

Quick Guide to Cepheid Procedures [Immunology Manual]		
Doc#: imm 3003	Section: MICROBIOLOGY	Effective Date: October 27,, 2020

SCOPE: This policy applies to UPMC Hanover.

KEYWORDS: PCR testing, Cepheid, PCR

MRSA PROCEDURE:

1	Remove a cartridge and an elution buffer vial from the packages.
2	Remove swab from patient into elution reagent, break off, and close tightly.
3	Close lid and vortex at high speed for 10 seconds
4	Open cartridge lid. Using sterile transfer pipette, transfer entire contents from vial to sample port in cartridge. Close lid. Discard vial and pipette.
5	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan MRSA barcode.
6	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close doo

CDIFF PROCEDURE:

1	Remove a cartridge and an elution buffer vial from the packages.
2	Briefly place swab into liquid of very soft stool, add to elution reagent, break off, and close tightly.
3	Close lid and vortex at high speed for 10 seconds
4	Open cartridge lid. Using transfer pipette, transfer entire contents from vial to sample port in cartridge. Close lid. Discard vial and pipette
5	.In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge ad scan the cartridge barcode.
6	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.

MSSA/MRSA PROCEDURE:

1	Remove a cartridge and an elution buffer vial from the packages.
2	Remove swab from patient into elution reagent, break off, and close tightly.
3	Close lid and vortex at high speed 10 seconds
4	Open cartridge lid. Using sterile transfer pipette, transfer entire contents from vial to sample port in cartridge. Close lid. Discard vial and pipette.
5	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan SA Nasal Complete barcode,

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6	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.
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GBS-LB:

1	Remove Lim Broth tube from incubator after 18 to 24 incubation. Take a cartridge and white swab.
2	Insert white Cepheid swab from Lim Broth, which has been mixed thoroughly by inversion, and rotate swab in broth. Insert into cartridge and break off letting the swab remain in the cartridge.
3	Close lid. Change gloves between patients.
4	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan GBS-LB barcode, a
5	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.
6	Keep Lim Broth on counter until test is completed. If positive, and patient is penicillin allergic, order a LAB3056 for a Strep B culture. If patient is positive but not allergic, please streak on an SSA plate and use the GBS label to grow in CO ₂ incubator in case they find an allergy later. Place in rack on shelf after 24 hour incubation.

CT/NG:

1	If urine, add urine to fill-line of yellow transport tube. If in pink endocervical transport, bring to room temperature. Invert transport tube 3-4 times to mix.
2	Remove transfer pipette and fill to line without bubbles with liquid from transport tubes. Empty pipette's contents into sample well in top of CT/NG cartridge. Change gloves between patients. Be assured cartridge is labeled with patient label.
3	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan CT/NG barcode.
4	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.

FLU/RSV:

1	Mix by inverting the UTM tube 5 times.
2	Label FLU/RSV cartridge with patient label. Open cartridge lid. Transfer 300 µL of the UTM liquid to the large, sample portion of the cartridge.

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3	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan FLU barcode,
4	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.

COVID:

1	Wash hood surface where testing will be performed with 10% bleach. Mix by inverting the UTM or Remel tube 4 times.
2	Label cartridge with Covid patient label. Open cartridge lid. Transfer 300 µL of the UTM/Remel liquid to the large, sample portion of the cartridge. Close lid.
3	In GenXpert System window, click Create Test. Scan patient barcode on right side of cartridge and scan FLU barcode.
4	Choose location/module for test. Click Start Test. Open door with blinking green light and load cartridge. Close door.
5	Change gloves in between each test. Wash counter again after each Covid test.

PROCEUDRE NOTES:

Be sure to change gloves between secimens and remove of change prior to using the GeneXpert computer.

REFERENCES:

Package inserts, Cepheid, 904 Caribbean Dr., Sunnyvale, CA 9408991189.

Document History

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