# CoaguChek® XS Plus System

## Getting Started



Roche

## GETTING STARTED ►

**Follow these steps to get started using the meter:**

1. Watch the *CoaguChek XS Plus System DVD*. It will help you get comfortable with the CoaguChek XS Plus Meter and the testing procedures.
2. Read this *Getting Started* guide. You will learn how to set up and perform your first blood and optional liquid quality control tests on the CoaguChek XS Plus Meter.
3. With this *Getting Started* guide by the meter, follow the steps to perform your first test.

**Then, as necessary, refer to the user manual:**

The *CoaguChek XS Plus System User Manual* is a comprehensive guide to the meter and test strips. It is designed to provide answers to your questions about the meter's operation and use.

## INSTALLING BATTERIES ►

### 1. Open Compartment



Press the release tab on the battery cover on the back of the meter.

Slide the battery cover off.
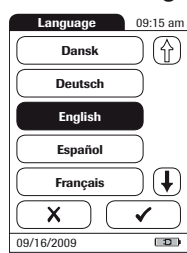
### 2. Insert Batteries



Insert 4 AA batteries according to the diagram inside the battery cover.

Replace the cover.

*After you insert the batteries, the meter powers on and the screen changes to the language menu.*

*You'll need to set several parameters before using the meter for the first time.*
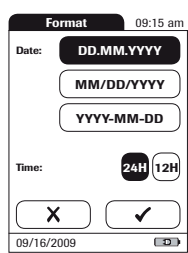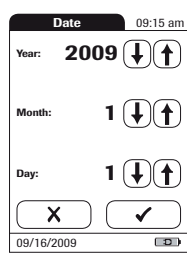
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## SETUP ►

### 3. Set the Language



**English** is the default selection. It is highlighted in black.

Press ✔

to save your language setting.

The display changes to the Date and Time Format screen.

### 4. Set the Date and Time Format



**MM.DD.YYYY** is the default date selection.

**12H** is the default time selection

Press ✔ to save your date and time format settings.

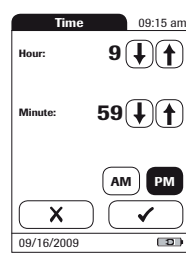The display changes to the Date screen.

### 5. Set the Date



Press ⬇ or ⬆ to select the year, then

⬇ or ⬆ to select the month, then

⬇ or ⬆ to select the day.

Press ✔ to save the current date.

The display changes to the time screen.

*The date settings are important. Each time you run a test, the meter compares its date with the test strip's expiration date. An incorrect date may cause an expired strip error on in-date strips preventing you from running a test.*
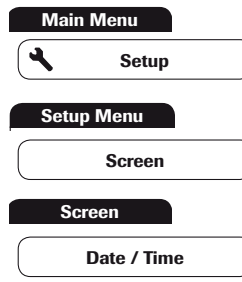
*If the test strips are expired, the meter displays an error message and prevents you from running a test.*

### 6. Set the Time



Press ⬇ or ⬆ to select the hour, then

⬇ or ⬆ to select the minutes

then **AM** or **PM**.

Press ✔ to save the current time.

The display returns to the Main Menu.



You may change or re-enter the date, time or format at any time. Always access these options by:

Pressing **Setup** on the main menu, then

**Screen** on the setup menu, then

**Date/Time** on the screen menu

…which brings you to the Set Date, Set Time, and Format options.

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## PREPARING FOR A TEST ►

### 1. Gather the Following Items



- CoaguChek XS Plus Meter
- Container of test strips
- Test Strip Code Chip
- CoaguChek Lancet
- Alcohol wipe
- Cotton ball

### 2. Match Code



The code number on the test strip container and the test strip code chip must match.

*Each box of test strips comes with a matching code chip. Test strip code chips are identified with an "S."*

*Every time you open a new box of test strips, you will replace the test strip code chip.*

### 3. Insert Test Strip Code Chip



With the code number facing up, insert the code chip into the code chip slot until it snaps into place.

### 4. Wash Hands



Have the patient wash his or her hands in warm, soapy water. Or, clean the fingertip with an alcohol wipe.

*Make sure the fingertip and your gloved hands are thoroughly dry.*



**Before continuing, review these tips for getting a good blood drop.**

Increasing the blood flow in the finger will help you get a good drop of blood, so keep in mind these tips:

- Warm the hand. Have the patient hold it under his or her arm, use a hand warmer, and/or wash with warm water.
- Have the patient let that arm hang by his or her side.
- Massage the finger from its base.

*Use these techniques until the fingertip has increased color.*

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## TESTING ►
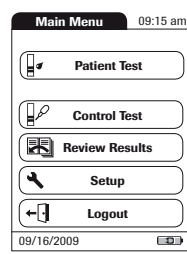
### 1. Remove a Test Strip



Take a test strip out of the container.

**Close the container tightly.**

*You have 10 minutes to use a test strip once you remove it from the container.*

### 2. Insert Test Strip



Slide the test strip into the test strip guide in the direction of the arrows until it stops.

*The meter powers on, and the main menu appears.*

*If you insert a strip from a new lot number for the first time, the meter will display the number of the test strip code chip required. Remove the old code chip and insert the new one.*

### 3. Select Patient Test



Press **Patient Test** on the main menu screen.

Enter the Patient ID.

*An hourglass symbol appears.*

*A test strip symbol appears with a flashing blood drop. You have 180 seconds to apply the sample.*

### 4. Collect the Sample



Twist the protective cap off the lancet.

*Massage the finger until you see increased color in the fingertip.*

Keeping the hand down, press the tip of the lancet firmly against the side of the fingertip. Press the blue trigger button.

*Gently squeeze from the base of the finger to develop a drop of blood.*

### 5. Apply the Sample



**Within 15 seconds of sticking the fingertip**, apply the blood to the target area on the test strip.

Find the clear target area on the test strip. You can dose from the side or top.

*Hold the blood drop to the test strip until you hear a beep. The flashing blood drop symbol will disappear and an hourglass symbol symbol appears and the test begins.*

**Do not add more blood to the test strip. Do not touch the test strip while the test is in progress.**

*The meter performs an automatic quality control check on the strip before it displays the test result.*

**QC** ✔ *appears in the display briefly following a successful QC check.*

*The result appears in less than a minute.*

### 6. Record Result



Record your result as instructed by your facility.

*Note: If during testing the meter displays an error message, refer to the Error Messages section of the user manual for an explanation and steps on how to proceed.*

### 7. Clean Up



Place the used strip and lancet in an approved biohazard container.

Power the meter off.

# PREPARING TO RUN AN OPTIONAL LIQUID QUALITY CONTROL TEST ►

### 1. Gather the Following Items



- CoaguChek XS Plus Meter
- Container of test strips
- Test Strip Code Chip
- CoaguChek XS Plus PT Control Solutions
- Diluent Dropper (2)
- Quality Control Code Chip

### 2. Match Code



The code number on the control solution and the Quality Control Code Chip must match.

*Each box of controls comes with a matching code chip. Control code chips are identified with a "C" in the number.*

### 3. Reconstitute Control Solution



Open a bottle of lyophilized control.

Cut off the flared tip of the dropper at the end of the stem.

Hold the diluent dropper vertically by the stem, not the bulb, to avoid loss of diluent.

*Do not hold the pipette close to your face.*



Transfer the entire contents of the dropper to the bottle. Do not touch the dropper to the dried material or to the sides of the bottle.

Do not discard the dropper. You will need it to apply a drop of control to the test strip later in the test.



Close the bottle.

Gently swirl the bottle using a circular motion to dissolve the dried material.

*Do not shake or turn the bottle on its side or upside down. Avoid creating bubbles.*

Let the bottle sit undisturbed for at least a minute to ensure that the dry material dissolves completely.

# RUNNING AN OPTIONAL LIQUID QUALITY CONTROL TEST ►

### 1. Remove a Test Strip



Take a test strip out of the container.

**Close the container tightly.**

*You have 10 minutes to use a test strip once you remove it from the container.*
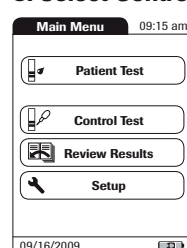
### 2. Insert Test Strip



Slide the test strip into the test strip guide in the direction of the arrows until it stops.

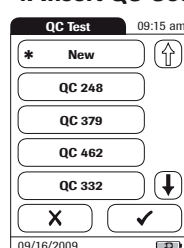*The meter powers on, and the main menu appears.*

### 3. Select Control Test



Press **Control Test** on the main menu screen.

*An hourglass symbol appears.*

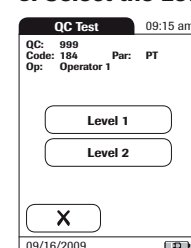*The QC Test menu appears.*

### 4. Insert QC Code Chip



Press **New** on the QC Test menu.

*A code chip symbol with a flashing arrow appears on the screen.*

Remove the Test Strip Code Chip and insert the Quality Control Code Chip with the number facing up until it snaps into place.

*The meter stores the code chip information in memory for future use.*

### 5. Select the Level



Select **Level 1** for running a level one control.

*An hourglass symbol appears.*

*A test strip symbol appears with a flashing dropper symbol. You have 180 seconds to apply the quality control solution.*

### 6. Collect Control



Using the dropper, gently squeeze and hold the bulb. Insert the tip of the dropper into the control solution. Slowly release the bulb to draw the control up to the bulb. Avoid creating bubbles in the control.

### 7. Apply the Control



Apply a drop of control to the target area.

*Hold the control drop to the test strip until you hear a beep. The flashing dropper symbol will disappear. An hourglass will appear, indicating the test is in progress.*

Return any unused control to the bottle for additional tests. Reconstituted controls are good for 30 minutes.

*The result appears in less than one minute.*

### 8. Record Result



Record your result as instructed by your facility.

*Note: If during testing the meter displays an error message, refer to the Error Messages section of the user manual for an explanation and steps on how to proceed.*

*Run a level 2 control test with a new test strip following the same steps.*

### 9. Remove Control Code Chip



Remove the Quality Control Code Chip and store it with the remaining controls.

Replace the Test Strip Code Chip.

*Roche Diagnostics recommends that you keep a code chip in the slot to keep the electrical contacts free of dirt.*

### 10. Clean Up



Place the used strip and control bottles in an approved biohazard container.

Power the meter off.

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