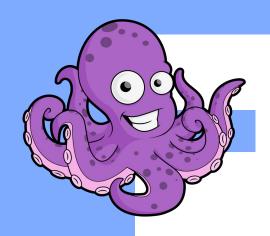
Understanding

PLATELET MORPHOLOGY

Their Purpose

TO CLOT
BLOOD TO
STOP
BLEEDING





What makes them change shape?

They're literally shaped like small plates in their non-active form. A blood vessel will send out a signal when it becomes damaged. When platelets receive that signal, they'll respond by traveling to the area and transforming into their "active" formation. To make contact with the broken blood vessel, platelets grow long tentacles and then resemble a spider or an octopus.

>200,000

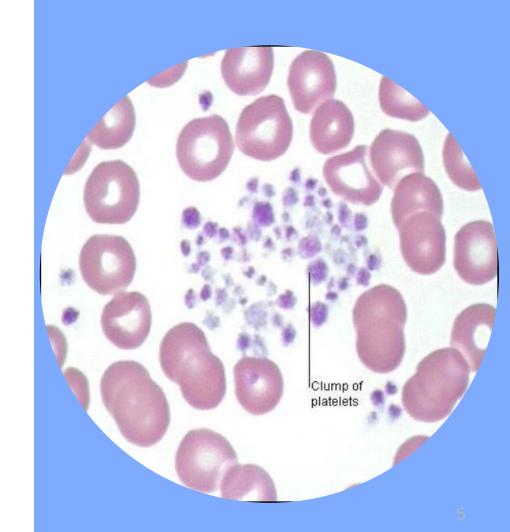
Is a normal platelet count

Platelet Clumping

Can be due to a bad stick when drawing the blood

Can also be due to EDTA

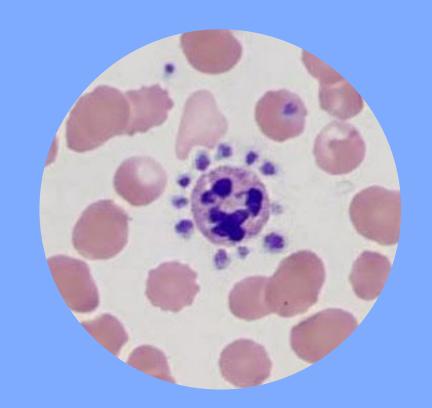
Sometimes the machine will miss these if they clump to the side



Satellite Platelets

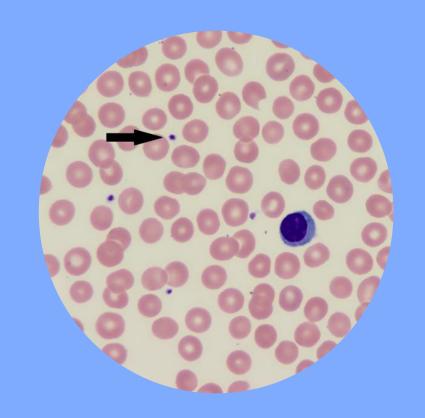
Can also be due to EDTA

Careful, Machines will read this as part of the WBC instead of platelets



Microplatelets

Can be early signs of ITP in some cases, but not always

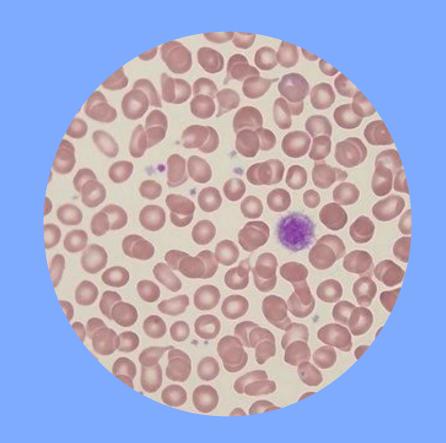


Macroplatelets

Larger than a normal red blood cell

Can be from an autoimmune disorder

Machines can falsely read these as WBCs



Manual PLT Count



Number a paper 1-10.
While looking through the microscope on 100x lens count how many PLTs you see in the field.
Write the next to number 1. Repeat the step 9 more times with a new field each time.

Step 1: Add it All Up 2+6+5+10+8+6+6+9+7+4=63 Step 2: Find the Average 63 platelets - 10 fields = 6.3 Step 3: Multiply by 15,000 6.3×15,000 = 94,500 That's your Count!

Thanks!

Does anyone have any questions?

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