

How Are Medicines Made?

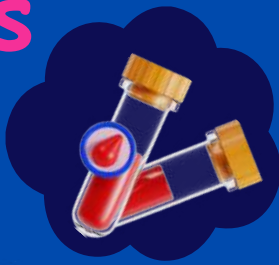


More People, Better Outcomes



SIKHS IN CLINICAL RESEARCH

Science Superheroes: Jot and His Friends Explore Clinical Trials



Note for Parents

Welcome, Parents!

As you and your children dive into “Science Superheroes: Jot and His Friends Explore Clinical Trials,” we want to share why this story matters. Designed to be fun, engaging, and educational, this comic introduces young readers to the fascinating process of how medicines are developed. It also highlights the critical role of clinical research in improving health for everyone.

Through the adventures of Jot, his friends, and their interactions with Dr. Singh, Jot’s mom, and Mr. Brandon, we aim to:

Raise Awareness: Help children understand the importance of clinical research in developing treatments for various illnesses.

Include Different Voices: Show why it’s essential to have representation in clinical trials to ensure treatments work for all communities.

Build Confidence: Reassure children and families that clinical trials prioritize participant safety.

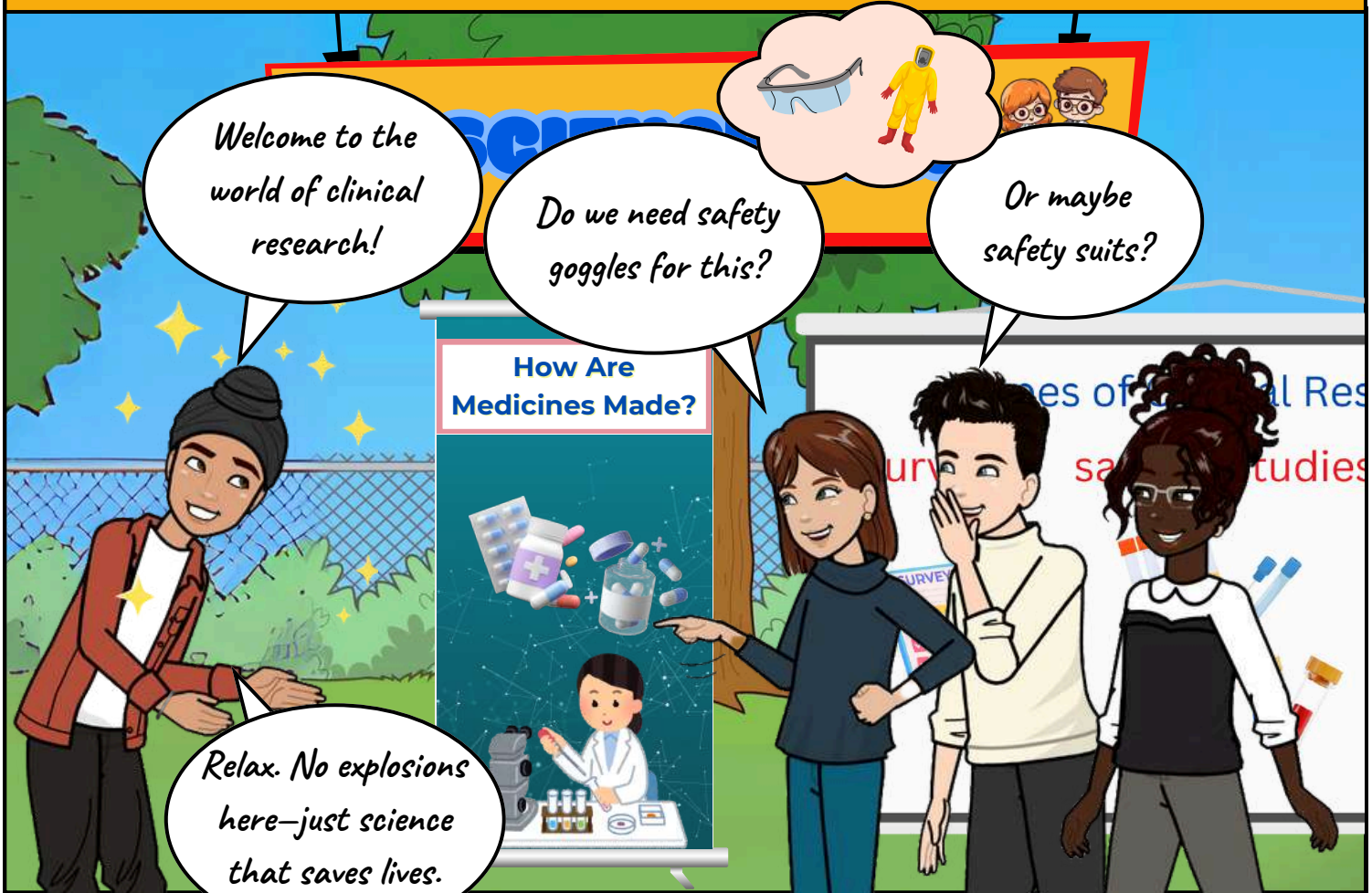
We encourage you to use this comic as a conversation starter with your children. Share stories about how medical advancements have touched your life or community, answer their questions, and inspire them to see how science and teamwork can shape a healthier future.

Together, let’s nurture the next generation of researchers!

Warm Regards,
Sikhs in Clinical Research



Join Jot and his friends Maria, Aisha, and Ethan as they dive into the exciting world of clinical research.



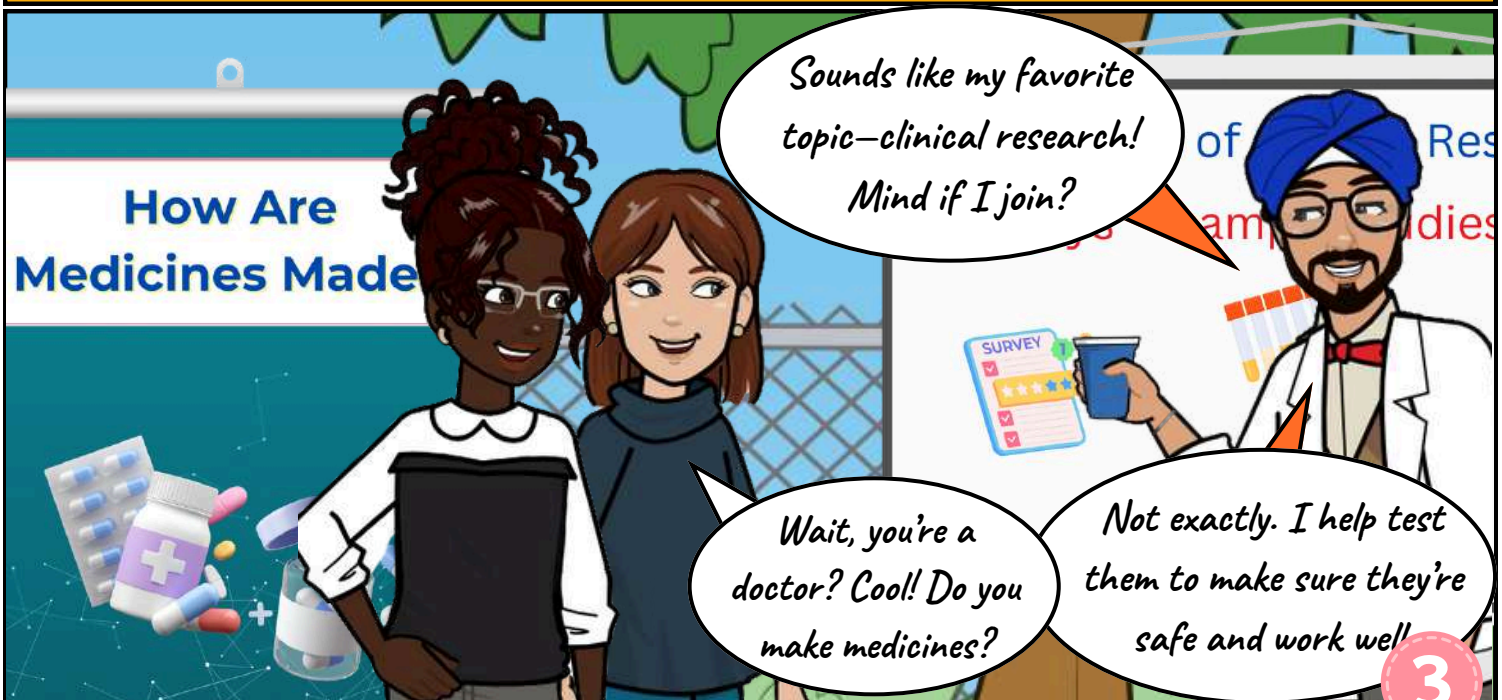
Welcome to the world of clinical research!

Do we need safety goggles for this?

Or maybe safety suits?

Relax. No explosions here—just science that saves lives.

Dr. Singh, a guest speaker at the fair, overhears the conversation and smiles as he walks over.



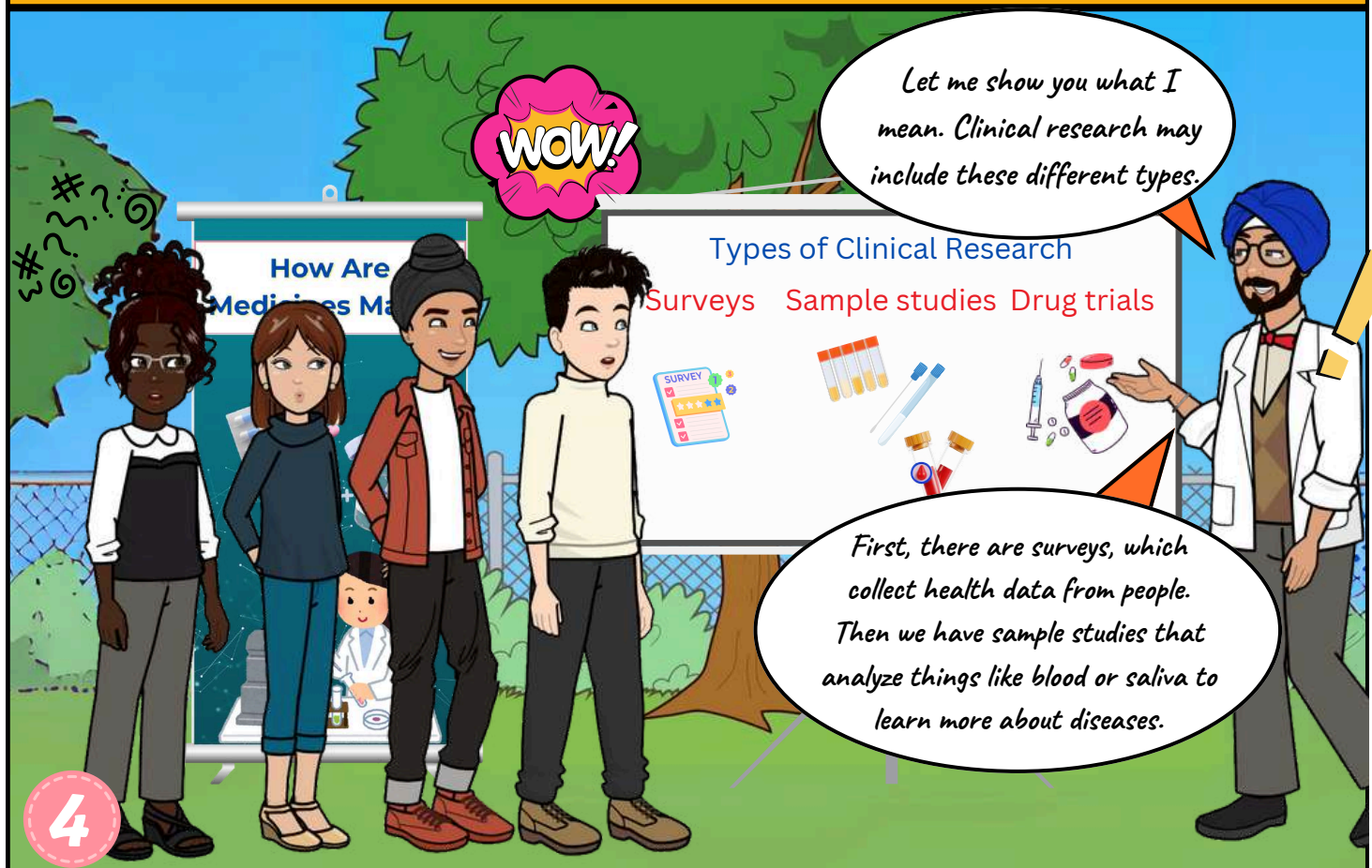
Sounds like my favorite topic—clinical research! Mind if I join?

Wait, you're a doctor? Cool! Do you make medicines?

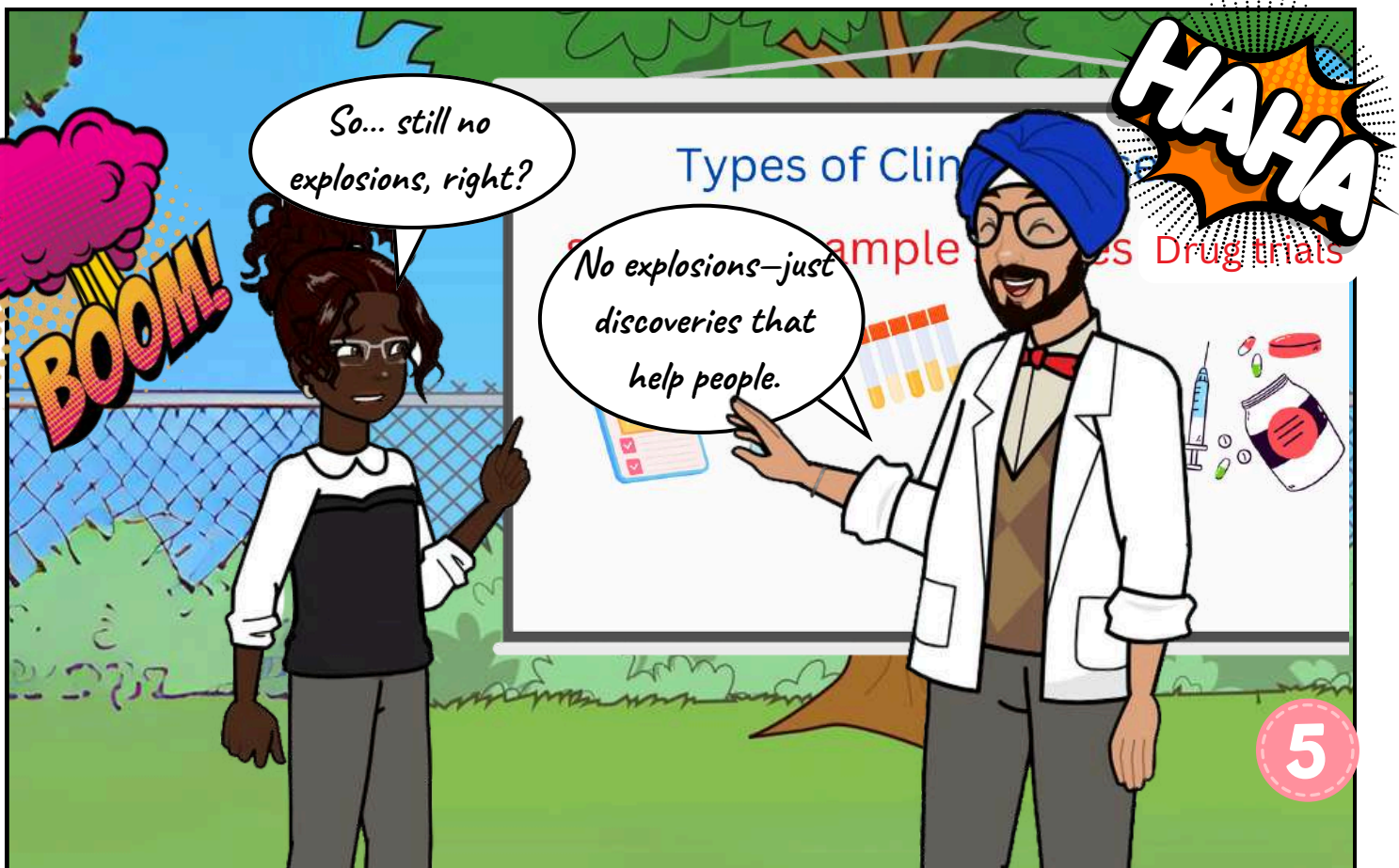
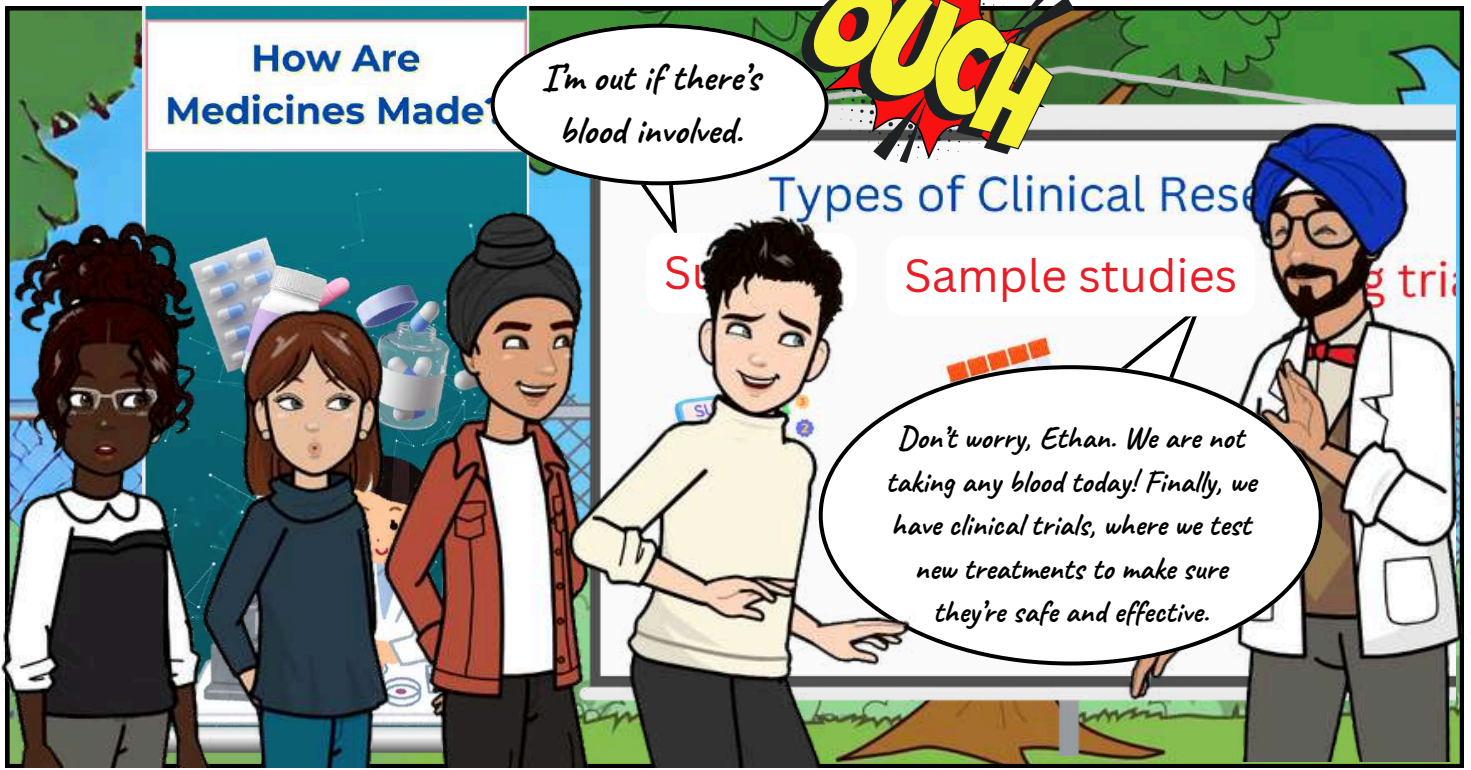
Not exactly. I help test them to make sure they're safe and work well!



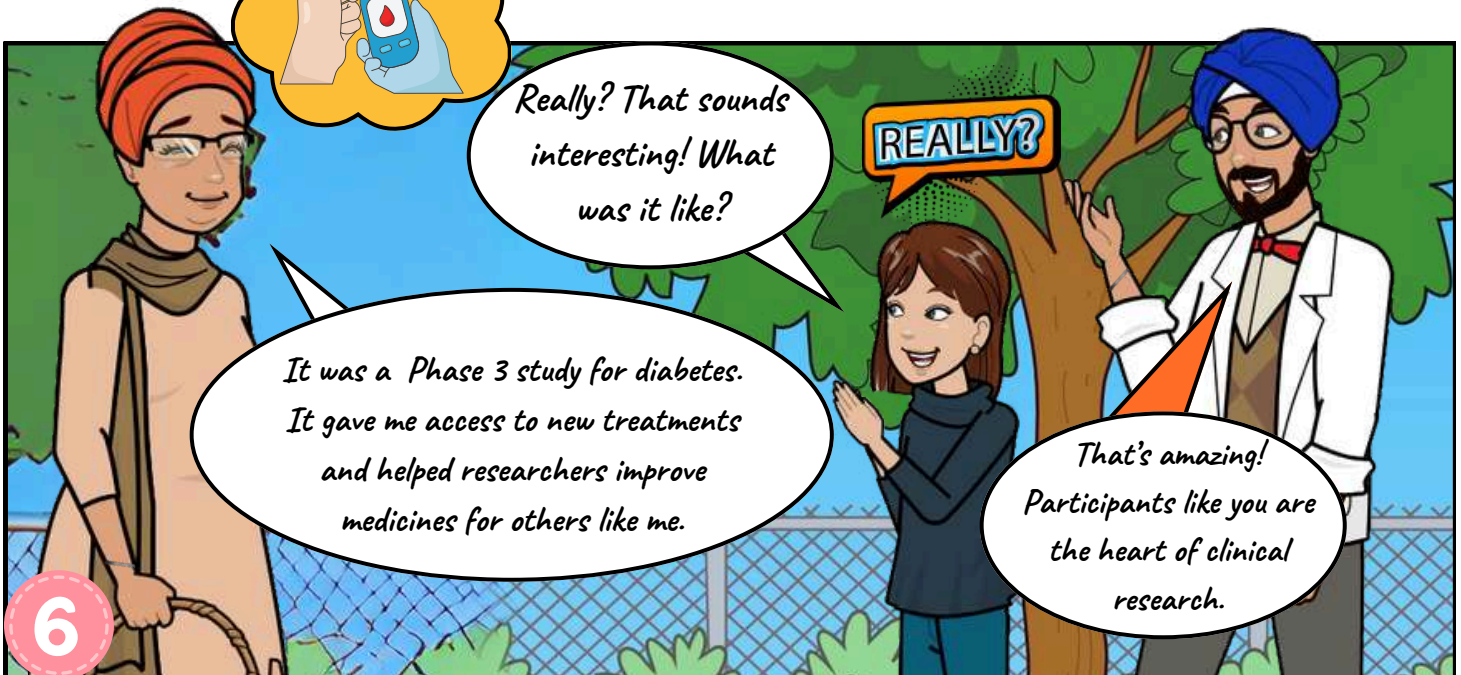
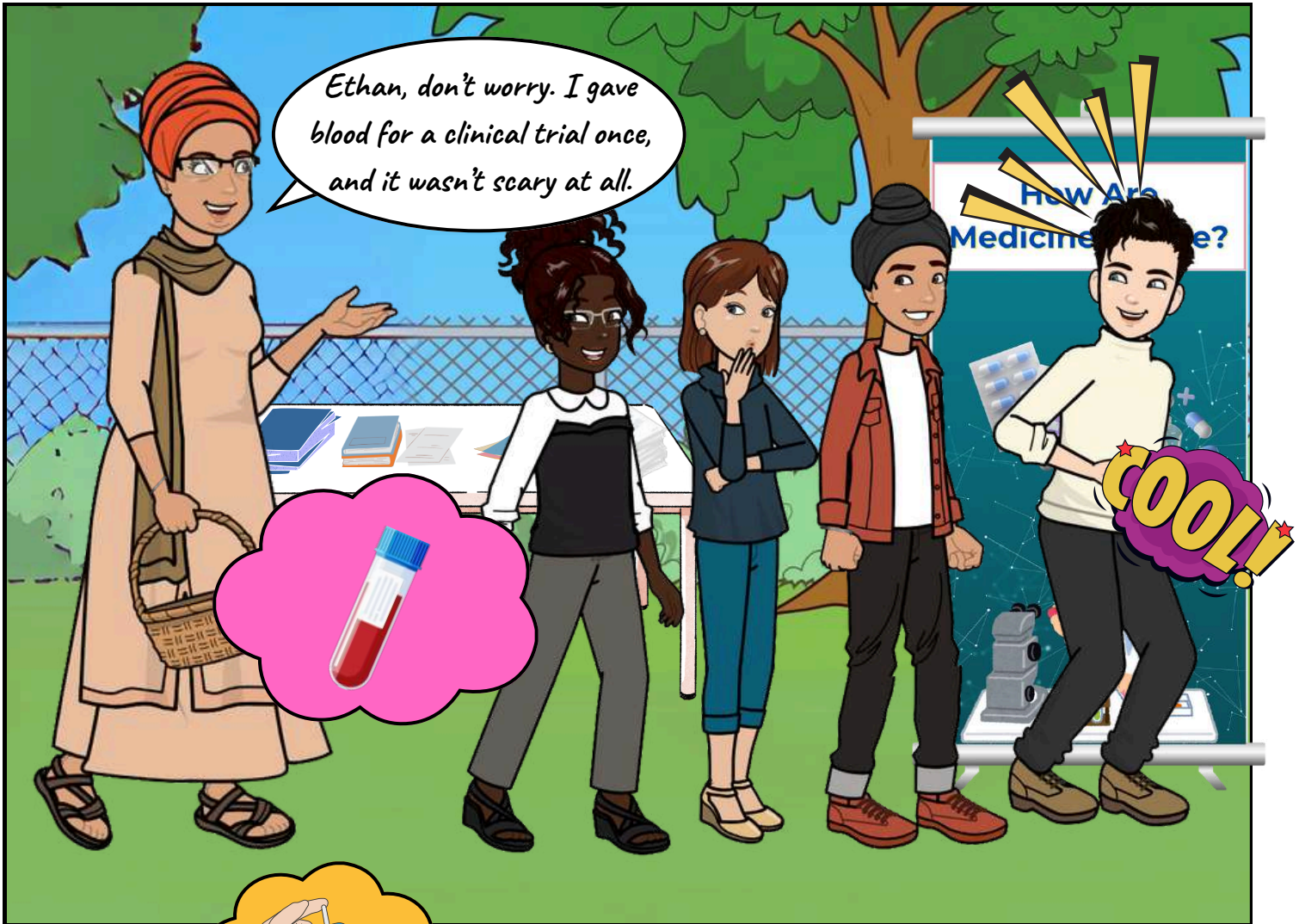
Dr. Singh points to a poster showing surveys, sample studies, and drug trials.

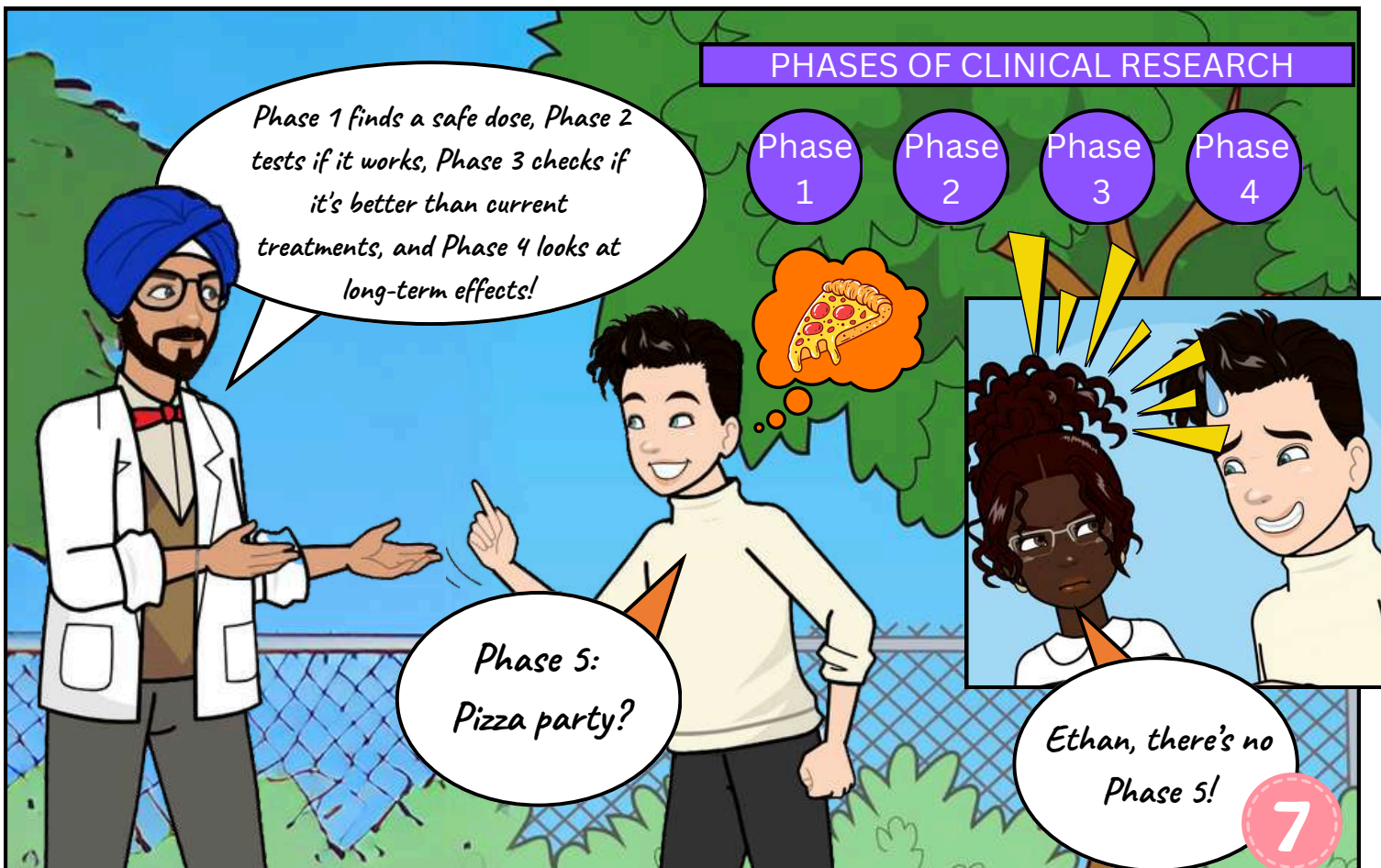


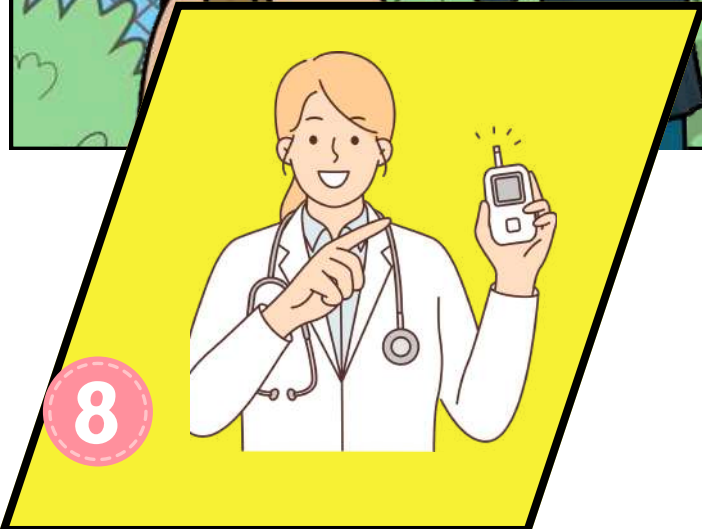
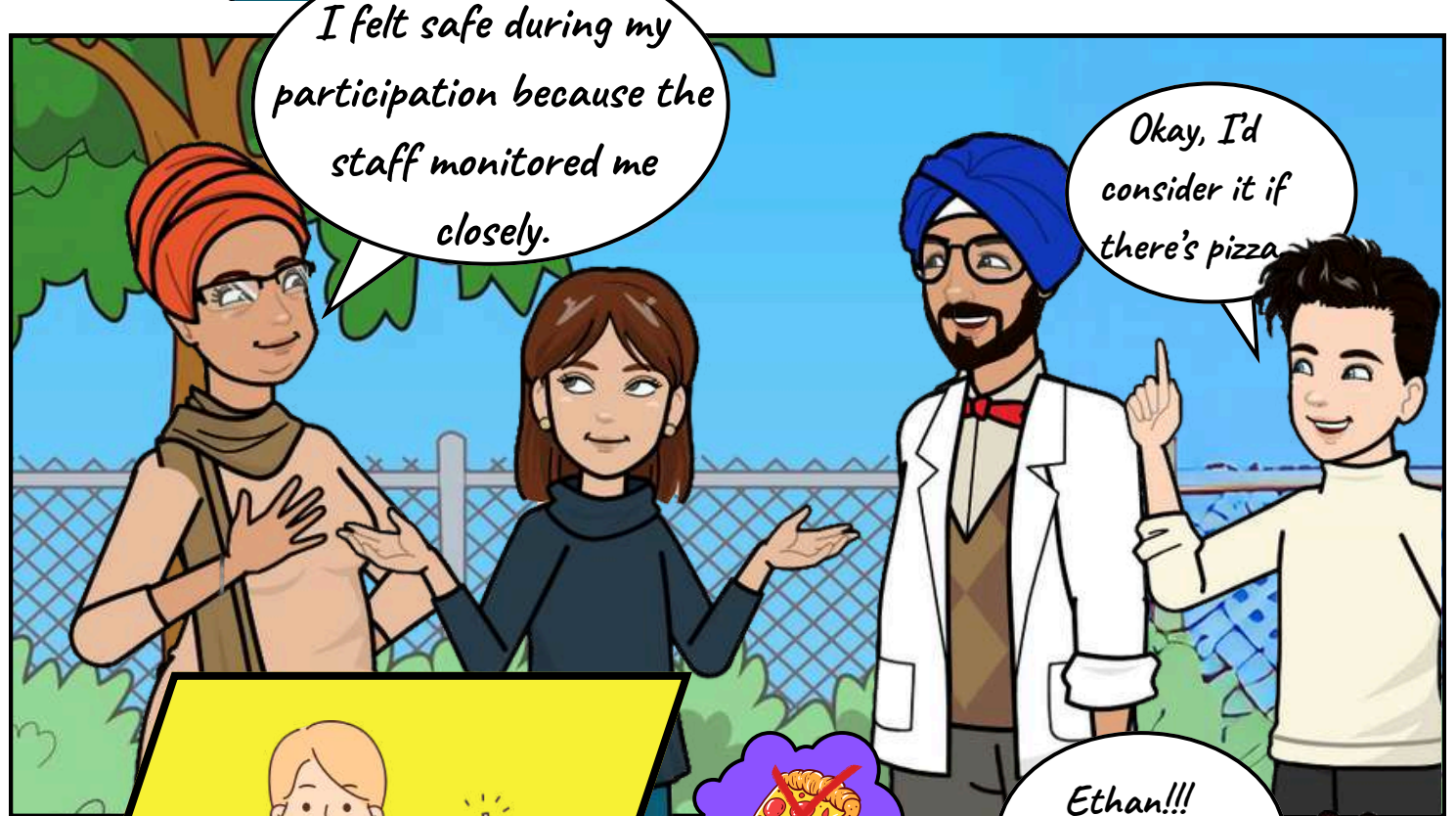
Dr. Singh answers kids' curious questions about clinical trials!



Jot's mom arrives with snacks for the kids and overhears the conversation.







Jot's mom recalling her experience, while the kids listen curiously.

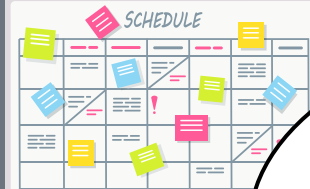
When I joined the diabetes clinical trial, they started with a health screening. They checked my medical history, ran blood tests, and even measured my blood sugar level.



A little pinch, but nothing too bad. They made sure I was comfortable the whole time.

Did it hurt?

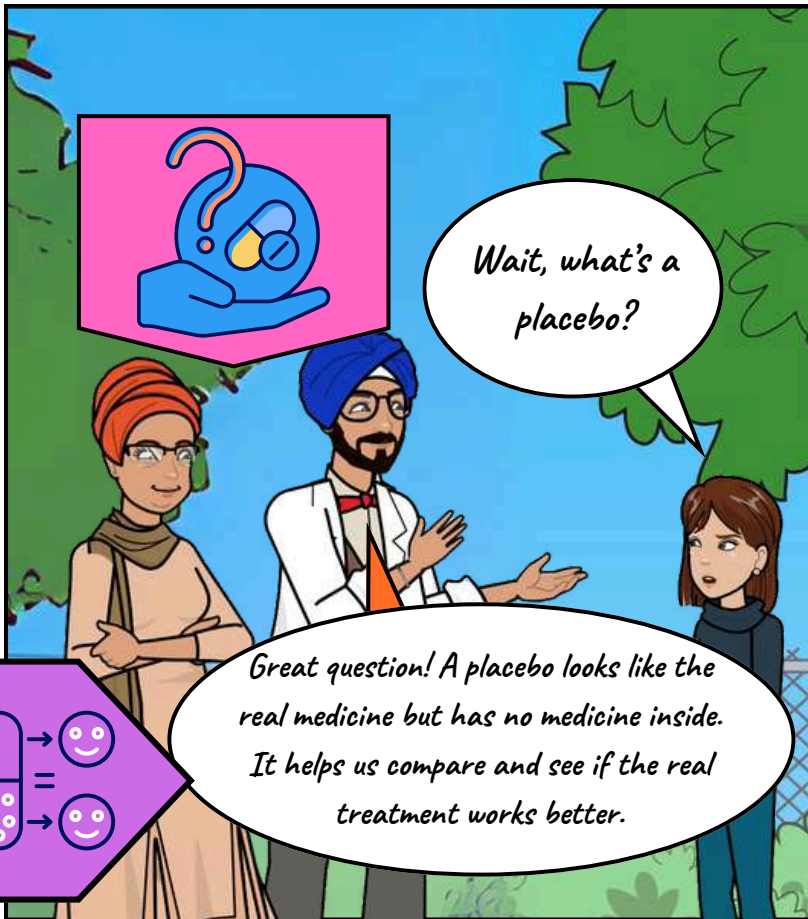
What happened next?



I had to follow a schedule. They gave me a special device to monitor my blood sugar and asked me to record my meals, daily activities and even gave me the study medicine.

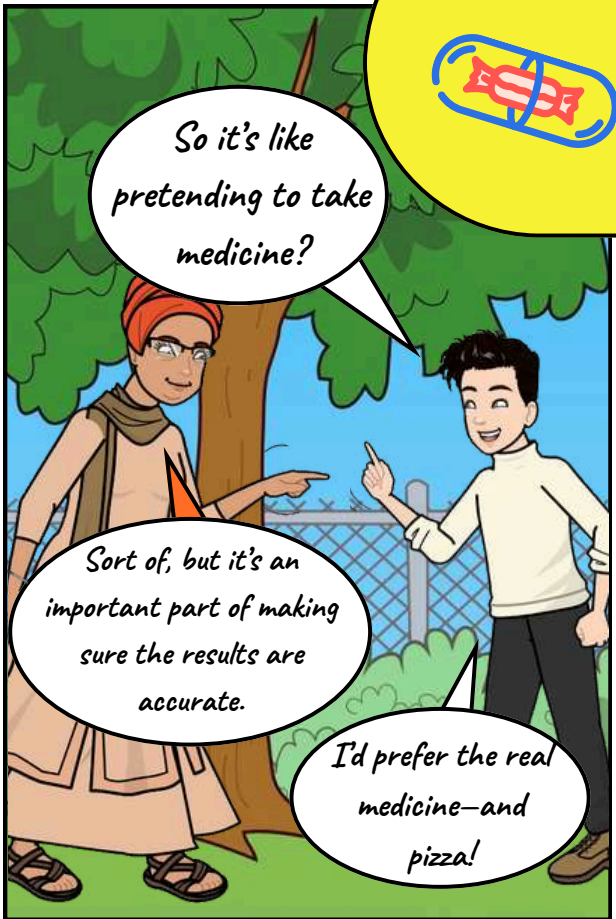
So, did the medicine help you feel better?

I felt great, but I didn't know if I was taking the real medicine or a placebo.



Wait, what's a placebo?

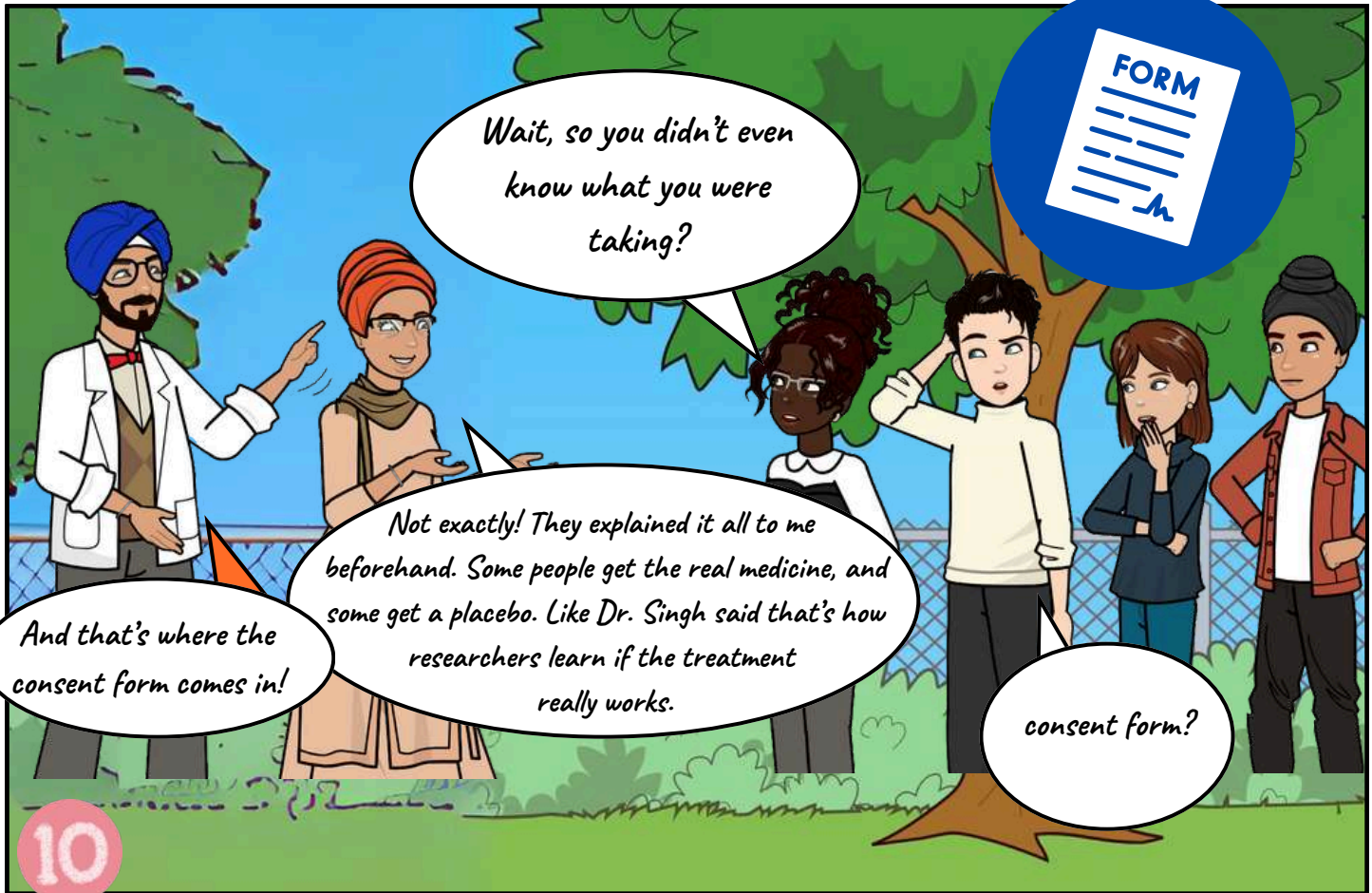
Great question! A placebo looks like the real medicine but has no medicine inside. It helps us compare and see if the real treatment works better.



So it's like pretending to take medicine?

Sort of, but it's an important part of making sure the results are accurate.

I'd prefer the real medicine—and pizza!



Wait, so you didn't even know what you were taking?

Not exactly! They explained it all to me beforehand. Some people get the real medicine, and some get a placebo. Like Dr. Singh said that's how researchers learn if the treatment really works.

And that's where the consent form comes in!

consent form?

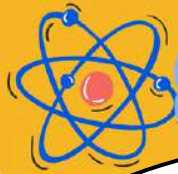
Consent Form

You are invited to participate in a diabetes research study to help us learn more about the causes of diabetes and develop better treatments. Your participation is completely voluntary, and you can withdraw at any time. If you agree, you will be asked to:

- Complete a questionnaire about your health and lifestyle.
- Provide a blood sample during your next visit.
- Take the study medicine as directed, which may include either the treatment being tested or a placebo (a substance that looks like the medicine but does not contain the active ingredient).

All procedures, risks, and benefits will be explained to you before you decide to participate.

Your signature. _____



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A Consent form is a form that explains everything—what will happen, the possible benefits and challenges, and what the study hopes to achieve.



So, participants know what to expect before joining?

Exactly. The form helps participants understand everything, and they can ask questions.





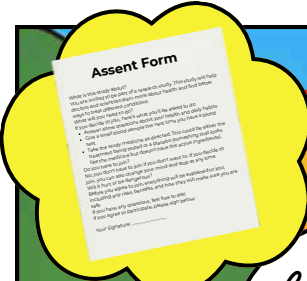
That's nice. Did they give you a prize for participating?



Not a prize, but they did compensate me for my time and travel. Plus, they covered all the medical expenses during the study.

So, you were like a science VIP!

Kind of! But the real reward was getting a new treatment that helped me manage my diabetes better.



Can I join a clinical trial too?



If I join, does that make me a hero too?

Good question! For kids, it's a little different. They need their parents' permission and also need to agree themselves. That's where an assent form comes in.



SCIENCE FAIR

Not homework—more like a way to say 'yes' to the study! It's a simpler version of the consent form for kids to understand what they're signing up for.

What's an assent form? Is it like homework?

Wait, kids get their own VIP forms? Sweet!



But what if they don't want to join?

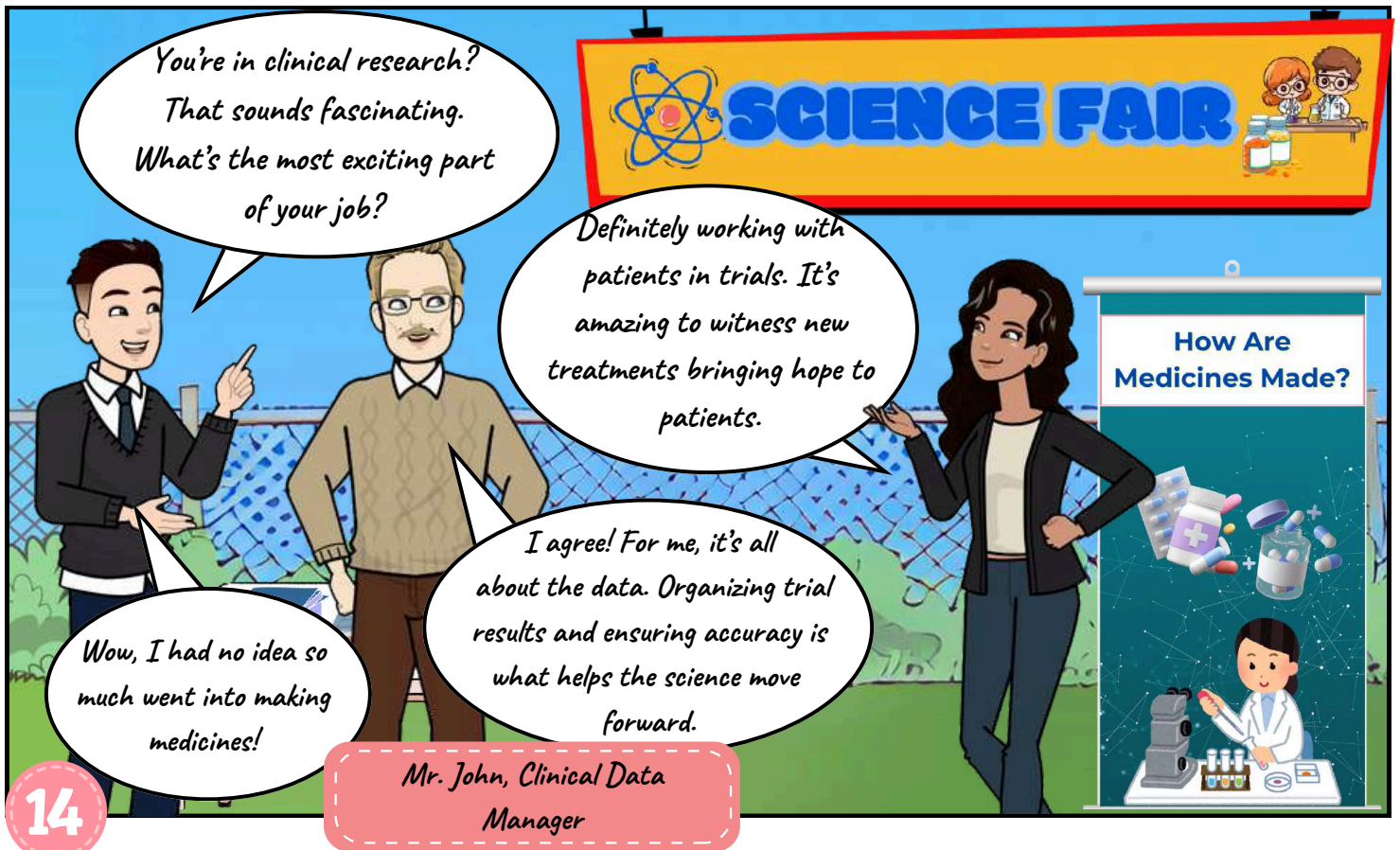
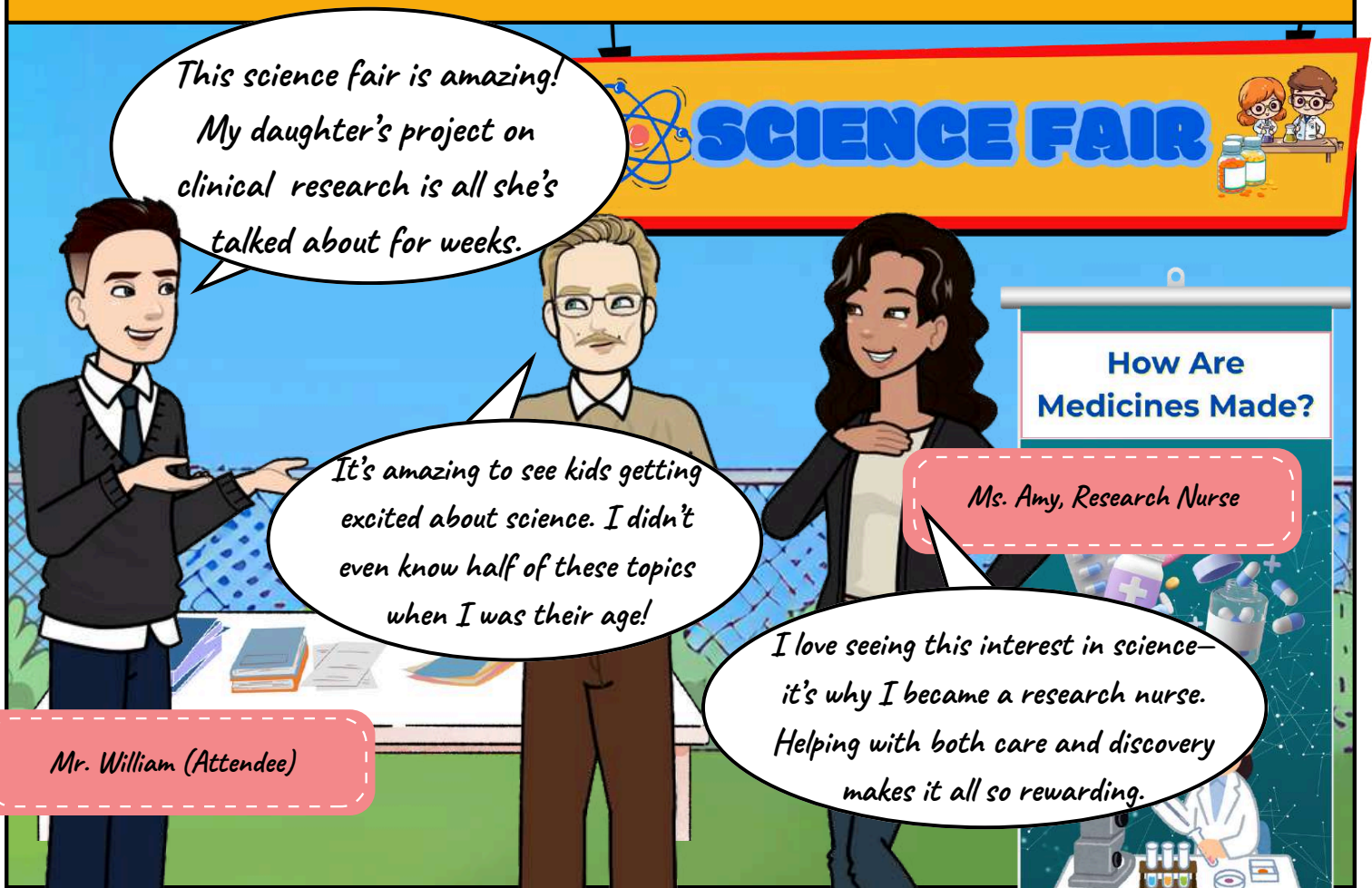
That's okay! Kids can say 'No'. Doctors always make sure they're comfortable.



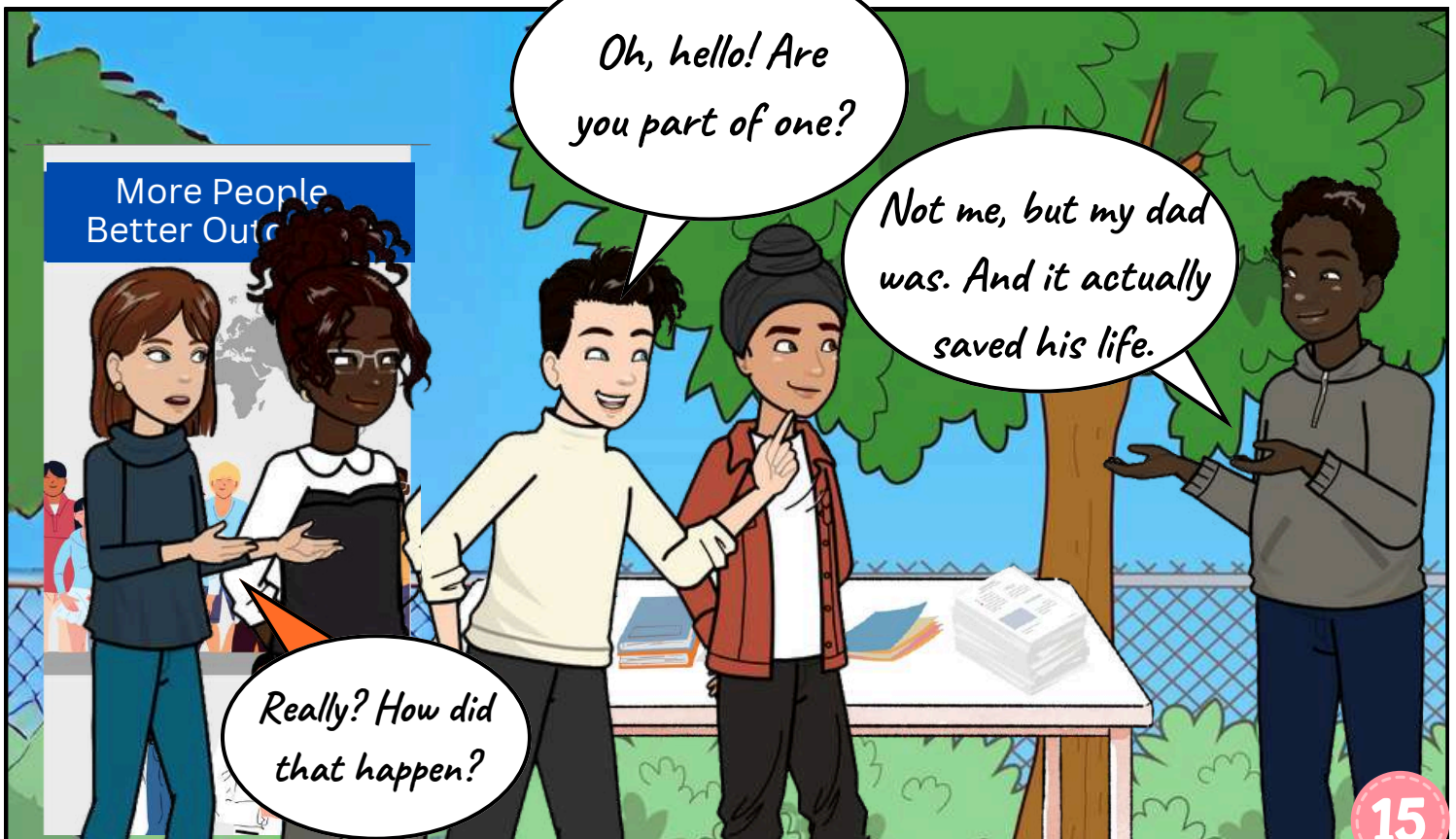
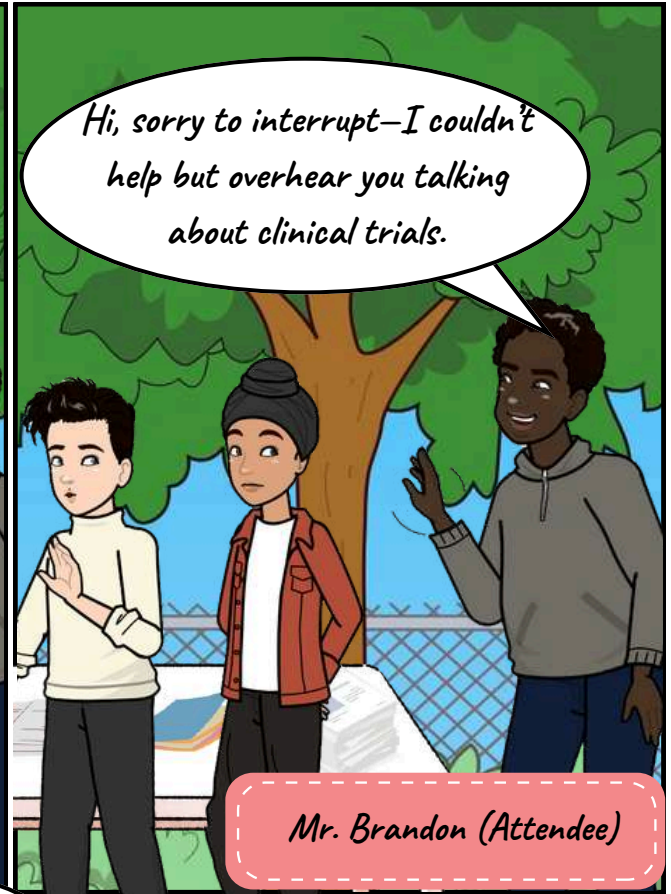
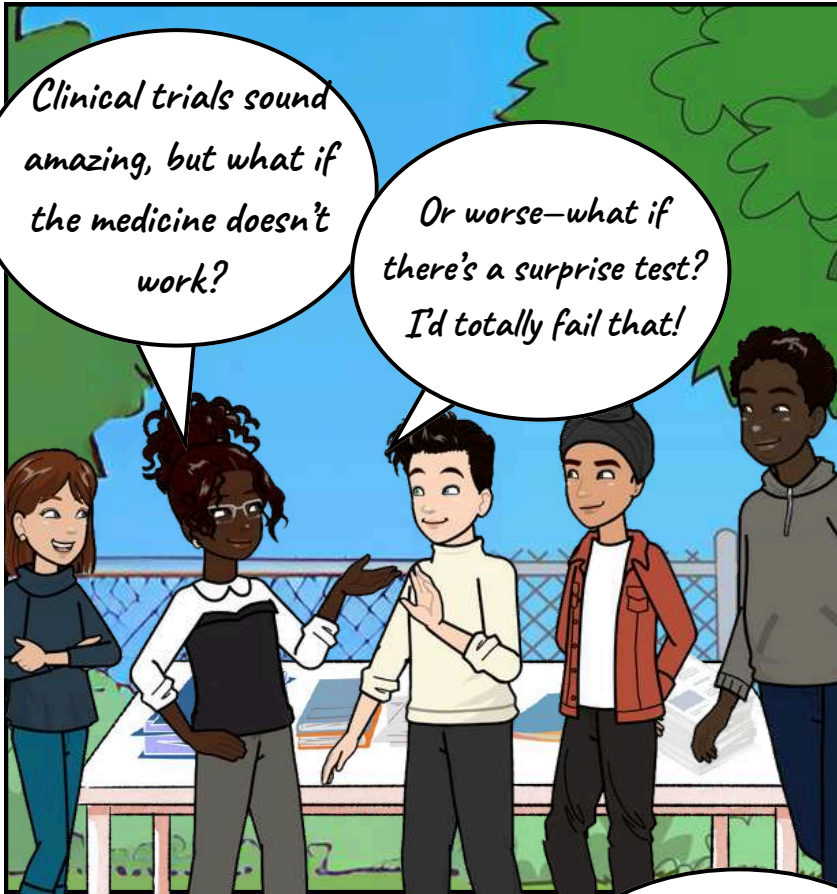
Good. I'd only sign up if pizza is included.

Ethan, you're impossible!

Event attendees having a conversation



Jot and his friends discuss clinical research when another attendee joins the conversation.






More People,
Better Outcomes

Well, he had cancer
and nothing was working, but after joining
a clinical trial for a new treatment, his
symptoms improved, and he's
doing better now.

That's incredible!
How did you feel about
it?

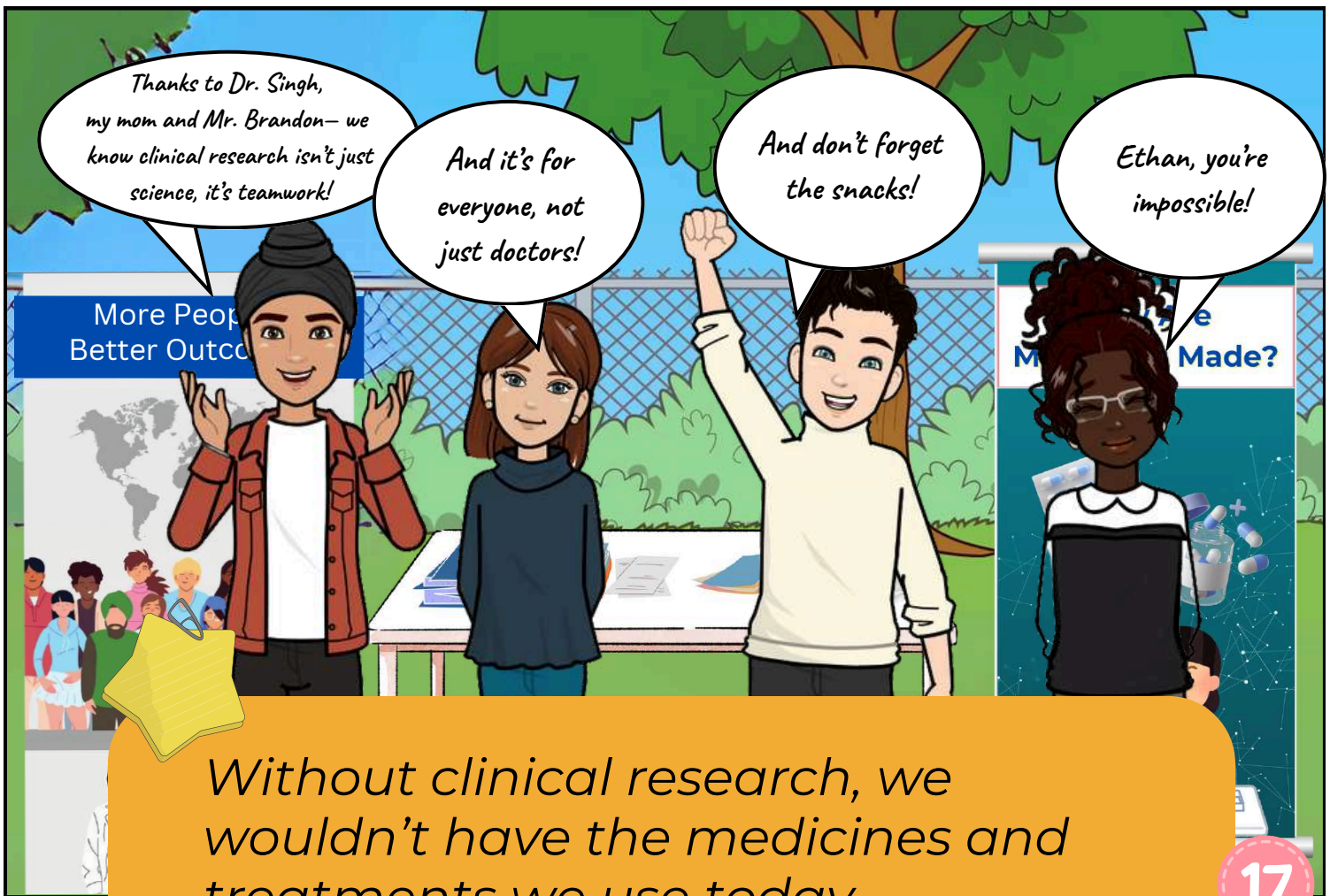
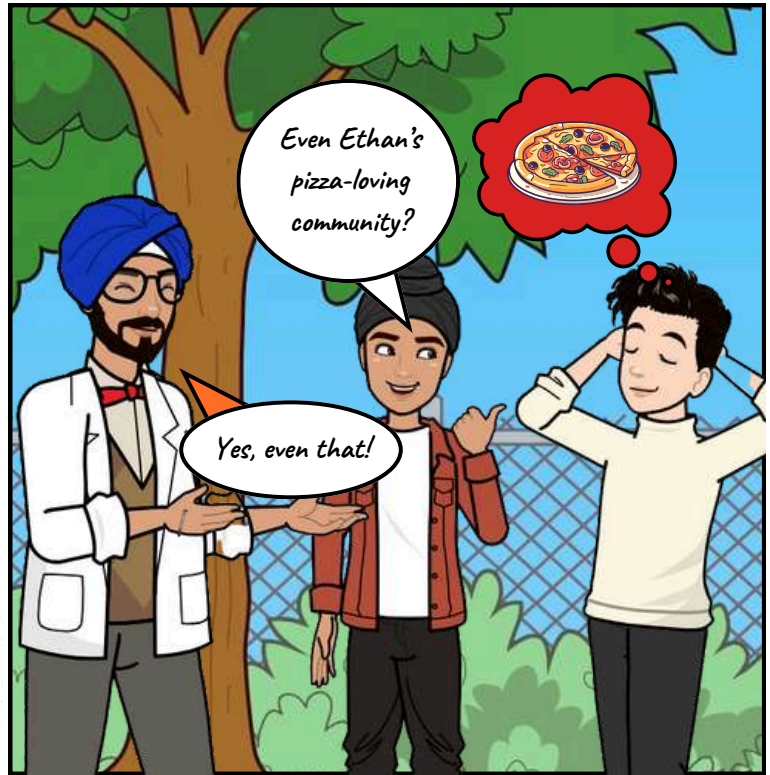
At first, we were scared.
But when we were running out
of options, clinical research gave
us hope.



That's exactly why clinical trials are
so important. They test treatments
when other options fail, offering people
hope for a second chance.

So, it's not just about
testing new medicine—it's
about saving lives?

Exactly. Clinical trials
can offer treatments that
might not be available
anywhere else.



Without clinical research, we wouldn't have the medicines and treatments we use today.

Word Search:

D L Q M V Q M J E U A D P C W
C F L E N C L I N I C A L O I
V E U D Q P K S R J F N L N N
Q T C I L P A R F R M Y P S J
C L J C W H S T V E B Q H E W
J S N I O A G L I S S F Y N E
R E Y N Q S N G L E L O H T I
F D V E O E L A N A N G B C O
P Y H F L T I Y E R D T W B G
L Y S C R R R S P C F E R N E
A V I S T O R Z X H Z G Q P L
C F A J T C R S L Y N O G Q I
E A J C M F Z U W M L X P G K
B M O B Q H E O W T P H C U G
O D F D C E J V A C C I N E W

CONSENT
TRIAL
PLACEBO
PATIENT
DOCTOR
RESEARCH
VACCINE
MEDICINE
PHASE
CLINICAL

Remember :

- Clinical research saves lives by creating safer and better treatments for everyone.
- Every medicine we take today started with volunteers who joined clinical trials.
- Including a range of people in clinical research helps ensure treatments work for everyone.

You can be a part of this journey too!

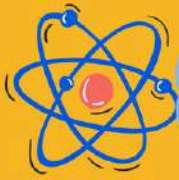
By asking questions, learning your options, and sharing stories, you can help build a brighter and healthier future for everyone!

Key Takeaways:

1. Stay curious about how science helps people.
2. Respect and celebrate all backgrounds in health and medicine.
3. Be proud of your role in supporting advancements in medical research!

Together, we shape the future of medicine—one discovery at a time.

Clinical Research Saves Lives!



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