



SpineAlly

A real-world data collection platform for spinal cord injury





THE PROBLEM

According to our clinical research experience:



Lack of a comprehensive remote monitoring and tools for documenting health



Lack of reliable support tools and educational resources



Lack of real-world data for SCI research

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THE SOLUTION



SpineAlly provides a platform to record and document all health information daily



SpineAlly provides over 100 reliable educational resources and support tools



SpineAlly provides a comprehensive platform for collecting Real-World data

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STAKEHOLDER THEMES

CLINICIANS



LIVED EXPERIENCE



RESEARCHERS



>30 Focus Groups

- Easy to collect long-term data
- Health reports
- Helpful educational tools and resources
- Communication conduit
- Customizable/modular to add new features
- Wheelchair integrations

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THE SPINEALLY APP



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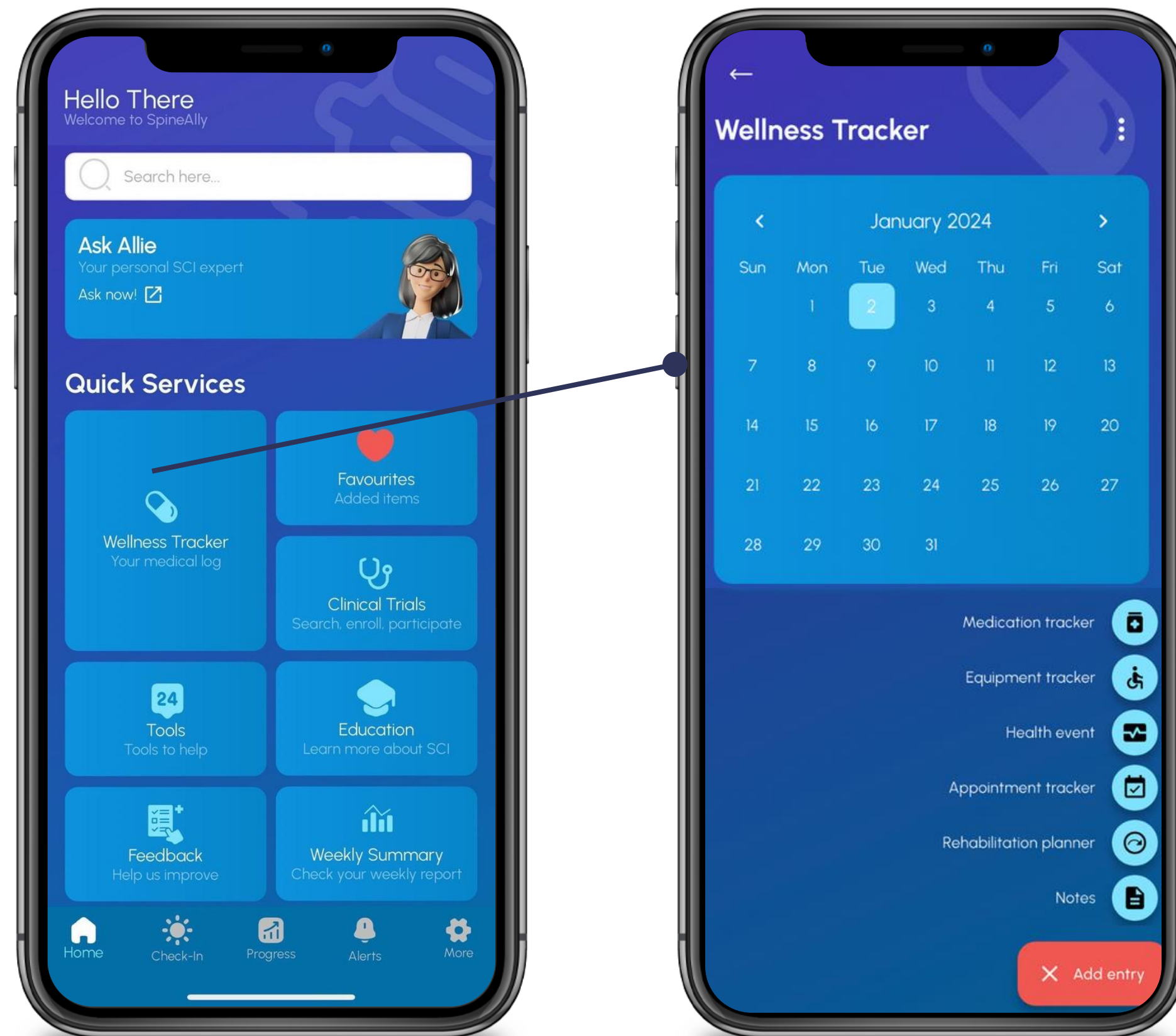


WELLNESS TRACKER

Track medications,
equipment needs, health
events, appointments,
rehabilitation sessions, and
more...

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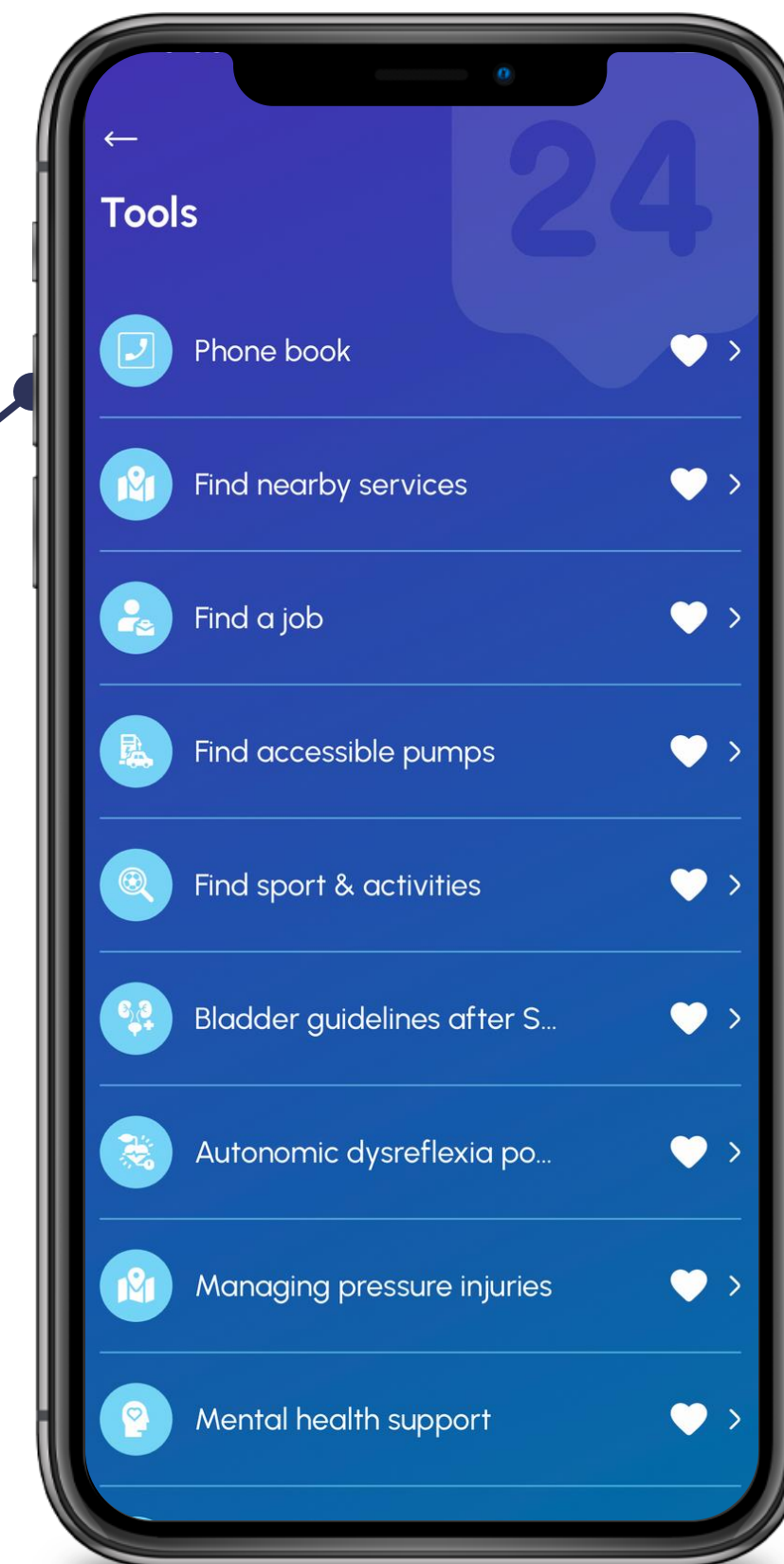
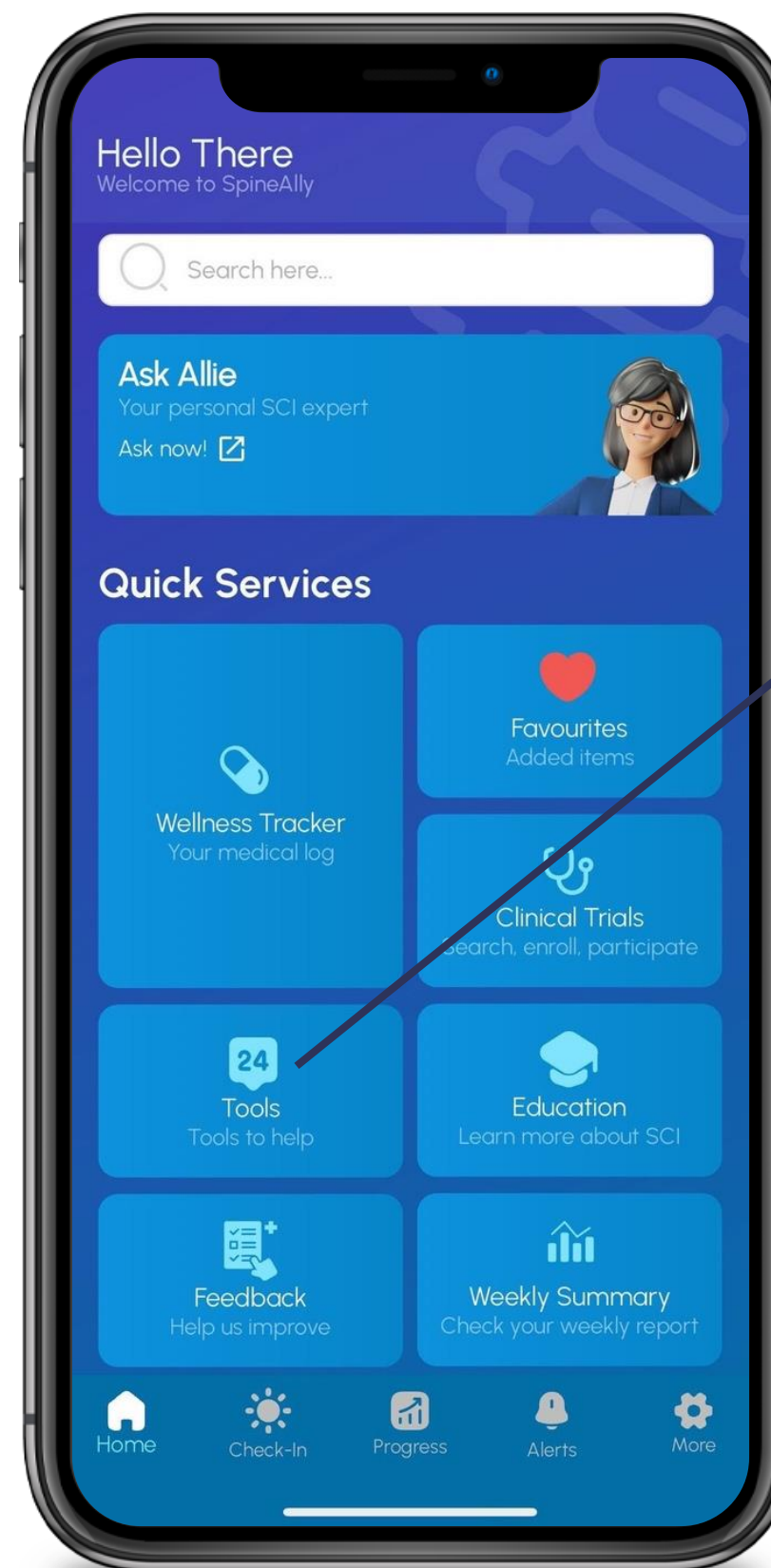
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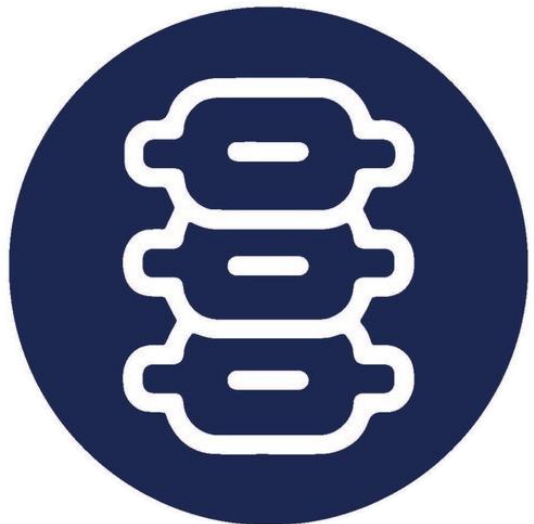
SUPPORT TOOLS

Easily access more than 70 reliable support tools to help navigate health needs

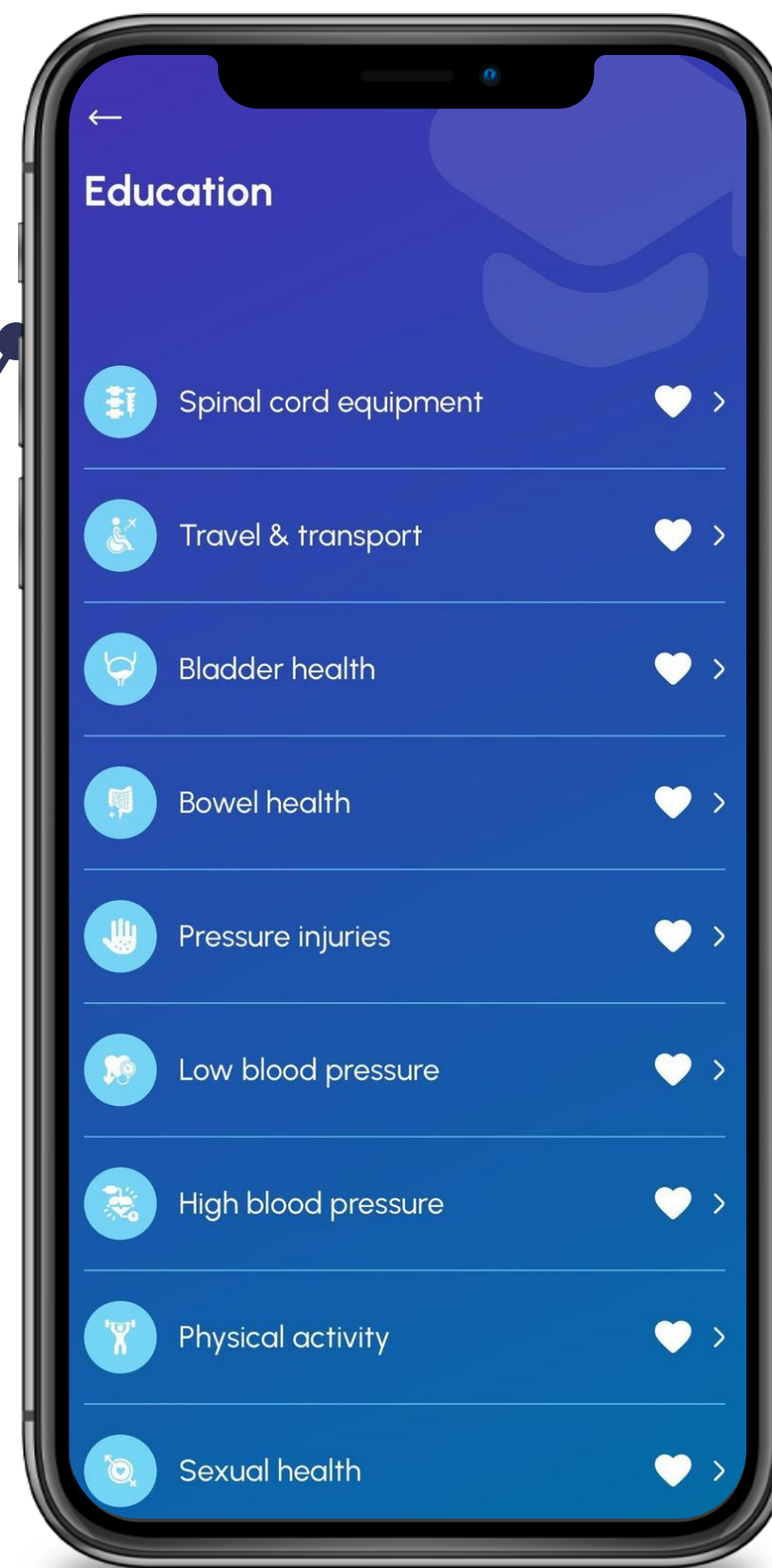
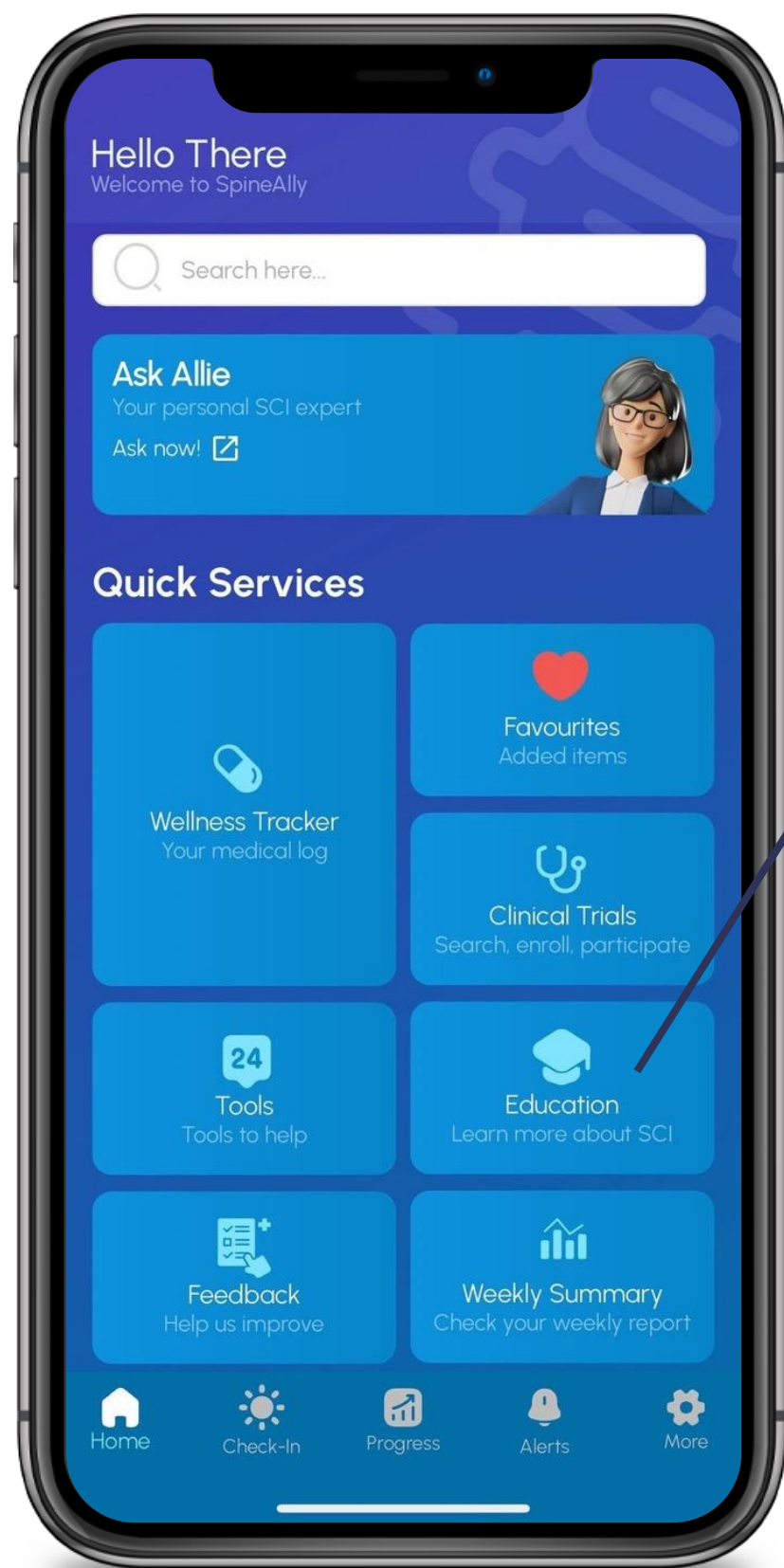


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EDUCATIONAL RESOURCES



Easily access more than
30 reliable evidence-
based educational
resources

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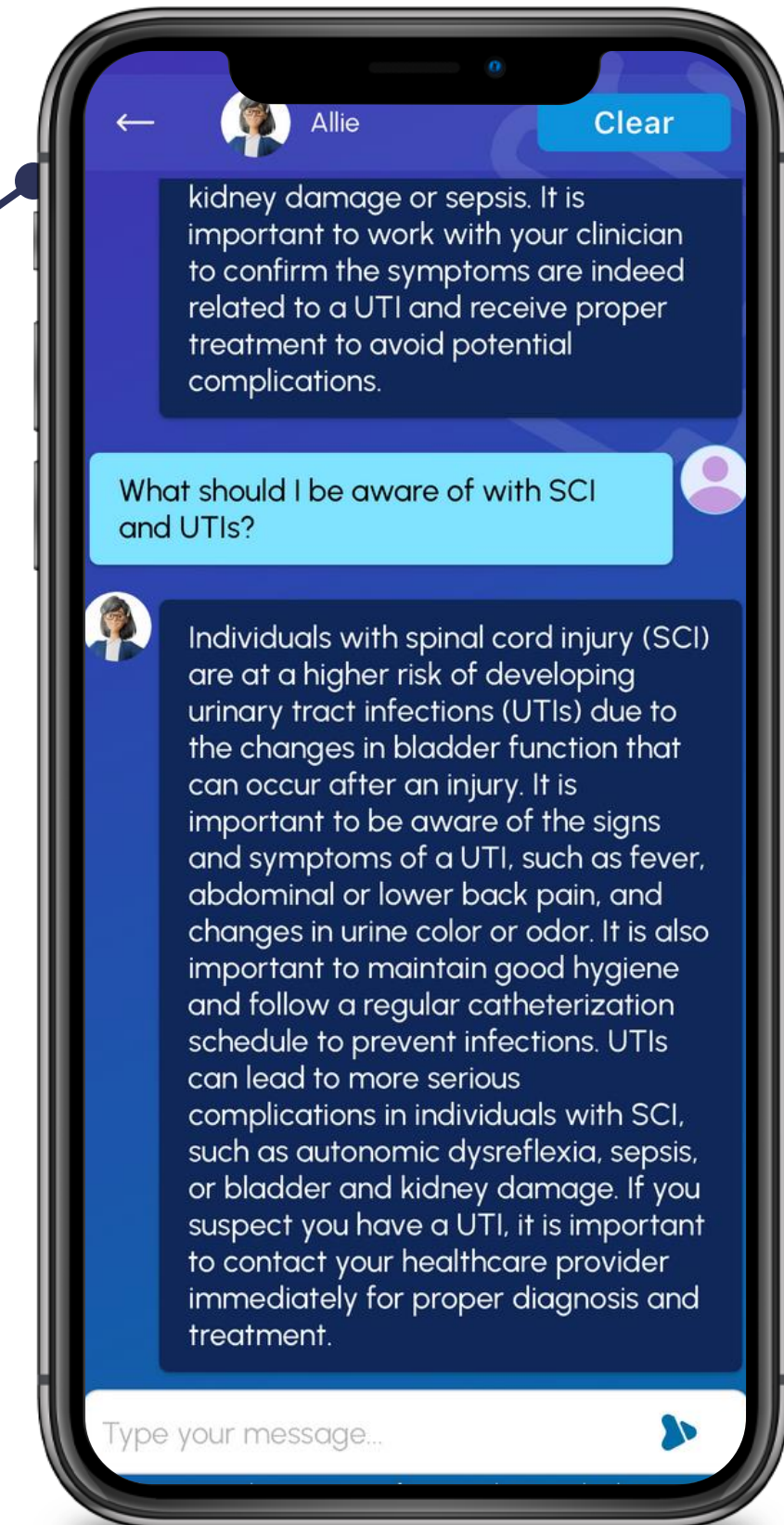
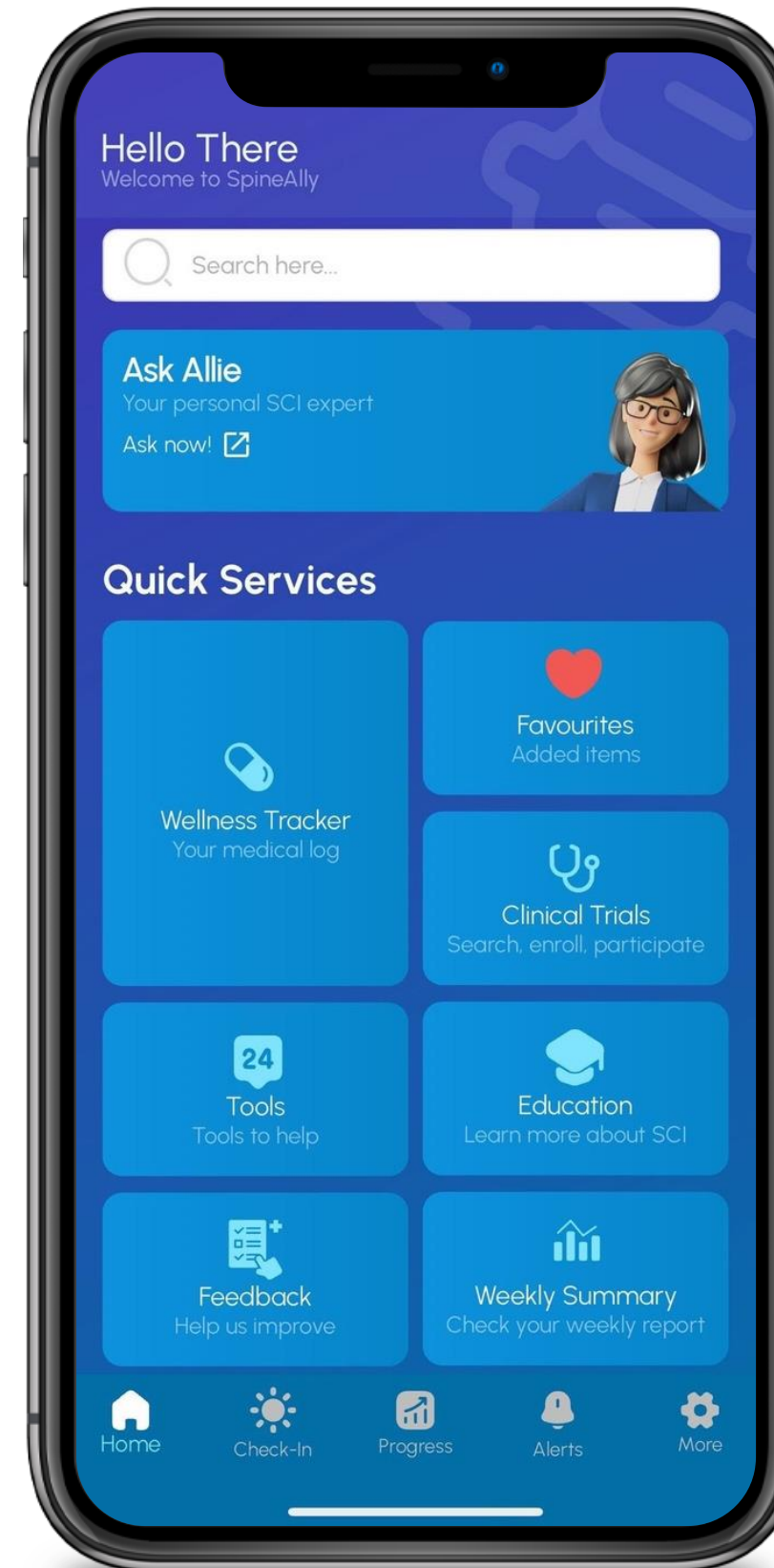


ASK ALLIE

A custom-trained AI chatbot to help answer questions about living with SCI

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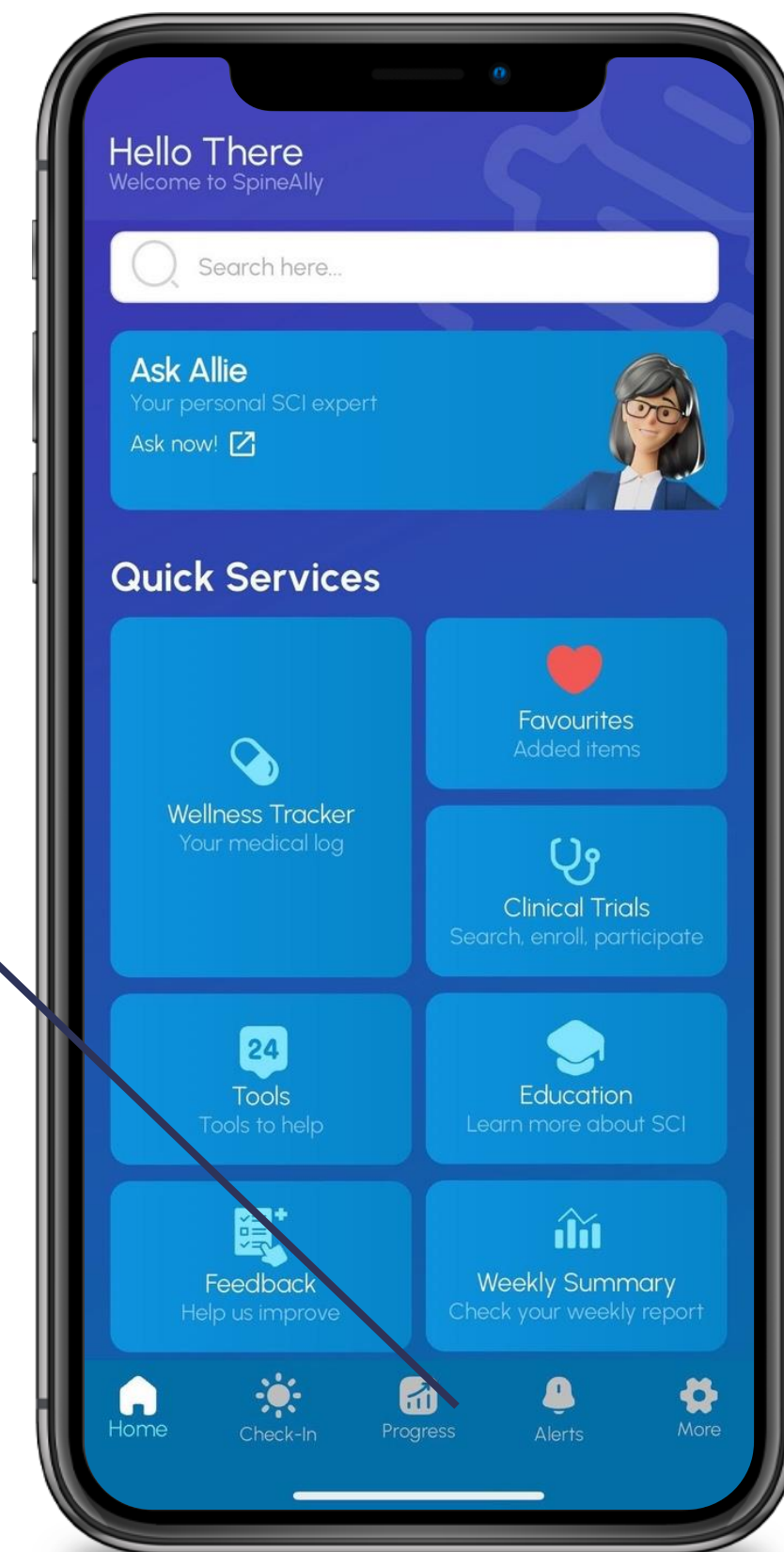
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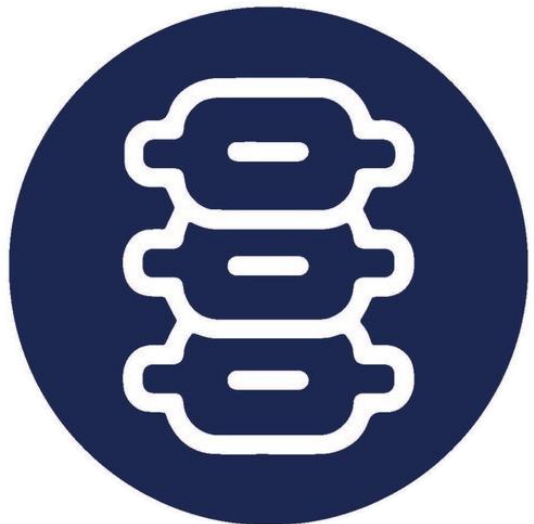
WEARABLE INTEGRATION

Anything Bluetooth enabled
~50 metrics



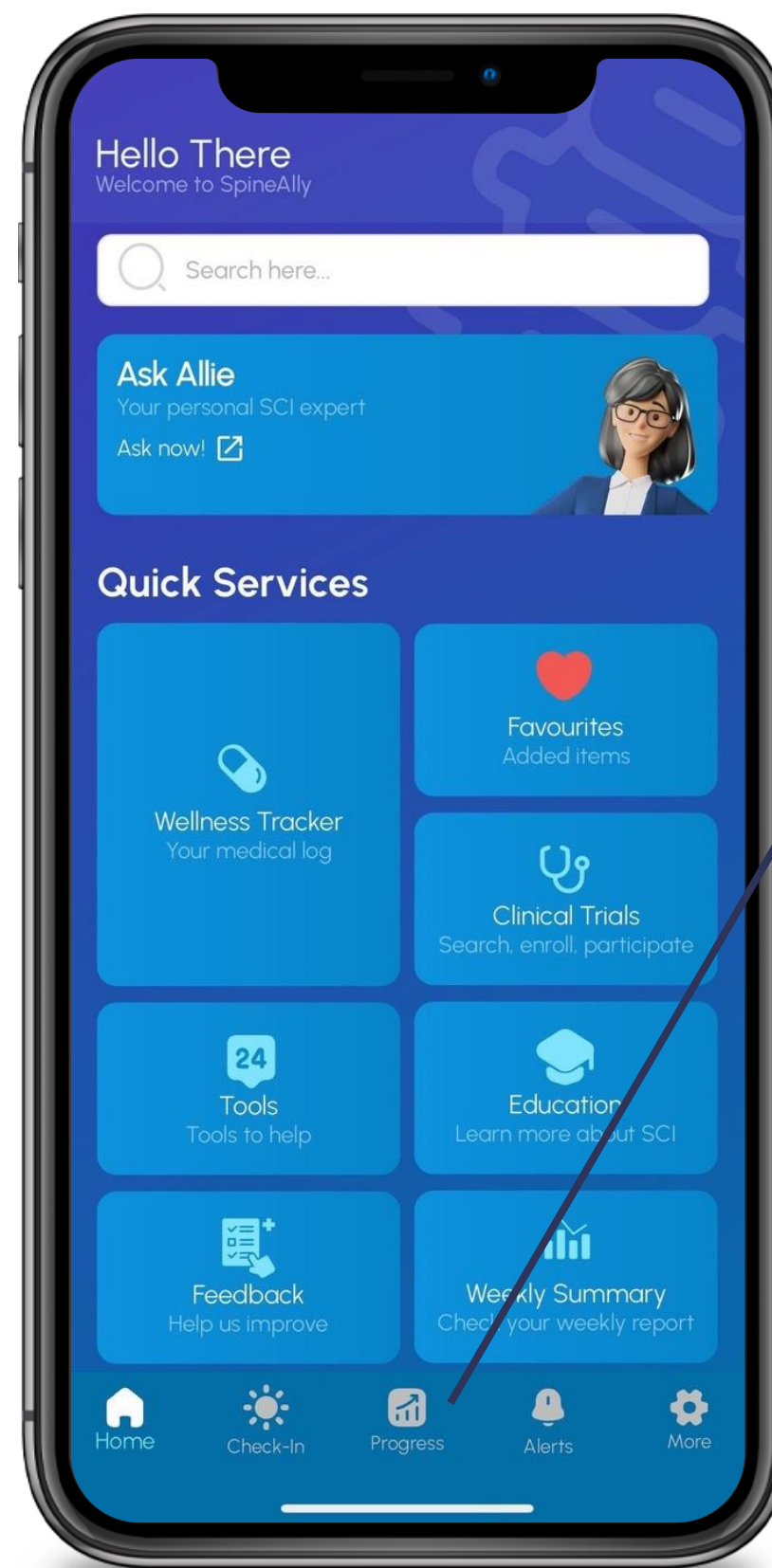
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REVIEW PROGRESS

Review and print
progress and how health
trends are changing over
time



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DAILY CHECK IN

Quickly report more than 20 aspects of health like blood pressure, spasticity, pain, fatigue, bowel and bladder function, and much more...

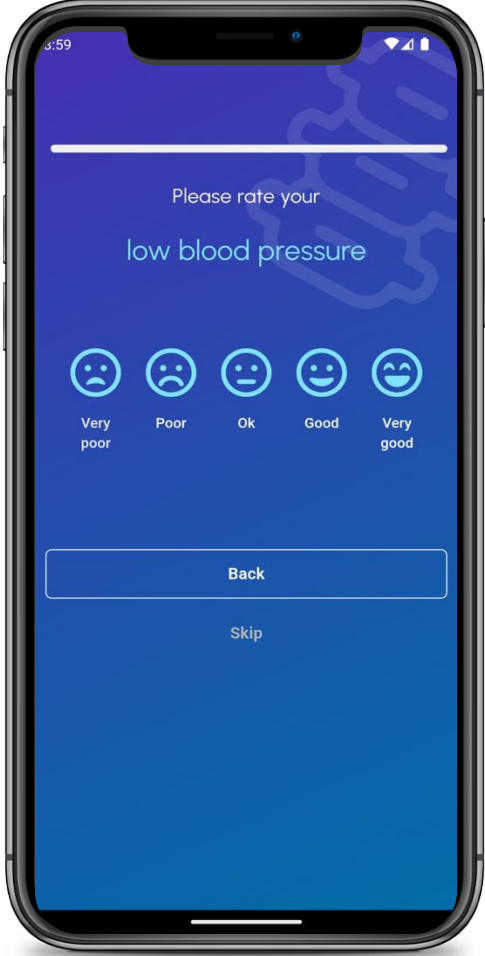


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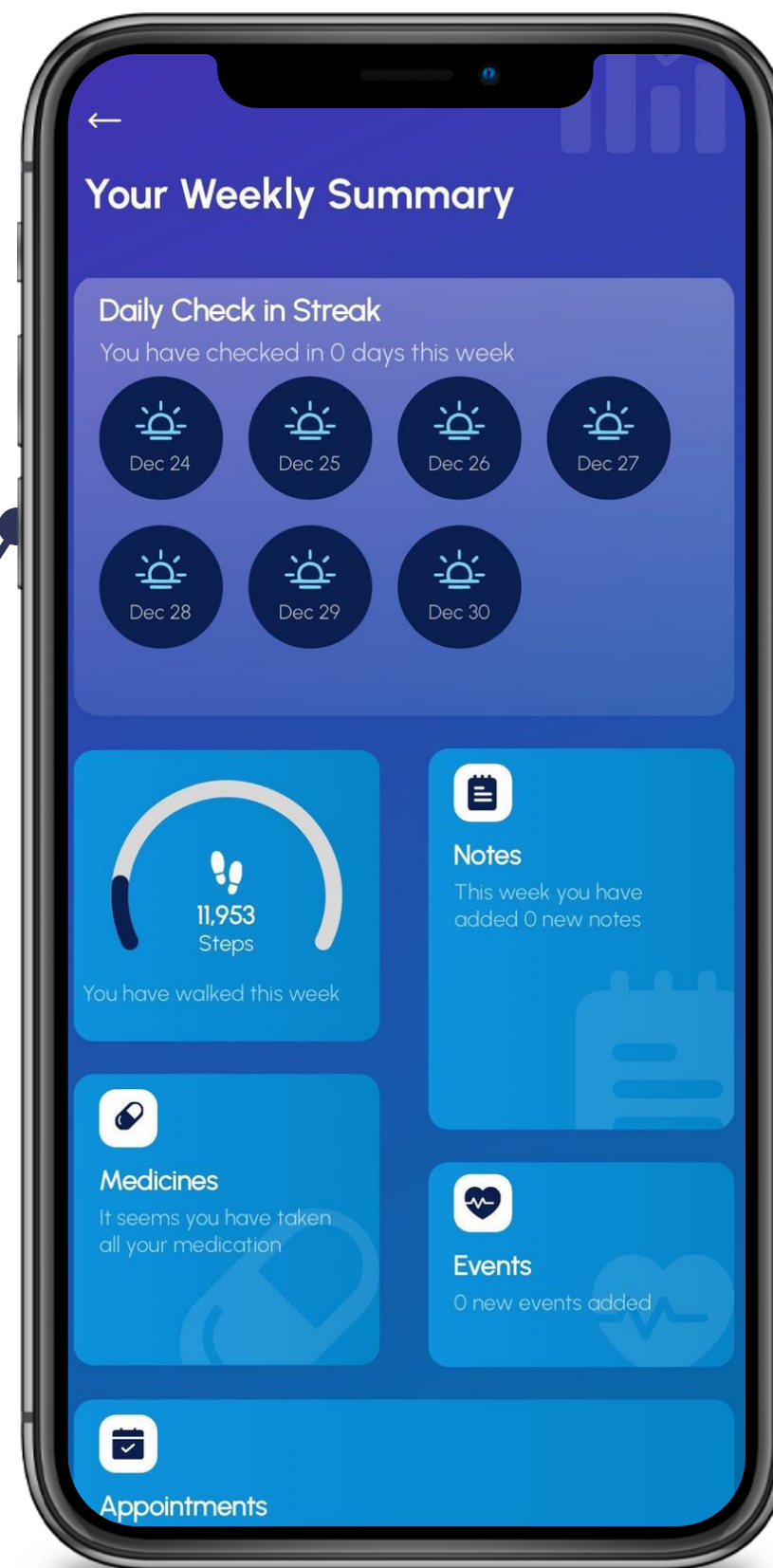
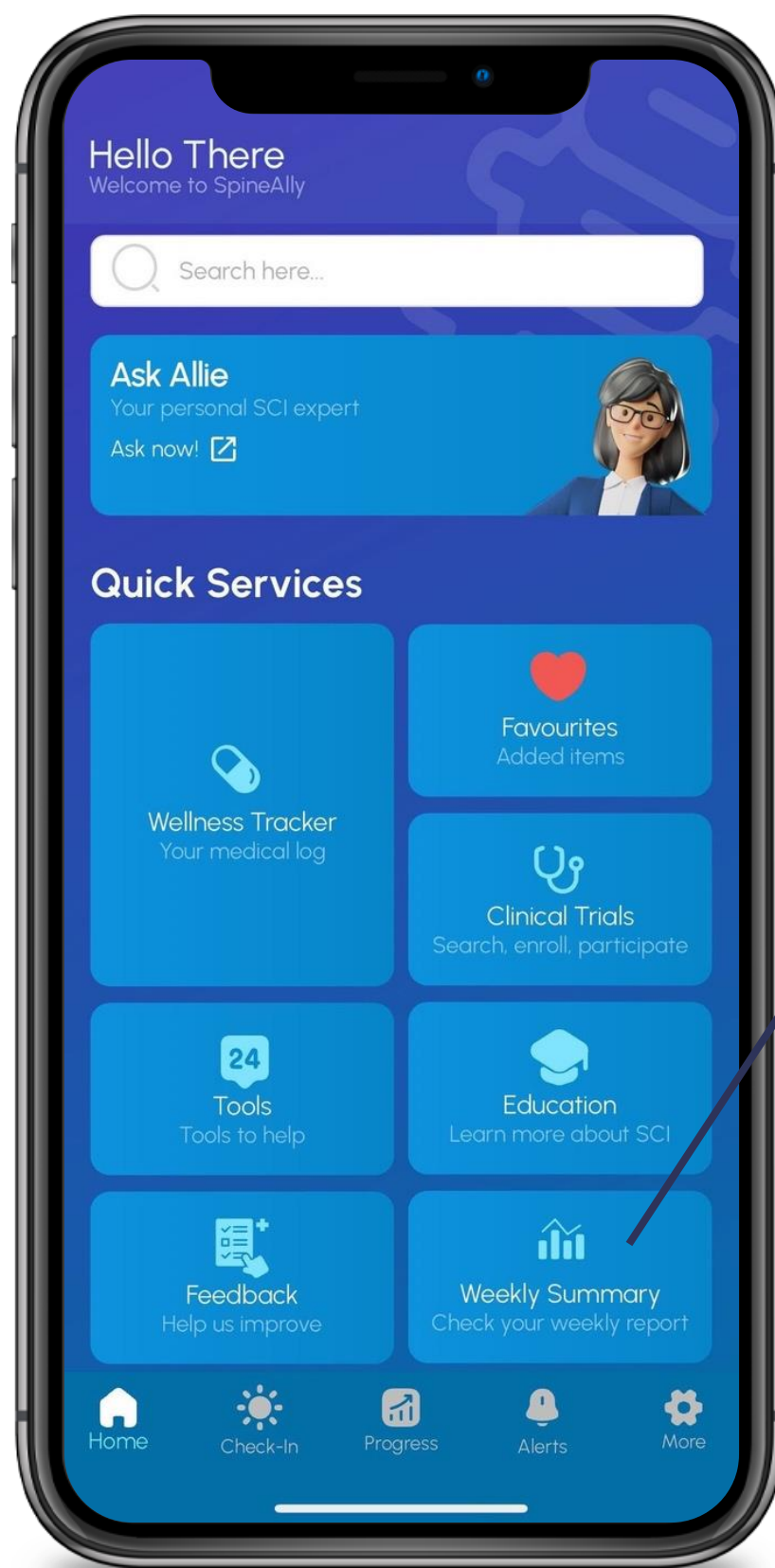


DAILY HEALTH QUESTIONNAIRE

Question	Answer	Outcome Domain
<p>Please rate you X:</p> <ul style="list-style-type: none">- Low blood pressure- High blood pressure- Bladder function- Sexual function- Sleep quality- Fatigue score- Pressure injuries- Body temperature- Sweating/or goosebumps- Breathing and coughing- Concentration and thinking ability- Mood- General aches & pains- Spasticity- Water intake- Mobility- Ability to perform self-care- Productivity- Stress	<div><div>Very poor</div><div>Poor</div><div>Ok</div><div>Good</div><div>Very good</div></div> <div></div>	<div>Autonomic function</div> <div>Physical health</div> <div>Cognition/mental health</div> <div>Quality of life (economic analysis)</div>
How many minutes did your bowel routine require today?	# minutes	Autonomic: bladder function
How many times did you catheterize yesterday	# catheterizations	Autonomic: bladder function
How many hours did you use stimulation yesterday	# hours	Device use metrics
What percent is your overall health state at?	%	Overall health rating



WEEKLY SUMMARY REPORT



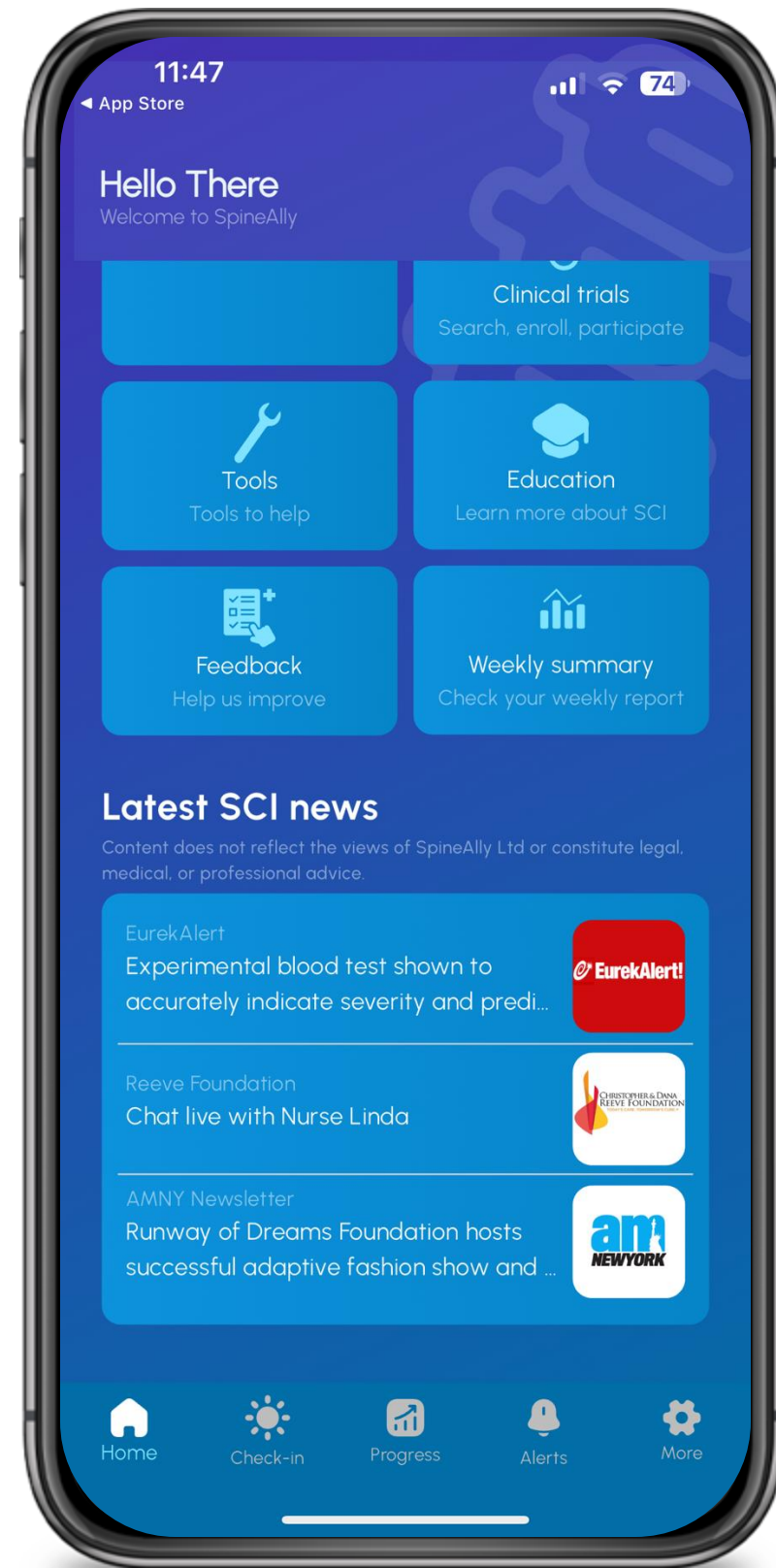
Quickly review health trends with a weekly summary of daily check-in streaks, steps, medications, health events, appointment.

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LATEST SCI NEWS



We keep content up to date by pushing the latest SCI news from scientific discovery, community events, SCI interest articles, etc.

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TESTIMONIALS

"I'm excited about this, I think this is a great tool to give us control over our health"

"People want their own information on their own health"

"This is great, I don't know of anything else like that out there, this is cutting edge"

"Without this app it's nearly impossible to track these health outcomes"

"For anyone that wants to be proactive about their health, this is huge!"

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REQUEST

- Feedback on *SpineAlly*
- Interest in promoting *SpineAlly* within your network
- Also, an opportunity to run your own research studies using *SpineAlly*

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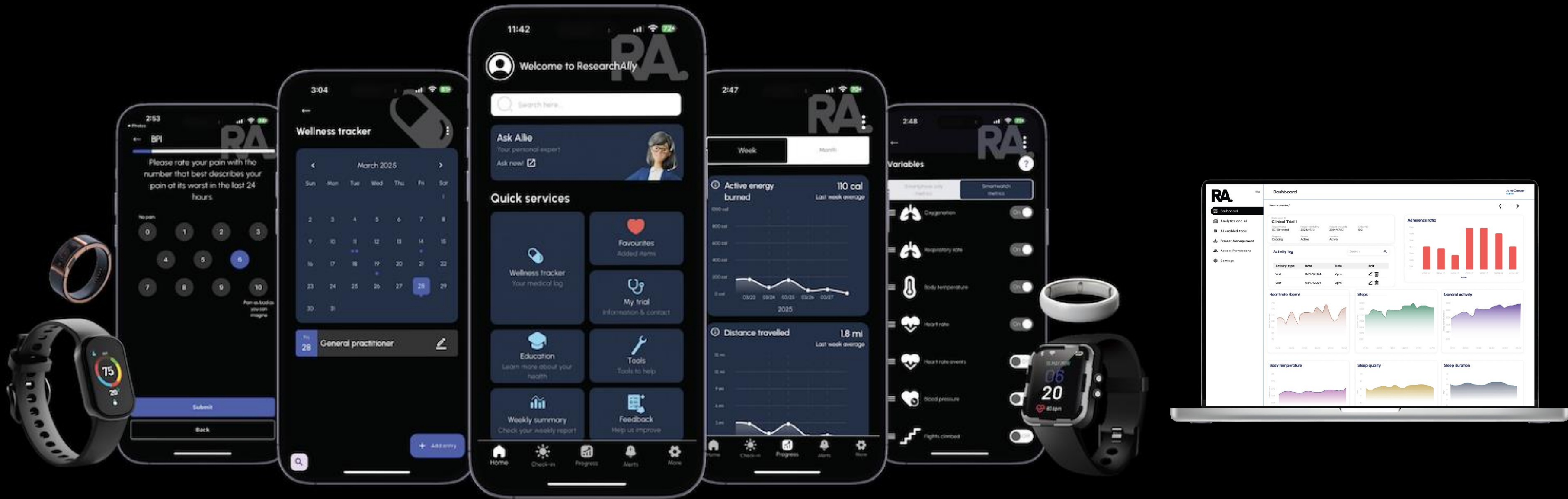


RESEARCH

- REB Approved in Canada and USA
- Compliment existing clinical research
- BYOD ("bring your own device") research
- Analytics dashboard for researchers
- Whitelabelling with ResearchAlly

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Questionnaire conversion



Ex. PHQ-9 & EQ-5D

Patient Health Questionnaire (PHQ-9)

Name: _____ Date: _____

Over the last 2 weeks, how often have you been bothered by any of the following problems?

	Not at all	Several days	More than half the days	Nearly every day
1. Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed, or hopeless	0	1	2	3
3. Trouble falling or staying asleep, or sleeping too much	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appetite or overeating	0	1	2	3
6. Feeling bad about yourself – or that you are a failure or have let yourself or your family down	0	1	2	3
7. Trouble concentrating on things, such as reading the newspaper or watching television	0	1	2	3
8. Moving or speaking so slowly that other people could have noticed? Or the opposite – being so fidgety or restless that you have been moving around a lot more than usual	0	1	2	3
9. Thoughts that you would be better off dead or of hurting yourself in some way	0	1	2	3

For office coding: Total Score _____ = _____ + _____ + _____
Total Score _____

If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?

☐ Not difficult at all ☐ Somewhat difficult ☐ Very difficult ☐ Extremely difficult

I have some problems with performing my usual activities
I am unable to perform my usual activities

☐

Pain/Discomfort
I have no pain or discomfort
I have moderate pain or discomfort
I have extreme pain or discomfort

☐☐☐

Anxiety/Depression
I am not anxious or depressed
I am moderately anxious or depressed
I am extremely anxious or depressed

☐☐☐

To help people say how good or bad a health state is, we have drawn a scale (rather like a thermometer) on which the best state you can imagine is marked 100 and the worst state you can imagine is marked 0.

We would like you to indicate on this scale how good or bad your own health is today, in your opinion. Please do this by drawing a line from the box below to whichever point on the scale indicates how good or bad your health state is today.

Note: The actual EQ-5D instrument spreads over two pages with the "thermometer" and explanation on page 2. To save journal space on this paper it has been compressed into one page.

Your own health state today

Best imaginable health state

100

90

80

70

60

50

40

30

20

10

0

Worst imaginable health state

9:53

← PHQ

Little interest or pleasure in doing things.

Not at all

Several days

More than half the days

Nearly every day

Submit

Back

9:54

← EQ5D

Self-care

0

I have no problems washing or dressing myself.

1

I have slight problems washing or dressing myself.

2

I have moderate problems washing or dressing myself.

3

I have severe problems washing or dressing myself.

4

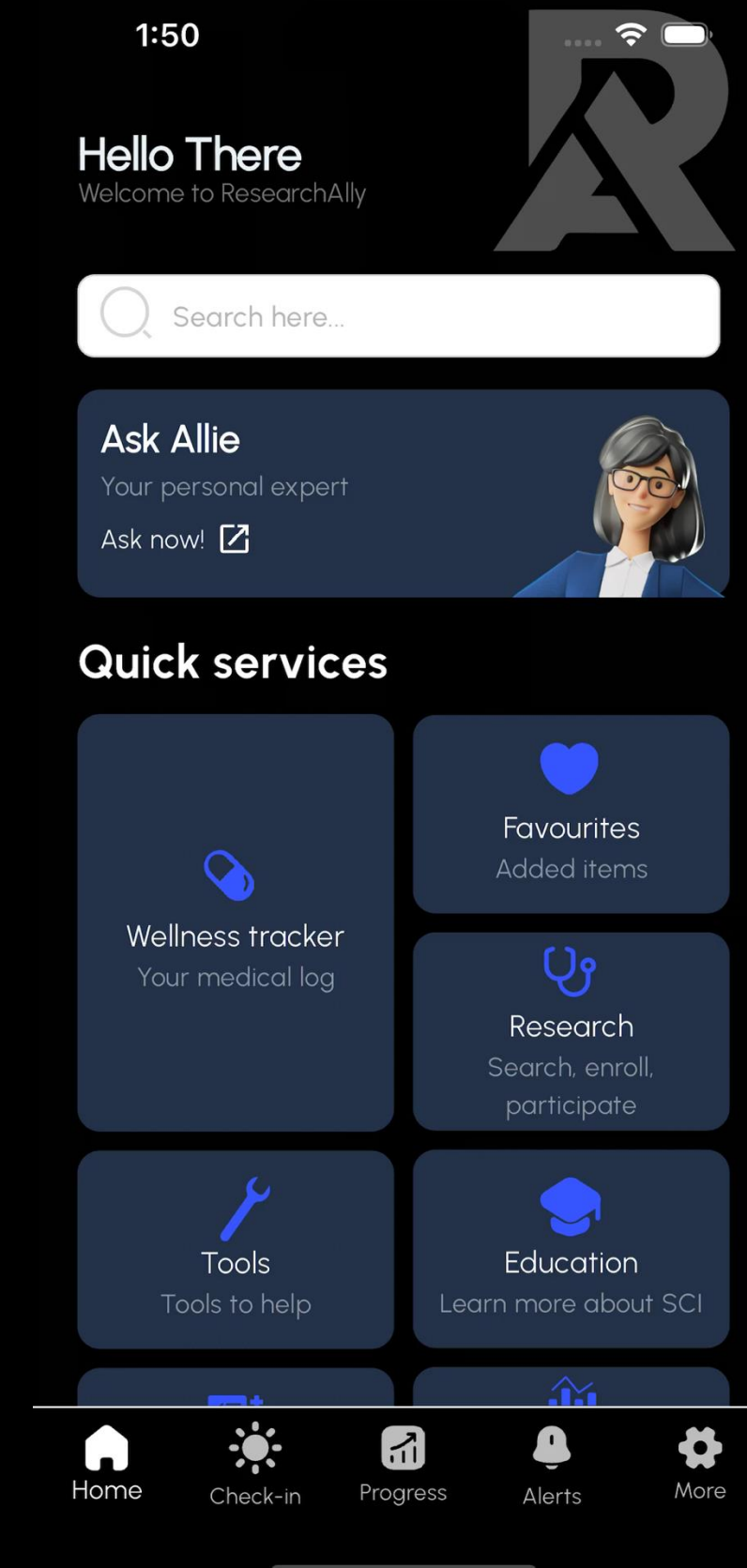
I am unable to wash or dress myself.

Submit

Back

Respiratory Sinus Arrhythmia Assessment

RA.



9:41



1/6

In the past 7 days,
my sleep was refreshing.



Not at all



A little bit



Somewhat



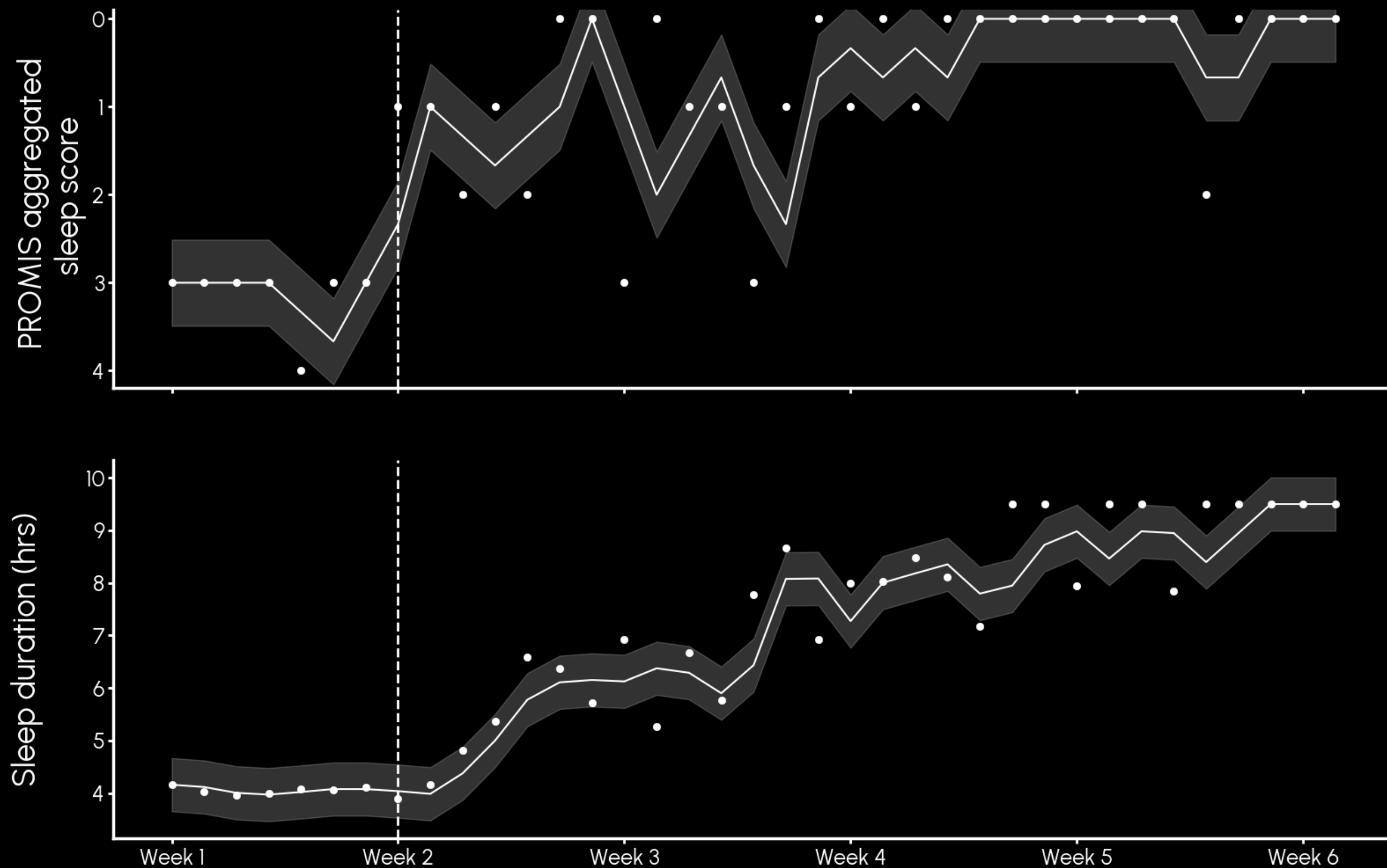
Quite a bit



Very much



PROMIS responses in concordance with wearable sleep data (n=1)



Baseline

Active drug used

Summary

RA.

Wearable and mobile device agnostic

Fully customizable

eConsenting

Passive data collection

- Wearable and phone sensors – 54 watch variables recorded

Active data collection

- Questionnaires/wellness/appointment/medication tracker
- Library of 50 common patient outcome measure questionnaires and growing – easy to modify/add

Push notifications to encourage participant compliance

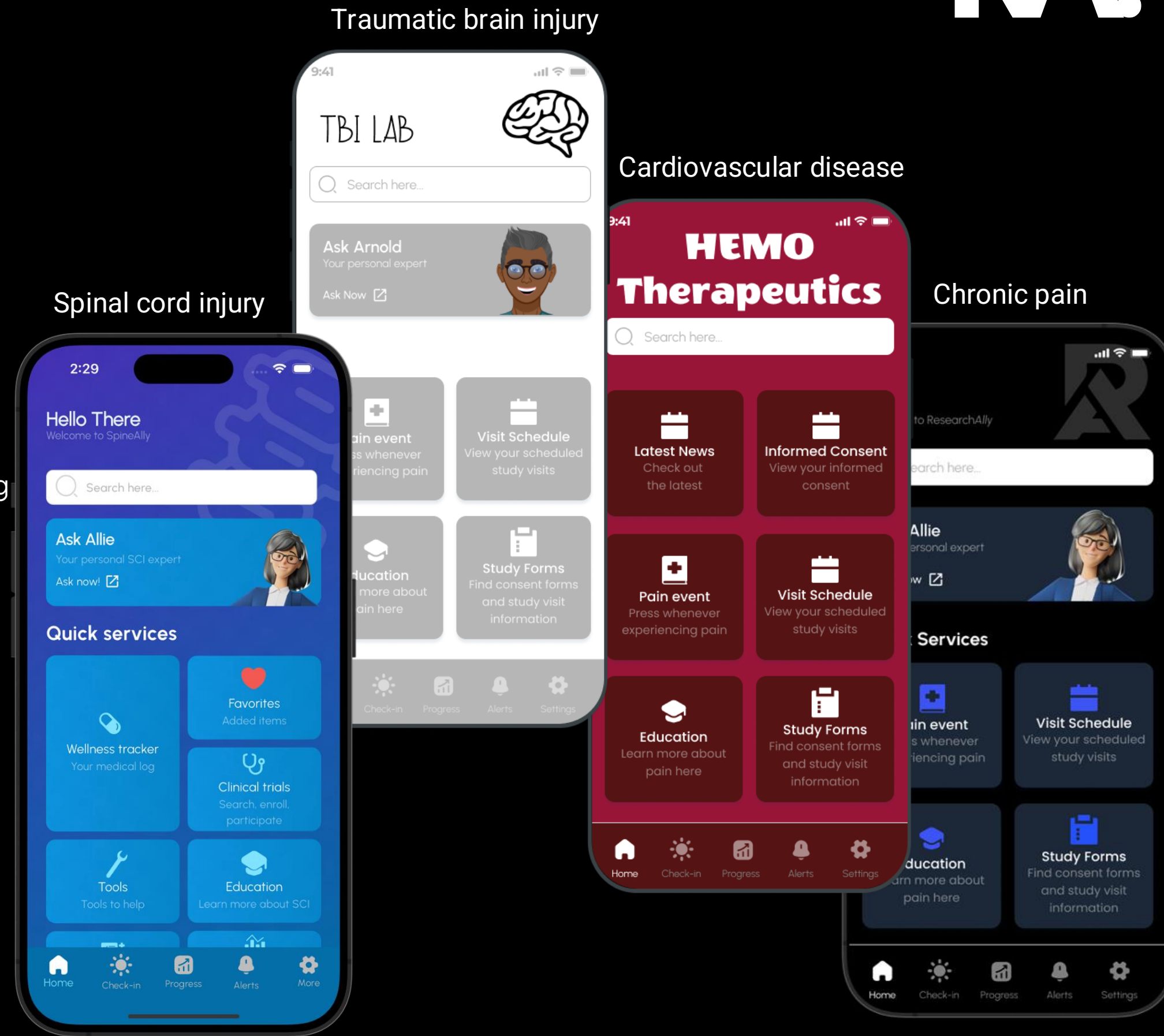
Real-time feedback and gamification for participants

- Improved engagement and adherence

Communication with participants

Highest standards of data security and privacy

Additional features and functions can be built at your request



Example versions of RA customized for partners

ResearchAlly

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