

## Our Hospice of South Central Indiana Nursing- Clinical Guidelines

### Coagucheck XS System (INR Testing)

<b>Supplies:</b>	Gloves	Coagucheck machine	Lancet	Testing strip	Sharps container	Alcohol prep pads	2x2 gauze	Adhesive bandage
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1. Review or obtain provider's order.
2. Gather and prepare necessary equipment and supplies.
3. Wash hands thoroughly prior to and after contact with the patient.
4. Confirm the patient's identity.
5. Provide privacy.
6. Explain procedure to patient and/or caregiver.
7. Raise the bed to waist level before providing care.
8. Put on gloves and, as needed, other protective equipment.
9. Prepare the lancet device according to the manufacturer's instructions.
10. Place meter on a flat surface, free of vibrations, or hold it in your hand so the meter is roughly horizontal. Do not move the meter during testing.
11. Take a test strip out of the container. Holding the test strip so the lettering "CoaguChek XS PT" is facing upward, slide the test strip into the test strip guide in the direction indicated by the arrows.
  - a. Slide the test strip in as far as it will go to turn the meter on.
  - b. A beep tone indicates that the meter has detected the test strip (provided the beeper is turned on in the settings).
12. Check the battery level. If there are no bars left in the battery symbol, you cannot perform any additional tests. Change the battery, as needed.
13. Check that the meter date and time are correct. See CoaguChek User Manual for directions to correct if needed.
14. Confirm that the code number displayed on the meter matches the number on the test strip container.
  - a. If the numbers match, press the "M" button to continue.
  - b. If the numbers are different, make sure you are using the code chip that came with the test strips you are using.
15. When the blood drop symbol flashes to indicate that the meter is ready to perform the test and is waiting for blood to be applied, a 180-second countdown begins.
16. Collect the finger stick or venous blood sample as outlined below:
  - a. Prep the finger stick site with alcohol prep. Finger must be completely dry before finger stick. DO NOT wipe away the first drop of blood. Apply the first drop of blood to the top or side of the target area of the test strip within **15 seconds** of puncture. Hold the blood drop to the test strip until you hear a beep (provided the beeper is set to ON).
  - b. Only touch the actual blood drop to the test strip. Touching the patient's finger to the test strip with the application will most likely result in an error.

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17. Apply the blood directly to the semicircular, transparent sample application area of the test strip. You will hear a beep tone when you have applied enough blood (provided the beeper is turned on). The blood drop symbol disappears and the test starts.
18. The meter automatically performs a two-level, on board quality control test on the test strip before it displays the test result. "QC" appears in the display. Following a successful outcome of the quality control test, a check mark appears after "QC".
  - a. To resolve QC error messages, carefully follow the instructions in the User Manual.
19. Wait for results – this takes about one minute.
20. The result is displayed in the unit of measure you chose when setting up the meter. It is automatically saved to memory.
21. Read and record results in the medical record. Remove the test strip from the measurement chamber.
22. Turn meter OFF by pressing I, on the right side of the meter face. Meter will automatically turn off.
23. Dispose of used test strip and lancet in the appropriate container.
24. Clean the meter and test strip guide after use. Use an alcohol wipe to clean both the housing and strip area of 70% alcohol. Let dry for at least 10 minutes before using.
25. Remove and discard your gloves and other personal protective equipment worn.
26. Perform hand hygiene.
27. Document procedure, results, follow up and patient response in the medical record.

**If troubleshooting is unsuccessful, and control results are still unacceptable, call Roche Diagnostics Technical Service Center at 1-800-428-4674.**

**References:**

CoaguChek XS System Policies and Procedures Manual by Roche Diagnostics

Technical Assistance, contact Roche Diagnostics at 1-800-428-4674 (24 hours/7Days per week)

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**Historical Reviews & Revisions:**

Review Date	Reviewer's Name(s)	Changes Made? (YES or NO)
5/6/2025	Dr. Anderson, Amy Lowe, Clinical Director, Shannon Johnson Clinical Compliance	New, approved