SIEMENS

CLINITEK Advantus® Urine Chemistry Analyzer

PEP to Go

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System Overview

Key Components and Features

1. Touch Screen
   Software interface, used to operate the analyzer
2. Printer
   Automatically prints completed results
3. Strip Loading Station
   User loads strip test for analysis
4. Incubation/Read Station
   Incubates and analyzes/scans the strip test
5. Waste Bin
   Stores used test strips
6. Barcode Reader
   Scans information into the system

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System Overview

Key Components and Features

1. Memory Card Slot
   Update software
2. Keyboard/Barcode Connector
   Connect external keyboard and hand held barcode reader
3. Interface Connectors
   Connects the analyzer to a hospital information system
4. Power Supply
   Provides power to the analyzer
5. Power Switch
   Turns the analyzer ON/OFF

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Quality Control

Preparing Quality Control

1. Add 12 mL distilled water or DI H20 into an appropriately labeled tube with Siemens Chek-Stix® control strips for urinalysis
   - Prepare a Positive and Negative control
2. Remove a Chek-Stix® control strip
3. Place the control test trip into the appropriate tube
4. Cap the tube and invert gently for 2 minutes
5. Allow the tube to stand for 30 minutes
6. Invert the tube 1 more time
7. Uncap the tube and discard the control strip per laboratory procedure
8. Repeat steps for the other control

Performing Quality Control

1. Select **Menu**
2. Select **QC**
3. Enter **ID Number**
   - QC Lot ID can be entered using a keyboard or scan it from a barcoded label
   - Select **QC0001** and **A-Z** to manually enter information
   - Select **Enter** to return
4. Enter the Expiration Date
   - The date can be entered using a keyboard or scan it from a barcoded label
   - The year and month can be entered manually
   - Select **Enter** to save the date
5. Select **Enter** to continue
6. Completely immerse all reagent pads of the strip test into the quality control solution
   - Immediately remove the test strip
   - Run the edge against the side of the container when removing
   - Caution: Do not blot the edge of the strip. This could affect results.
7. Place test strip onto the strip loading station
8. Repeat for the other control

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Sample Processing

Performing a Urinalysis Strip Test

1. Select the appropriate test strip
2. Check/change sequence number (if applicable)
3. Enter a Tech ID (if applicable)
4. Enter the Color and Clarity
   - Use the cycle keys on the Ready/Run screen
   - Default Color/Clarity values are YELLOW and CLEAR
5. Prepare the test strip for analysis
   - Completely immerse all of the reagent pads into the specimen
   - Immediately remove the test strip
   - Run the edge of the strip against the container when removing
   - Place the test strip onto the loading station with the reagent pads facing up
   - Place to the right of the push bar
   - Ensure the end of the strip is against the back wall

Note: DO NOT blot the urine strips – this may affect results.

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Stored Results

Recalling Patient Results

1. Select **Menu** from the Ready/Run screen
2. Select **Memory**
3. Recall Results
   - **All patient results** – the number of results will display to the right, a list of all stored patient results will be listed
   - **Last batch of patient results** – patient results between the last pause in testing and latest test will be listed
   - **Search for stored results** – search for a specific patient ID
4. Patient results can be printed, transmitted, and deleted from this screen

Recalling Quality Control Results

1. Select **Menu** from the Ready/Run screen
2. Select **Memory**
3. Select **All QC Results**
   - The number of results will display to the right, a list of all stored QC results will be listed
4. QC results can be printed, transmitted, and deleted from this screen

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Maintenance

Clean the Exterior and Touch Screen

1. Turn the analyzer power OFF
2. Clean the exterior of the analyzer using a damp cloth and a mild detergent
3. Clean the touch screen, with a soft nonabrasive cloth dampened with a mild detergent and water
   - Do not use bleach to clean the display

Remove and Clean the Push Bar

1. Turn the analyzer Off
2. Tilting the bar slightly upwards, pull the bar straight out
3. Clean the push bar with warm water and a mild detergent
4. Rinse thoroughly and dry with a paper towel or soft cloth
5. To reinstall the push bar refer to the *Maintenance: Reinstalling* tab in this document

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Maintenance

Remove and Clean the Fixed Platform

1. Turn the analyzer Off
2. Remove the waste bin container and discard the used test strips into an appropriate container
3. Remove the fixed platform by pull the entire assembly towards you
4. Clean the platform with warm water and a mild detergent
   - Rinse thoroughly and dry with a paper towel or soft cloth
   - Allow the calibration bars to air dry
5. Inspect the calibration bars for scratches, marks, or discoloration
   - Discard and replace the platform with a new one if the bars can not be cleaned
6. To reinstall the platform refer to the *Maintenance: Reinstalling* tab in this document

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Maintenance - Cleaning

Remove and Clean the Holddown Plate

1. Turn the analyzer Off
2. Press upwards on the tab at the back of the plate
3. Pull the other end from its retaining hole
4. Clean the holddown plate with warm water and a mild detergent
   - Wipe with a damp cloth
   - If the holddown plate is extremely dirty, soak in warm water and a mild detergent to loosen the dried residue
   - Rinse and dry with a paper towel or soft cloth
5. To reinstall the holddown plate refer to the *Maintenance: Reinstalling* tab in this document

Remove and Clean the Moving Table

1. Turn the analyzer Off
2. Pull the moving table towards you
3. Clean the moving table with warm water and a mild detergent
   - Rinse thoroughly and dry with a paper towel or soft cloth
   - Use care when drying around the pins
6. To reinstall the moving table refer to the *Maintenance: Reinstalling* tab in this document

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Maintenance - Reinstalling

Reinstalling the Moving Table

1. Hold the table with the small rectangular tab facing to the back
2. Align the 2 grooves on the bottom of the table with the edges of the platform on which the table rests
3. Gently push the table in until you hear the tab latch into the hold position
4. Check that the table is secure

Reinstalling the Holddown Plate

1. Position the holddown plate with the arrow side facing up and the arrow pointing towards the back
2. Place the pin on the front of the holddown plate into the hold at the front of the fixed platform
3. Align the tab at the back of the holddown plate with the slot at the back of the platform
4. Snap the holddown plate into place. Listen for a loud click, indicating proper installation
5. Ensure the white calibration bars are visible

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Maintenance - Reinstalling

Reinstalling the Fixed Platform

1. Align the 2 grooves on the bottom of the fixed platform with the arms extending forward from the analyzer
   - The flanges on the sides of the holddown plate align just outside the read area cover. The top edge of the platform aligns just under the cover
2. Gently push the platform in as far as possible
   - Push past the ridge to correctly position the platform
   - Caution: Do not for the platform. You may damage the moving table or fixed platform if incorrectly positioned

Reinstalling the Push Bar

1. Hold the push bar at the indented end
2. With the end slightly upward, insert the peg on the other end of the bar into the hold in the push mechanism
3. Lower the push bar into place

Reinstalling the Waste Bin Liner

1. Place a new liner into the waste bin

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