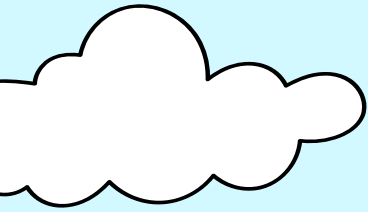
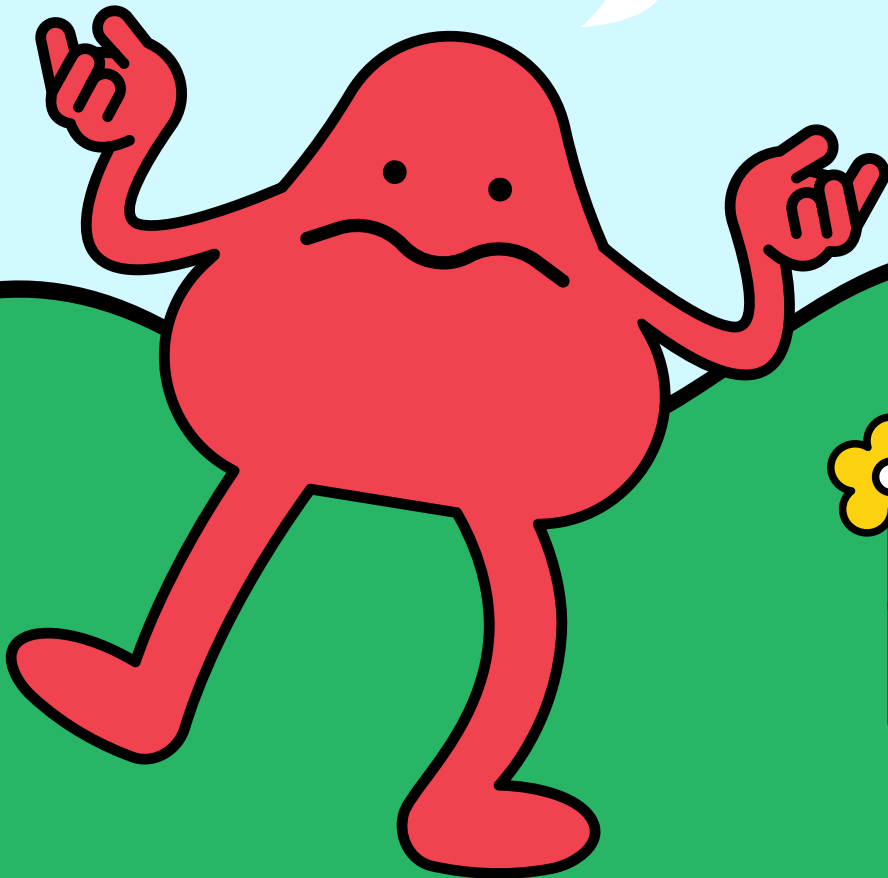


# Haemophilia



Hmm, what is it?

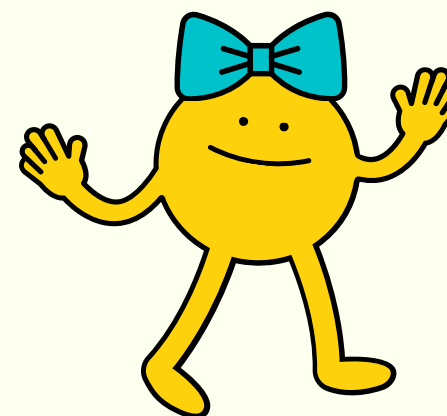


**E**

Jasmine Hotton, Jessica Leong  
& Amelia Marsham

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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:

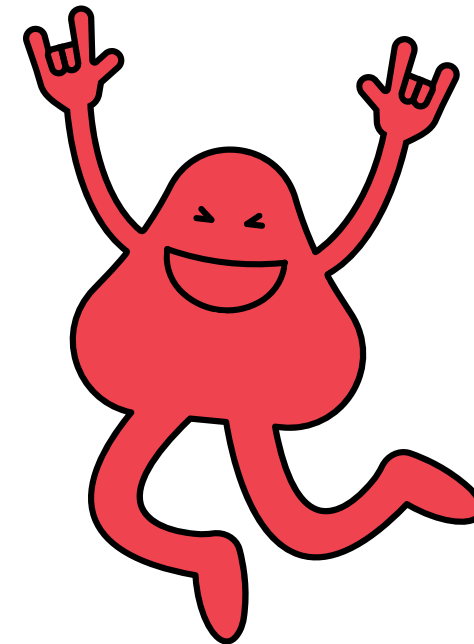
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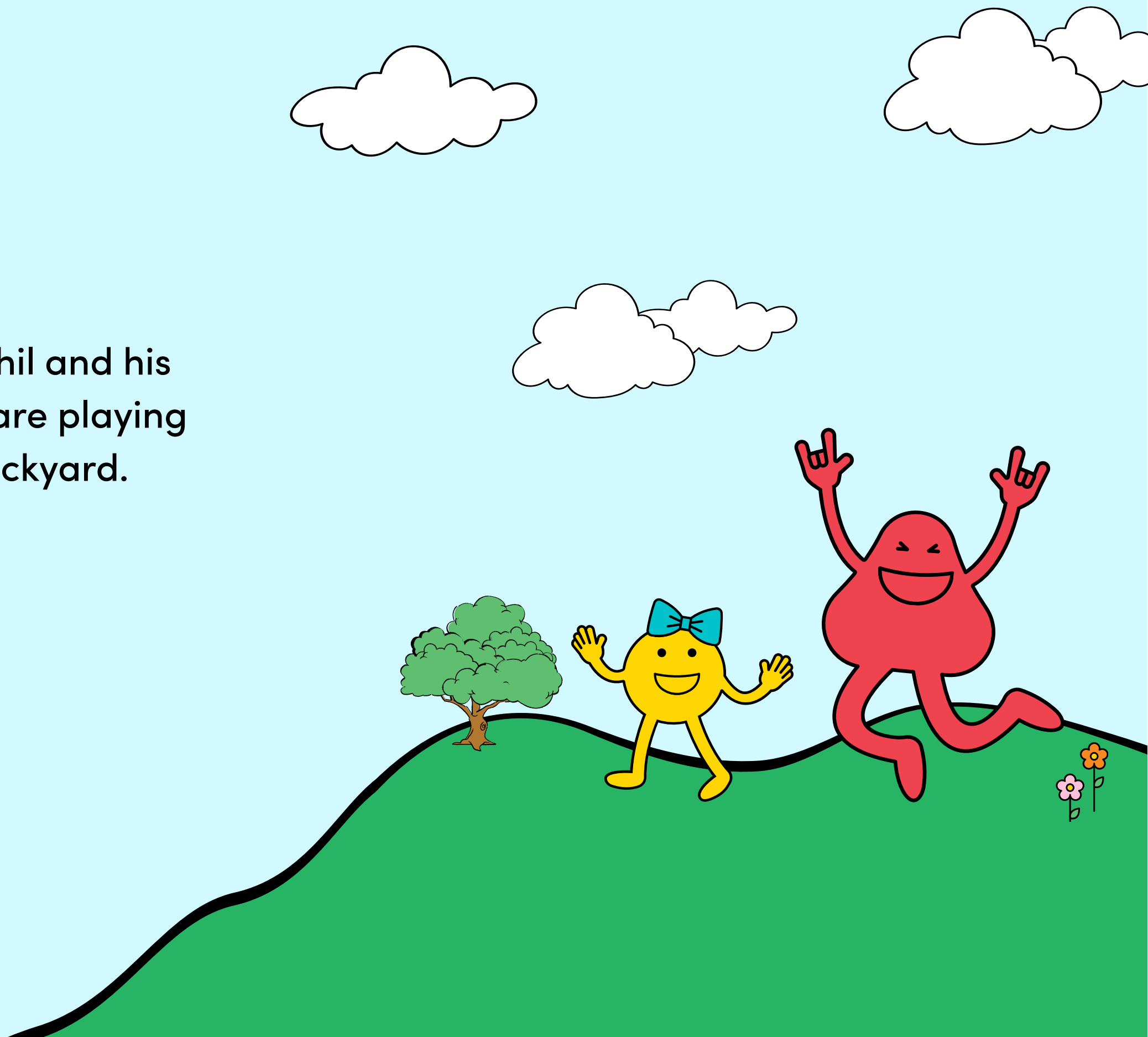
# Haemophilia

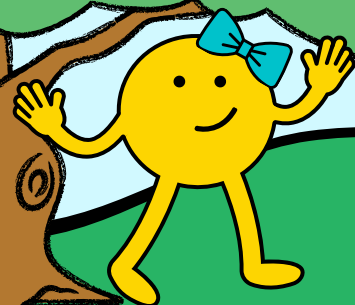
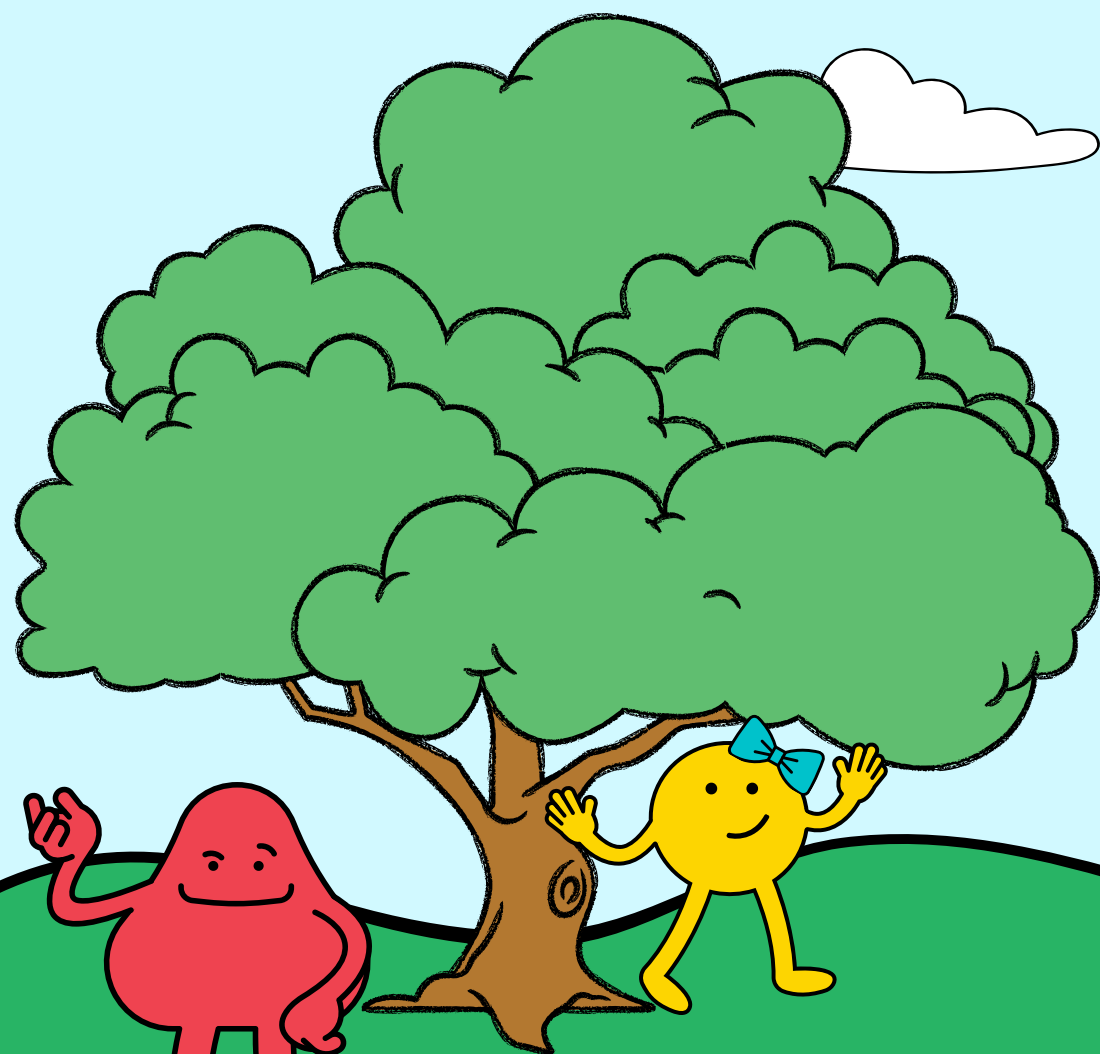


Jasmine Hotton, Jessica Leong  
& Amelia Marsham



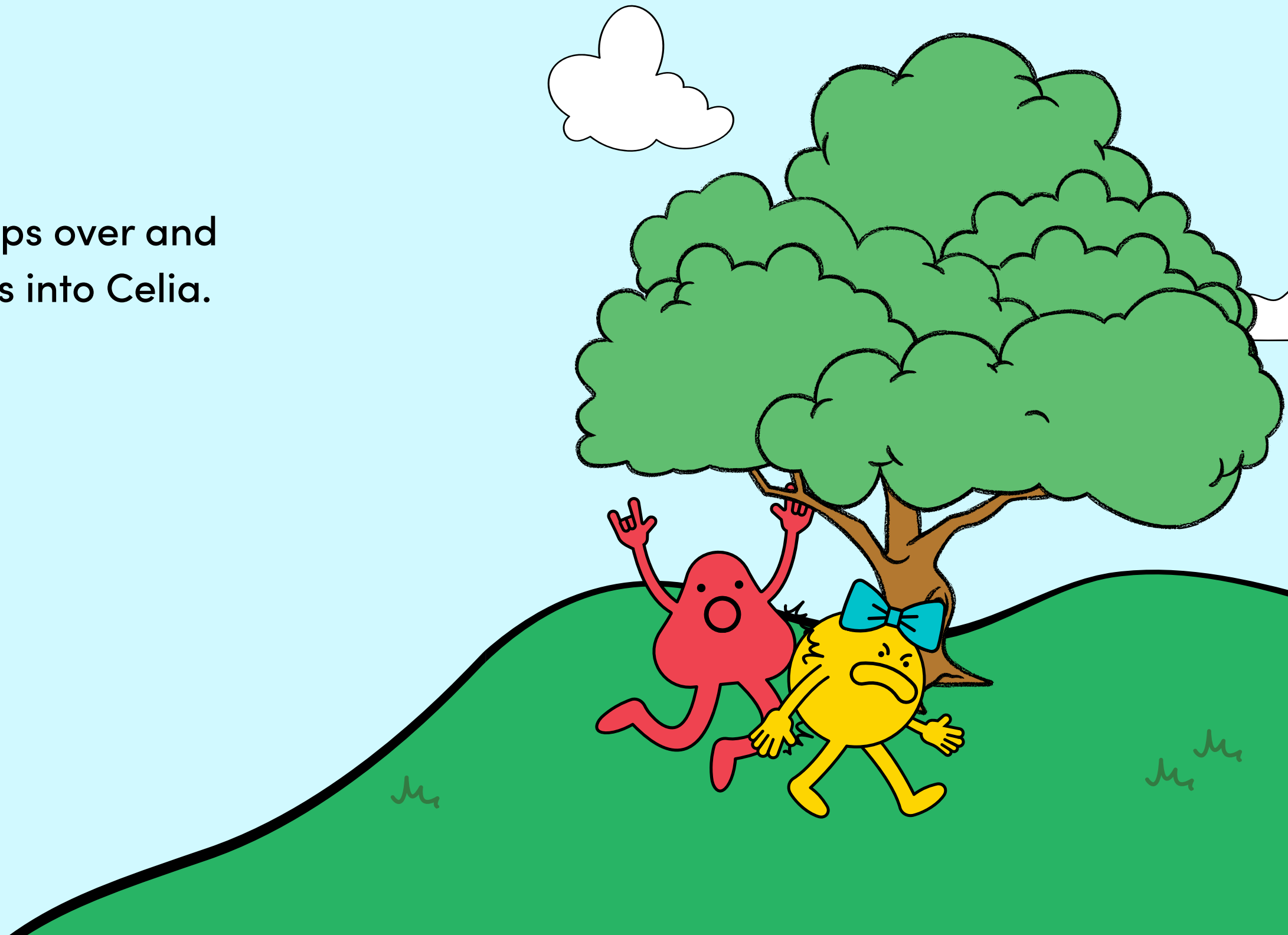
One day, Phil and his  
sister Celia are playing  
in the backyard.

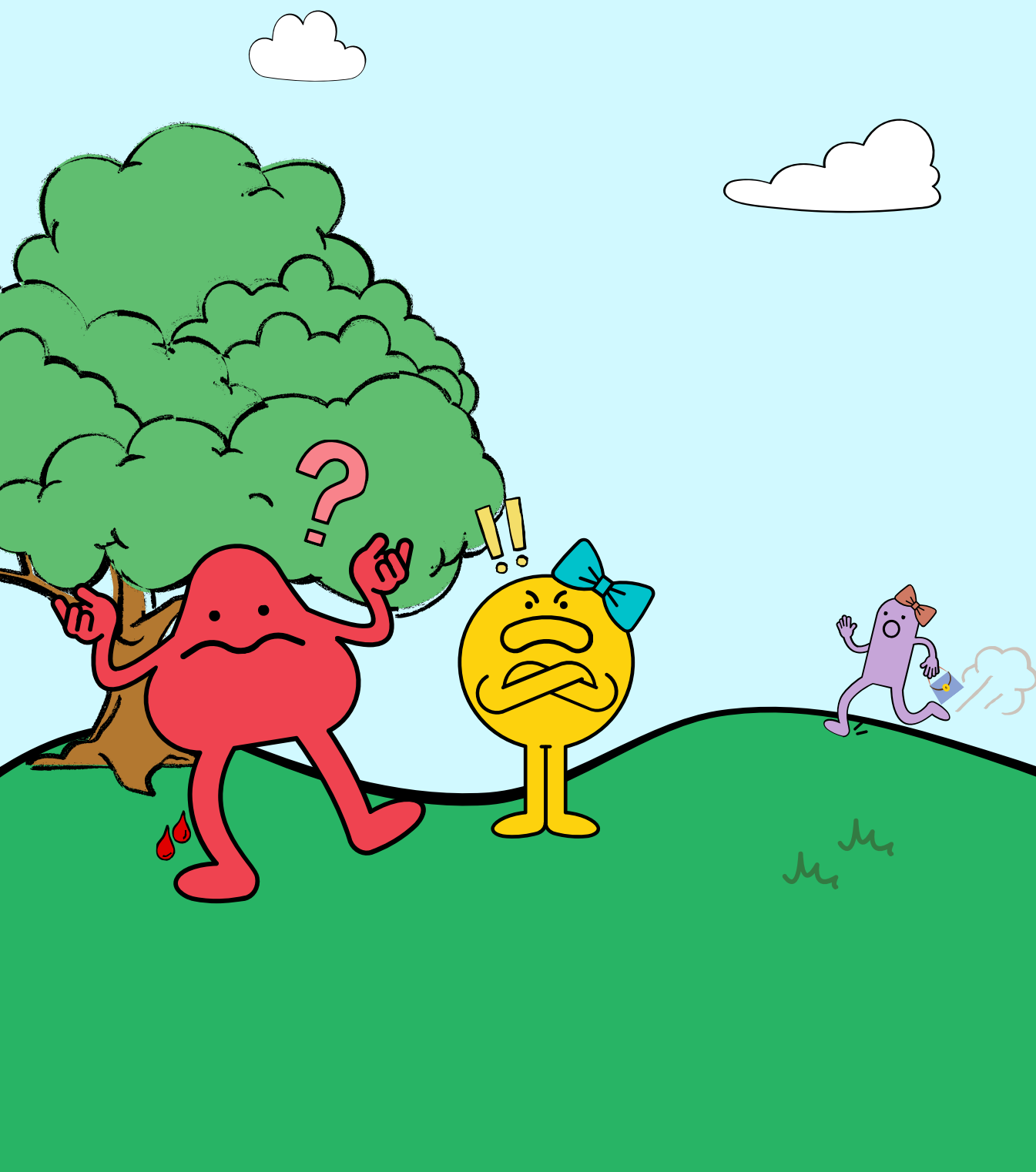




They are having fun running  
round a tree until...

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...

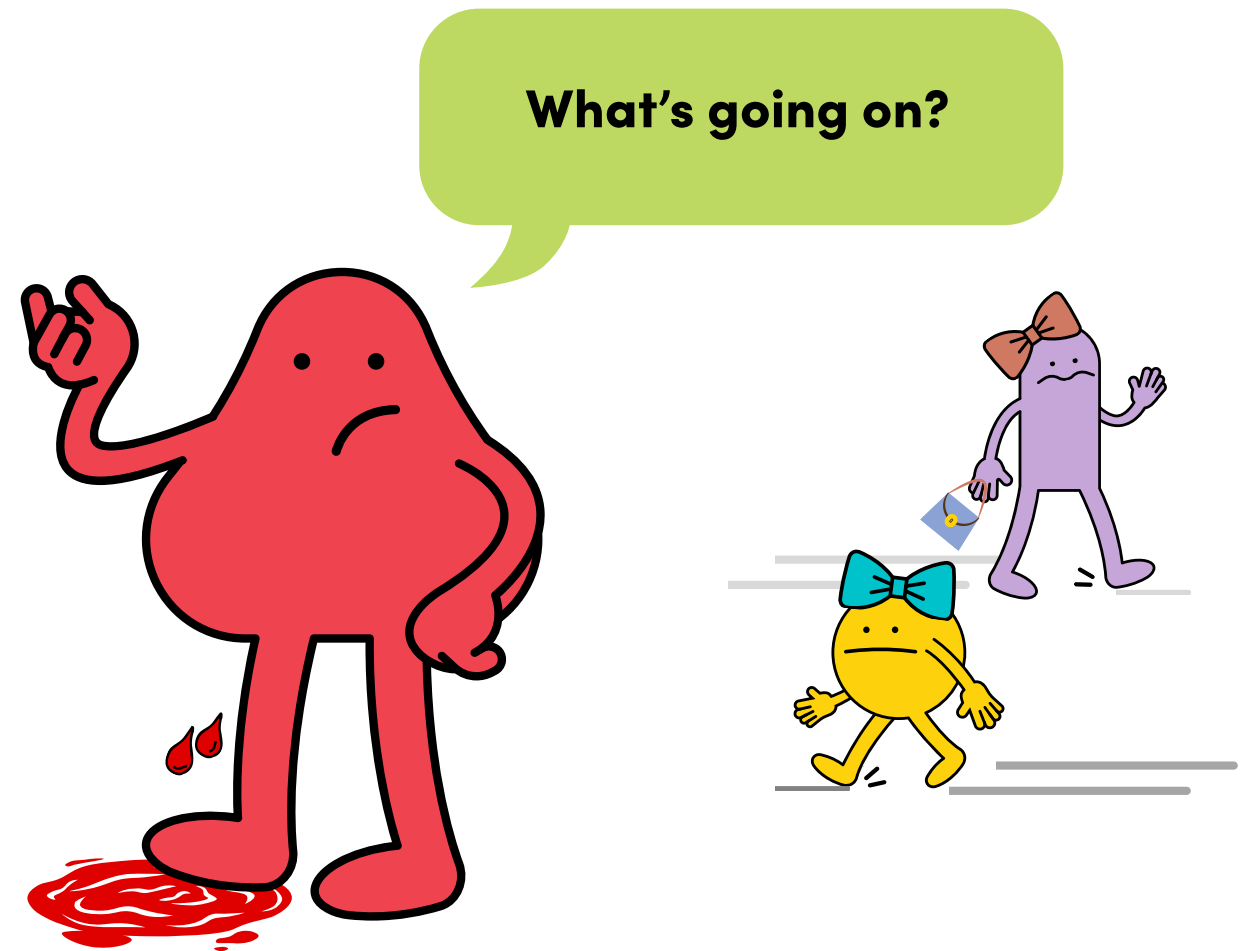




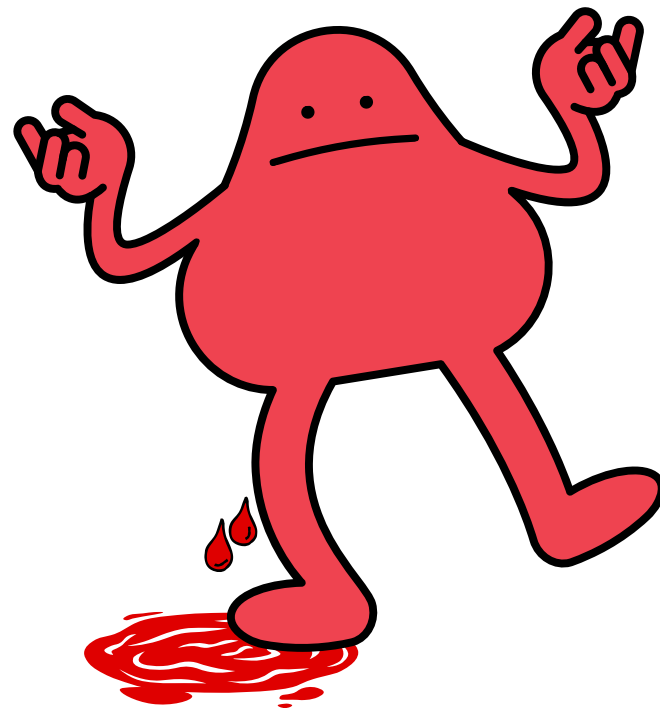
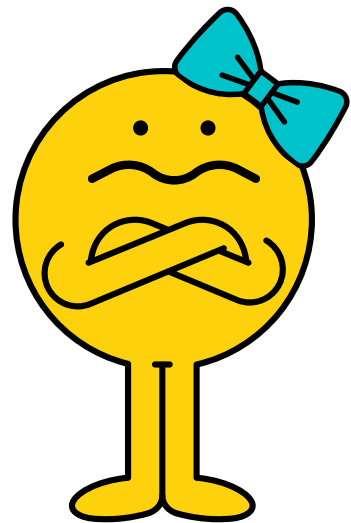


The doctor at the hospital says,  
“Don’t worry, Phil. I’m just here  
to make sure you’re okay.”

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



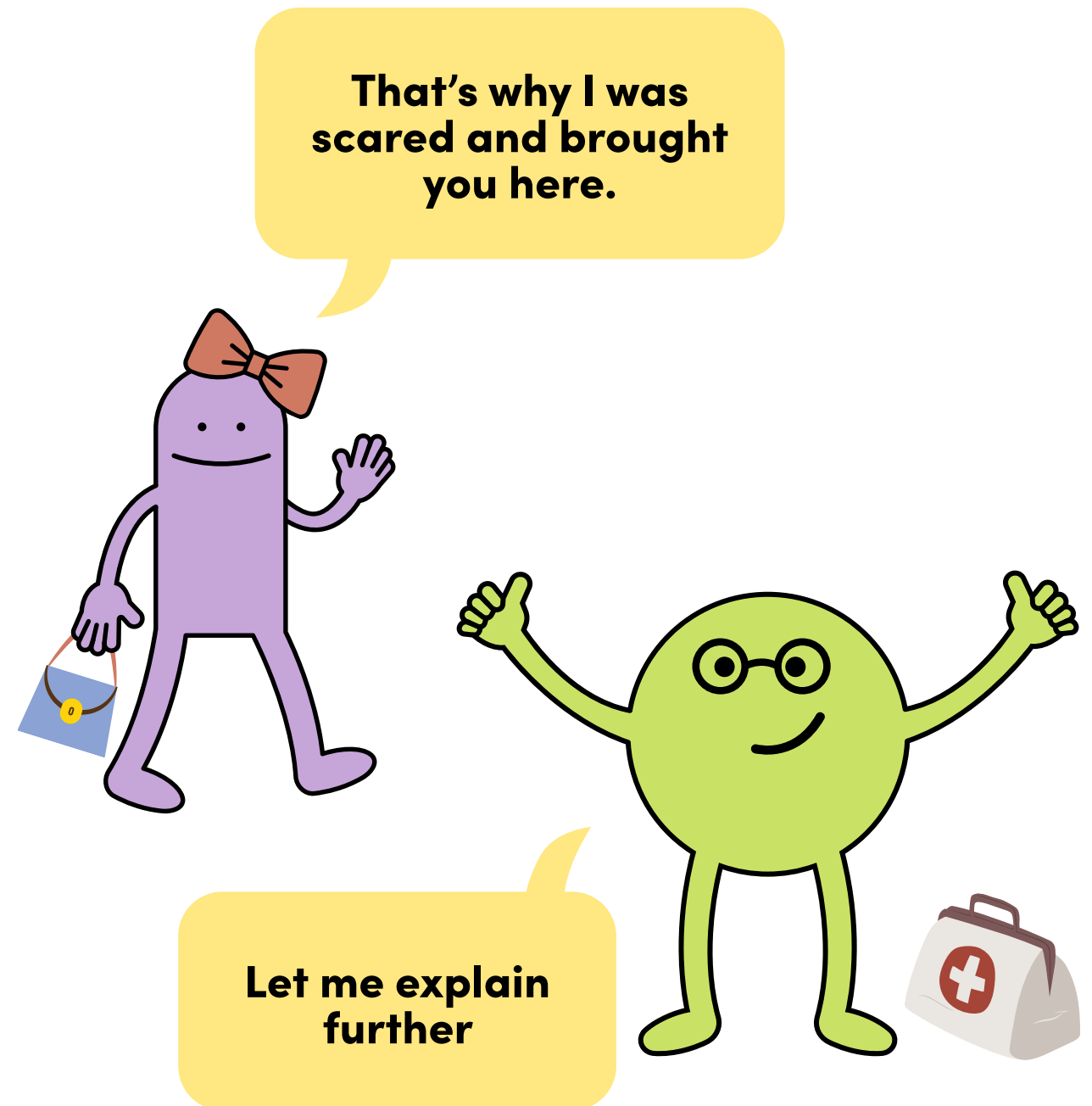
**What's  
haemophilia?**



**“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!**

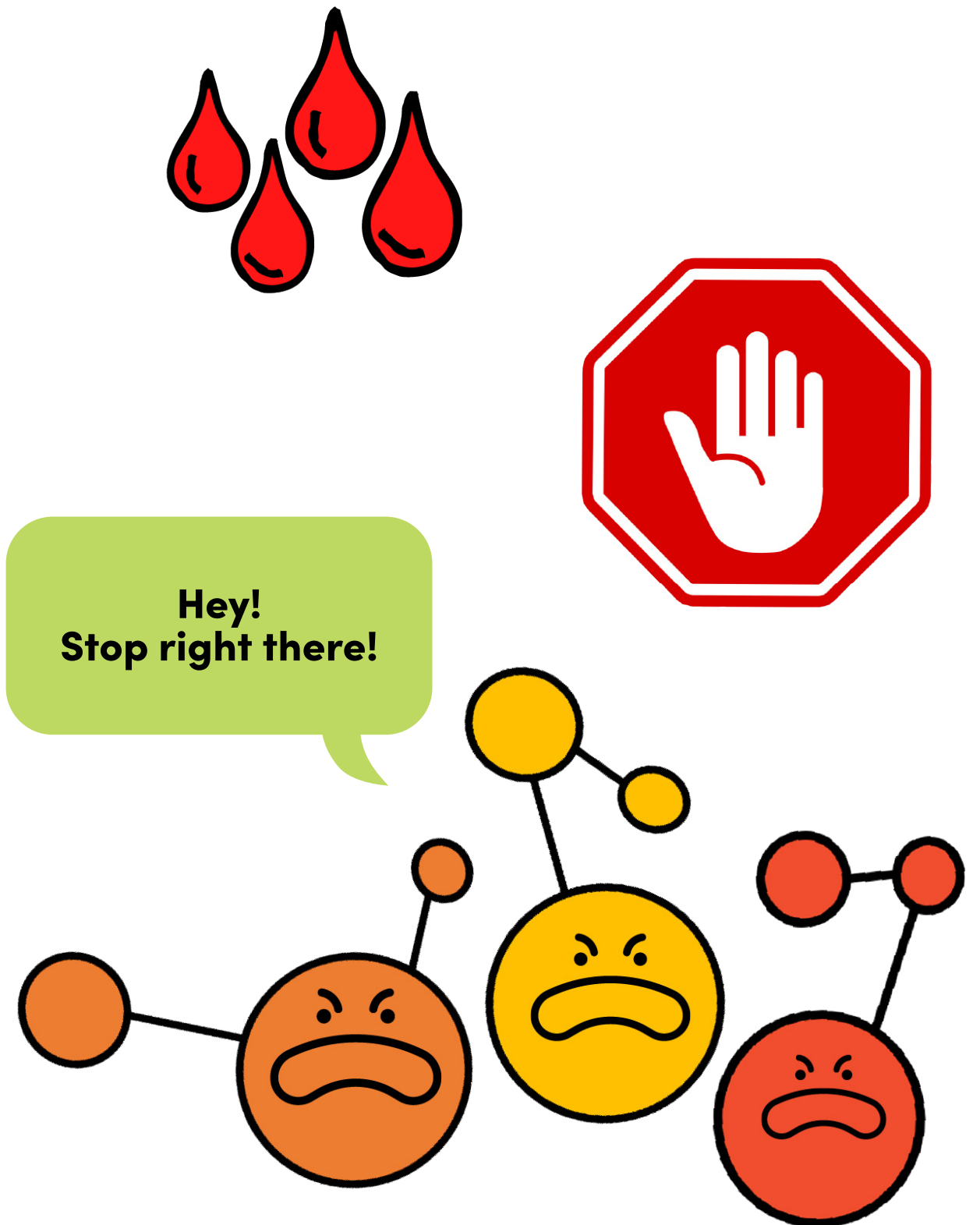
I'm Clotting  
Factor 8

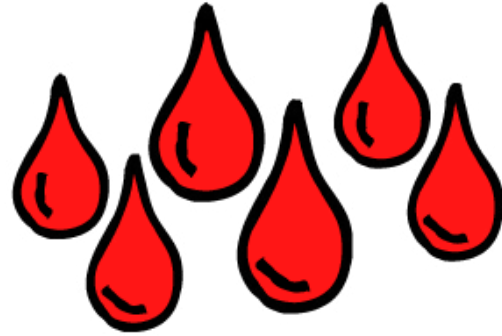
I'm Clotting  
Factor 9

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.”

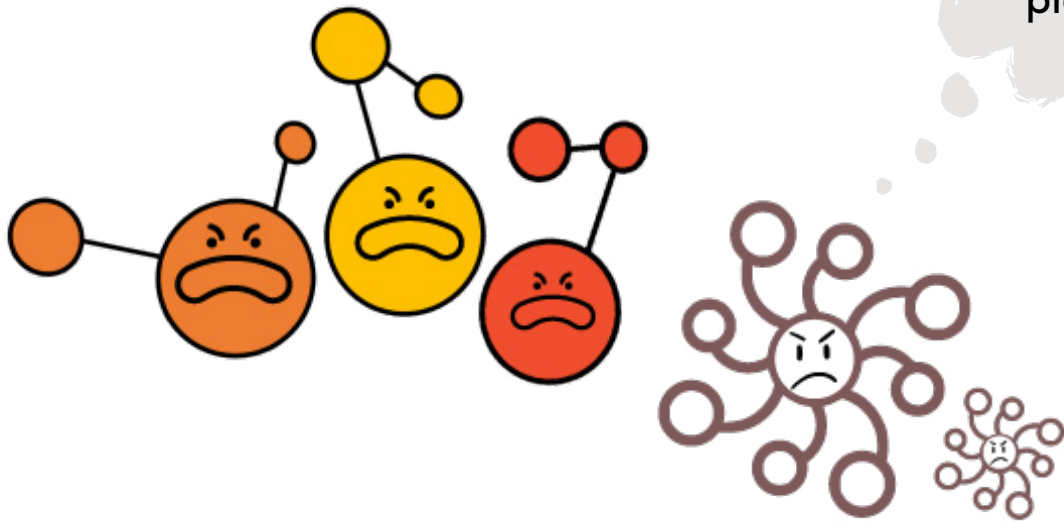
“We have 12 clotting factors in our body. They help to stop the bleeding when you get a cut.”





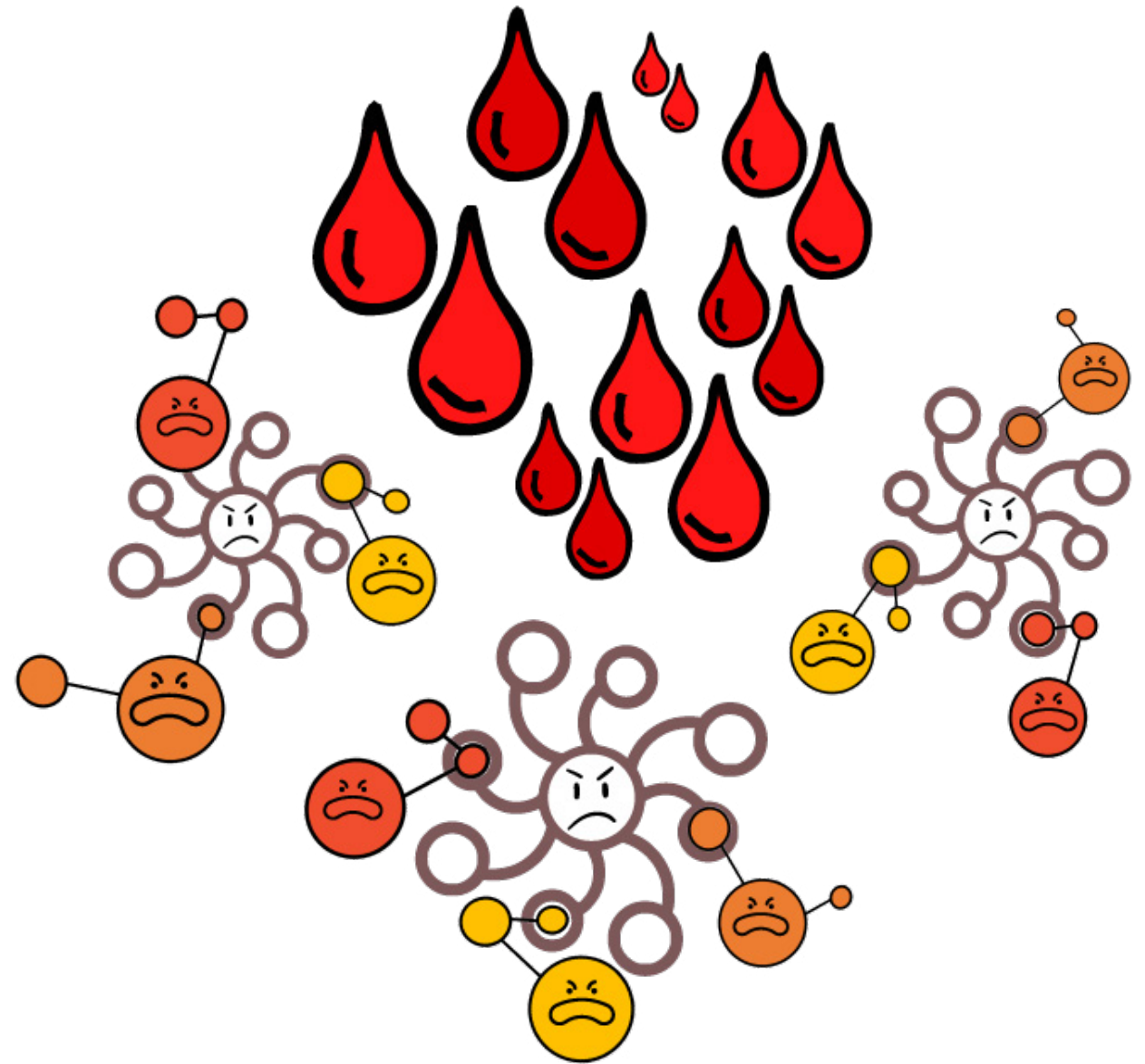
**Let's stop the  
bleeding together!**

We are  
platelets!



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

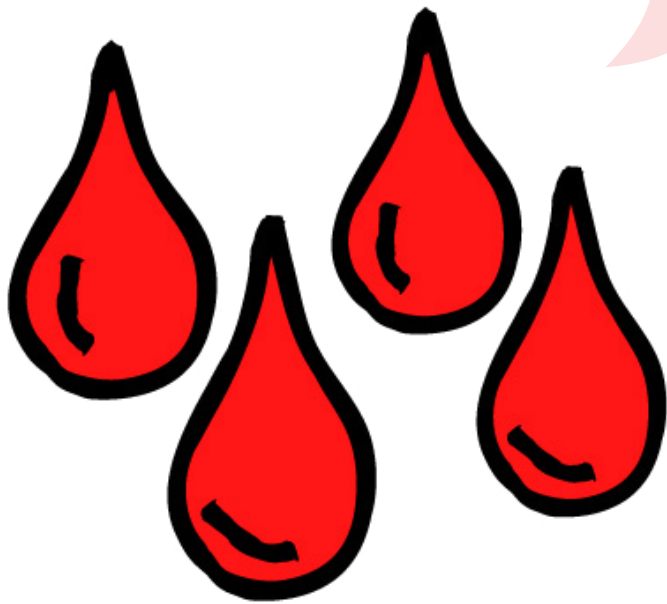
“The clot helps to stop the cut from bleeding.”





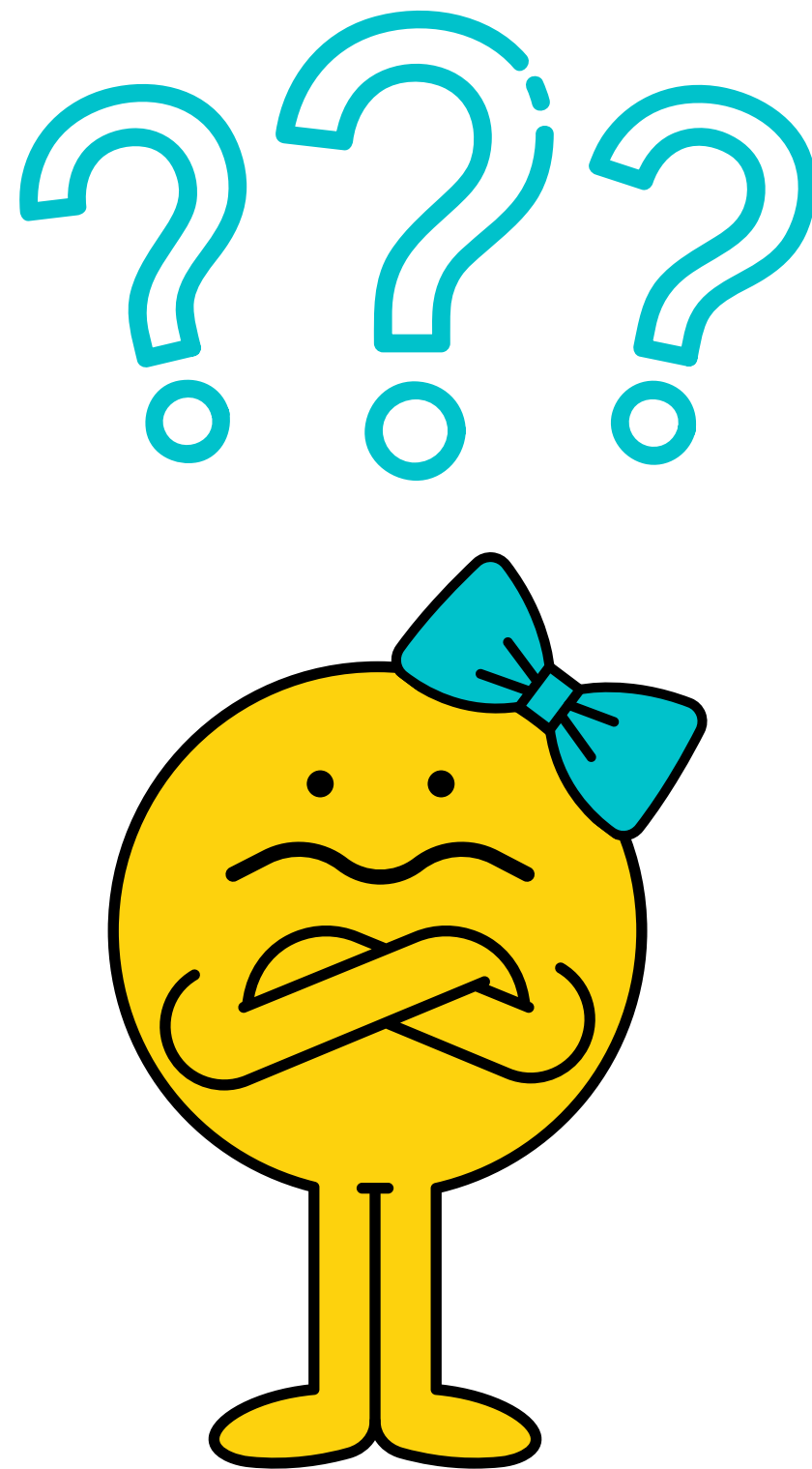


**No clotting factors?  
I'm free!**

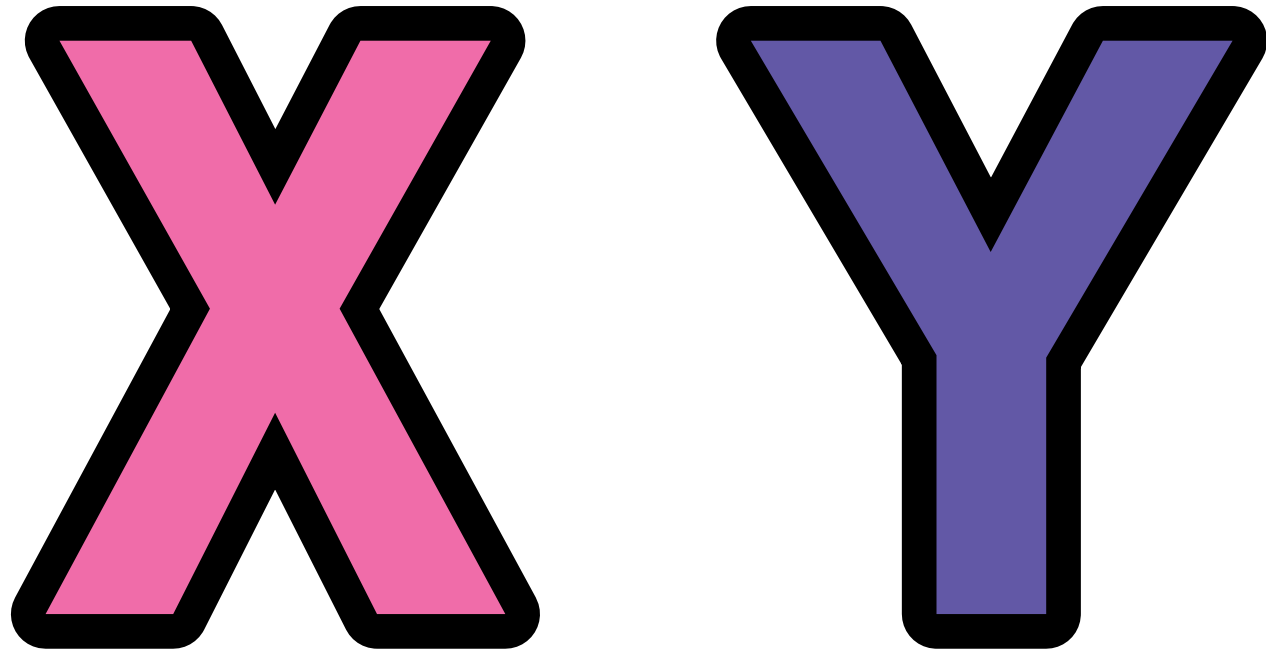


“But without clotting factors  
to stop the bleeding,  
more blood will continue  
to escape from the cut!”

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



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

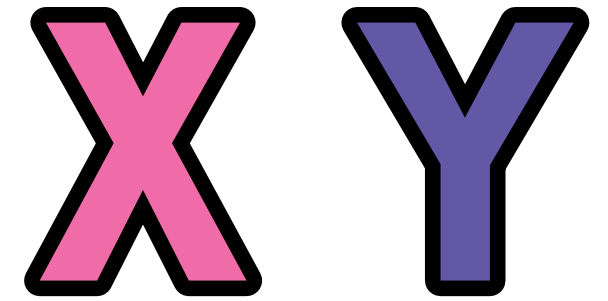
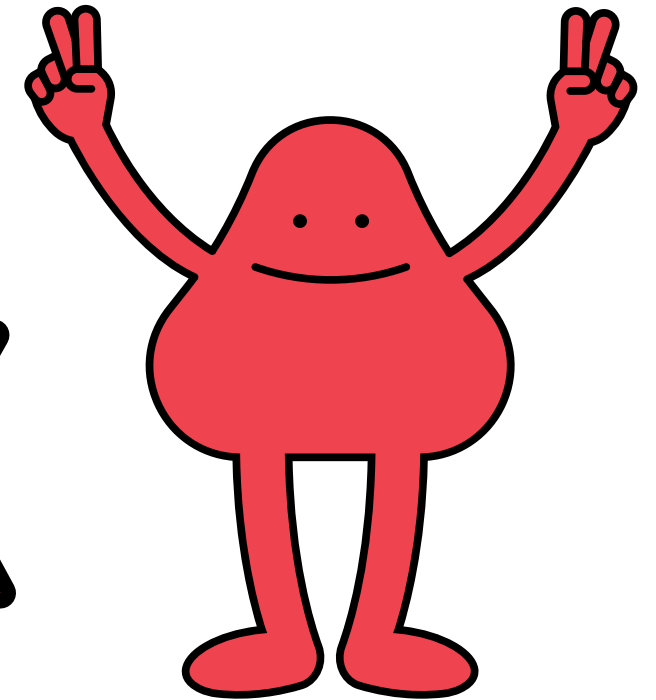
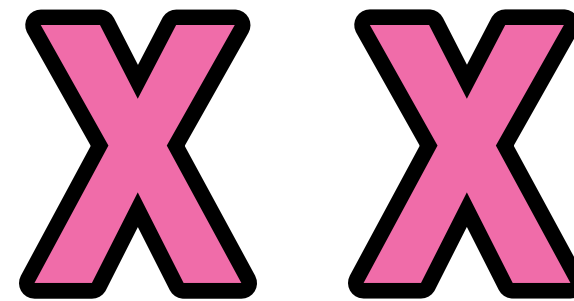
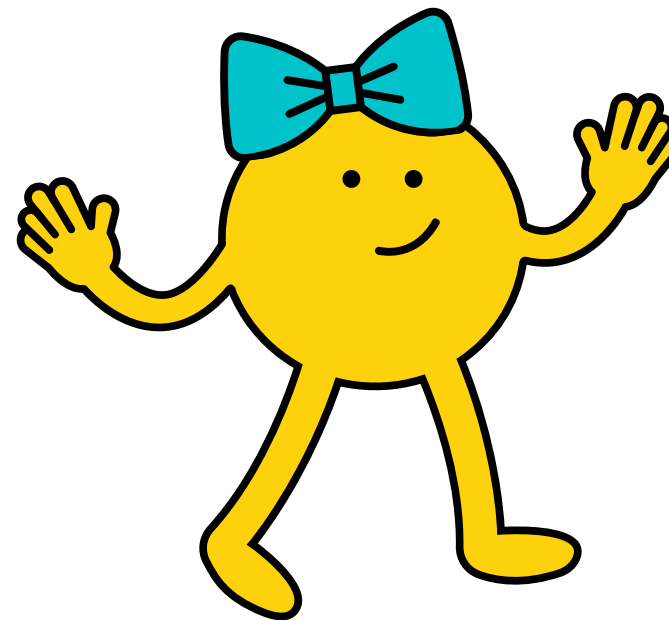


“No, Celia. You do not have  
haemophilia,”  
replies the Doctor.

“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.”



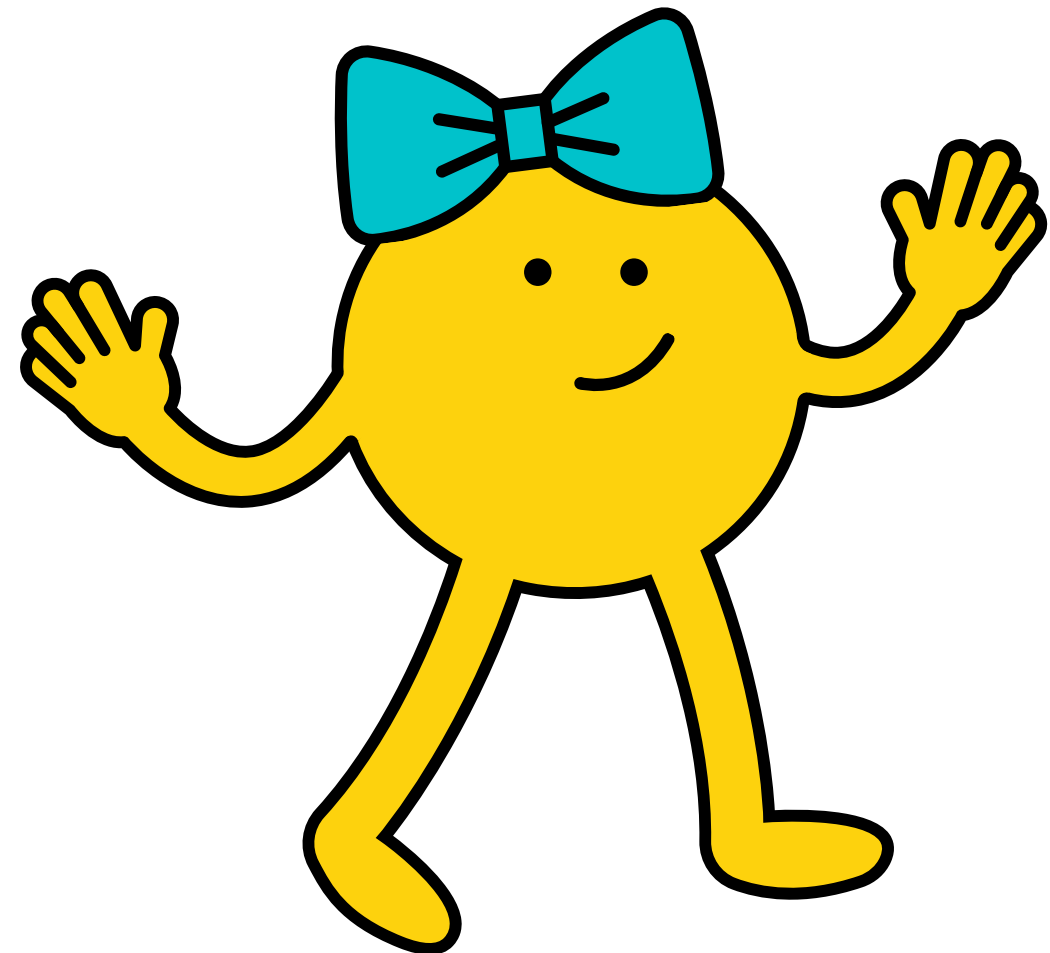


**I hold haemophilia.**

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

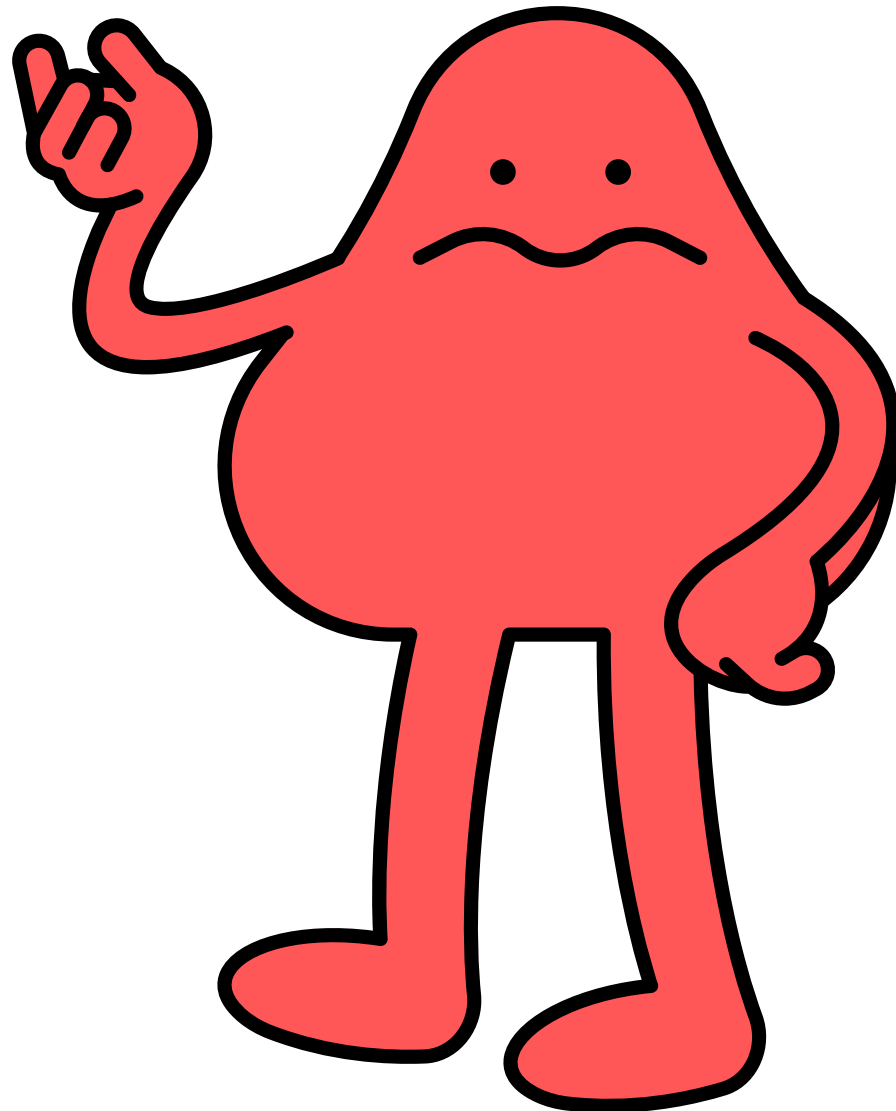
“Because Celia has two X chromosomes, she does not have haemophilia,” the Doctor explains.

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



**I'm a carrier!**

I have haemophilia!



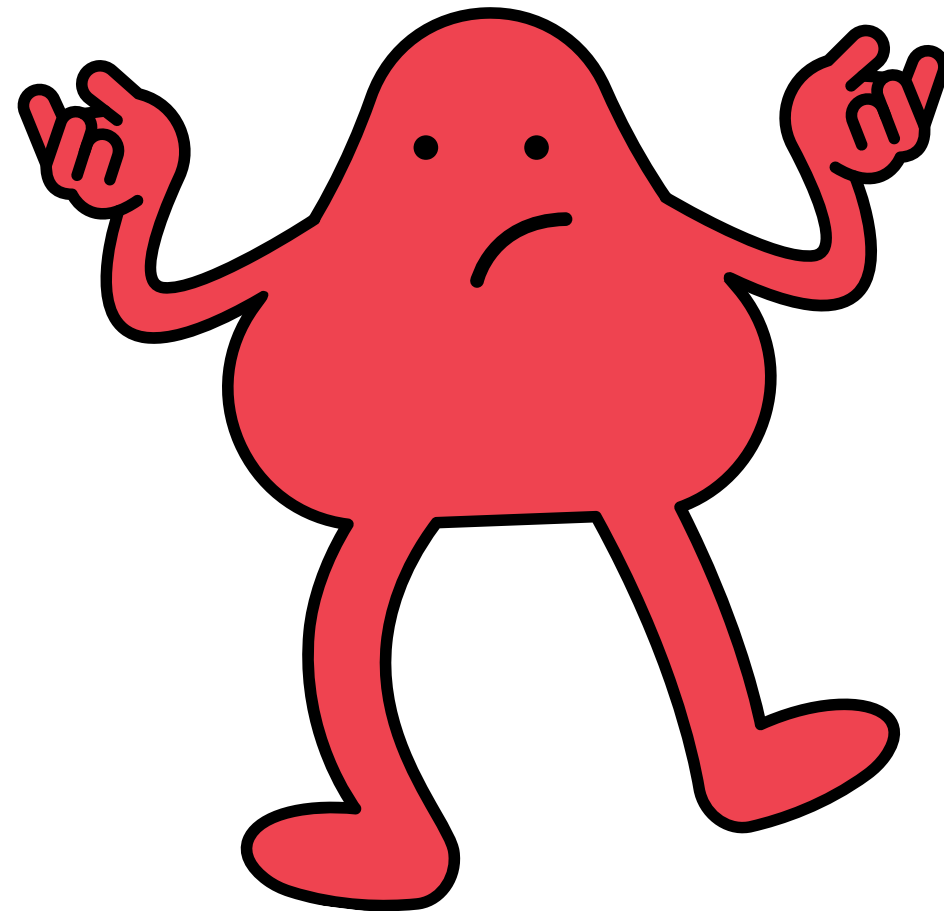
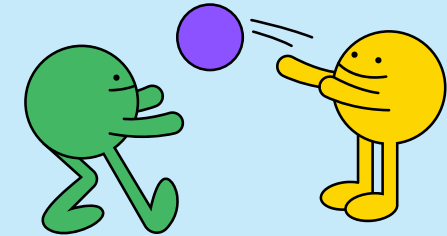
“But because Phil only has one X and Y chromosome, he does have haemophilia.”

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

Phil asks.

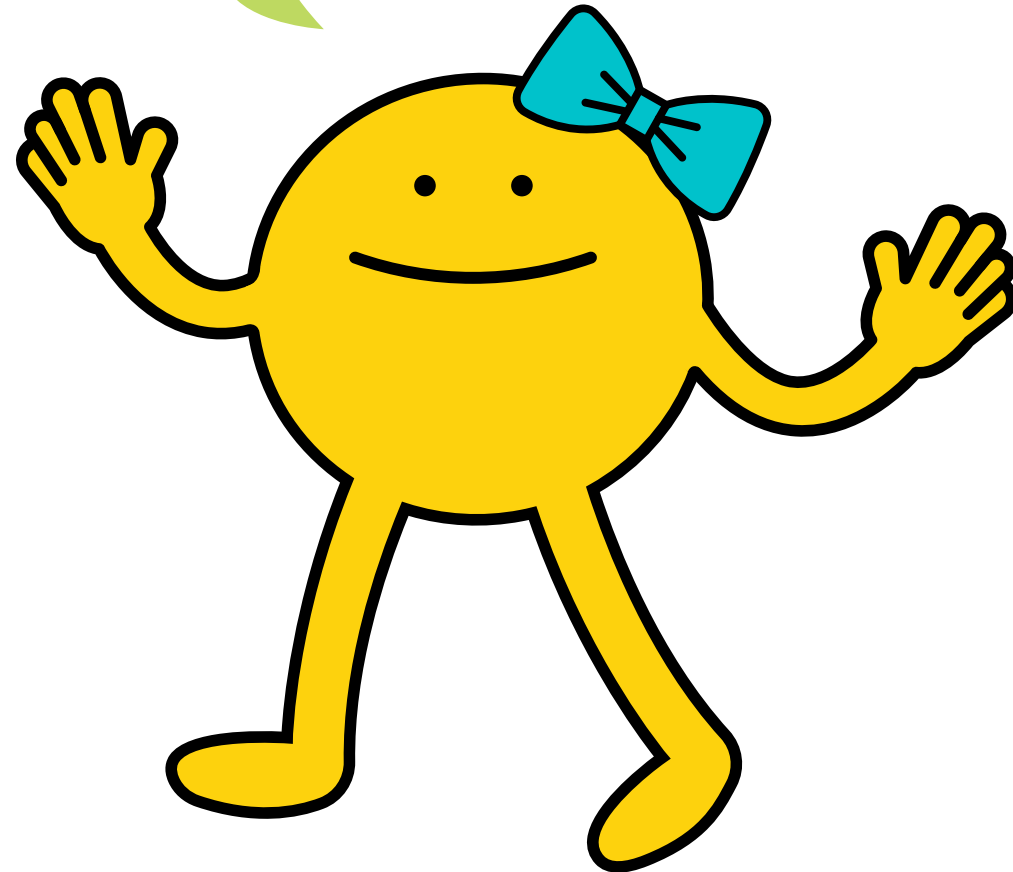
“No, it is a rare condition, so you might not know anyone who has it,” replies the Doctor.

Do my friends have haemophilia too?





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



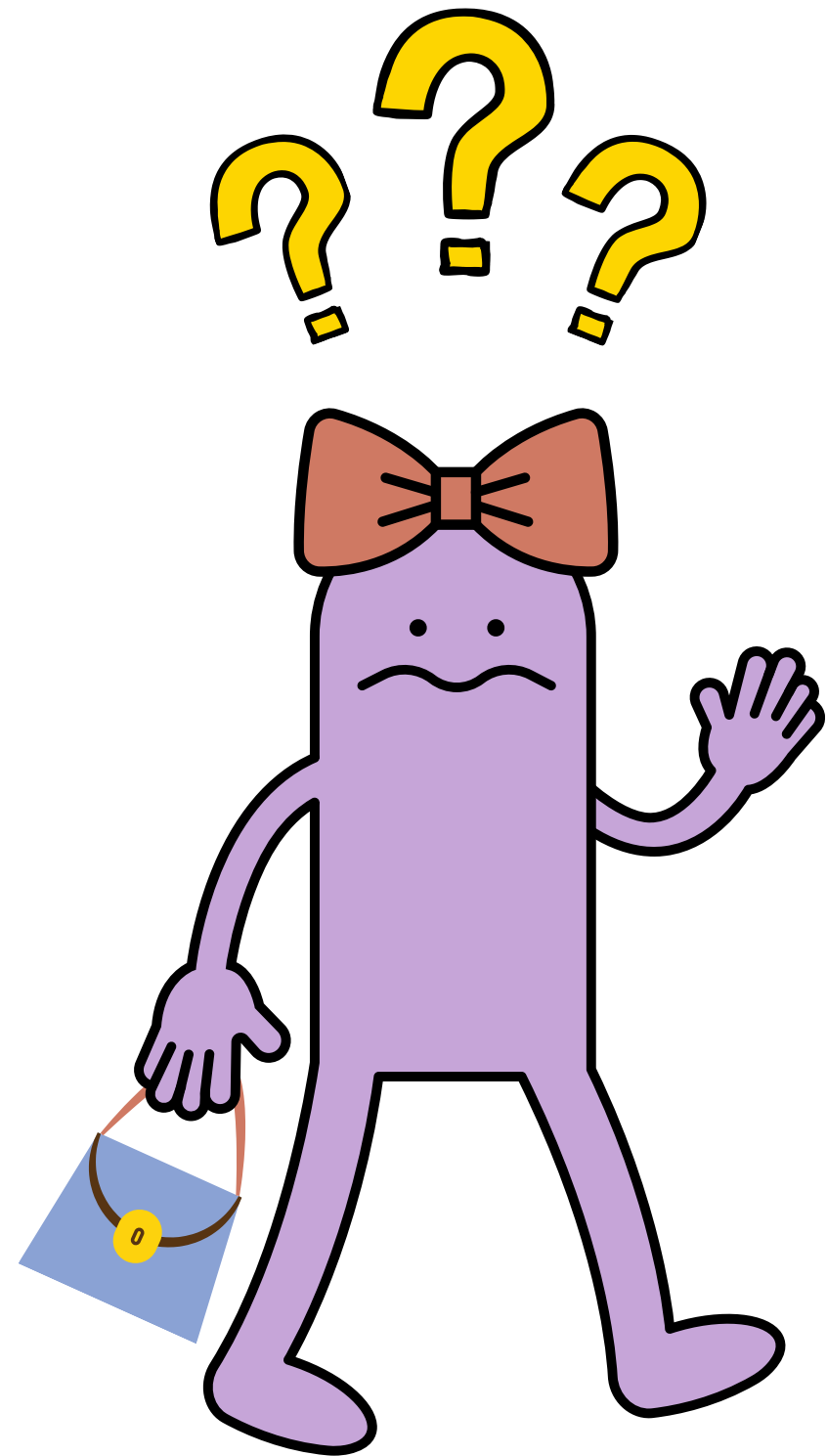
“If X/Y chromosomes came from our parents, does that mean they have haemophilia too?”, Phil asks.

“Sometimes”,  
the Doctor answers.

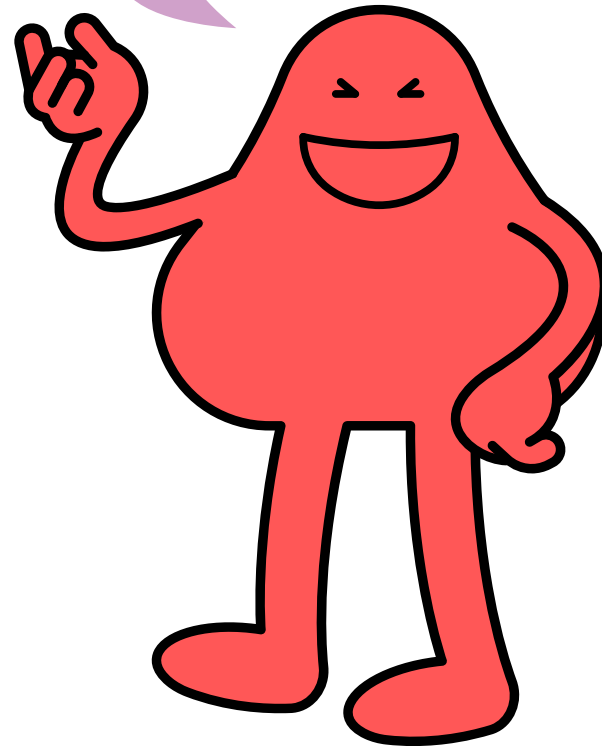
“But you, Phil, got it from your mother who is a carrier like your sister.”

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.



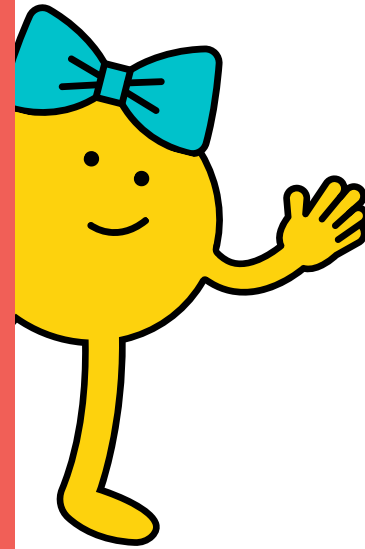
# About

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.

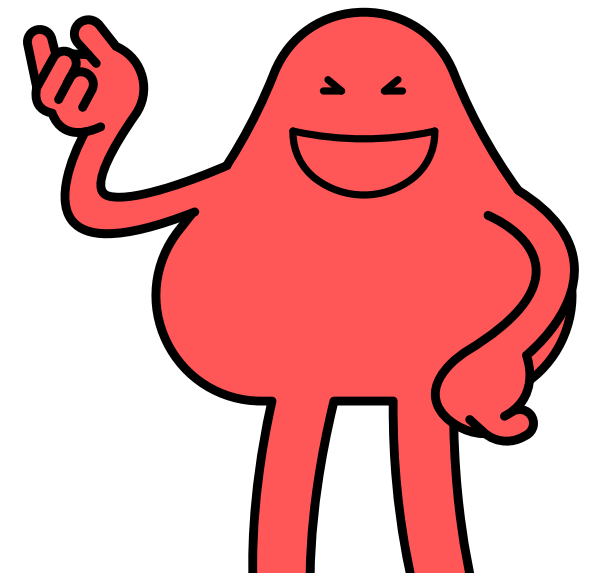
This is a simplified narrative of the disease Haemophilia. This explanation can be built upon to further educate young children about this disease.





# Glossary

|                         |   |
|-------------------------|---|
| <b>Carrier</b>          | A person who 'carries' a genetic health condition that can be passed on to their children.  |
| <b>Chromosomes</b>      | 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. |
| <b>Clot</b>             | A plug that stops blood from escaping out of a cut or graze on the skin. It helps to heal the skin after injury.                            |
| <b>Clotting Factors</b> | A substance in a person's blood that helps to form clots.   |
| <b>Health Condition</b> | A broad term used to describe an injury, illness, or disease that affects someone's health.   |
| <b>Platelets</b>        | A small cell fragment found in someone's blood that works with clotting factors to help form clots.   |







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