, with the tables in it and a warning that the raw files were skipped — it does not fail silently, but it also does not stop.

Signals

Signal recordings are not summarised into a number. STUDYPRO stores the file the instrument wrote and renders it on demand.

EEG

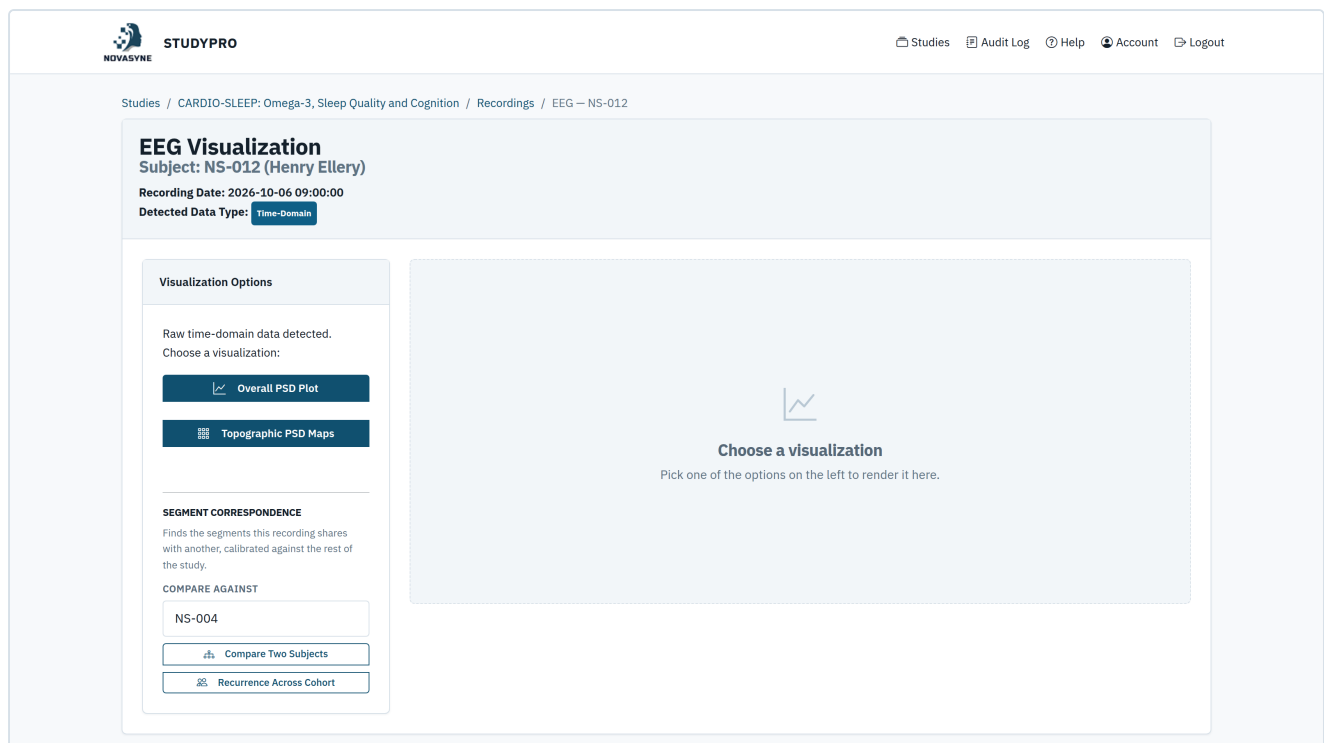


Figure 30 — A clinical EEG, read straight from the file.

The viewer reads the EDF and reports what it found — the subject, the recording date, and whether the data is time-domain or already reduced.

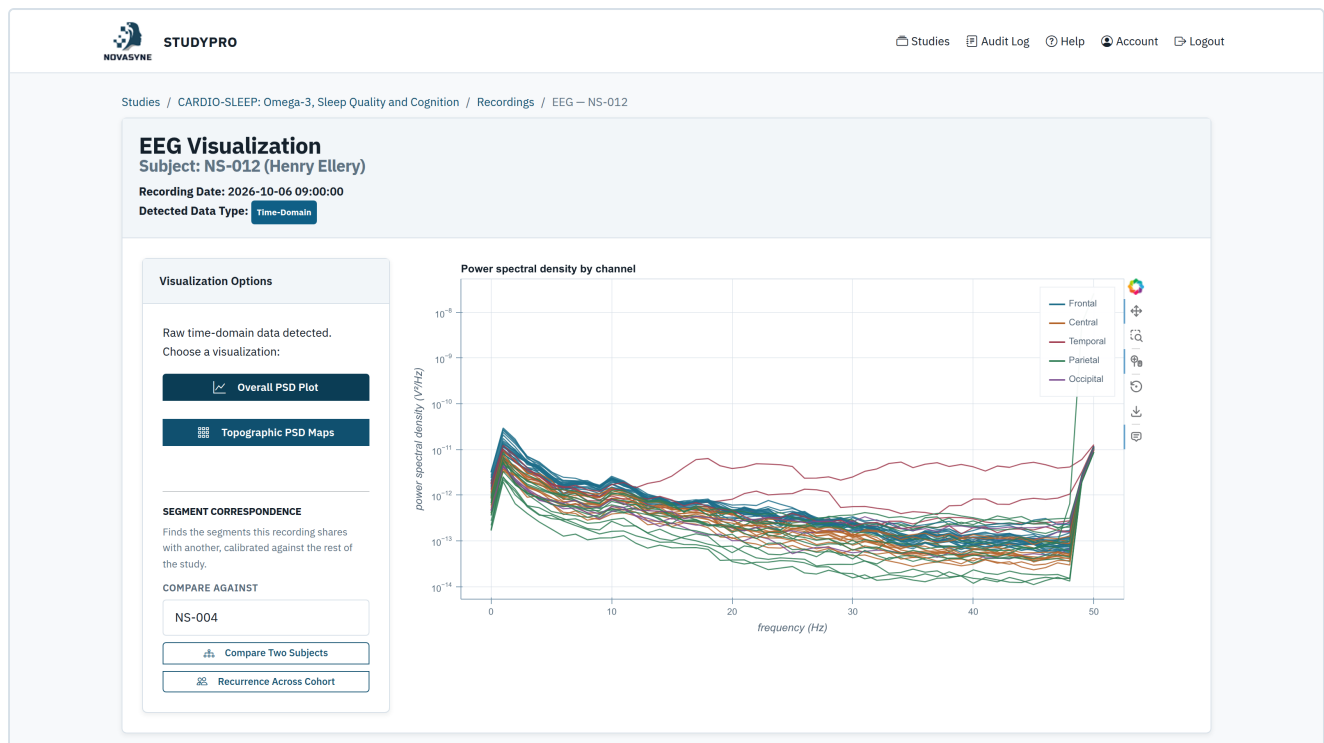


Figure 31 — Power spectrum across the montage.

Overall PSD is the spectrum per channel across the whole recording.

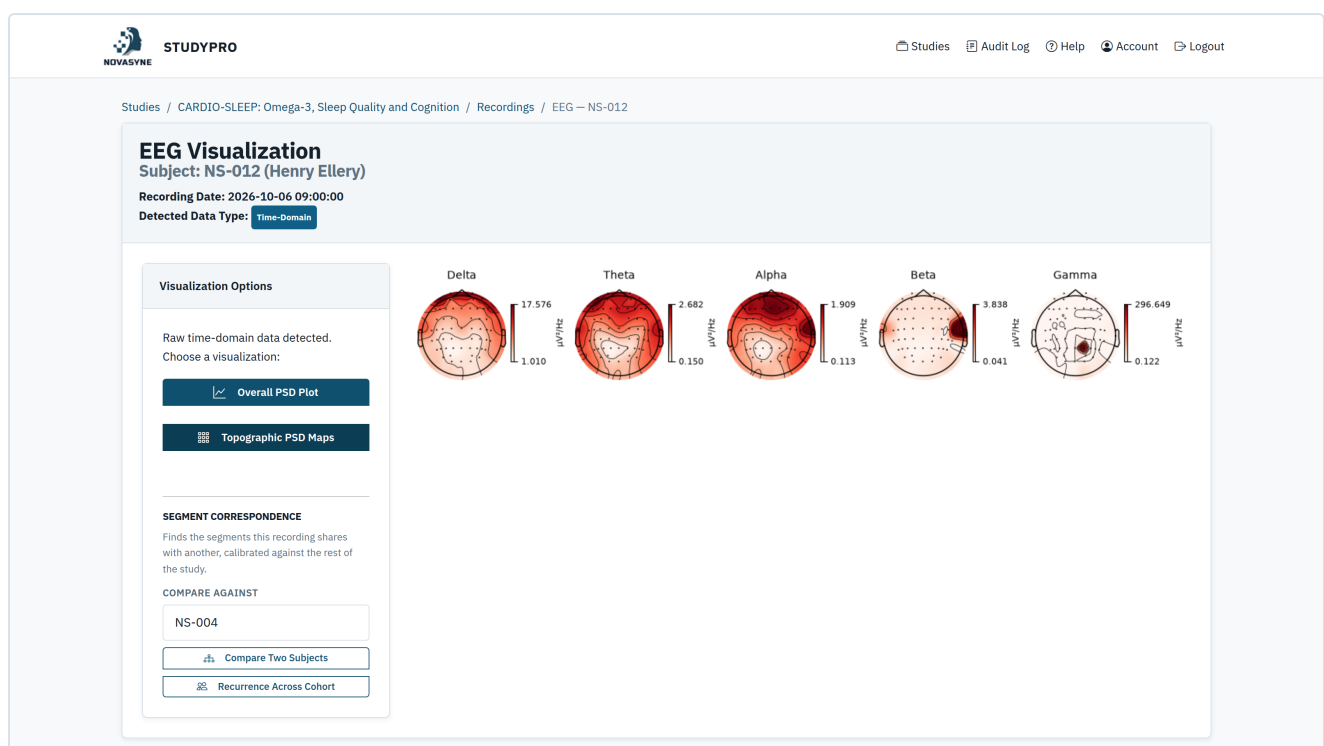


Figure 32 — Voltage across the scalp.

Topographic PSD Maps put band power where the electrodes were.

Segment correspondence is the pair of buttons below: compare this recording against one other subject, or against the rest of the cohort at once. That is the question a trial asks that a single recording cannot answer.

Wearables

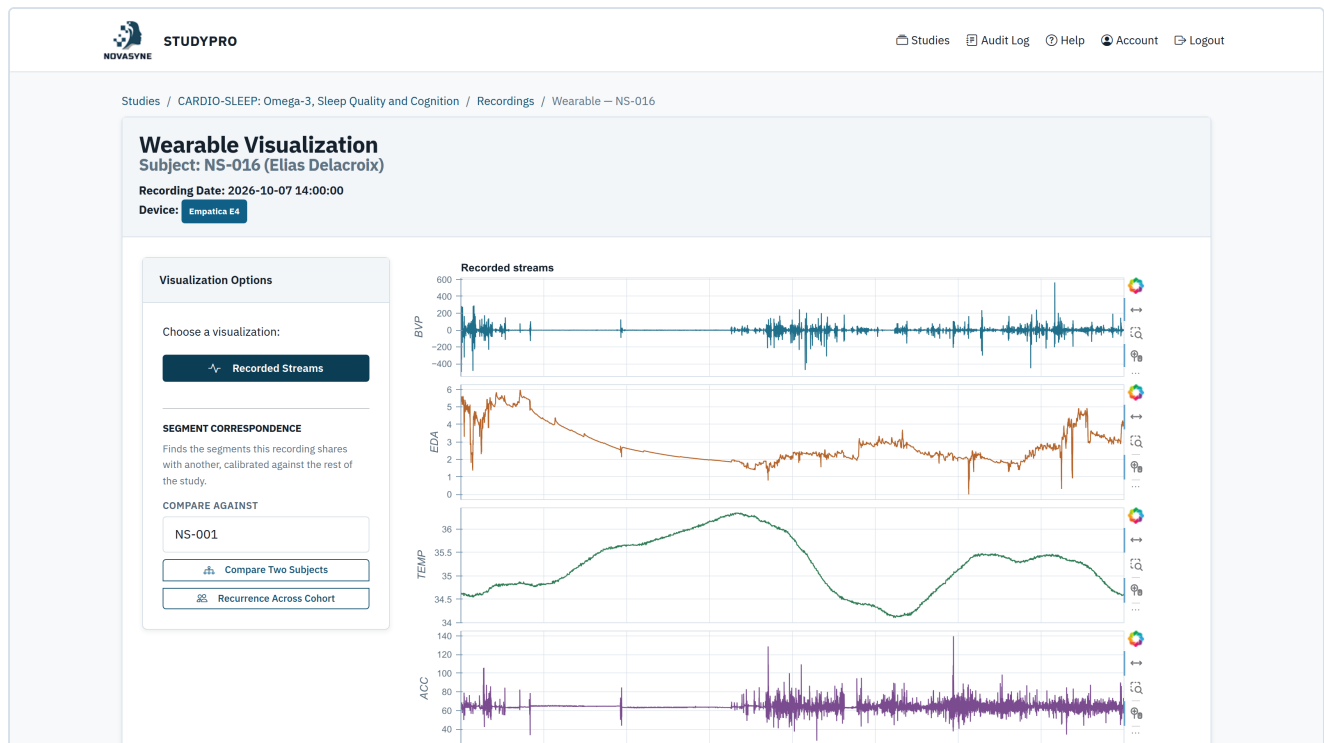


Figure 33 — Every stream on one clock.

A wrist recorder session with its streams stacked on a shared time axis — pulse, electrodermal activity, temperature, motion and heart rate.

THE WEARABLE VIEWER NEEDS A TIME COLUMN

It reads a flat CSV whose first column is `time` in seconds. A raw device export — an Empatica E4 zip, for instance — has a start timestamp and a sample rate per signal instead, and is refused with that reason. Convert it before uploading, or use the Wearable Workbench, which reads 23 device formats natively and exports what this viewer wants.

Analysis

The bench

The screenshot displays the STUDYPRO web application interface. At the top, the NOVASYNE logo and 'STUDYPRO' text are on the left, while navigation links for Studies, Audit Log, Help, Account, and Logout are on the right. Below the header, a breadcrumb trail reads 'Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Analytics'. The main heading is 'Analytics', followed by 'For study: CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition' and a status button labeled 'Ongoing'. A horizontal menu contains links for Dashboard, Analytics (active), Finances, Subjects, Recordings, Documents, Arms, Participants, and Settings. The central area is a form titled 'Select an analysis type and biomarker(s) to generate plots and statistical summaries.' It has two sections: '1. ANALYSIS TYPE' with a dropdown menu showing '-- Please select an analysis --', and '2. BIOMARKER(S)' with a list of biomarkers: CRP (Blood), Generalized Anxiety Disorder-7 (GAD-7) - Total Score (Scale), Glucose (Blood), HbA1c (Blood), HDL (Blood), and TILC (Blood). Below the biomarker list is the text 'Please select an analysis type first.' and a disabled 'Run Analysis' button.

Figure 34 — The analysis bench, before a question is asked.

Choose an analysis, then what it runs on. The Run button stays disabled until the combination is one the analysis can actually perform, and the line beneath the biomarker list says what is missing.

The catalogue is in two groups. **Biomarker analyses** work on numeric series: cohort comparison, one subject over time, distribution, correlation, and a comprehensive correlation across everything. **Categorical analyses** count things: demographics, event and symptom frequency, concomitant medication frequency, and a cohort distribution report.

Comparing the arms

STUDYPRO

Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Analytics

Studies

Audit Log

Help

Account

Logout

Analytics

For study: CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition

Ongoing

Dashboard

Analytics

Finances

Subjects

Recordings

Documents

Arms

Participants

Settings

Select an analysis type and biomarker(s) to generate plots and statistical summaries.

1. ANALYSIS TYPE

Cohort Comparison

2. BIOMARKER(S)

CRP (Blood)

Generalized Anxiety Disorder-7 (GAD-7) - Total Score (Scale)

Glucose (Blood)

HbA1c (Blood)

HDL (Blood)

Triglycerides (Blood)

This analysis requires exactly one biomarker.

3. Analysis Options

SELECT COHORTS

Active

Placebo

Select cohorts to compare.

- T-Test / Mann-Whitney U requires exactly 2 cohorts.

- ANOVA / Kruskal-Wallis requires 2 or more cohorts.

Use Mann-Whitney U or Kruskal-Wallis if data may not be normally distributed.

Figure 35 — Two arms, one biomarker, one test.

The question the trial exists to answer. Pick the biomarker, pick both cohorts, and pick how to show it — a box plot, or a named statistical test.

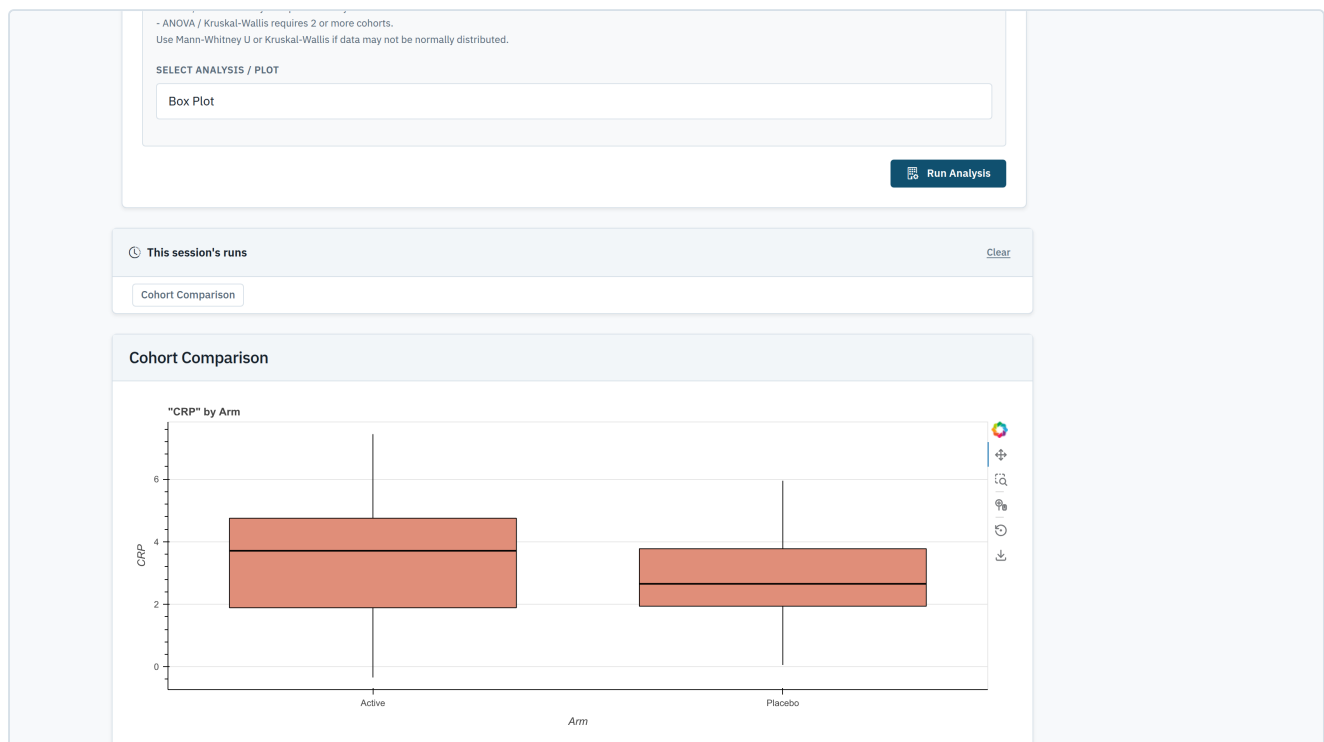


Figure 36 — Active against Placebo.

Every run is kept in **this session's runs** above the result, so you can flip between two analyses without running either again.

THE TEST IS YOUR CHOICE, AND THE PAGE TELLS YOU WHAT IT ASSUMES

ANOVA and Kruskal-Wallis need two or more cohorts; Mann-Whitney U and Kruskal-Wallis are the ones to reach for when the data is not normally distributed. The help text beside the selector says so, and it says it before you run rather than after.

Correlation

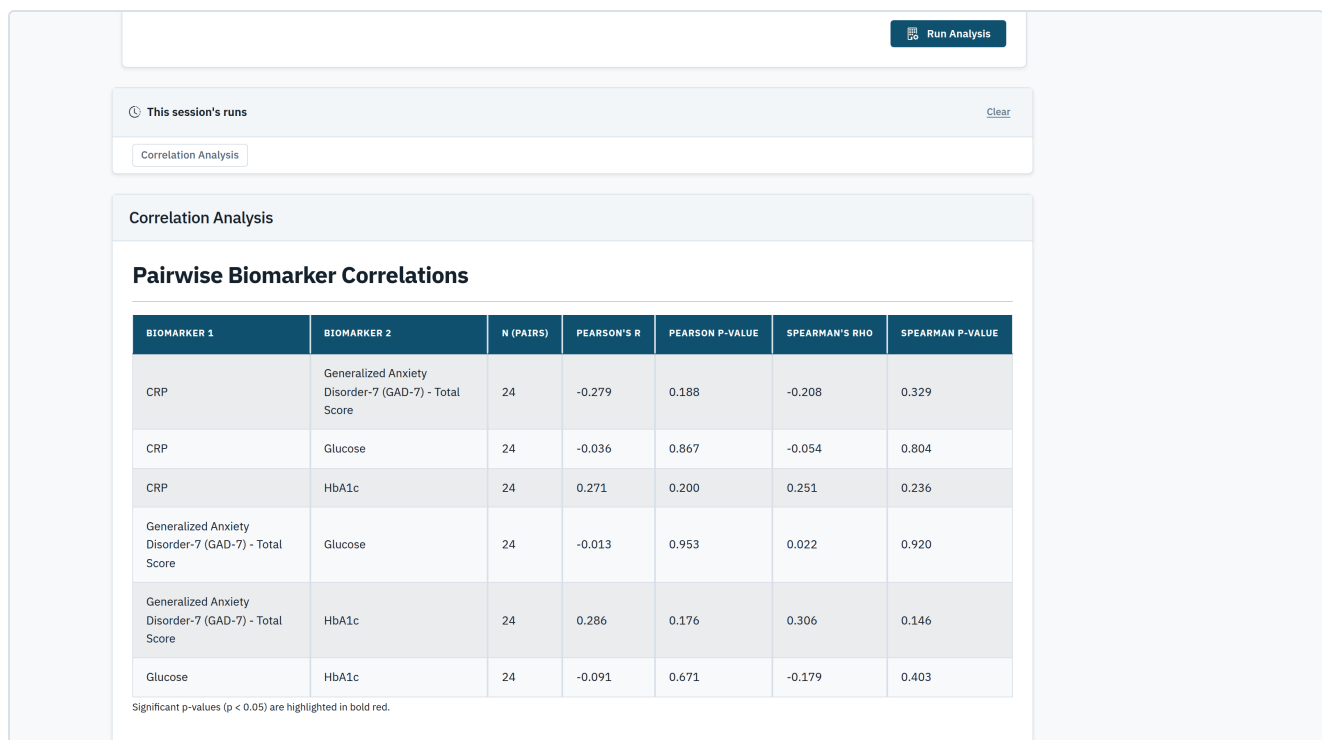


Figure 37 — Four biomarkers against each other.

Correlation needs two or more biomarkers, and reports Pearson and Spearman side by side with the number of pairs each was computed from. Where a pair has too few complete observations it says so rather than printing a coefficient.

Who is in the study

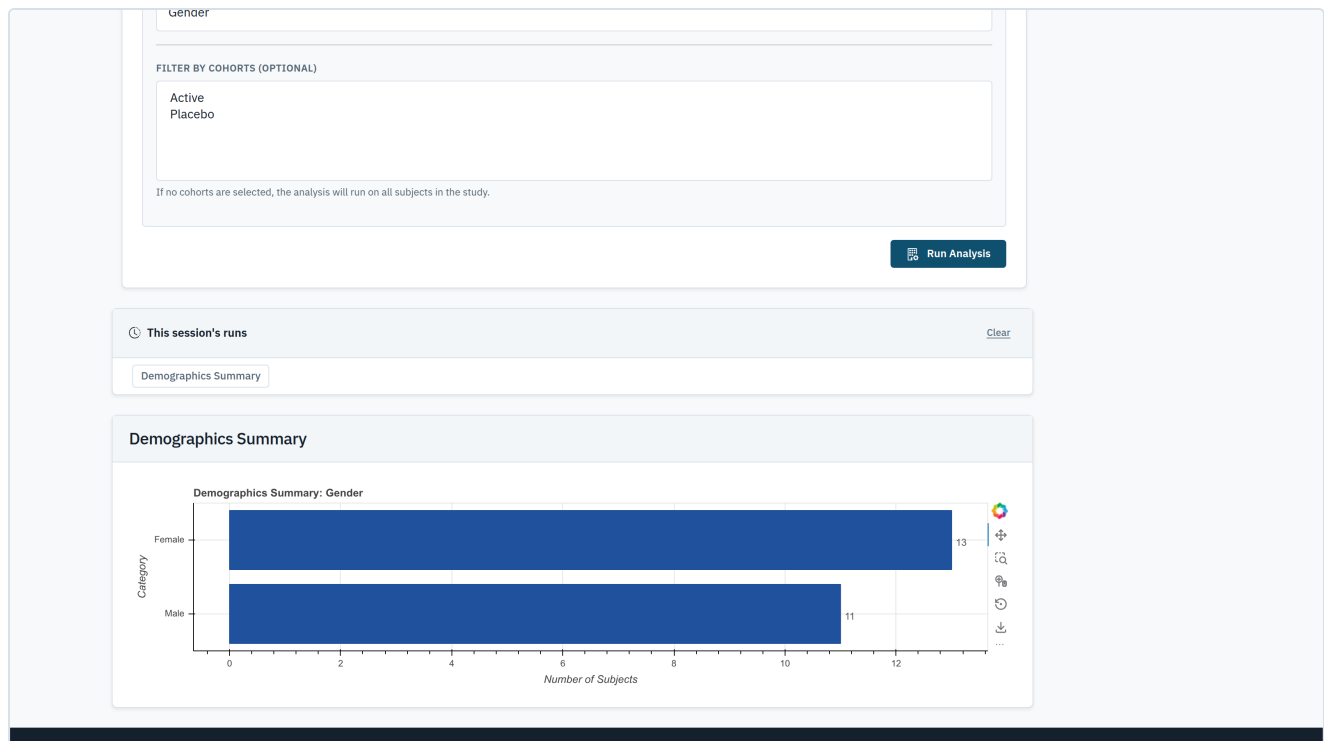


Figure 38 — Demographics, by arm.

Demographics summarise one field — gender, ethnicity, race, handedness, smoking status or alcohol intake — across the study.

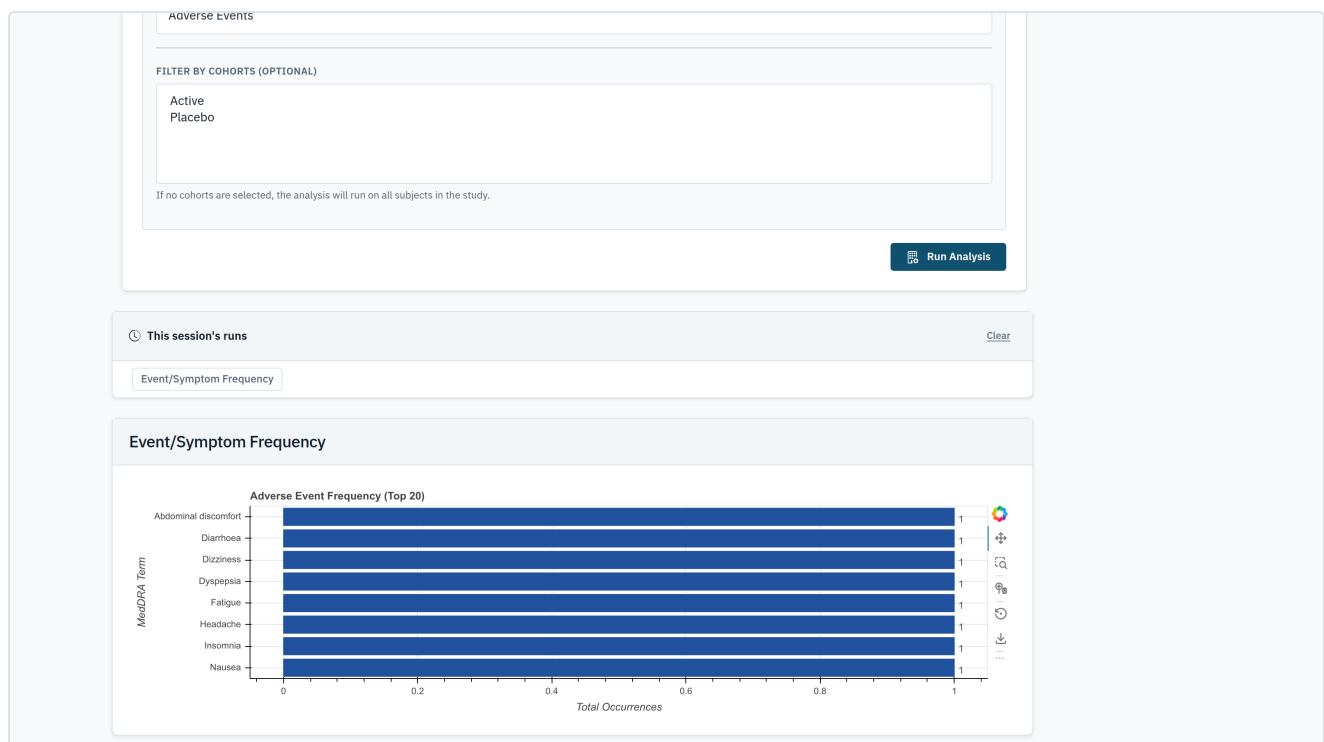
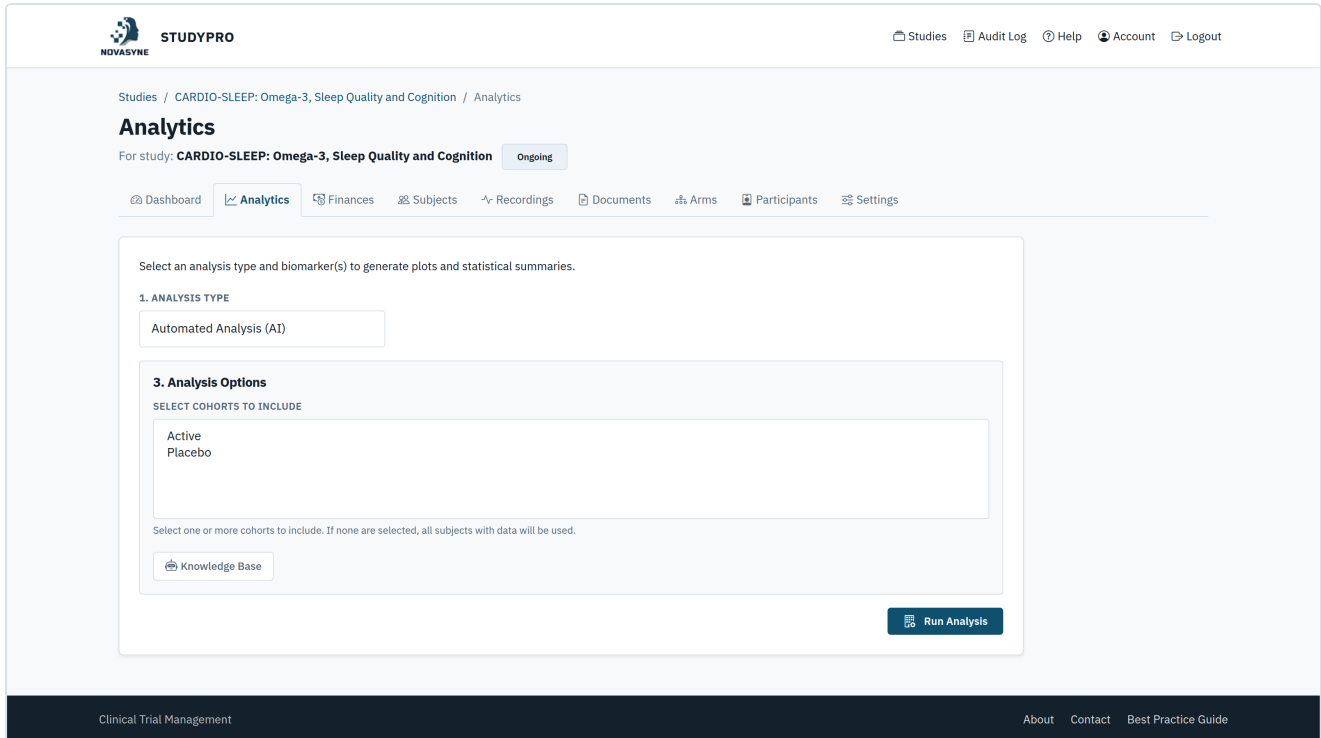


Figure 39 — Adverse events, counted by MedDRA term.

Event frequency counts adverse events or symptoms. Both are coded against MedDRA when they are entered, which is what makes counting them meaningful.

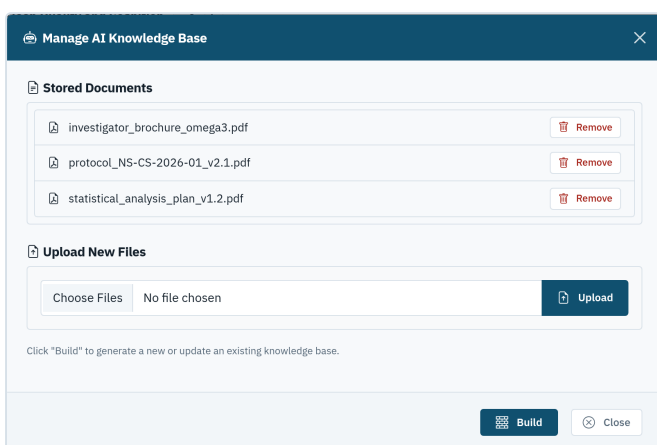
The AI analyses



The screenshot shows the STUDYPRO Analytics interface. At the top, there's a navigation bar with links for Studies, Audit Log, Help, Account, and Logout. Below this, the breadcrumb trail reads: Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Analytics. The main heading is "Analytics" for the study "CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition" (Ongoing). A secondary navigation bar includes Dashboard, Analytics (selected), Finances, Subjects, Recordings, Documents, Arms, Participants, and Settings. The main content area prompts the user to "Select an analysis type and biomarker(s) to generate plots and statistical summaries." It features a section for "1. ANALYSIS TYPE" with a dropdown menu currently set to "Automated Analysis (AI)". Below this is a section for "3. Analysis Options" with a sub-header "SELECT COHORTS TO INCLUDE". A list box contains "Active" and "Placebo". A note states: "Select one or more cohorts to include. If none are selected, all subjects with data will be used." There is a "Knowledge Base" button and a "Run Analysis" button at the bottom right of the form.

Figure 40 — What the AI analysis offers to do.

Automated Analysis reads the study's own data and the library you give it, and writes an interpretation.



The screenshot shows the "Manage AI Knowledge Base" dialog box. It has a title bar with a close button. The main content is divided into two sections: "Stored Documents" and "Upload New Files". The "Stored Documents" section lists three files: "investigator_brochure_omega3.pdf", "protocol_NS-CS-2026-01_v2.1.pdf", and "statistical_analysis_plan_v1.2.pdf", each with a "Remove" button. The "Upload New Files" section has a "Choose Files" button, a text field showing "No file chosen", and an "Upload" button. At the bottom, there is a "Build" button and a "Close" button. A small note at the bottom left says: "Click 'Build' to generate a new or update an existing knowledge base."

Figure 41 — The study library the assistant reads.

The **Knowledge Base** is that library: protocol, analysis plan, prior publications. Uploading files needs no key. **Building vectors** — the step that makes them searchable — and the analysis itself both call the provider.

WHAT THE AI FEATURES NEED, AND WHAT THEY SEND

An OpenAI key on the study, with credit. The study's summary data and the text of the knowledge files are what get sent. If your governance does not permit that, leave the key unset: the option disappears and every other analysis in this guide still works.

Money

Budget and spend

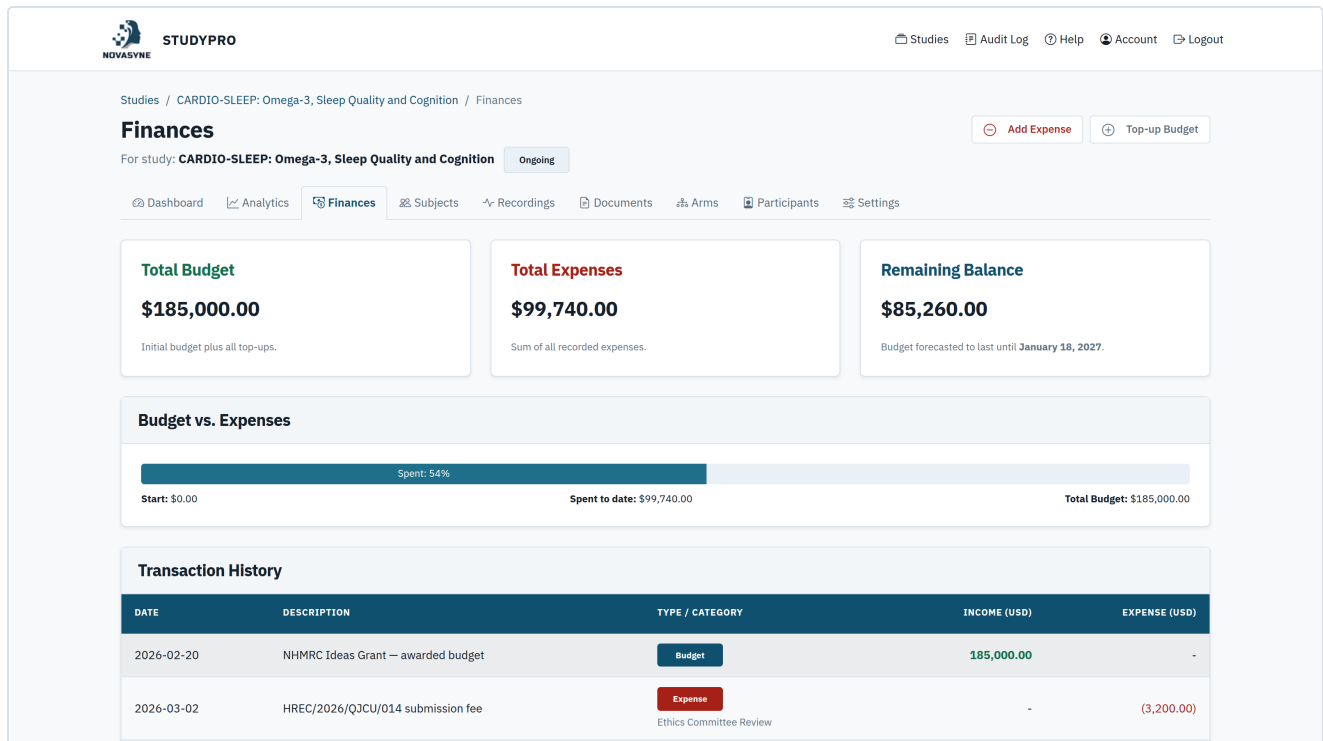


Figure 42 — Budget, spend and what is left.

Three figures at the top — total budget including every top-up, total spend, and the balance, with a forecast of how long it lasts at the current rate.

Transaction History				
DATE	DESCRIPTION	TYPE / CATEGORY	INCOME (USD)	EXPENSE (USD)
2026-02-20	NHMRC Ideas Grant — awarded budget	Budget	185,000.00	-
2026-03-02	HREC/2026/QJCU/014 submission fee	Expense Ethics Committee Review	-	(3,200.00)
2026-03-11	Radio and online recruitment campaign	Expense Subject Recruitment	-	(8,750.00)
2026-03-24	Phlebotomy consumables, 3 sites	Expense Consumables & Supplies	-	(2,410.00)
2026-04-02	CRP and IL-6 ELISA kits, batch 1	Expense Lab Supplies	-	(11,800.00)
2026-04-08	Wrist recorder fleet, 12 units	Expense Equipment	-	(21,600.00)
2026-04-30	Study coordinator, April	Expense Staff Salaries	-	(7,450.00)
2026-05-06	Baseline visit travel, 24 participants	Expense Participant Reimbursement	-	(1,800.00)
2026-05-14	Blinding, packaging and randomisation	Expense Pharmacy Services	-	(6,300.00)
2026-05-20	REDCap hosting and export licence	Expense Data Management	-	(2,950.00)

Figure 43 — Every transaction, categorised.

Below them the ledger: income and expense, one row each, with the category the expense was booked to.

Recording an expense

Add New Expense

DATE

08/18/2026

CATEGORY

Select a category...

DESCRIPTION

AMOUNT

USD e.g., 250.00

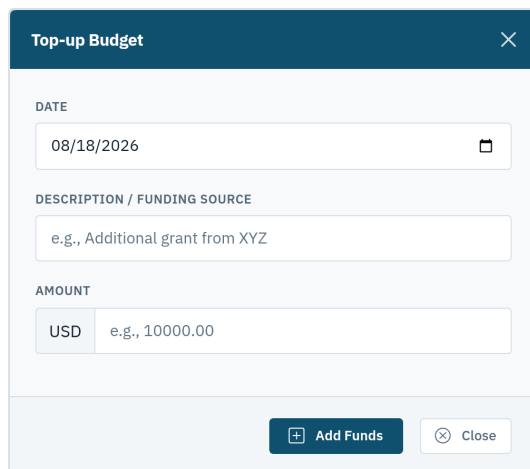
+ Save Expense

⌕ Close

Figure 44 — Recording an expense.

Date, description, category and amount. Categories are shared across studies so that the same kind of cost is comparable between them.

Topping up



The screenshot shows a modal window titled "Top-up Budget" with a close button (X) in the top right corner. The form contains three sections: "DATE" with a text input field showing "08/18/2026" and a calendar icon; "DESCRIPTION / FUNDING SOURCE" with a text input field containing the placeholder "e.g., Additional grant from XYZ"; and "AMOUNT" with a currency dropdown set to "USD" and a text input field containing the placeholder "e.g., 10000.00". At the bottom of the modal are two buttons: "Add Funds" with a plus icon and "Close" with an X icon.

Figure 45 — Adding money to the budget.

A top-up is income, not an edit to the original number: the budget figure on the dashboard is the initial budget plus every top-up, and the history shows where each came from.

The study binder

STUDYPRO

NOVASYN

Studies

Audit Log

Help

Account

Logout

Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Documents

Documents

For study: **CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition** Ongoing

Dashboard

Analytics

Finances

Subjects

Recordings

Documents

Arms

Participants

Settings

Attached Documents

4 files

Show 10 documents per page

Search documents:

FILENAME	DESCRIPTION	UPLOADED	ACTIONS
participant_information_and_consent_v3.pdf	Participant information and consent form, version 3	2026-04-03 09:15	Download Delete
statistical_analysis_plan_v1.2.pdf	Statistical analysis plan, finalised before database lock	2026-04-03 09:15	Download Delete
protocol_NS-CS-2026-01_v2.1.pdf	Clinical study protocol, version 2.1, approved 28 March 2026	2026-04-03 09:15	Download Delete
ethics_approval_HREC-2026-014.pdf	HREC approval letter, valid to 28 March 2029	2026-04-03 09:15	Download Delete

Showing 1 to 4 of 4 documents

Previous

1

Next

Upload a Document

FILE

Choose File

No file chosen

DESCRIPTION

e.g., Approved protocol v2.1

Upload Document

Clinical Trial Management

About

Contact

Best Practice Guide

Figure 46 — The study binder.

Protocol, consent form, statistical analysis plan, ethics approval. Each upload carries a description, and the pack can be downloaded whole from Settings.

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Arms and participants

Arms

The screenshot displays the 'Arms' management page in the STUDYPRO application. The page header includes the NOVASYNE logo and the text 'STUDYPRO'. The top navigation bar contains links for Studies, Audit Log, Help, Account, and Logout. The breadcrumb trail indicates the current location: Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Arms. The main heading is 'Arms', and the sub-heading indicates the study: 'For study: CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition' with a status of 'Ongoing'. The navigation tabs include Dashboard, Analytics, Finances, Subjects, Recordings, Documents, Arms (selected), Participants, and Settings. The main content area features a table with the following data:

ARM NAME	DESCRIPTION	ACTION
Placebo	Imported from REDCap.	Remove
Active	Imported from REDCap.	Remove

Below the table, there is an 'Add Arm' button and a 'Save Changes' button. The footer of the page contains the text 'Clinical Trial Management' and links for About, Contact, and Best Practice Guide.

Figure 47 — The arms subjects are allocated to.

An arm is a cohort — Active and Placebo here. Every subject belongs to one, and every cohort comparison in the Analytics tab is a comparison between them.

Who can see the study

The screenshot shows the 'Participants' page in the STUDYPRO interface. The top navigation bar includes links for Studies, Audit Log, Help, Account, and Logout. The breadcrumb trail indicates the current location: Studies / CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition / Participants. The page title is 'Participants', and it specifies the study: 'CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition' with a status of 'Ongoing'. A secondary navigation bar contains links for Dashboard, Analytics, Finances, Subjects, Recordings, Documents, Arms, Participants (active), and Settings. The main content area features a table of participants. The table has columns for FIRST NAME, LAST NAME, EMAIL, PHONE, ROLE, ADMIN, and ACTIONS. A single participant is listed: Demo User, email demo@novasynce.com, role Co-Investigator, with an ADMIN status icon and Edit/Remove actions. Below the table are pagination controls (Previous, 1, Next) and a status message 'Showing 1 to 1 of 1 participants'. There are buttons for 'Add Participant' and 'Save'. The footer contains 'Clinical Trial Management' and links for About, Contact, and Best Practice Guide.

Figure 48 — Who works on the study.

Participants are the people, with the role each plays. This is the list that grants access: a person is on the study because their email address is here.

The 'Add New Participant' form is a modal window with a close button (X) in the top right corner. It contains the following fields and sections:

- FIRST NAME *** and **LAST NAME *** (text input fields)
- EMAIL *** and **PHONE** (text input fields)
- ROLE *** (dropdown menu with 'Select a role...' as the placeholder)
- AFFILIATION** and **DEPARTMENT** (text input fields)
- ORCID** and **COUNTRY** (text input fields)
- FUNDING ROLE** (text input field)
- PERCENT EFFORT (%)** and **SALARY CONTRIBUTION (\$)** (text input fields)
- Grant Admin Rights** (checkbox) with the text: 'Allows this user to manage study settings, participants, and finances for this study.'
- At the bottom right, there are two buttons: 'Save Participant' and 'Close'.

Figure 49 — Adding a colleague.

Edit Participant ✕

FIRST NAME * LAST NAME *

Demo User

EMAIL * PHONE

demo@novasynne.com

ROLE *

Co-Investigator

AFFILIATION DEPARTMENT

ORCID COUNTRY

FUNDING ROLE

PERCENT EFFORT (%) SALARY CONTRIBUTION (\$)

☒ **Grant Admin Rights**
Allows this user to manage study settings, participants, and finances for [this study](#).

Figure 50 — The same form, filled.

The record carries more than a name — affiliation, department, ORCID, funding role, percent effort and salary contribution — because a grant report needs all of it and a spreadsheet kept beside the study will drift.

GRANT ADMIN RIGHTS IS THE WHOLE PERMISSION MODEL

With it, a participant can change study settings, participants and finances. Without it they can work in the study but not reshape it. There is no finer grain than that, and it is per study rather than global.

Settings

The screenshot shows the 'Settings' page for a study named 'CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition'. The page is part of the STUDYPRO interface, which includes a top navigation bar with links to Studies, Audit Log, Help, Account, and Logout. The main content area is titled 'Settings' and includes a sub-header 'For study: CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition' with a status indicator 'Ongoing'. Below this, there is a horizontal menu with options: Dashboard, Analytics, Finances, Subjects, Recordings, Documents, Arms, Participants, and Settings (which is currently selected). The main form contains several fields: 'STUDY NAME' (CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition), 'STUDY DESCRIPTION' (Randomised, placebo-controlled trial of omega-3 supplementation on sleep quality, cardiometabolic markers and mood. Imported from a REDCap export.), 'START DATE' (02/01/2026), 'END DATE' (06/30/2027), 'STATUS' (Ongoing), 'FUNDING SOURCE' (NHMRC Ideas Grant 2026), 'BUDGET AMOUNT' (e.g., 50000.00), and 'CURRENCY' (e.g., USD, EUR).

Figure 51 — The study record itself.

Name, description, dates, status, funding source, budget and currency.

This screenshot is identical to Figure 51, showing the 'Settings' page for the same study. The only difference is that the 'FUNDING SOURCE' field, which contains 'NHMRC Ideas Grant 2026', is highlighted with a blue border, indicating it is the field being focused on in this figure.

Figure 52 — Dates and funding, filled in.

The screenshot displays the STUDYPRO interface for managing a study. The top section contains a form with the following fields:

- START DATE:** 02/01/2026
- END DATE:** 06/30/2027
- STATUS:** Ongoing
- FUNDING SOURCE:** NHMRC Ideas Grant 2026
- BUDGET AMOUNT:** e.g., 50000.00
- CURRENCY:** e.g., USD, EUR

Below the form is an **Update** button. At the bottom of the form are two buttons: **Document Pack** and **Export Study**.

Below the form is a red card titled **Revoke This Study**. The card contains the following text:

Revoking removes this study and every subject, recording, document and financial record attached to it.

This action cannot be undone.

At the bottom of the card is a button labeled **Revoke Study**.

The footer of the interface includes the text **Clinical Trial Management** on the left and **About Contact Best Practice Guide** on the right.

Figure 53 — Document pack, export, and the danger zone.

Document Pack downloads every study document as one archive. **Export Study** writes the study itself — subjects, recordings and all — for archiving or for moving it elsewhere.

Revoke This Study is at the bottom, in its own red card, and it is what the wording says: the study and every subject, recording, document and financial record attached to it. It cannot be undone.

The audit log

DATE/TIME (UTC)	USER	CHANGE TYPE	OPERATION	STUDY	SUBJECT	CHANGED TABLE	DETAILS
2026-08-18 05:20:48	demo@novasynne.com	Study	UPDATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition		studies	View
2026-08-10 08:11:37	demo@novasynne.com	Knowledge File	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition		studies_knowledge	View
2026-08-10 08:11:37	demo@novasynne.com	Knowledge File	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition		studies_knowledge	View
2026-08-10 08:11:37	demo@novasynne.com	Knowledge File	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition		studies_knowledge	View
2026-08-10 08:11:19	demo@novasynne.com	Wearable	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	NS-016	study_recordings_wearable	View
2026-08-10 08:11:19	demo@novasynne.com	Wearable	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	NS-016	study_recordings	View
2026-08-10 08:11:19	demo@novasynne.com	Wearable	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	NS-012	study_recordings_wearable	View
2026-08-10 08:11:19	demo@novasynne.com	Wearable	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	NS-012	study_recordings	View
2026-08-10 08:11:18	demo@novasynne.com	Wearable	CREATE	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition	NS-008	study_recordings_wearable	View

Figure 54 — Every change, across every study you administer.

Who, when, what kind of thing, which study, which subject, and which table. It is filterable and searchable, and it covers every study you administer rather than one at a time.

FIELD	OLD VALUE	NEW VALUE
currency		
end_date		2027-06-30
funding_source		NHMRC Ideas Grant 2026
start_date		2026-02-01

Figure 55 — One entry, field by field.

Opening an entry shows the fields that changed, with the old value beside the new one. Where the value was a file, the content reads **[redacted]** — the log records that a file was written and what it was called, not the file itself.

THIS IS THE RECORD THAT MAKES THE REST DEFENSIBLE

Every write in this guide — enrolling a subject, editing consent, adding a recording, changing the budget — appears here. Releasing a subject appears here too, along with a count of the historical values that were scrubbed to honour it.

Your account

STUDYPRO

Studies

Audit Log

Help

Account

Logout

Account

demo@novasyn.com

Profile

Security

Close Account

Your Account Details

FIRST NAME *

Demo

LAST NAME *

User

EMAIL *

demo@novasyn.com

PHONE

ROLE *

Co-Investigator

AFFILIATION

DEPARTMENT

ORCID

COUNTRY

FUNDING ROLE

PERCENT EFFORT (%)

SALARY CONTRIBUTION (\$)

Figure 56 — The account.

Your own details and password, and the studies you belong to.

FIRST NAME *

Demo

LAST NAME *

User

EMAIL *

demo@novasyn.com

PHONE

ROLE *

Co-Investigator

AFFILIATION

DEPARTMENT

ORCID

COUNTRY

FUNDING ROLE

PERCENT EFFORT (%)

SALARY CONTRIBUTION (\$)

OPENAI API KEY

Enter API Key...

Optional. Used for AI-powered features.

Update Details

Clinical Trial Management

About

Contact

Best Practice Guide

Figure 57 — Who may see what, per study.

Closing the account is here as well. It removes you; it does not remove the studies you worked on, and any study you are the only administrator of has to be handed over first.

Starting a new study

STUDYPRO

Studies Audit Log Help Account Logout

New Study

Step 1 of 3

1 Type & modalities
What kind of study, and which kinds of data it will hold.

2 Arms
The cohorts subjects are assigned to.

3 Details & participants
Name, dates, budget, and who works on it.

STUDY TYPE *

-- Select Study Type --

☐ Enable AI Features

OPENAI API KEY

Allowed Recording Types

☐ EEG Data

☐ Wearable Data

☒ Biological Samples & Other Biomarkers

☒ Allow Patient Scales / PROs

Show 10 biomarkers per page

Search biomarkers:

	BIOMARKER NAME	SAMPLE TYPE
☐	5-HIAA	Urine
☐	8-OHdG	Urine
☐	ACTH	Blood
☐	active_minutes	Wearable

Figure 58 — Step one: what kind of study, and what it may hold.

Three steps. The first is the one that matters most.

Study type is the design — randomised controlled trial, crossover, observational cohort, diagnostic accuracy, and so on.

STUDYPRO

Studies Audit Log Help Account Logout

New Study

Step 1 of 3

1 Type & modalities
What kind of study, and which kinds of data it will hold.

2 Arms
The cohorts subjects are assigned to.

3 Details & participants
Name, dates, budget, and who works on it.

STUDY TYPE *
Experimental - Crossover Trial

Enable AI Features
OPENAI API KEY

Allowed Recording Types

- ☒ EEG Data
- ☒ Wearable Data
- ☒ Biological Samples & Other Biomarkers
- ☒ Allow Patient Scales / PROs

Show 10 biomarkers per page Search biomarkers:

☐	BIOMARKER NAME	SAMPLE TYPE
☐	5-HIAA	Urine
☐	8-OHdG	Urine
☐	ACTH	Blood
☐	active_minutes	Wearable

Figure 59 — Modalities decide what the rest of the platform offers.

Allowed recording types decide what this study can hold: EEG, wearable data, biological samples and other biomarkers, patient scales. Ticking a modality here is what makes it appear in the recordings tab, the import template and the analysis bench.

The biomarker table below is the study's own list. Only what you tick here can be recorded against a subject, which keeps a study from accumulating fields nobody agreed to collect.

Step two is the arms. Step three is the study's name, dates, budget and the people on it — the same fields the Settings and Participants tabs edit later, gathered once at the start.

MODALITIES CAN BE CHANGED AFTERWARDS

Settings has a **Recording Modalities** button for exactly that. It is easier to add one later than to explain a study that holds a kind of data its protocol never mentioned.

Importing from REDCap

A study that already exists in REDCap does not need to be typed in again.

STUDYPRO

Studies Audit Log Help Account Logout

Import from REDCap

Step 1 of 3 — upload the two CSV exports

- 1 Upload**
The data dictionary and records CSV, exported from REDCap.
- 2 Map fields**
Match REDCap fields to subjects, biomarkers and recordings.
- 3 Review & import**
Check what will be written before anything is.

DATA DICTIONARY *

Choose File No file chosen

In REDCap: **Project Setup** → **Designer** → **Download the current Data Dictionary**.

RECORDS EXPORT *

Choose File No file chosen

In REDCap: **Data Exports, Reports and Stats** → **Export Data** → **CSV / Microsoft Excel (raw data)**. Raw rather than labelled — the codes are matched against the dictionary.

Cancel Read the files

What comes across

Subjects and their demographics, contact details, study arms, and numeric results as timestamped recordings. You choose what each REDCap field becomes on the next screen.

What does not:

- Calculated fields — recompute from the data they were derived from.
- Branching logic and validation rules — REDCap builds forms, this system has a fixed clinical schema.
- Uploaded files, and longitudinal events, which collapse to recording timestamps.

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Figure 60 — The two exports REDCap gives you.

STUDYPRO reads two files, both of which REDCap exports directly:

The data dictionary — Project Setup → Designer → Download the current Data Dictionary. It is what tells STUDYPRO what each field means.

The records export — Data Exports, Reports and Stats → Export Data → CSV / Microsoft Excel (raw data). Raw rather than labelled: the codes are matched against the dictionary.

Import from REDCap
Step 1 of 3 — upload the two CSV exports

1 Upload
The data dictionary and records CSV, exported from REDCap.

2 Map fields
Match REDCap fields to subjects, biomarkers and recordings.

3 Review & import
Check what will be written before anything is.

DATA DICTIONARY *
Choose File redcap_data_dictionary.csv
In REDCap: Project Setup → Designer → Download the current Data Dictionary.

RECORDS EXPORT *
Choose File redcap_records.csv
In REDCap: Data Exports, Reports and Stats → Export Data → CSV / Microsoft Excel (raw data). Raw rather than labelled — the codes are matched against the dictionary.

Cancel Read the files

What comes across
Subjects and their demographics, contact details, study arms, and numeric results as timestamped recordings. You choose what each REDCap field becomes on the next screen.

What does not:

- Calculated fields — recompute from the data they were derived from.
- Branching logic and validation rules — REDCap builds forms, this system has a fixed clinical schema.
- Uploaded files, and longitudinal events, which collapse to recording timestamps.

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Figure 61 — Both files chosen.

Mapping

Import from REDCap
Step 2 of 3 — 39 fields across 96 exported rows

1 Upload
The data dictionary and records CSV, exported from REDCap.

2 Map fields
Match REDCap fields to subjects, biomarkers and recordings.

3 Review & import
Check what will be written before anything is.

STUDY NAME *
redcap records

DESCRIPTION
Imported from REDCap.

Fields REDCap flags as **Identifiers** are marked below and default to **Not Imported**. Turn one on only if this study is meant to hold it — imported identifiers fall under the same erasure rules as any other subject identifier here.

Field mapping

REDCAP FIELD	INSTRUMENT	TYPE	BECOMES	BIOMARKER
record_id Record ID	enrolment	text	Subject code	-- choose a biomarker --
first_name First name Identifier	enrolment	text	First Name	-- choose a biomarker --
last_name Last name Identifier	enrolment	text	Last Name	-- choose a biomarker --

Figure 62 — Every REDCap field, and what it becomes here.

The mapping screen is the heart of the import. Every field in the dictionary is listed with the instrument it came from and its type, and you say what it becomes: a subject attribute, a biomarker observation, an arm, or nothing.

Fields REDCap flags as identifiers are marked, and default to **not imported**.

first_name First name	enrolment	text	First Name	-- choose a biomarker --
last_name Last name	enrolment	text	Last Name	-- choose a biomarker --
email Email address	enrolment	text email	Email	-- choose a biomarker --
phone Mobile phone	enrolment	text phone	Phone	-- choose a biomarker --
dob Date of birth	enrolment	text date_ymd	Date Of Birth	-- choose a biomarker --
sex Sex at birth	enrolment	radio	Gender	-- choose a biomarker --
ethnicity Ethnicity	enrolment	dropdown	Ethnicity	-- choose a biomarker --
handedness Handedness	enrolment	radio	Handedness	-- choose a biomarker --
site Recruiting site	enrolment	dropdown	Site Identifier	-- choose a biomarker --
study_arm Randomised allocation	enrolment	radio	Study arm	-- choose a biomarker --
consent_date Date of consent	enrolment	text date_ymd	Consent Date	-- choose a biomarker --

Figure 63 — An observation needs a biomarker, or it is skipped.

AN OBSERVATION WITHOUT A BIOMARKER IS SKIPPED, AND THE REPORT SAYS SO

Mapping a field to *observation* is only half the decision — it also needs the biomarker its values are. Leave that unset and the field imports nothing. This is the single most common reason a first import brings in subjects and arms but no results.

What does not come across

Four things, and they are stated on the upload screen before you begin:

Calculated fields. Recompute them from the data they were derived from.

Branching logic and validation rules. REDCap builds forms; this system has a fixed clinical schema.

Uploaded files. Add them as study or subject documents.

Longitudinal events. They collapse into recording timestamps.

THE IMPORT IS READ-ONLY, ON PURPOSE

Nothing is written back to REDCap. The project of record stays the project of record, and re-importing after a change in REDCap updates what is here rather than diverging from it.

Appendix A — Control reference

Everywhere

Control	Effect
Studies	The list of studies you can reach
Audit Log	Every change across every study you administer
Help	Context help for the page you are on
Account	Your details, your studies, closing the account
Logout	Ends the session

Inside a study

Tab	Holds
Dashboard	Status, recruitment, spend, completeness
Analytics	Nine analyses plus the AI ones
Finances	Budget, expenses, top-ups, ledger
Subjects	Roster, enrolment, history, consent, documents, release
Recordings	Every observation, the calendar, the viewers, import and export
Documents	The study binder
Arms	Cohorts
Participants	People and admin rights
Settings	The study record, document pack, export, revoke

Recordings tab

Control	Effect
Type tabs	Filter to Biomarkers, Scales, EEG, Wearables, Symptoms, Adverse Events or Medication
CSV / Excel	Export what the table is showing
Calendar View	The same recordings by date
New Recording	Add one by hand
Export Template	A spreadsheet shaped for this study
Import Template	Read that spreadsheet back
Export Analysis Packet	Tables plus raw signal files, for analysis elsewhere

Appendix B — The analyses

Analysis	Needs	Produces
Cohort Comparison	One biomarker, two or more cohorts	Box plot, or t-test, ANOVA, Mann-Whitney U, Kruskal-Wallis
Subject Analysis Over Time	One biomarker, one subject	The series for that person
Data Distribution	One biomarker	Histogram, density or violin
Correlation Analysis	Two or more biomarkers	Correlation matrix
Comprehensive Correlation	Selected cohorts	Every pair across all data types
Demographics Summary	One demographic field	Counts by arm
Event/Symptom Frequency	Adverse events or symptoms	Counts by MedDRA term
Concomitant Medication Frequency	—	Counts by medication
Cohort Distribution Report	—	Every cohort at once
Automated Analysis (AI)	An OpenAI key with credit	A written interpretation

Appendix C — What STUDYPRO refuses to do

Run an analysis whose inputs do not fit it. The Run button stays disabled and the line under the biomarker list says what is missing — exactly one biomarker for a cohort comparison, two or more for a correlation.

Read a raw wearable export. The viewer needs a flat CSV with a `time` column in seconds, and says so rather than rendering something wrong.

Import a REDCap observation with no biomarker chosen. The field is skipped and the reason is in the import report.

Import REDCap identifiers by default. They are flagged and off until you turn each one on.

Show you a study you have not been added to. Access is by email address on the participant list; there is no URL that works around it.

Delete a released subject's clinical record. Release removes identity, not data. The two are deliberately different operations.

Appendix D — The study used in this guide

Study	CARDIO-SLEEP: Omega-3, Sleep Quality and Cognition
Design	Randomised, placebo-controlled
Subjects	24, in two arms — Active and Placebo
Recordings	About 1,100, across biomarkers, scales, EEG, wearables, symptoms and adverse events
Documents	Protocol, consent form, statistical analysis plan, ethics approval
Budget	\$185,000, against which about \$99,700 had been spent
Provenance	Imported from the REDCap export in <code>demo/novasyne-assets/</code> , then extended with signal recordings

It is synthetic. No person in it exists, and the clinician, diagnosis and medication in the Subjects chapter were entered while this guide was being captured, to give those tables something to show.