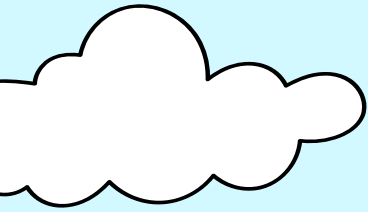
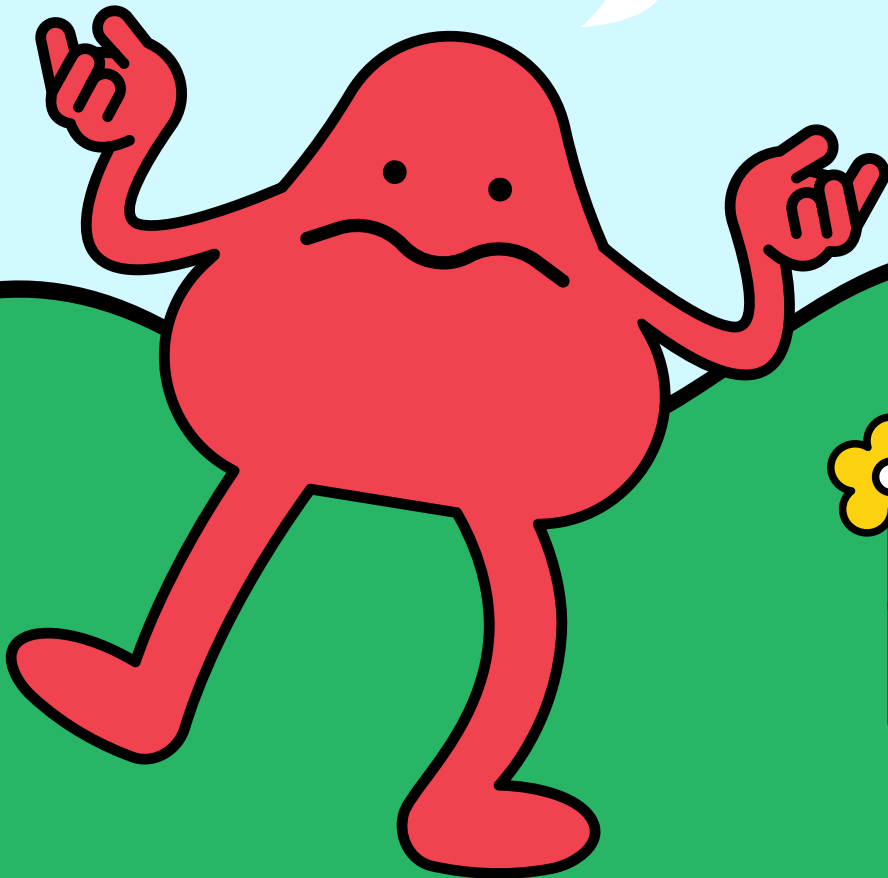


Haemophilia



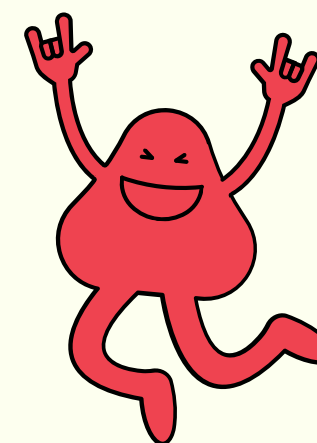
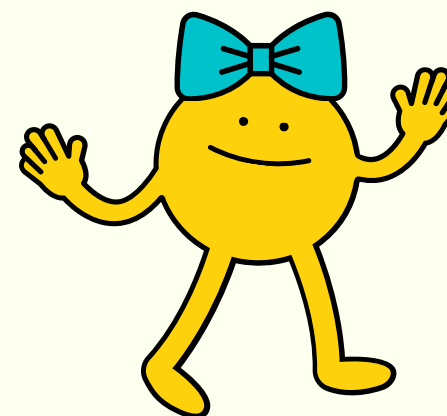
Hmm, what is it?



E

Jasmine Hotton, Jessica Leong
& Amelia Marsham

This book
belongs to:





LA TROBE EBUREAU

La Trobe University, Melbourne, VIC 3086, Australia
<https://library.latrobe.edu.au/ebureau/>

Published in Australia by La Trobe eBureau
© La Trobe University 2024
First published 2024

The La Trobe eBureau is one of Australia's leading open access publishers. Our mission is to create high-quality resources for online and blended subjects, at zero cost to the student. Our published titles have been adopted by academic institutions around the world, granting our authors international recognition.

All our publications are peer reviewed to ensure a high standard of published content.

If you are an instructor using this book we would love to hear from you. If you are using it in your learning and teaching, have suggesting for improvement or any other general enquiries.

Contact us via eBureau@latrobe.edu.au.

Copyright information

Copyright in this work is vested in La Trobe University. Unless otherwise stated, material within this work is licensed under a Creative Commons Attribution-Non Commercial-Share Alike License.

CC BY-NC-SA



Haemophilia
Jasmine Hotton, Jessica Leong and Amelia Marsham
ISBN 978-0-6458388-2-4
DOI <http://doi.org/10.26826/1020>

Other information

This book has been peer reviewed
Layout design by La Trobe eBureau from template by Evi O.

Illustrations:

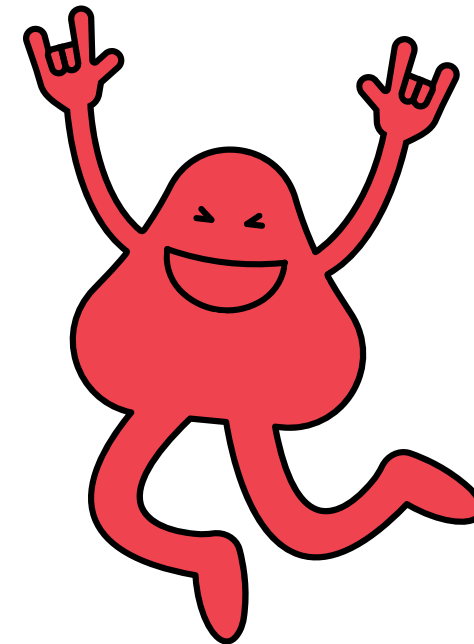
All illustrations are adapted from Canva graphics library used under [Canva free content licence](#).

'Speech bubbles' used throughout are by Evi O.

'Stop Hand Gesture Sign' (pg. 27) by Ariapsa from Pixabay used under [Pixabay licence](#).

'Grey banned/stop sign' (pg. 33) by Josy_Dom_Alexis from Pixabay used under [Pixabay licence](#).

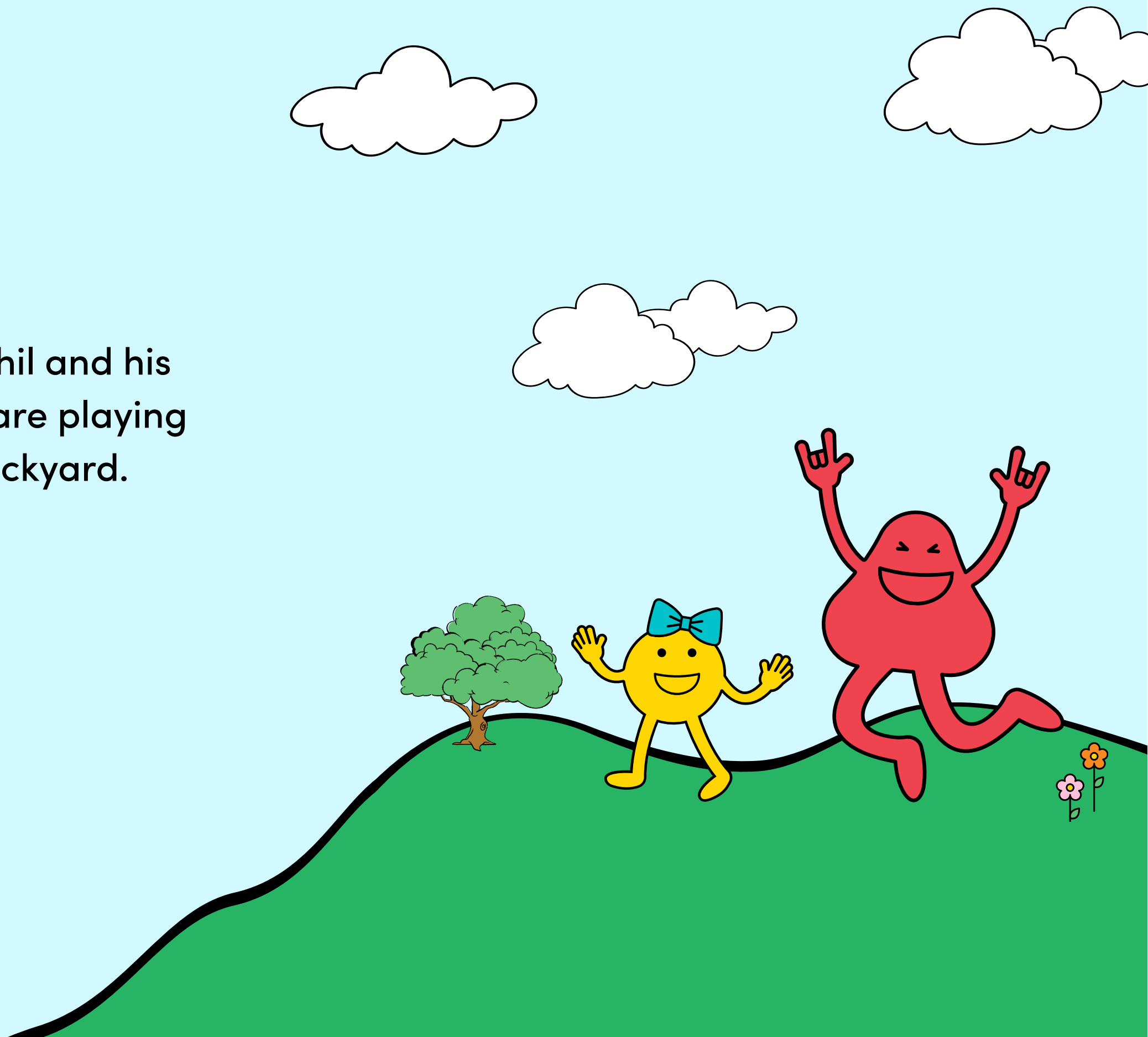
Haemophilia

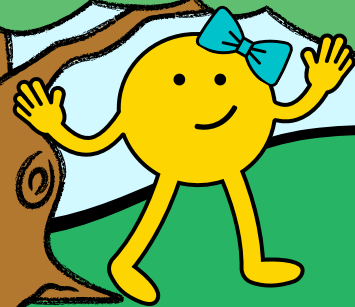
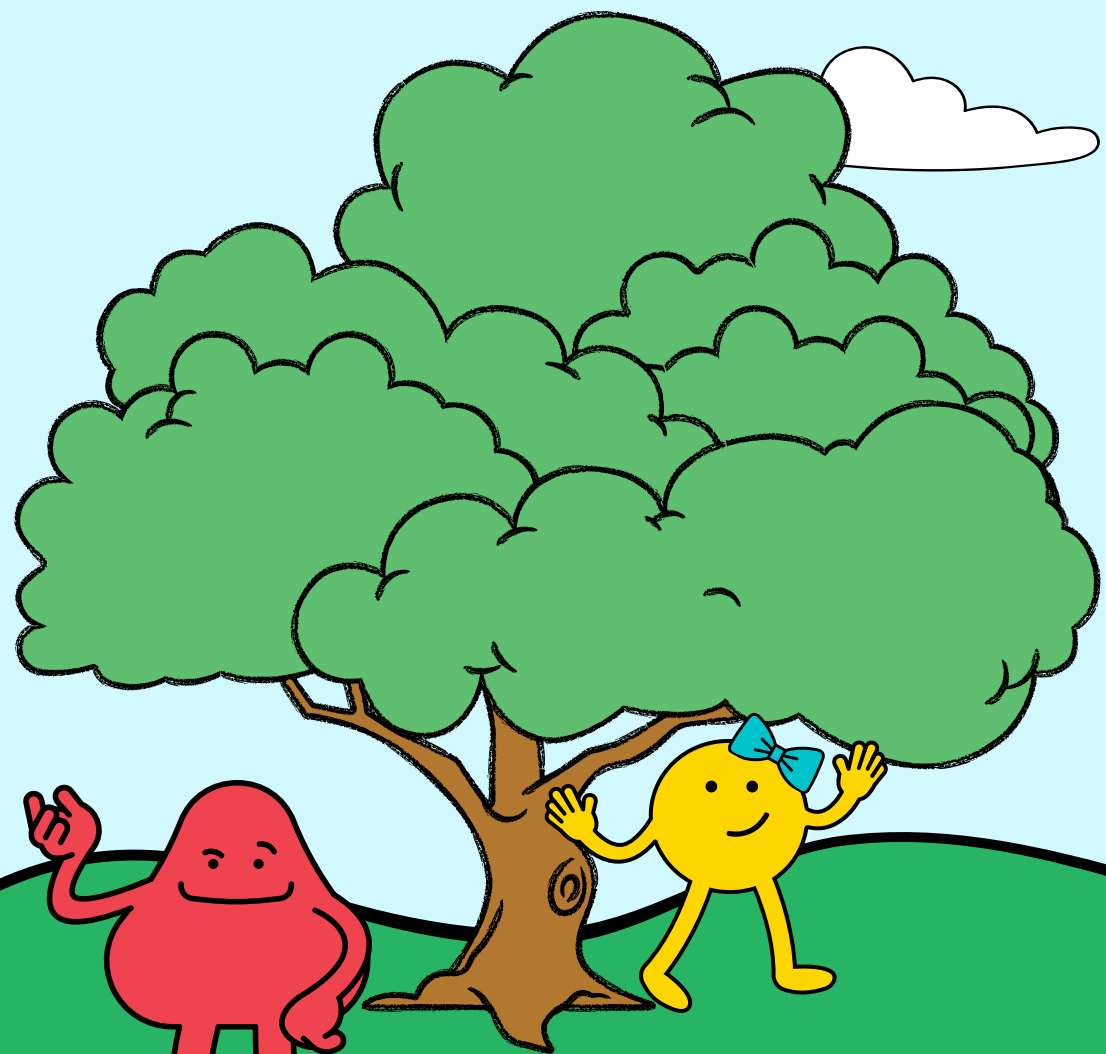


Jasmine Hotton, Jessica Leong
& Amelia Marsham



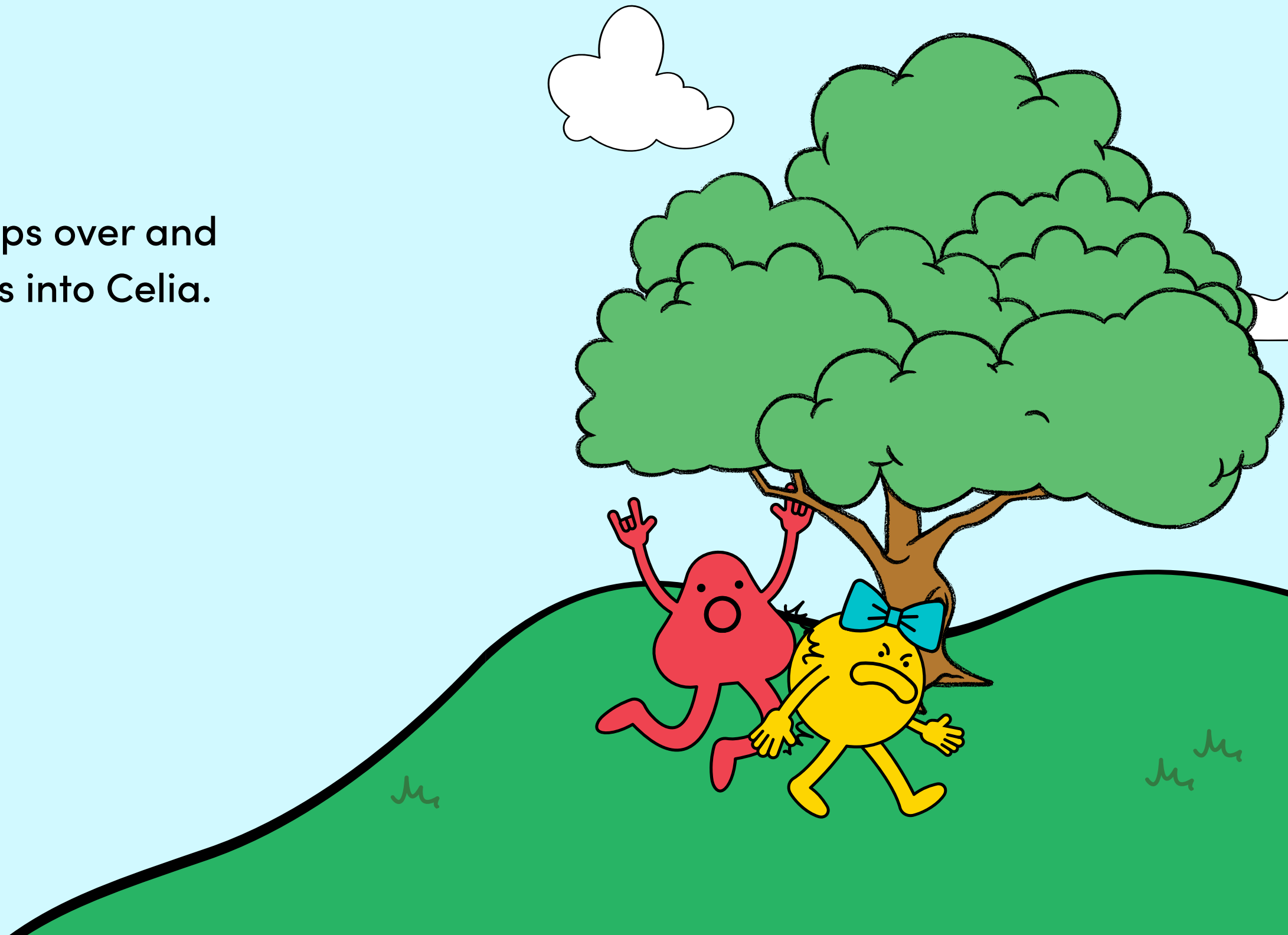
One day, Phil and his
sister Celia are playing
in the backyard.

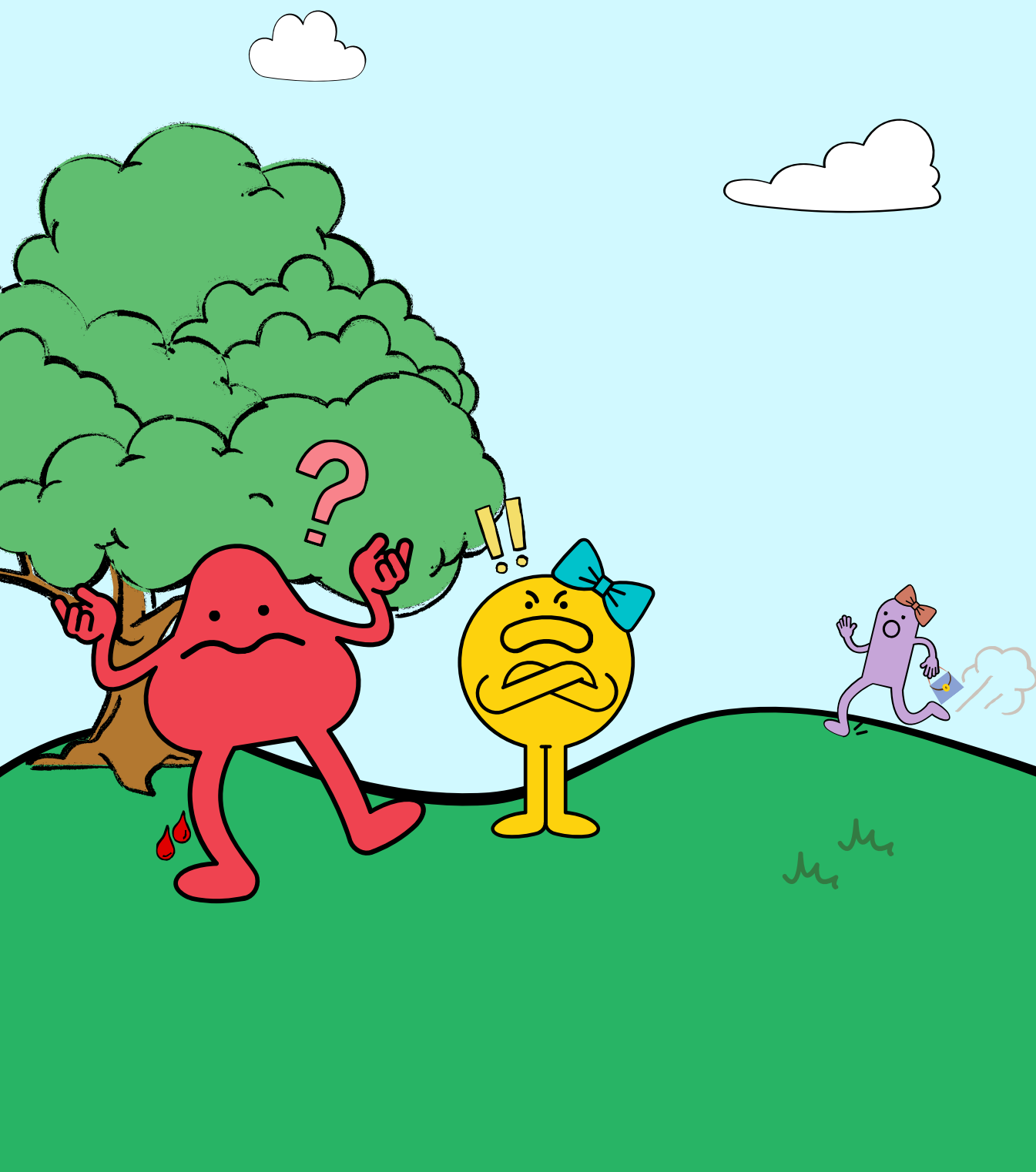




They are having fun running
round a tree until...

Phil trips over and
bumps into Celia.





Phil and Celia's Mum comes
rushing over in a panic!

“Oh no!” Mum says.
“We’ve got to go to the hospital.”

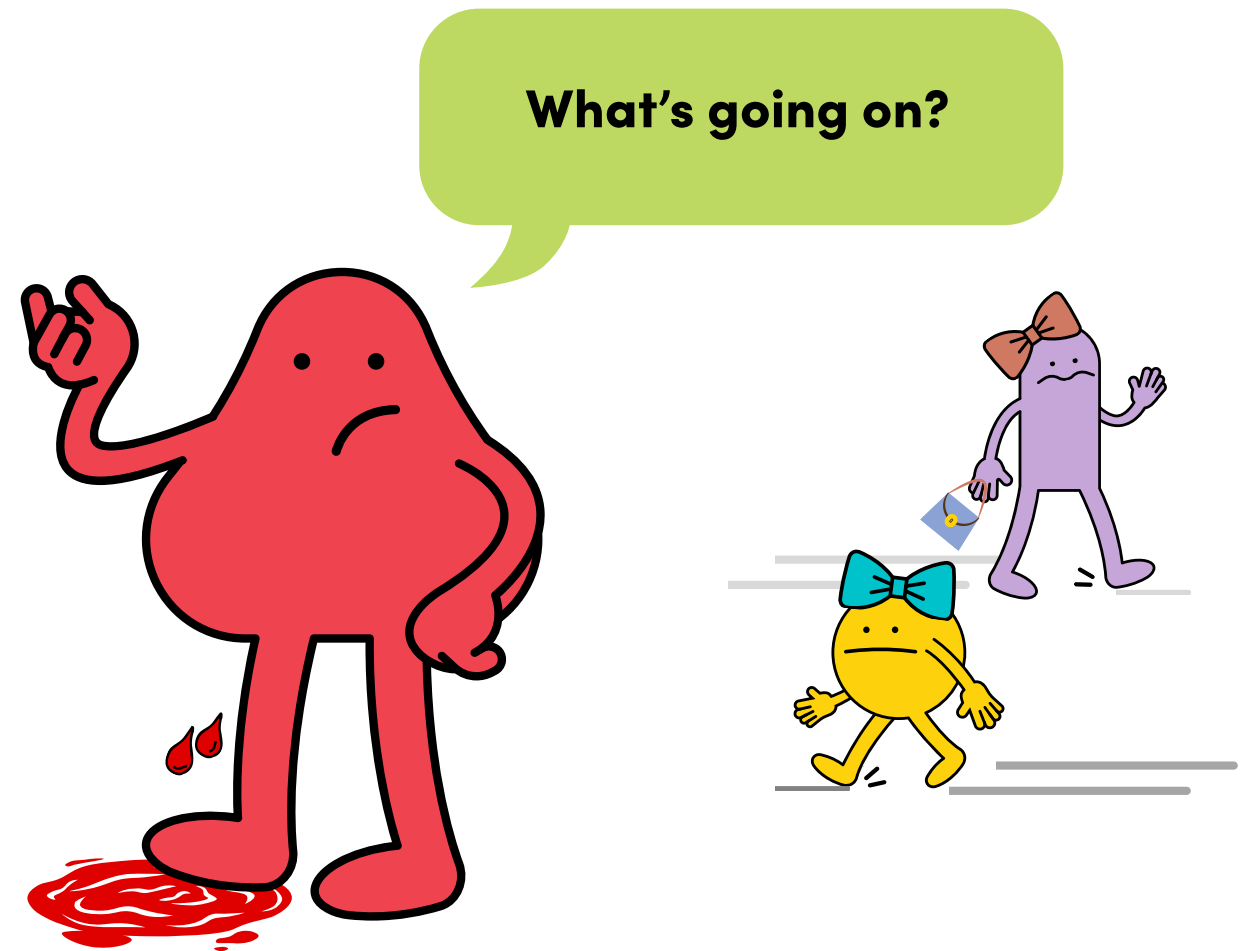
Mum sounds worried...



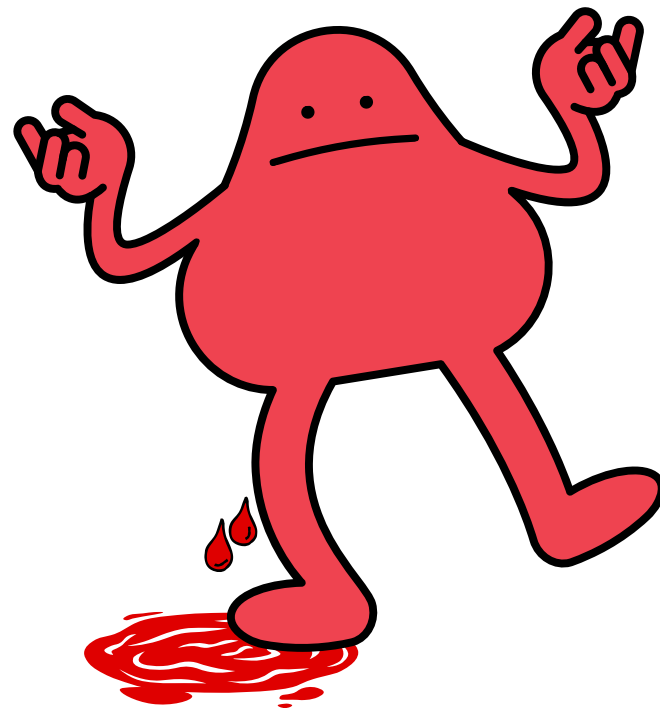
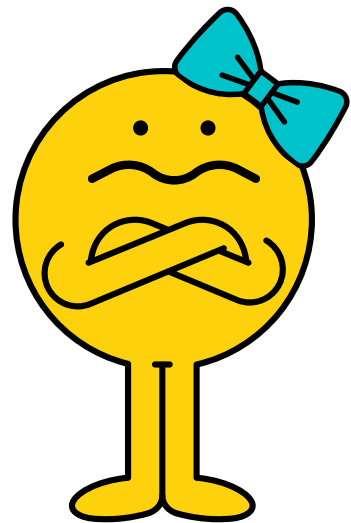


The doctor at the hospital says,
“Don’t worry, Phil. I’m just here
to make sure you’re okay.”

Phil has a cut on his knee
and it won't stop bleeding!



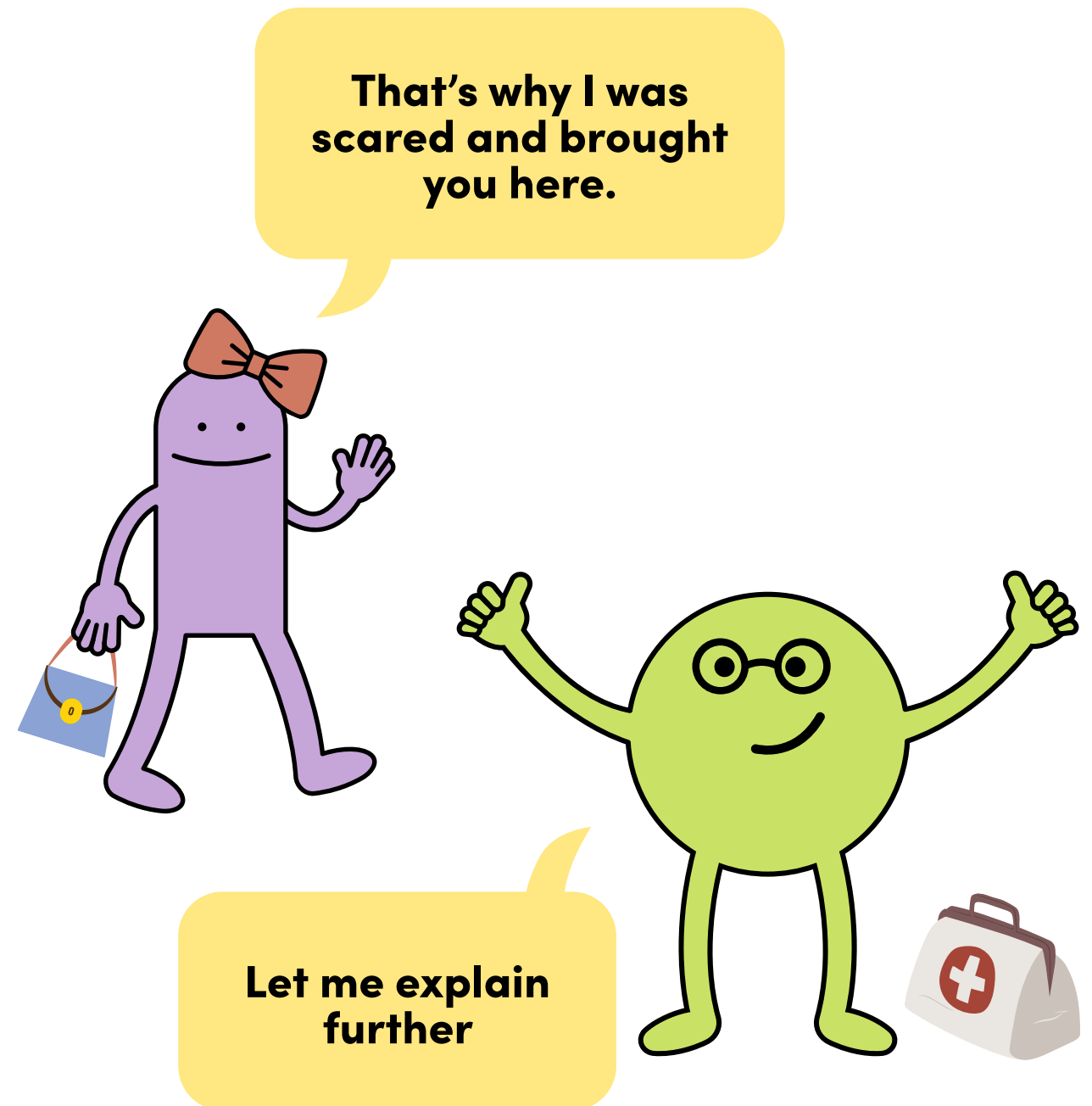
**What's
haemophilia?**



**“That’s because you have
haemophilia, Phil,”
says the Doctor.**

“Haemophilia is a rare health condition where if you hurt yourself you continue to bleed for a long time.”

“A lot longer than other kids who don’t have haemophilia.”



We are clotting factors!

I'm Clotting
Factor 8

I'm Clotting
Factor 9

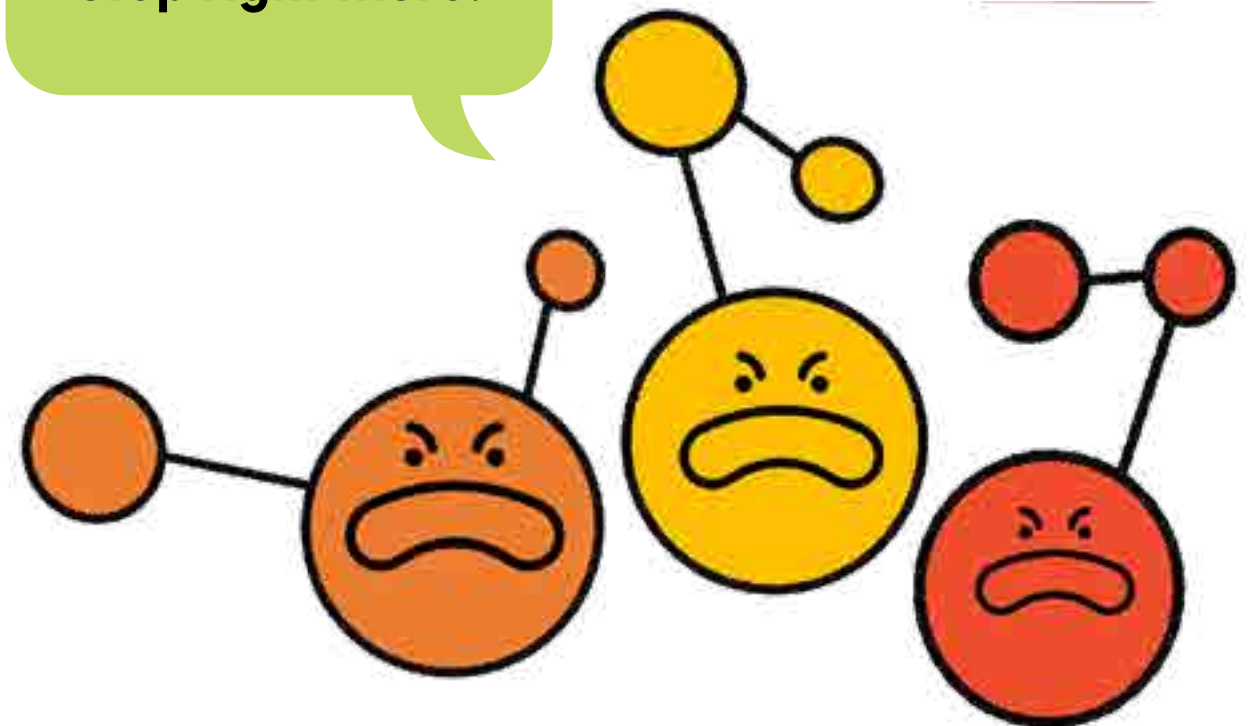
I'm Clotting
Factor 11

“Phil will bleed a lot more than normal as his blood doesn't have what is known as clotting factors.”

“We have 12 clotting factors in our body. They help to stop the bleeding when you get a cut.”



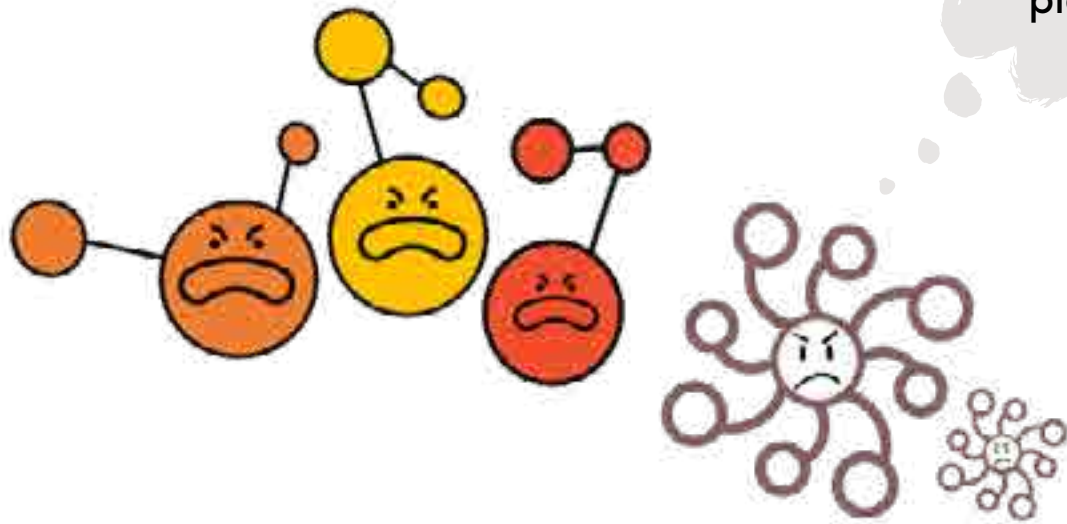
**Hey!
Stop right there!**





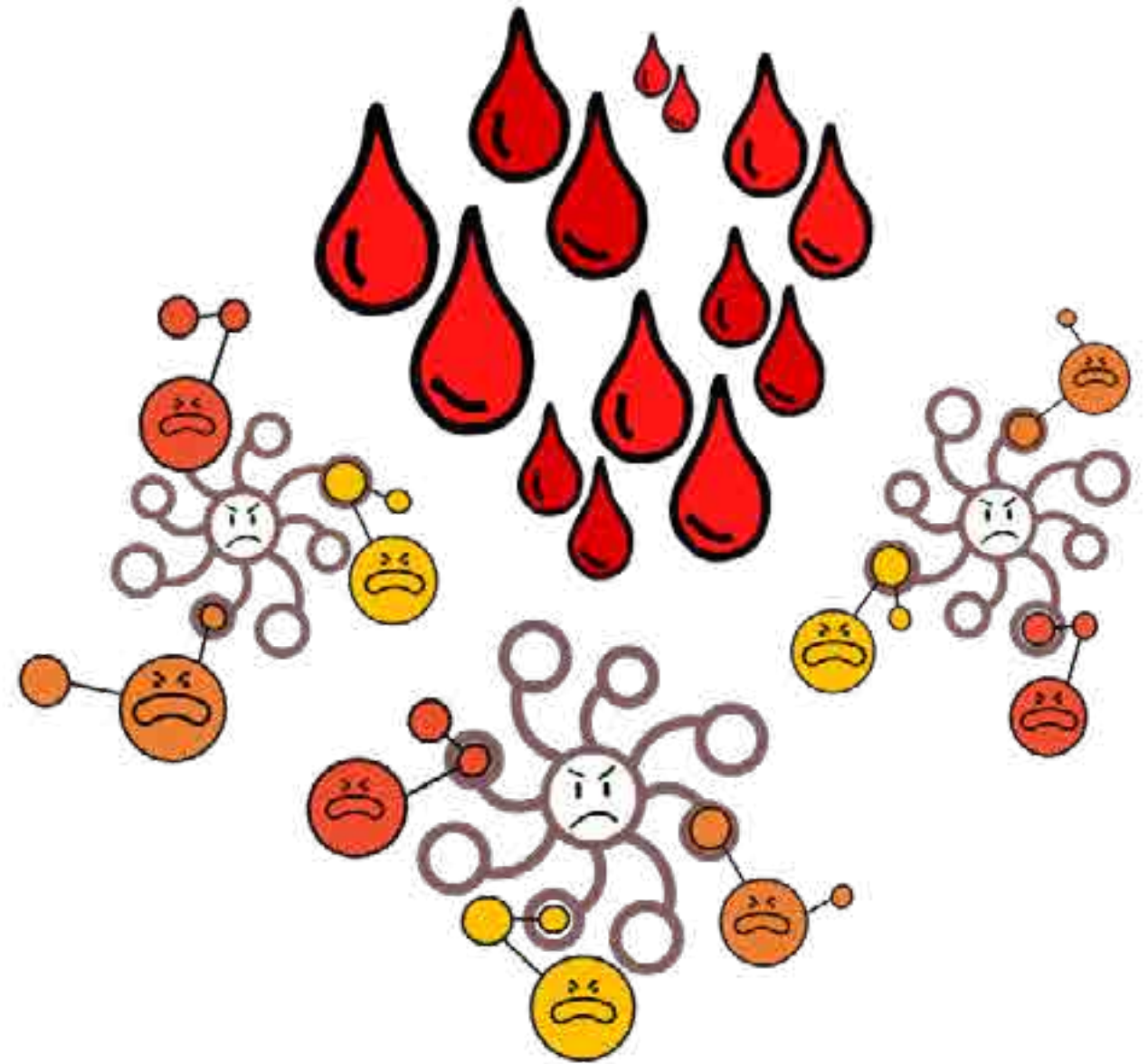
**Let's stop the
bleeding together!**

We are
platelets!



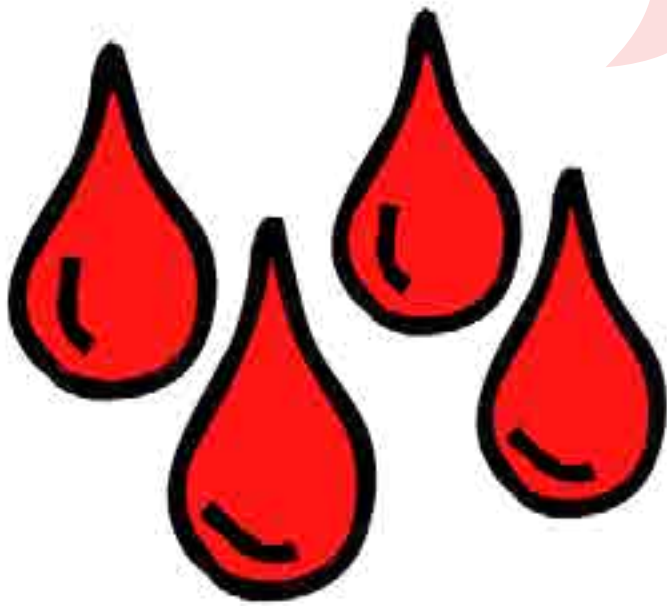
“Clotting factors join forces
with platelets and
together they form a clot,”
says the Doctor.

“The clot helps to stop the cut from bleeding.”



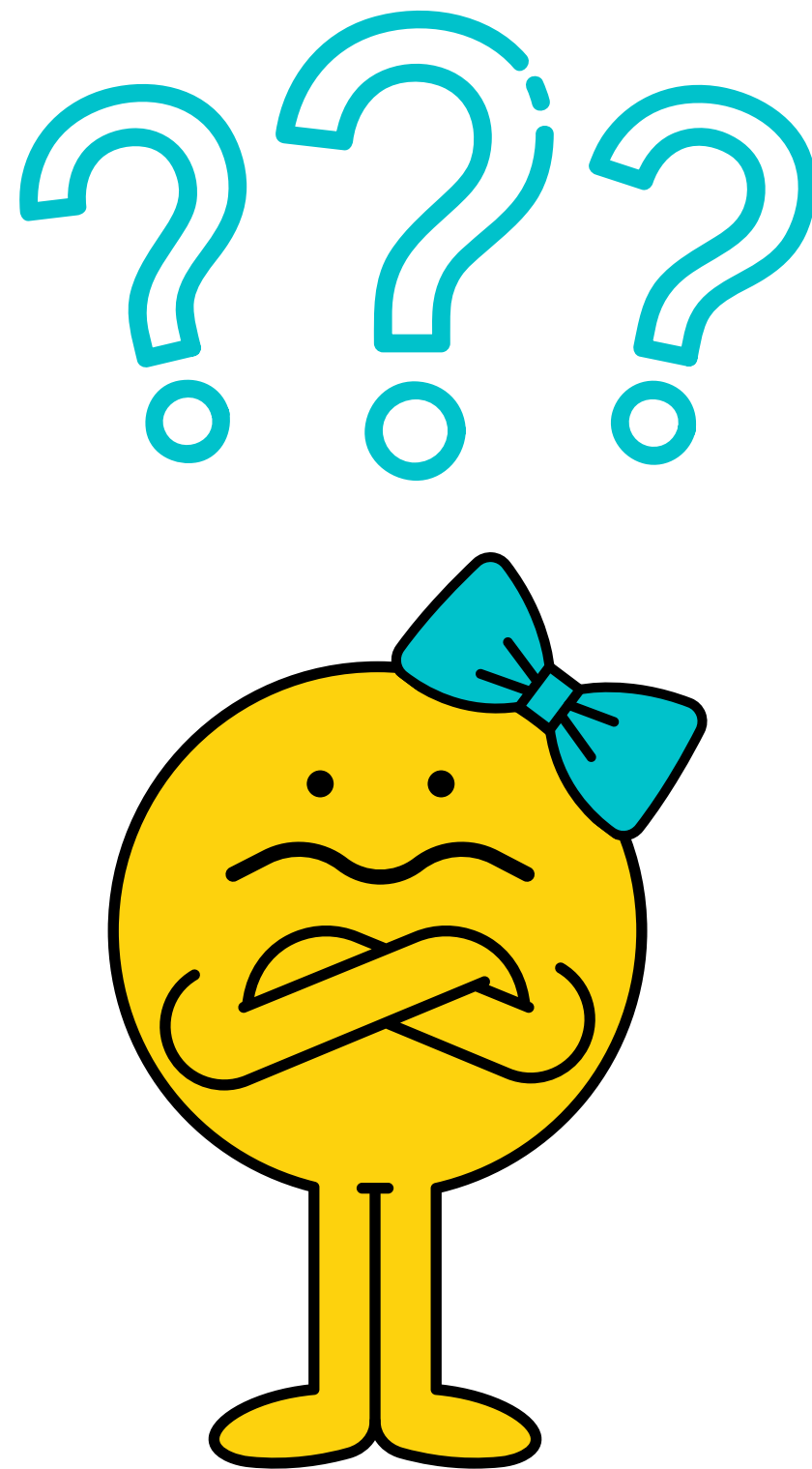


**No clotting factors?
I'm free!**

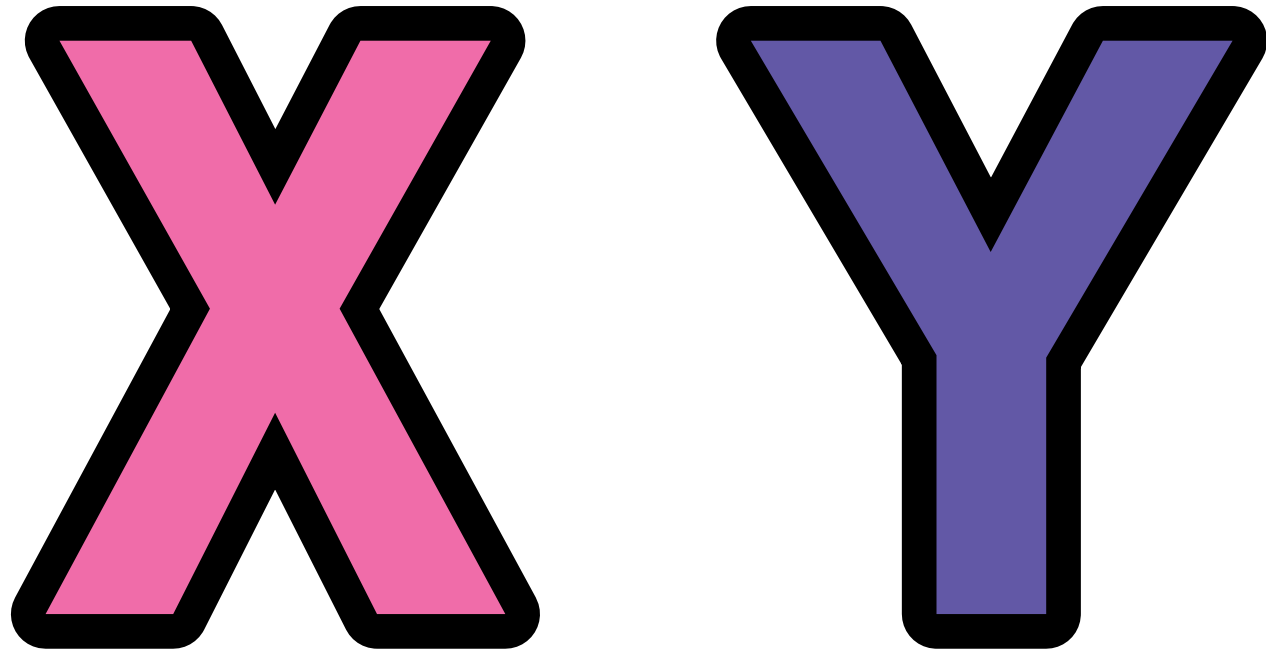


“But without clotting factors
to stop the bleeding,
more blood will continue
to escape from the cut!”

“What about me?”
asks Celia.
“Do I have haemophilia too?”



**We are the X/Y
chromosomes!**

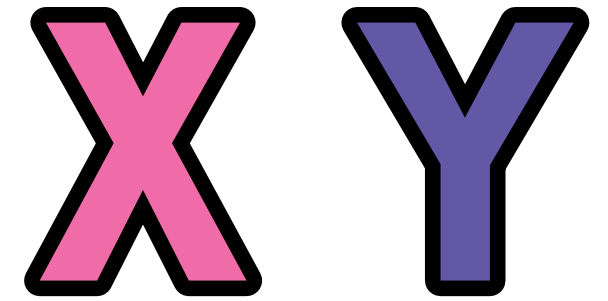
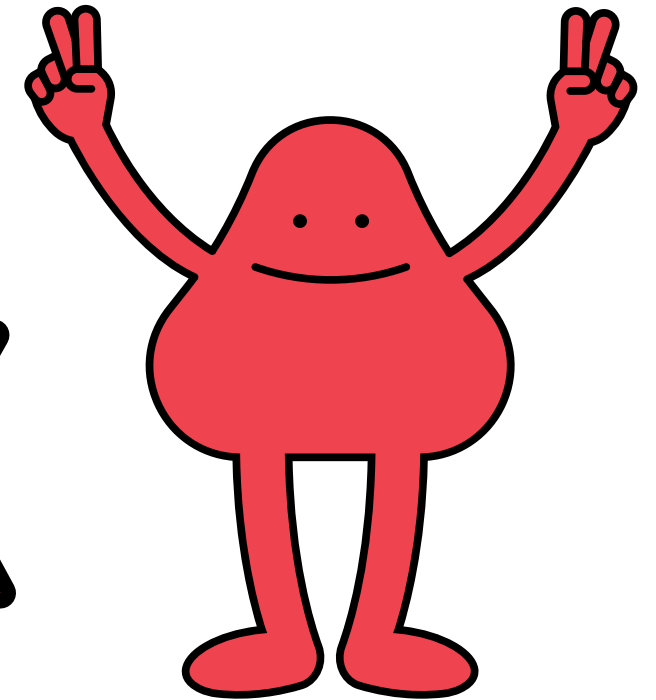
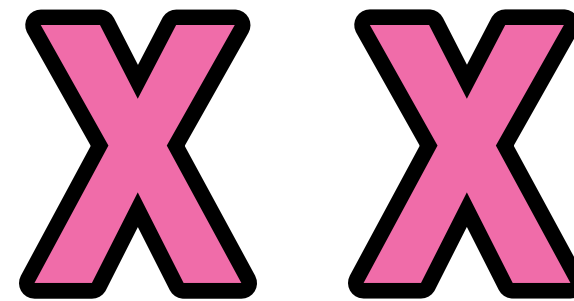
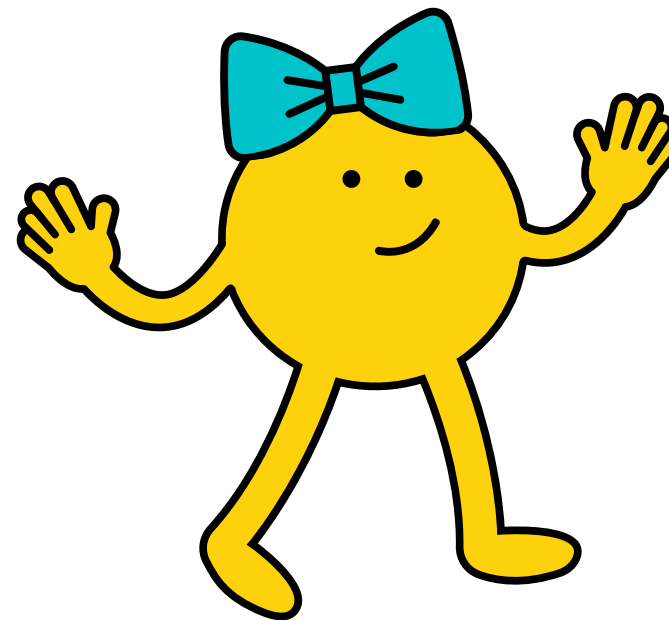


“No, Celia. You do not have
haemophilia,”
replies the Doctor.

“This has something to do with
the X/Y chromosomes, which
come from your parents.”

“Because you are a **girl** Celia,
you have two **X** chromosomes.”

“And because Phil is a **boy**, he
has an **X** and **Y** chromosome.”



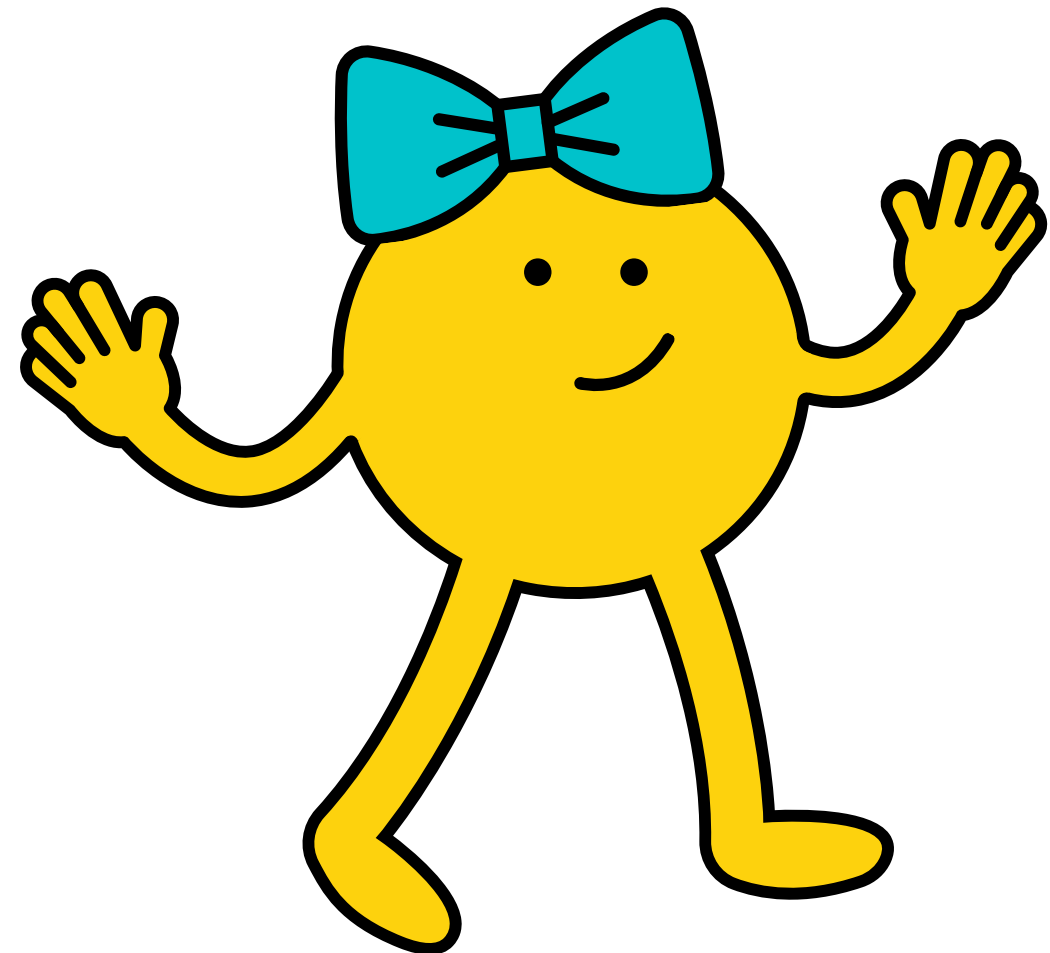


I hold haemophilia.

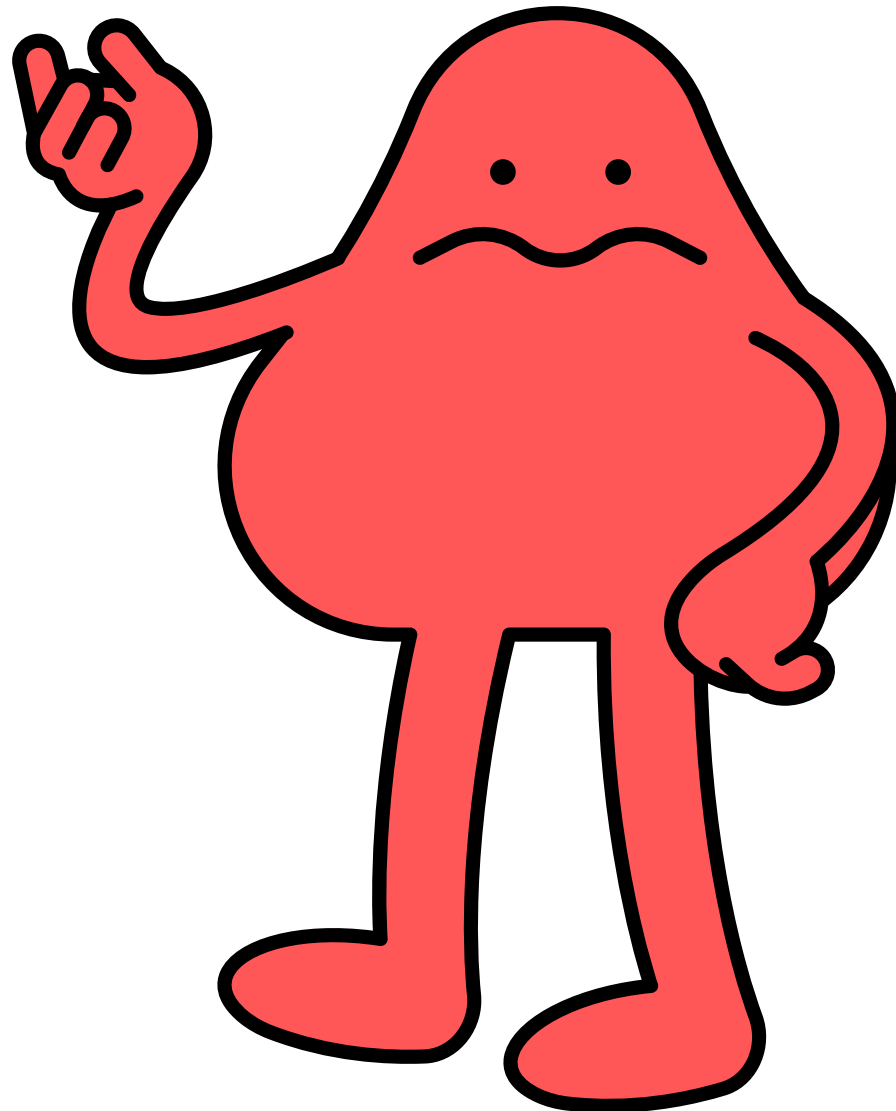
“Haemophilia only appears on
the **X** chromosome.”

“Because Celia has two X chromosomes, she does not have haemophilia,” the Doctor explains.

“But she is a carrier of haemophilia which means she can pass haemophilia on to her kids.”



I have haemophilia!



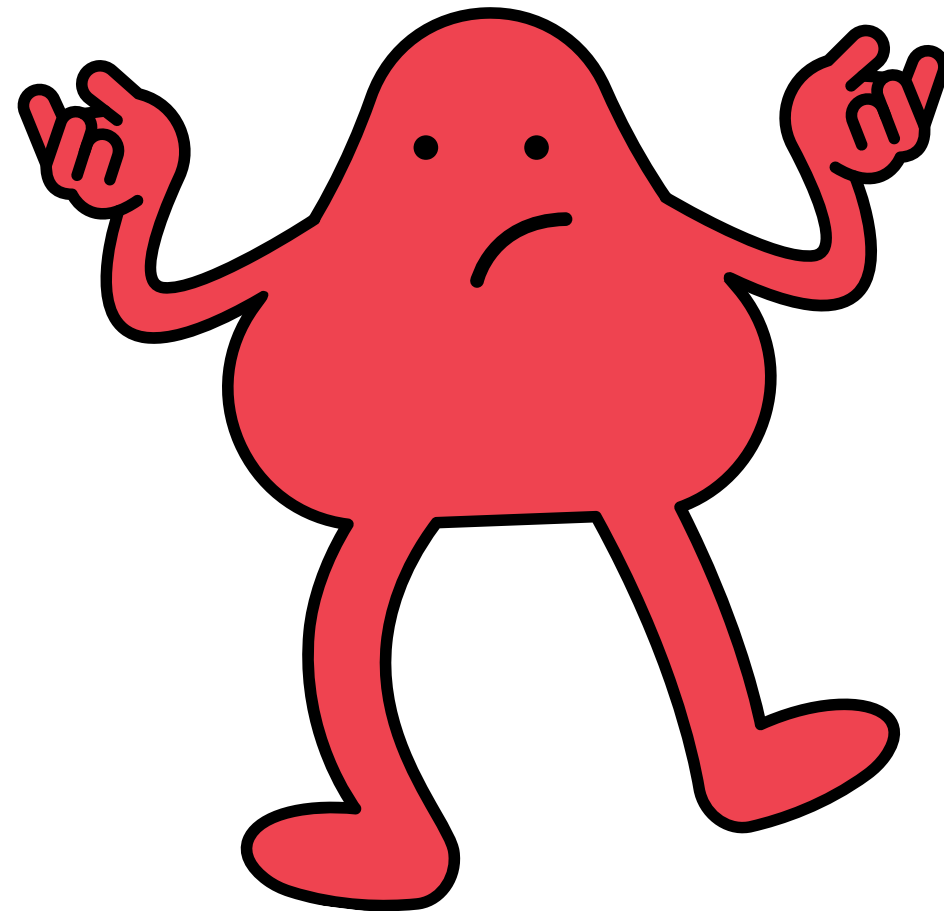
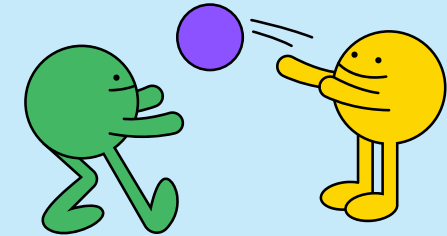
“But because Phil only has one X and Y chromosome, he does have haemophilia.”

“Does that mean all the other boys have haemophilia too?”

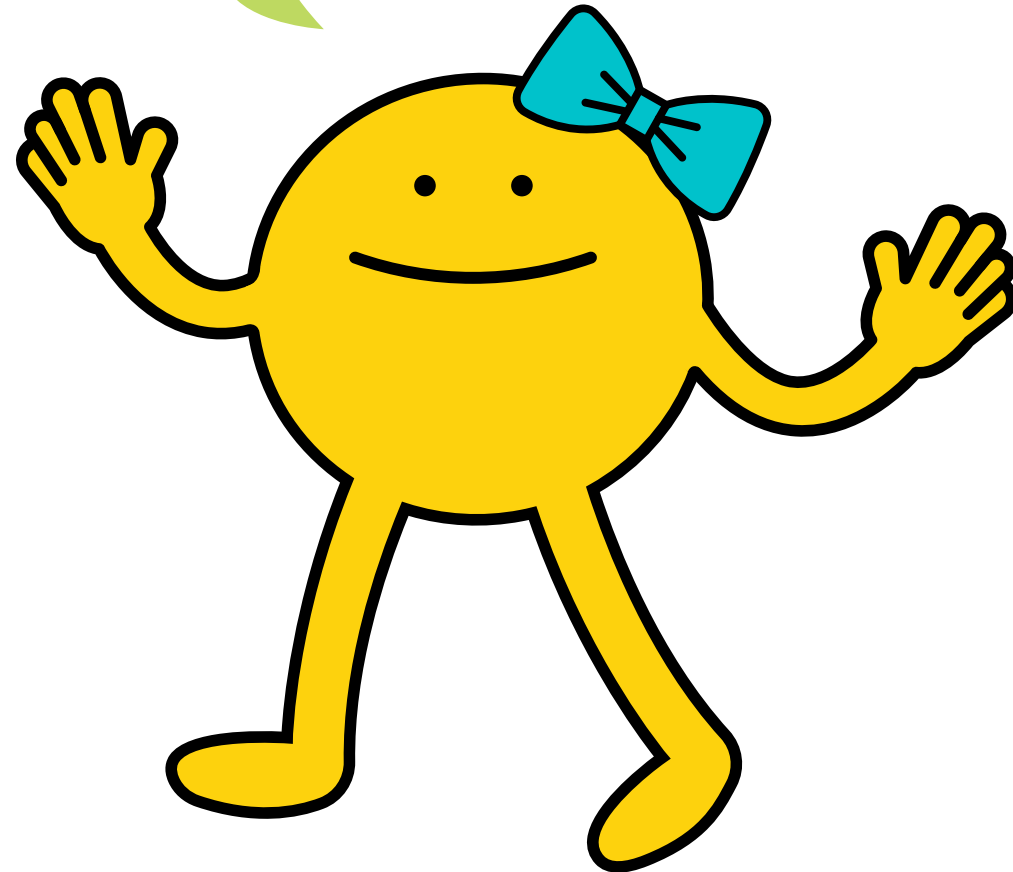
Phil asks.

“No, it is a rare condition, so you might not know anyone who has it,” replies the Doctor.

Do my friends have haemophilia too?



**So Mum's a
carrier too!**



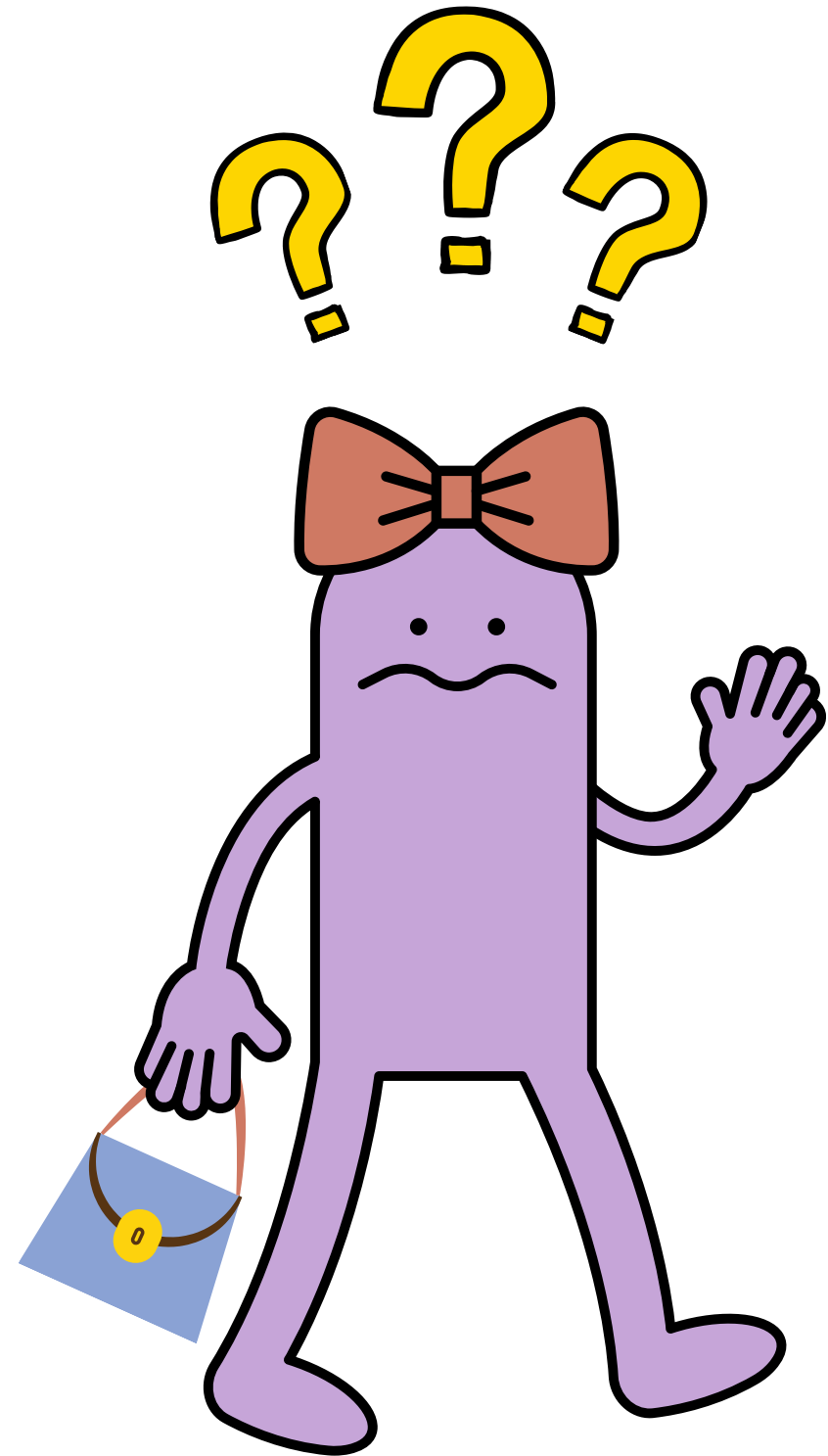
“If X/Y chromosomes came from our parents, does that mean they have haemophilia too?”, Phil asks.

“Sometimes”,
the Doctor answers.

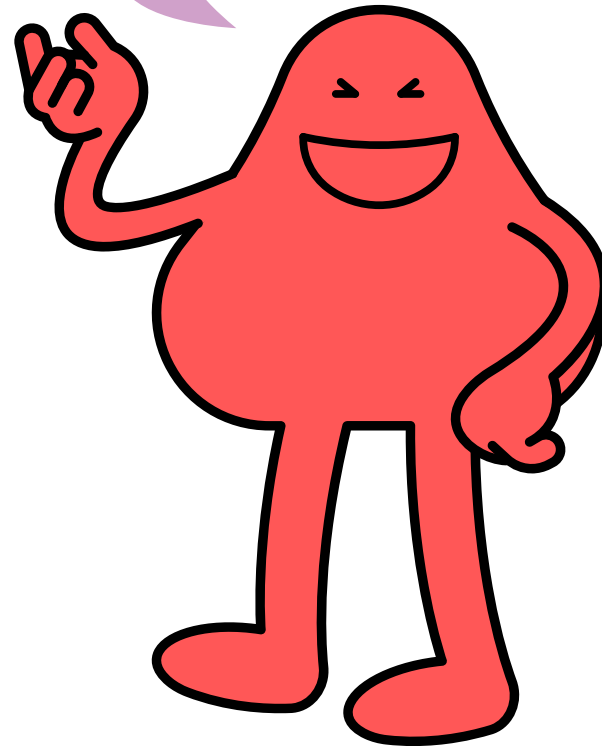
“But you, Phil, got it from your mother who is a carrier like your sister.”

Mum still looks worried...

“Will Phil be okay from
now on?” asks Mum.



Phew! I'm glad I'm
okay now!



“Phil will be okay,”
says the Doctor.

“But he will have haemophilia
for his whole life so he needs
to be careful and stay safe.

“If Phil ever gets hurt again,
come back to see me.
I’m here to help.”

Back at home, Phil starts to
get a little worried.

“Mum, can I still play
with Celia?”, asks Phil.

“Yes of course you can. Just be
careful when you’re running
around,” replies Mum.



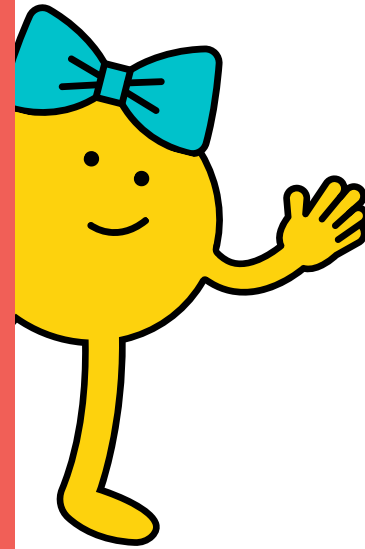
About

Join a boy named Phil and his family on a trip to the hospital as they learn about a mysterious health condition called Haemophilia.

This storybook is recommended for children aged 8-10 years.

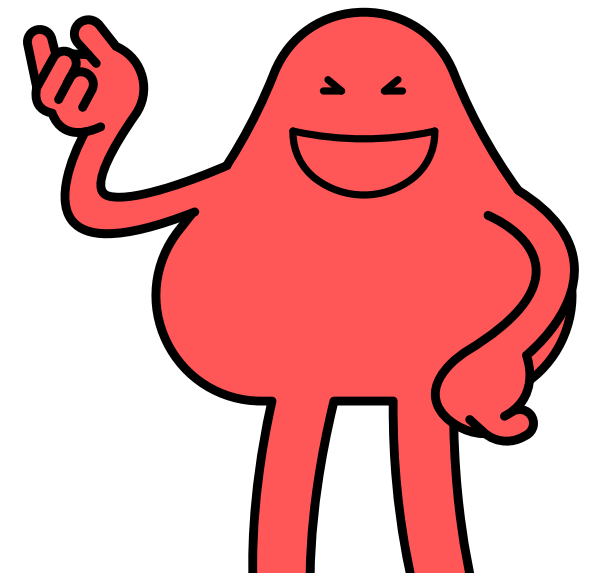
This is a simplified narrative of the disease Haemophilia. This explanation can be built upon to further educate young children about this disease.





Glossary

Carrier	A person who 'carries' a genetic health condition that can be passed on to their children.
Chromosomes	In general, a person will have 23 pairs of chromosomes, half of which is inherited from each parent. The 23rd pair are the X/Y chromosomes.
Clot	A plug that stops blood from escaping out of a cut or graze on the skin. It helps to heal the skin after injury.
Clotting Factors	A substance in a person's blood that helps to form clots.
Health Condition	A broad term used to describe an injury, illness, or disease that affects someone's health.
Platelets	A small cell fragment found in someone's blood that works with clotting factors to help form clots.





<https://library.latrobe.edu.au/ebureau/>