



MAKE THE MOVE TO MOLECULAR DIAGNOSTICS

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CE QUESTIONS

- Real-time PCR is chosen over traditional PCR to reduce risk of contamination.**
 - TRUE
 - FALSE
- Basic features for comparison of molecular platforms include**
 - degree of automation.
 - speed of throughput.
 - footprint.
 - flexibility.
 - all of the above.
- An emergency use authorization (EUA) is issued by the**
 - FDA.
 - ASR.
 - xTag.
 - PCR.
- In 2009, an EUA was issued for molecular testing of**
 - MRSA.
 - Influenza H1N1.
 - VRE
 - CMV.
- Verification and validation must be performed to use ASRs on clinical specimens.**
 - TRUE
 - FALSE
- The 3M Integrated Cyclor has which of the following features?**
 - Automated DNA extraction
 - Can process 100 samples at a time
 - Has a proprietary adhesive to ensure sample integrity
 - Used primarily for HIV and hepatitis C quantification
- The Cobas/AmpliPrep/Cobas/TaqManR 48 analyzer has which of the following features?**
 - Uses only preprocessed samples
 - Can process 100 samples at a time
 - Has a proprietary adhesive to ensure sample integrity
 - FDA-cleared for HIV and hepatitis C quantification
- The GeneXpert System is FDA-cleared for which of the following?**
 - MRSA
 - VRE
 - C difficile*
 - all of the above
- The SmartCycler System is FDA-cleared to run tests for Group B Streptococcus on**
 - urine samples.
 - throat samples.
 - vaginal samples.
 - none of the above.
- Assays from other manufacturers can be run on the SmartCycler.**
 - TRUE
 - FALSE
- The xTAG plus Luminex instruments use**
 - real-time PCR.
 - standard PCR.
 - multiplex PCR.
 - none of the above.
- Clinical labs need to determine if they want expensive instruments that do lots of different assays or instruments that are cheaper but cover a limited range of infectious-disease testing.**
 - TRUE
 - FALSE

13. One of the best ways to improve turnaround time is to

- a. have a well-trained staff.
- b. automate DNA extraction with a connection to an automated PCR instrument.
- c. test only for MRSA.
- d. none of the above.

14. Clinical liability is not an issue with molecular testing.

- a. TRUE
- b. FALSE

15. Key criteria to use in determining what types of testing to do in a lab include

- a. patient population.
- b. lab workflow and volume.
- c. staff experience and workload.
- d. all of the above.

16. Hospitals with large numbers of patients having transplants would select testing for

- a. CMV.
- b. Epstein Barr virus.
- c. BK virus.
- d. all of the above.

17. Hospital labs that have a high volume of tests should consider an instrument that

- a. does single-sample testing well.
- b. takes up a large amount of space in the lab.
- c. can batch specimens for an assay.
- d. takes substantial staff time to operate.

18. The instruments with automated DNA extraction and PCR are well suited for

- a. labs with inexperienced staff.
- b. labs that do a substantial number of ASRs.
- c. research labs developing new assays.
- d. none of the above.

19. CLIA performance specifications for ASRs include

- a. accuracy and precision.
- b. analytical sensitivity and specificity.
- c. reportable range and reference intervals.
- d. all of the above.

20. Reimbursement for molecular testing is usually lower than for traditional testing.

- a. TRUE
- b. FALSE

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May 2010

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