



# ANAEMIA SCREENING AT HOSPITAL ADMISSION

Protocol number: ISRCTN62396133  
Version 1.0; Date 05 April 2019

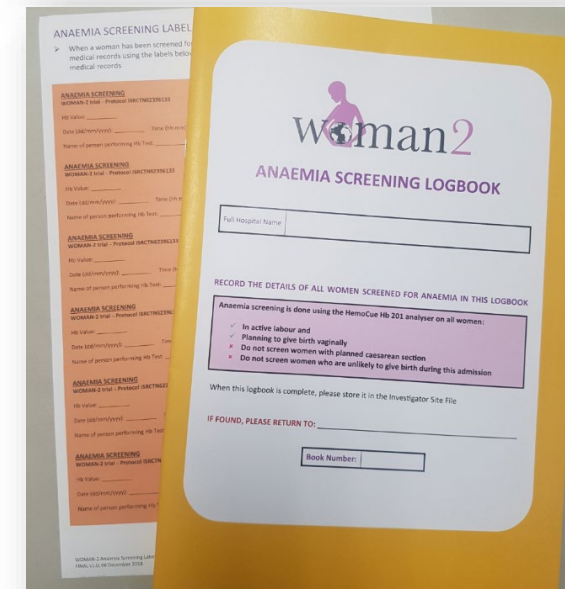
# SCREENING FOR ANAEMIA

**On admission to hospital, offer the woman a free assessment of their haemoglobin using the HemoCue if she is:**

- In active labour**
  - Planning to give birth vaginally**
- 
- A woman has the right to accept or decline
  - If a woman is found to have moderate or severe anaemia (Hb <100 grams/litre), they will be offered the opportunity to take part in the WOMAN-2 trial

# WHAT MATERIALS WILL YOU NEED?

- **HemoCue Hb 201 analyser and consumables**
  1. HemoCue Hb 201 analyser
  2. HemoCue Hb 201 microcuvettes (*used to collect the blood sample for analysing*)
  3. Gloves
  4. Skin cleaning swabs
  5. Lancets (*for capillary samples*)
  6. Gauze/ lint free wipe (*non-fraying*)
  7. Biohazard disposal (*follow hospital protocol for hazardous waste disposal*)
- **WOMAN-2 Anaemia Screening Logbook**
- **WOMAN-2 Anaemia Screening Labels**



# SCREENING FOR ANAEMIA

- To screen for anaemia, a HemoCue Hb 201 analyser has been provided.
- The HemoCue Hb 201 analyser is a handheld device used for standard point of care haemoglobin testing:
  - A small sample of blood, taken from the participant's finger, is tested in the analyser
  - Results are available in 15 – 60 seconds

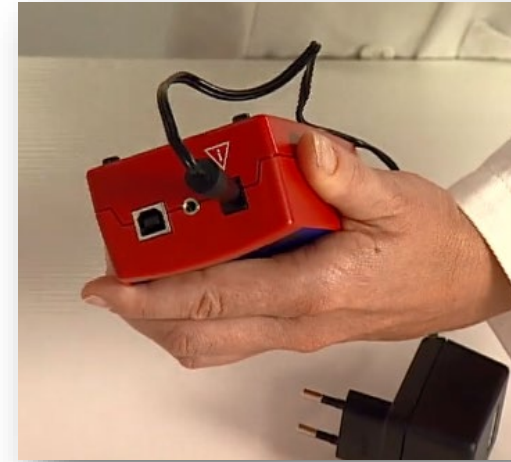


# USING THE HEMOCUE ANALYSER

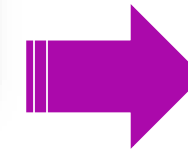
- The HemoCue Hb 201 analyser can be powered by either:
  - The AC power adapter
  - 4 x AA batteries
- Before preparing a blood sample for testing, take the container of microcuvettes and check:
  1. **date of opening.** If it has been 90 days since opening, DO NOT USE
  2. **expiry date**

## NOTE:

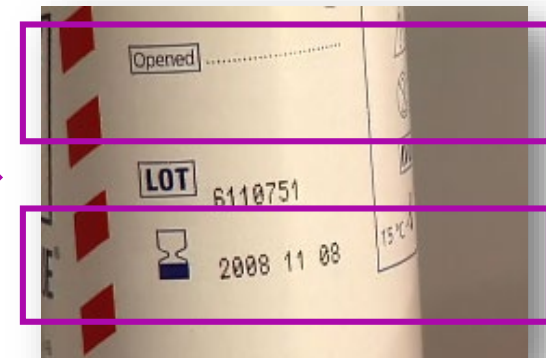
- *After use, always replace the lid to the microcuvettes and make sure it is properly sealed to protect their shelf life*
- *Store microcuvettes at room temperature (do not refrigerate)*



date of  
opening



expiry  
date



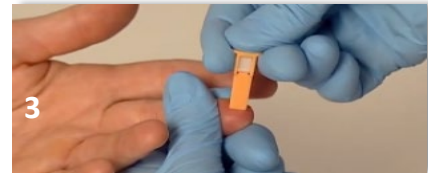
# USING THE HEMOCUE ANALYSER

## TAKING A BLOOD SAMPLE FOR TESTING (1/2) :

**Explain to the woman what is going to happen before you start**

**Follow standard hand hygiene procedure and put on gloves then:**

- 1. Clean woman's finger** with alcohol swab and allow to dry or wipe with dry gauze/lint free wipe
- 2. Stimulate blood flow**, use your thumb to gently press the finger from the top of the knuckle to the tip
- 3. Puncture the SIDE of the finger (not the centre) with the lancet**, while applying pressure to towards the finger tip
- 4. Wipe away the first 2-3 drops of blood** with dry gauze/lint free wipe

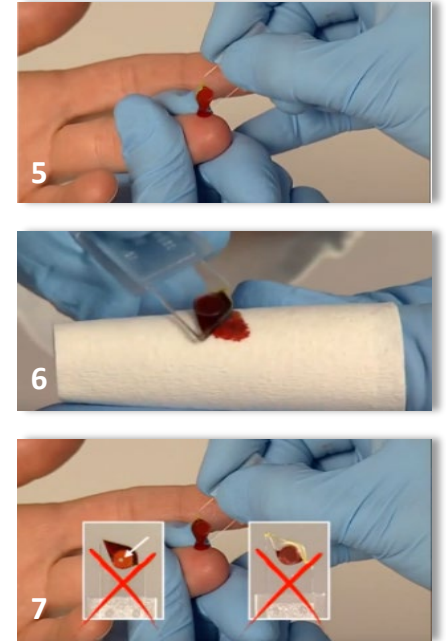


# USING THE HEMOCUE ANALYSER

## TAKING A BLOOD SAMPLE FOR TESTING (2/2) :

5. **Apply light pressure to fingertip until another drop of blood appears, fill the microcuvette** in one continuous process. Hold the cuvette in the centre of the drop for 2 seconds (count to 2 slowly). **Note!** *If the blood drop is not large enough you will get a false low reading*
6. **Wipe off excess blood from the outer surface of the cuvette** with dry gauze/lint free wipe, be careful not to touch the open end of the cuvette. **Note!** *Make sure that blood is not drawn out from the cuvette during this procedure!*
7. **Look for air bubbles in the filled cuvette.** If any air bubbles are present, fill a new cuvette. Small bubbles around the outer edge can be ignored

**NOTE:** The microcuvette should be filled within 3 minutes of taking it out from the microcuvette tub





# USING THE HEMOCUE ANALYSER

## ANALYSING THE BLOOD SAMPLE:

1. Turn on the HemoCue Hb 201 analyser
2. Open the cuvette holder and place filled microcuvette into the cuvette holder.
3. Close the cuvette holder and wait 15-60 seconds for the result

***Note! This should be performed within ten minutes after filling the cuvette!***

4. Dispose of the microcuvette (*follow hospital protocol for hazardous waste disposal*)



**NOTE:** If the HemoCue analyser shows an error message, turn the analyser OFF and ON and retry. If the problem continues, speak to the trial team member responsible for outcome data collection as they will be trained to troubleshoot the issue for you.



# RECORDING SCREENING RESULTS

- Give results to woman and explain findings e.g. if anaemic
- Enter details in the Anaemia Screening Logbook immediately after test is completed
- Record details in woman's medical record using the labels provided
- If labels cannot be used or are not available, please record the following fields in her medical records:
  - *Hb results, date of test, time of test and name of person performing the test*

**PLEASE INFORM TRIAL TEAM OF ALL WOMEN WITH A HB <10 G/DL**

ONLY SCREEN WOMEN IN ACTIVE LABOUR WHO PLAN TO GIVE BIRTH VAGINALLY  
Please complete all sections of the log

Initials of woman (first letter of name & surname only)	Age	Haemoglobin (Hb) Test			Name of person recording this information
		Hb value (g/dL)	Date (mm/dd/yy)	Time (hh:mm)	

**ANAEMIA SCREENING LABEL**

➤ When a woman has been screened for anaemia, record the details of their haemoglobin (Hb) test results in their medical records using the labels below. Where possible, please fix the label to the medical records

**ANAEMIA SCREENING**  
WOMAN-2 trial - Protocol ISRCTN62396133

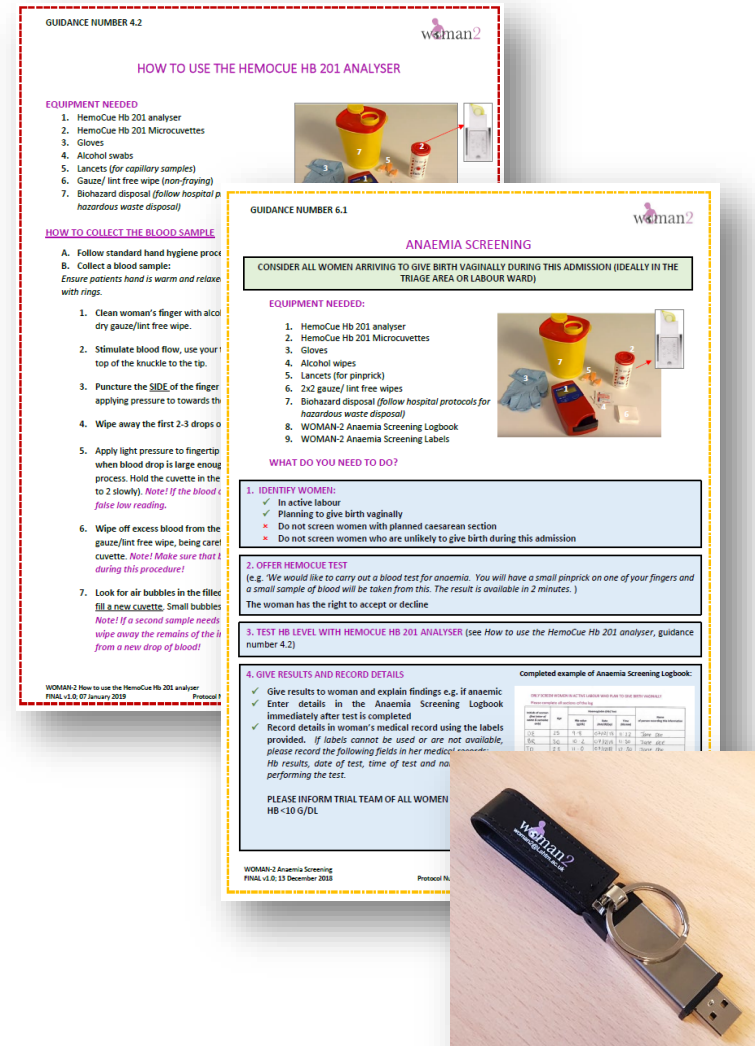
Hb Value: 9.2  
Date (dd/mm/yyyy): 01/04/2019  
Time (hh:mm): 15:15  
Name of person performing Hb Test: \_\_\_\_\_

**ANAEMIA SCREENING**  
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Hb Value: \_\_\_\_\_  
Date (dd/mm/yyyy): \_\_\_\_\_  
Time (hh:mm): \_\_\_\_\_  
Name of person performing Hb Test: \_\_\_\_\_

# FOR FURTHER GUIDANCE SEE:

- The Trial Procedures File, section 4 and 6:
  1. How to use the HemoCue Hb 201 Analyser, guidance number 4.2
  2. Anaemia screening, guidance number 6.1
- HemoCue HB 201 videos (available on USB stick provided or on trial website ([woman2.lshtm.ac.uk](http://woman2.lshtm.ac.uk)))





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