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## Hinrichs (page 573)

1. High-resolution melting analysis is a real-time polymerase chain reaction (PCR) technique that detects mutations how?
  - A. By melting the DNA before the PCR reaction and thereby increasing the mutation specificity
  - B. By applying mutation-specific DNA probes
  - C. By comparing melting patterns of wild-type and mutated PCR products
  - D. By Sanger sequencing melted PCR products
2. The cobas platform uses mutation-specific probes but is unable to call each mutation for what reason?
  - A. Not all hotspot mutations are covered.
  - B. Different probes are combined for efficiency reasons.
  - C. The sensitivity is not sufficient.
  - D. Products have to be sequenced additionally.
3. Both next-generation sequencing (NGS) platforms studied (454 GS junior and Ion Torrent) are able to combine DNA from different patients in one test for what reason?
  - A. They have endless sequencing capacity.
  - B. The DNA is unique for each patient.
  - C. The DNA is first amplified before the actual sequencing.
  - D. The DNA is first labeled with patient-specific barcodes.
4. Both cobas and Rotor-Gene platforms automatically call mutations immediately because of what?
  - A. They use mutation-specific probes.
  - B. They do not need a PCR amplification step.
  - C. They only detect the mutation hotspots.
  - D. They only report if a mutation is present or not.
5. Both NGS platforms use a PCR amplicon-based approach for what reason?
  - A. To sequence exons completely
  - B. To improve sequencing speed
  - C. To be able to discriminate between patient sequences
  - D. To specifically sequence relevant mutation hotspots

## Wong (page 593)

1. The pathology requisition form that accompanies the specimen to pathology is a part of which phase of testing?
  - A. Analytical
  - B. Preanalytical
  - C. Postanalytical
  - D. Diagnostic
2. Which of the following statements is true?
  - A. Insufficient clinical information and partial biopsy samples are commonly encountered problems in daily dermatopathology practice.
  - B. Clinical communication of relevant and specific information to the pathologist is not necessary for accurate and timely pathologic interpretation in dermatology.
  - C. Shared electronic medical record access by pathologists does not facilitate review of pertinent clinical information to support pathologic interpretation.
  - D. Dermatologic expertise of the requesting clinician has limited impact on the quality of clinical information submitted to the pathologist.
3. A family practitioner obtains a skin biopsy of a lesion in the clinic and completes an order communication in the electronic medical record. The single most helpful piece of clinical information for accurate and timely pathologic interpretation is what?
  - A. Clinical diagnosis
  - B. Clinical differential diagnosis
  - C. Description of lesion morphology
  - D. ICD-9 code
4. One of the barriers to achieving effective clinician-pathologist communication in the skin biopsy care process is what?
  - A. Geographic location of the clinical practice relative to the pathology practice
  - B. Inadequate clinician education
  - C. Lack of access to computerized provider order entry systems
  - D. Skin biopsy technique
5. Which statement is accurate regarding specimen procurement?
  - A. Curettage specimens are usually adequate for most conditions.
  - B. Wedge-shaped specimens that include dermis are preferred for pigmented lesions.
  - C. Punch biopsies that include dermis are not suitable for inflammatory skin lesions.
  - D. Shave biopsies are the preferred approach for most conditions.

## Correction

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In the March 2015 *AJCP* article by the African Strategies for Advancing Pathology Group (African Strategies for Advancing Pathology Group Members. Quality pathology and laboratory diagnostic services are key to improving global health outcomes: improving global health is not possible without accurate disease diagnosis. *Am J Clin Pathol*. 2015;143:325-328), the name of Lorenzo Leoncini, Siena, Italy, was inadvertently omitted from the list of members. We apologize for this omission.