

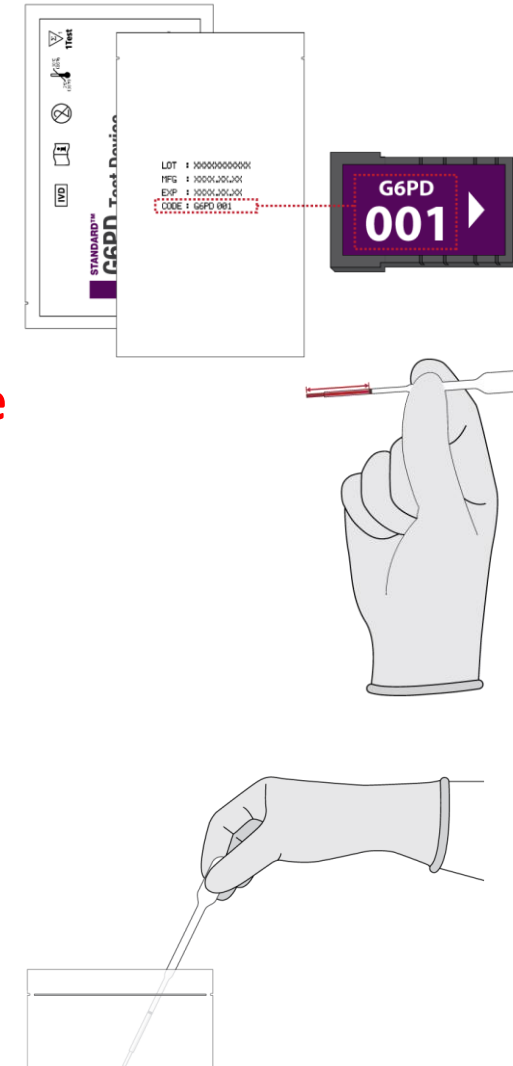
- ***By the end of this session you should be able to:***
 - **Perform the SD Biosensor quantitative G6PD test**
 - **Understand common user mistakes when performing the test**

Practical session – Performing a quantitative G6PD test

- **In groups of 4-5 undertake a quantitative G6PD test**
- **Ensure that each person in the group does at least four separate tests**
- **Note down where you have difficulties using the test**

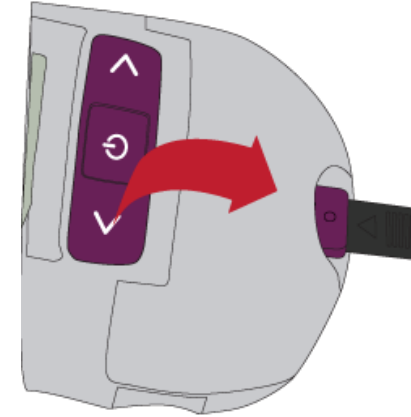
Common user mistakes (1/2)

- X Forgetting to ensure that the correct code chip is in the machine and matching it with the Test Device**
- ✓ Always double check that the Code Chip number with the Test Device prior to use
- X Insufficient blood or buffer mix collected with the sample collector**
- ✓ Hold the sample collector horizontally and do not remove until the blood or buffer mix reaches the black line
- X Using the same sample collector to collect blood and buffer**
- ✓ Dispose of the sample collector immediately after blood is added to the buffer solution
- ✓ Use a new sample collector every time you need to collect blood or buffer



Common user mistakes (2/2)

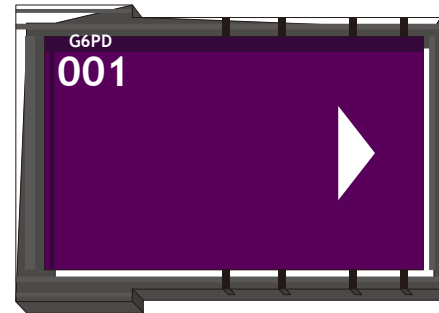
- ✗ **Waiting too long to close measurement chamber and analyzer times out.**
 - ✓ **Close measurement chamber flap immediately after applying specimen.**
-
- ✗ **Confusing G6PD measurement and haemoglobin measurement**
 - ✓ **The Hb in the top right indicates units of G6PD enzyme activity per gram of Hb**
 - ✓ **The bottom left Hb indicates total haemoglobin measurement**



Competency testing

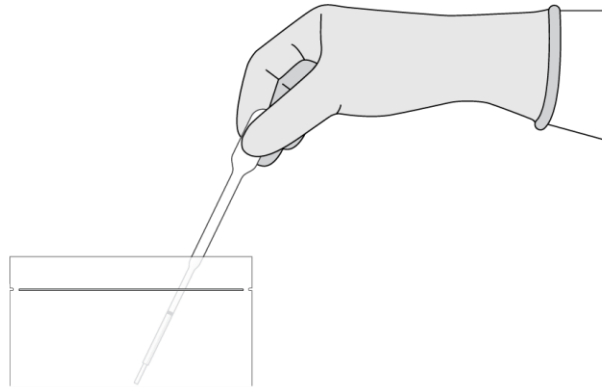
QUIZ!

How do you use the code chip?



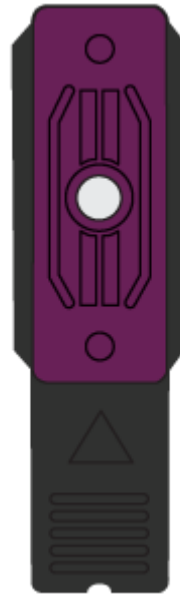
QUIZ!

What is the minimum number of sample collectors needed to perform a G6PD test for one patient?



QUIZ!

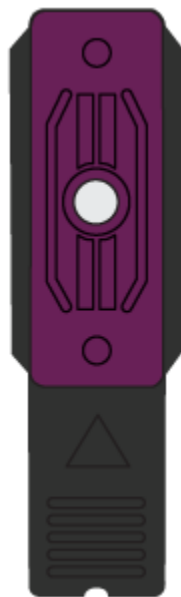
Can you re-use the test device?



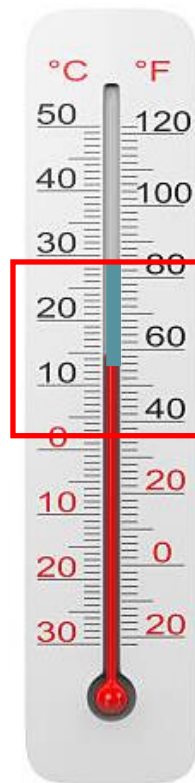
What is the temperature range at which the test device and other components should run?



What is the temperature range for storing the analyzer and test devices?



G6PD test device?



G6PD analyzer?

QUIZ ANSWERS

- **How do you use the code chip?**
 - Insert a new code chip into the analyzer for a new box of test devices.
- **How many sample collectors should you use for each patient?**
 - TWO
- **Can you re-use the test device?**
 - NO
- **What is the temperature range for running the test with patient samples ?**
 - 15 – 40 degrees Celsius
- **What is the temperature range at which the test device and other components should be stored?**
 - 2 – 30 degrees Celsius