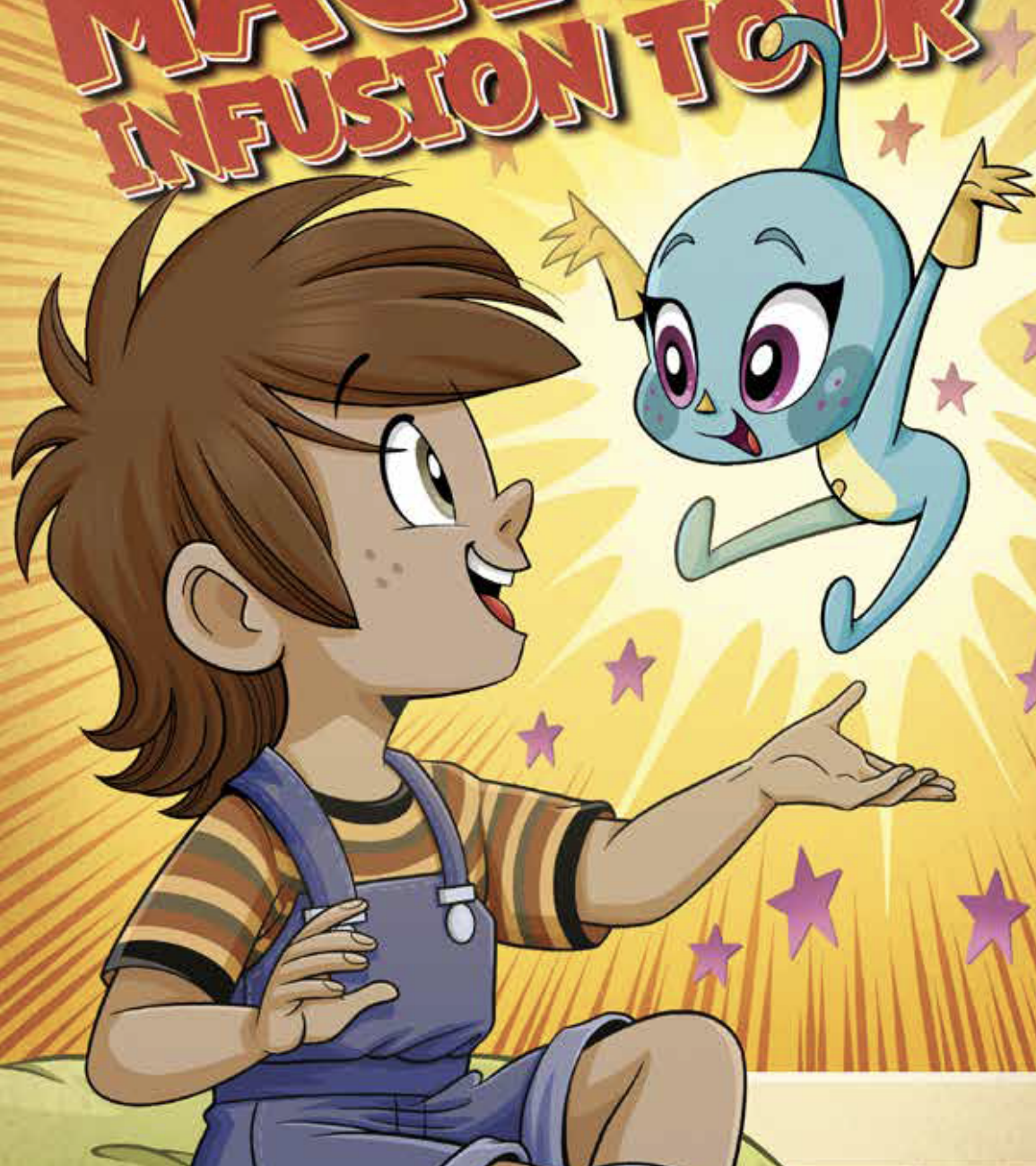


ZEE'S MAGICAL INFUSION TOUR





**This book
belongs to**



This is Charlie's bedroom,
in the middle of the day.

It feels hard to be inside when other kids go out to play.
But the doctor said that Charlie needed to have an infusion.
And of course this led to many questions, worries
and confusion.

Now, Charlie's very smart,
talented and good at listening
to words the doctor says like Primary Immunodeficiency.
"PID" for short, it's why Charlie has been sick.
And the reason that today's the day there is a tiny prick.

Charlie has to sit and read some
books or play with toys

as the medicine goes in and finds some germs
to help destroy.

Still, there's many things that Charlie just
does not quite understand.

It'd be nice to have a friend along the
way to lend a hand...





See if you can
find these
items hidden in
Charlie's room!

A teddy bear
A toy dog
A worm
A medallion



DID YOU KNOW?

An infusion is a way to get medicine
into your body!



That's when Charlie is
surprised to hear a
magic "Peekaboo!"

Hi Charlie! I am Zee
and I'd love to speak with you!"

Glowing blue and brightly, Zee has the warmest smile.

"I've been thinking about you
and your IgG infusion for a while.

I know it isn't something that you really want to do.
But I have a feeling that you know it is what's best for you.
Your body will be grateful, you're showing it you care!"

Charlie could not believe it,
and just giggled with a stare.

Who was this Zee creature?
They were really cute and funny.

And why did they have a bandage that
was glowing on their tummy?

That's when Zee said
"I know exactly how you feel.
Ask me any question and I'll tell you the deal!"







“What’s an Ig infusion?”

“It pumps up your immune system’s power
by giving antibodies at your treatment time and hour.
I call it “Superjuice” because it builds up your protection
to make your body stronger to defend against infection.”

“I have another question, why do I need antibodies?”

“Because germs are on the loose getting
mean and acting naughty,
causing lots of trouble from the inside to the out!”

Charlie paid attention closely but
Zee could sense the doubt.

“How about if I show you?” Zee had a brand-new plan.

“What if instead of talking,
you could SEE it all firsthand?
I can share it on a special phone
to give you lots of wisdom
as I take you on a guided tour of your
immune system!”





DID YOU KNOW?

“Superjuice” isn’t something you drink! It’s the nickname I call IgG medicine because it’s a fluid that carries immunoglobulins to help strengthen the immune system.



Charlie got excited, this idea
sounded fantastic

as Zee quickly shared a new and shiny magic tablet.

“Here, take this special phone device,
and I will take one too

as I help with your infusion
and go inside of you!

I’ll join the antibodies and
protectors on the ride

inside the Superjuice, consider me your special guide!

As it pumps in I’ll slide along inside the plastic tube.

Watch out germs ‘cause here we come your
dirty days are through!

With my good friends along
I know that we are sure to win!

I can’t wait until you get to meet immunoglobulins!

They are the super soldiers who will lead us all the way
to bad bacteria and viruses we want to go away!”







DID YOU KNOW?

When it's time to have your infusion you should always have an adult with you.



“Ok! It’s time for me to shrink
down and travel subcutaneous.

That means to go *under your skin* and then you
have to wait a bit

while your blood gets boosted and ready for the fights.

Don’t worry, I’ll be here with you to show you all the sights!

Before infusion you can get some
cream to numb it if you please

(I like the way it feels like a tickle or a freeze!).

Then you can help by sitting down to keep it in its place
with a little bit of tape so no Superjuice escapes.

The race is just about to start
so let me join the team.

I’m honoured just to be a part of your treatment routine.
Since your body’s running low on proteins that it requires,
this infusion will replace the antibodies
it desires.”







“Hey Charlie, look! I’m here with
some friends you have to meet.

These are immunoglobulins and germs they will defeat!

You can think of them as brave soldiers
fighting in our bodies.

Guarding what’s inside of us as special antibodies.

They’re excellent protectors from
things that make us sick.

But when we’re running low on them we need
some new ones quick!

That’s why they’re going in as you’re starting your infusion.
They’re on a mission giving your immune system a boostin’!

With your body’s help they’re
going to fire every virus!

Fungi will be finished! Bad bacteria? Just try us!

Germs will scurry in a hurry, they won’t know what hit ‘em.

Now it’s time to journey into
your immune system!”





MAZE CHALLENGE!

Charlie's infusion has begun!
Help Zee and the immunoglobulins
defeat all the germs in
Charlie's body!

Instructions: Use your finger to guide Zee through the maze challenge on the right, starting on Charlie's leg. Make your way to the end of the maze by defeating the germ challenges along the way.





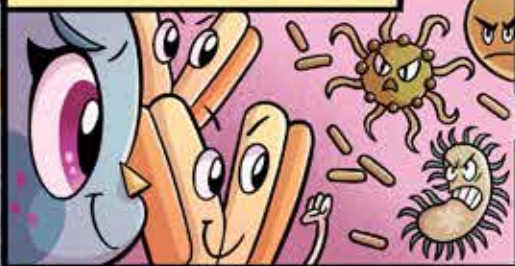
START



FINISH



GERM CHALLENGE #1



GERM CHALLENGE #2





“Zee?”

“Yes Charlie?”

“What are you doing now?”

It looks like you’re playing at a magic playground.”

“We are!” Zee shouted. “And it was built by you!

All of these blood vessels and the cells that travel through!

There’s white cells and red cells
floating in the stream.”

“I can’t believe what I’m seeing, it looks like a dream!

Why are some blood cells white and some of them are red?”

“The white ones defend and the
reds help keep you fed!

And speaking of defenders,
here’s a tough B-cell.

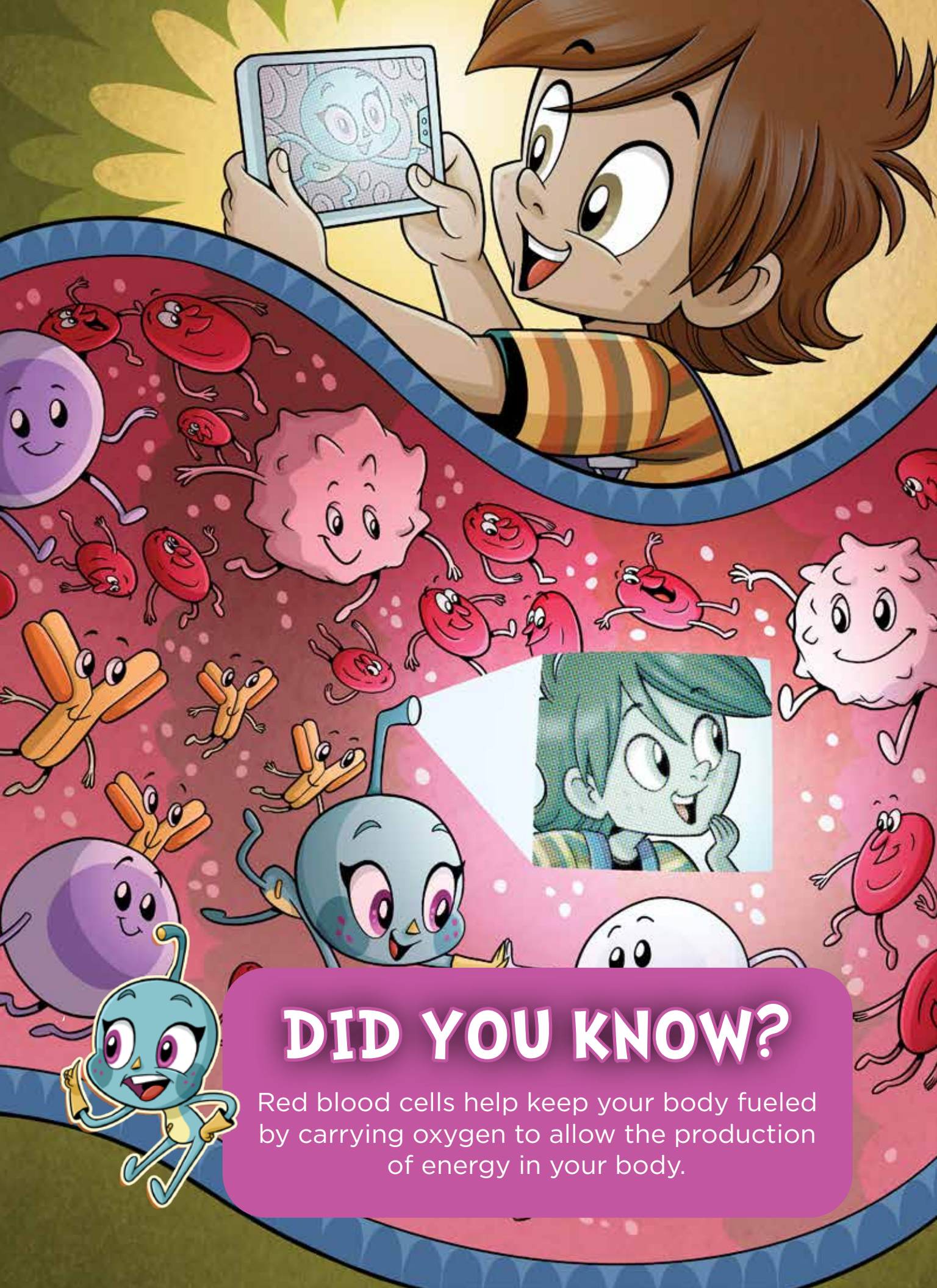
They’re the protectors who help us keep well.

They make immunoglobulins
for infection-fighting.

Having fun yet Charlie?”

“Yes it’s exciting!”





DID YOU KNOW?

Red blood cells help keep your body fueled by carrying oxygen to allow the production of energy in your body.



DID YOU KNOW?

Did you know this book has a glossary section in the back? Use it to learn more about the different cells, germs and terms you find in the story.



“We’re just getting started!
Take a look right here!”

Those are T-cells telling us the germs are getting near.

T-cells work hard in many places in our body.

They let the B-cells know when we need antibodies.

The T-cells are known as three
kinds of lymphocytes:

Killer, Helper and Regulatory are the different types.

In your immune system they play an important role.

Sending signals in response to threats to help control.”

“They’re making antibodies?”
Charlie says. “Immunoglobulins!”

“You’re right!” Zee yells. “It’s the backup they’re calling in!”

The T-cells and B-cells are fighting the invaders.

Pathogens, germs and viruses? See ya later!”





DID YOU KNOW?

Phagocytes can send signals to other phagocytes to help them eat germs!

SEEK AND FIND

See if you can find: Germs on chopsticks, a soup ladle of germs, a bag of chips, a germ lollipop, a giant bucket of germs, an apron, germ pasta, a germ muffin, a baseball hat, germ pizza, a germ sandwich, a germ slurpee.

“It’s lunchtime in the
all-you-can-eat germ cafeteria!

See these phagocytes eating parasites and bacteria?

Phagocytes are immune cells and really fun guys
who crave eating particles and crunching fungi.

Munch munch! Nom nom!
Gobble everywhere.

They call in other phagocytes because they love to share.
Their name means “cells that eat” as you can clearly see.
No matter morning, noon or night, they’re always hungry!

When you’re feeling sick or ill
they’ll always have your back.

Looking for germs to kill and then swallow for a snack.
They’ve got an appetite to help when viruses are vicious.
And even clean their dishes — every germ is so delicious!”



“The germs are on the move planning their next invasion.

But our team of super soldiers have pinpointed their location.

We’ve been looking from the ears to the nose to the chest.

But it looks like it’s your throat today they really like the best.

Cough cough! Oh excuse me, I need to rest a minute.”

“Zee? Are you alright? Please tell me what is it?”

“Well, Charlie, as you might have guessed, I am just like you.

I get infections and pneumonias, and I think I have a flu.

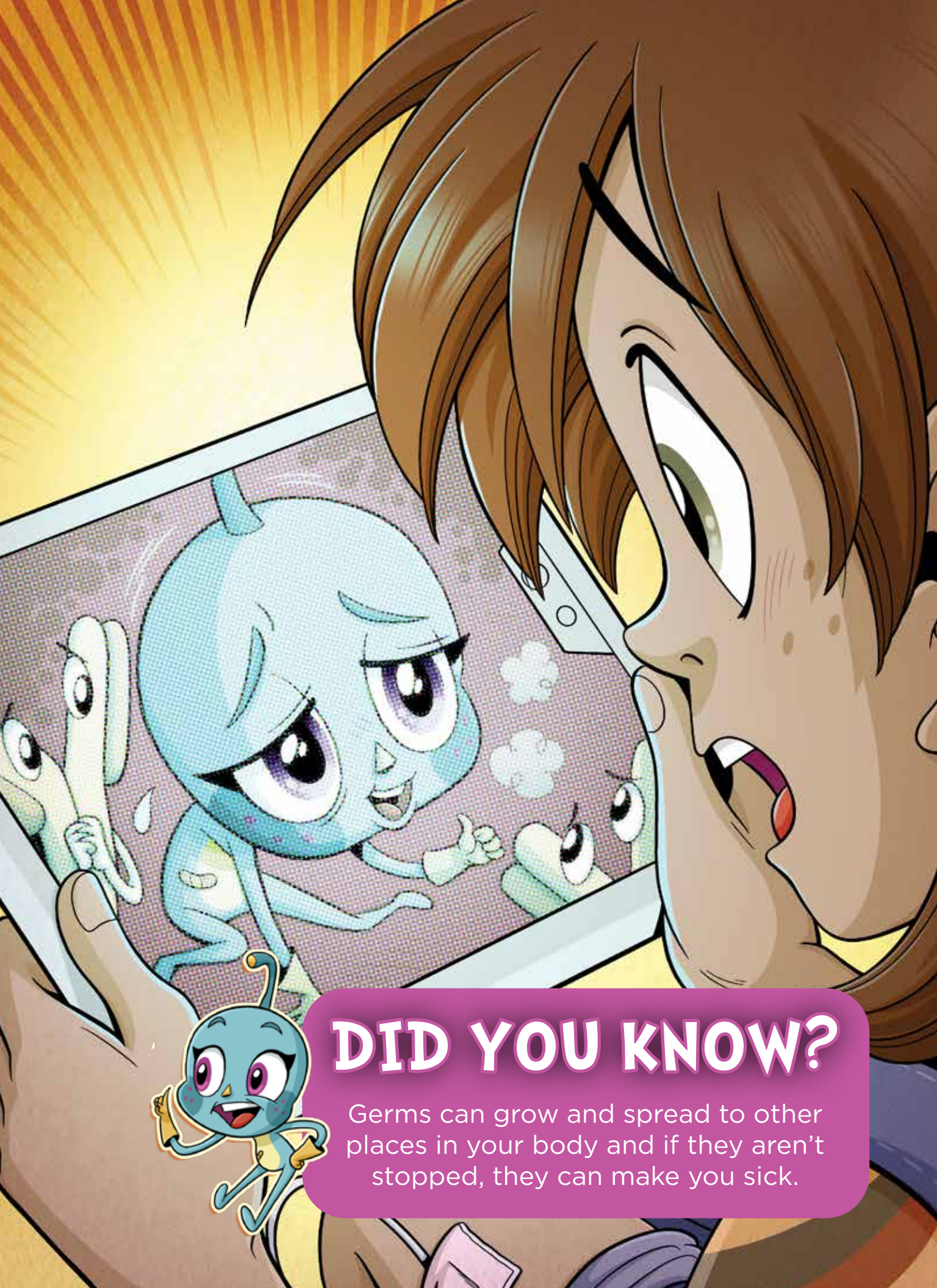
I’m used to having PID and I know the conclusion

is that it’s almost time for me to have my next infusion.

I’ll be okay, just let me show you this one event.

Where we beat the germs with help
from the Complement!”





DID YOU KNOW?

Germes can grow and spread to other places in your body and if they aren't stopped, they can make you sick.



DID YOU KNOW?

Protector cells are found in our immune system and protect us from being sick. These include B-cells, T-cells, phagocytes and the complement system.



“The Complement System is another special protector

that is made of many helpful pieces all working together.
With phagocytes and immunoglobulins against infection,
it clears out germs faster in a battle for your protection.

Check it out — your protector cells are clobbering the germs!

I love watching pathogens and
bad bacteria squirm.

Take that, vile viruses — all of you are crummy!

We’re stopping stuff that makes you sick or
really hurts your tummy.”

“Wow!” says Charlie. “This happens every infusion?”

Superjuice helps my protectors win so germs
can start losing!”

“You got it, Charlie!” Zee yells. “Ding Ding Ding!

Now you know how to be prepared
for anything!”





“Hooray! We did it!
Charlie, you have been a star!

With your Superjuice and soldiers I know that you’ll go far.”

“Thank you, Zee, for everything you taught me!
From B-cells to T-cells and all the antibodies.

The phagocytes with appetites
who love germ gobbling.

And I’ll never forget my new friends, immunoglobulins!
You answered all my questions, worries and confusion.
I finally know exactly why I need my infusion!

Now it’s time for *your* infusion,
let me help at your service.

Take a seat on my bed and hold my
teddy if you’re nervous.

I’ll get the plastic tube, the tape
and *here, look...*”







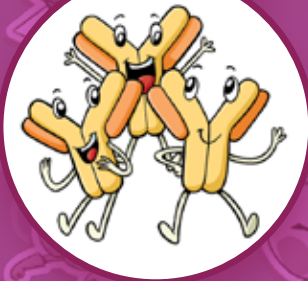


“I’ll sit right next to you and
we can read
this book!”

THE END

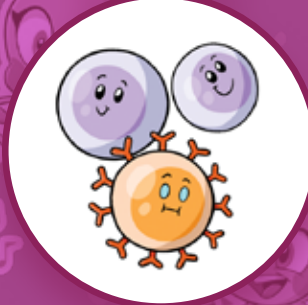
GLOSSARY

ANTIBODIES



Proteins made by B-cells that help fight infections. They are shaped like the letter "Y" and attach themselves to germs.

B-CELLS



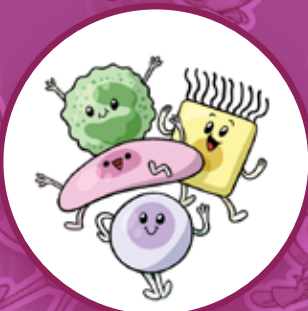
A type of white blood cell in your immune system that makes antibodies.

BACTERIA



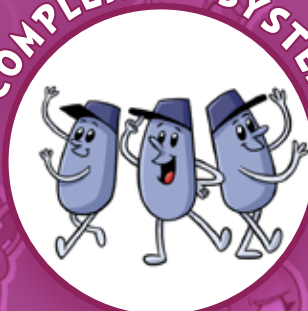
Teeny tiny bugs made up of just one cell. Some bacteria are good, but bad ones can cause infections. Medicines called antibiotics help treat bacterial infections.

CELLS



Cells are the building blocks of all living things. You have trillions of cells that make up everything in your body.

COMPLEMENT SYSTEM



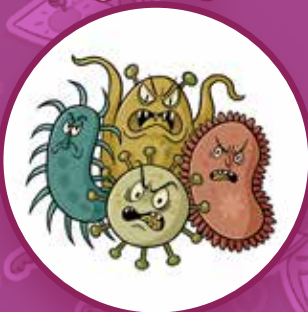
A group of proteins that work together, like a team, to fight germs.

FUNGI



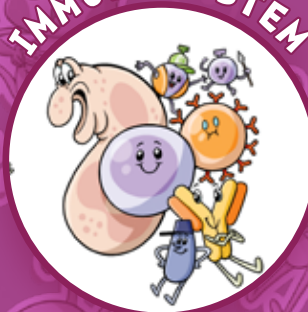
A type of germ that looks like a little plant. They can cause fungal infections.

GERMS



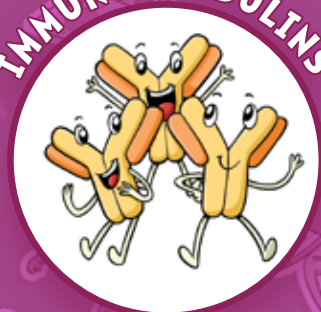
Foreign invaders like bacteria, viruses, fungi and parasites that can come into our bodies and make us sick. Washing your hands helps keep germs away.

IMMUNE SYSTEM



A group of protectors that works together to defend us against germs that come into our bodies and make us sick.

IMMUNOGLOBULINS



Another word for antibodies. There are different types of immunoglobulins that help fight infections.

What does that mean?

INFECTION



Infections happen when germs get into your body and make you feel sick.

INFUSION



One way to get medicine into your body. In PID, an infusion gives you the antibodies you need to fight infections.

LYMPHOCYTES



White blood cells, including B-cells and T-cells, that play key roles in your immunity and immune responses.

NEUTROPHILS



A type of white blood cell essential for fighting bacterial infections. They are also a type of phagocyte.

NUMBING CREAM



A cream you can put on your skin before an infusion. It might feel a little funny at first, but it'll help you get ready for your medicine.

PARASITES



Another type of germ that could live on or inside a person's body and harm them.

PATHOGENS



A big word that's just another way of saying "germs". These could be bacteria, viruses, fungi or parasites.

PHAGOCYTES



Phagocytes are another type of protector we have. They kill germs by eating them.

PID

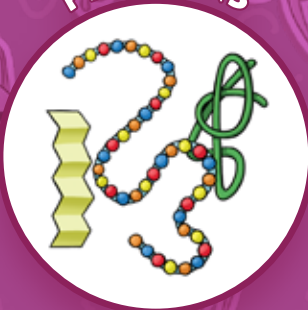


(PRIMARY IMMUNODEFICIENCY)

A condition some people are born with where their immune system is not working properly so they get sick more often.

Big words, simple meanings

PROTEINS



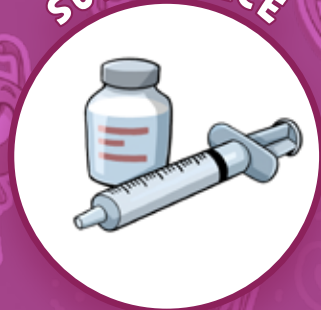
Proteins are tiny structures in our bodies. Different proteins have different jobs to do to keep our bodies working.

SUBCUTANEOUS



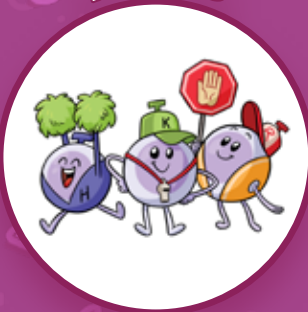
This is a big word that means "under the skin". Some medicines are given under the skin.

SUPERJUICE



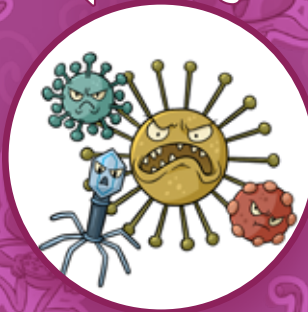
This is not a juice you drink! It's a name for the medicine that will make you stronger.

T-CELLS



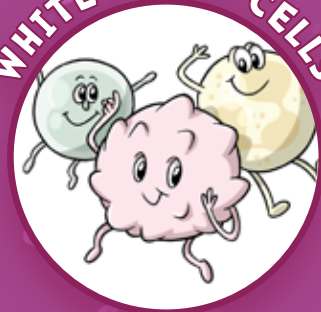
T-cells are an important part of the immune system. They help with finding and destroying infected cells to protect you from disease.

VIRUSES



Another type of germ that is even smaller than bacteria. Inside the body, viruses spread and make you feel sick. Colds and flus come from viruses.

WHITE BLOOD CELLS

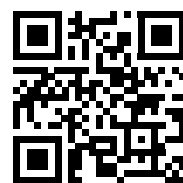


A group of cells that include neutrophils, lymphocytes and others that work together to fight infections.





You can listen to the audio version of
this book at JourneyToInfusion.com



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PLUS 
PATIENT SUPPORT PROGRAM

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