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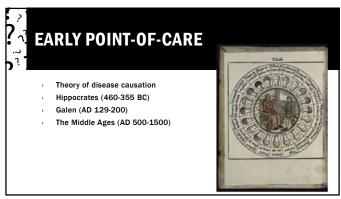


- Many of the early diagnostic tests were first done at the bedside.
- Laboratory medicine began 6000 years ago with uroscopy.
  - Sumerian and Babylonian physician (4000 BC)
- Ancient Sumer
- Sanskit medical works (100 BC)
- Hindu cultures

3

Areteus (2nd century)





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6

# WHAT IS POINT-OF-CARE TESTING?

As defined by CAP:

- Tests designed to be used at or near the where the patient is located
- Doesn't require permanent dedicated space
- Tests performed outside the clinical lab

POCT does NOT include limited service satellite laboratories with fixed dedicated testing space.

Source: College of American Pathologists

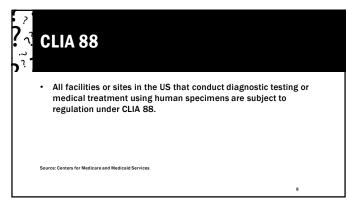
POINT-OF-CARE IS ALSO...

Chemistry
Hematology
Coagulation
Urinalysis
Microbiology

Maintenance

5





8



Nonwaived:

Tests categorized as either moderate complexity (including provider-performed microscopy) or high complexity according to a scoring system used by the FDA.

10

1. Simple to use
2. Reagents & consumables: robust & durable
3. POCT results align with established lab methods
4. Safe for use

MORE SPECIFIC CRITERIA...

• Various guidelines exist for particular clinical settings

• ASSURED Guidelines by WHO

• Affordable

• Sensitive

• Specific

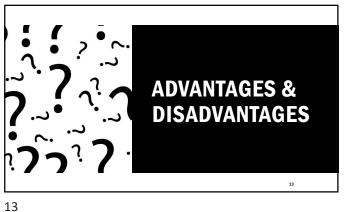
• User friendly

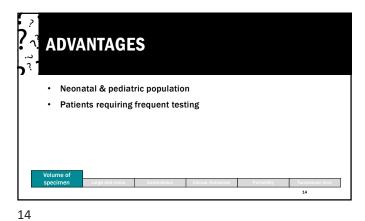
• Rapid and Robust

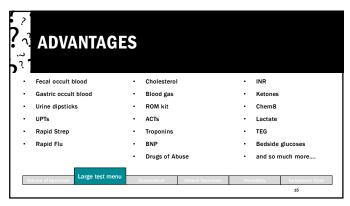
• Equipment free

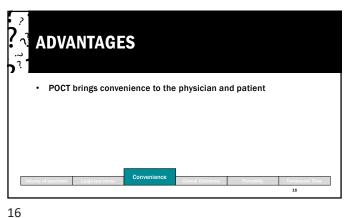
• Delivered

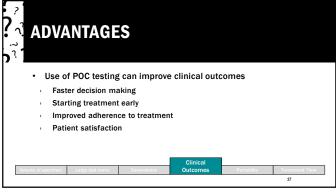
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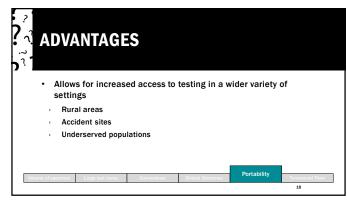


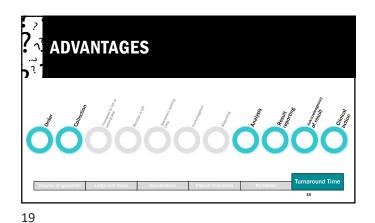












DISADVANTAGES

Thousands of operators

Not laboratorians

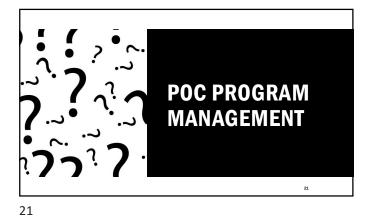
Multiple sites

Hundreds of devices

Quality of results

Interfering factors

20



WHO MANAGES THE POC PROGRAM?

• POC coordinator (POCC) is responsible for:

Monitoring day-to-day activities of testing personnel

Facilitate compliance with procedures, policies, & regulatory requirements

Develop training programs for testing personnel & ensures documentation of competency training

Oversees completion of PT programs

Performs on-site review of patient testing, QC, and maintenance logs

22

TRAINING

Training is what happens before someone begins patient testing and prior to reporting patient results.

Training should include:

Pre-analytic, analytic, and post-analytic phases of testing on all instruments, methods, and specimen collection techniques.

More education & training produce higher quality results.

WHO REQUIRES COMPETENCY
ASSESSMENT?

• EVERYONE!

• AABB

• FDA

• Joint Commission

• CMS

• CAP

• State regulations

23 24



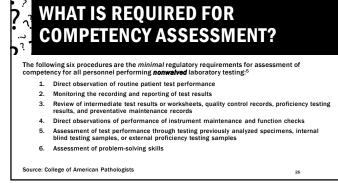
## WHAT IS COMPETENCY & COMPETENCY ASSESSMENT?

- Competency: the ability of personnel to apply their skill, knowledge, and experience to perform their laboratory duties correctly.
- Assessment: is used to ensure the laboratory personnel are fulfilling their duties as required by federal regulation.

Source: Centers for Medicare and Medicaid Services

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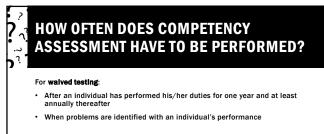


### HOW OFTEN DOES COMPETENCY ASSESSMENT HAVE TO BE PERFORMED?

#### For nonwaived testing:

- At least semiannually (first assessment within 7 months from the start of testing and second assessment no later than 12 months from the start of testing) during the first year (new employee)
- At least annually after testing personnel has performed assigned duties for one year
- · When problems are identified with an individual's performance

Source: College of American Pathologists



If more stringent state or local regulations are in place for competency assessment for waived testing, they must be followed.

Source: College of American Pathologists

28



27

### **CHALLENGES OF POCT**

- · Accreditation & federal requirements
- Manual POCT results
- · Training/competency for large number of testing personnel
- POCT reagents & supplies
- QC performance and documentation
- · Proper identification of patient and/or testing personnel
- Cleaning & disinfection of devices

9



Communication and building relationships are important for a successful POC program.

- Regular inspections at POC sites
- Relationships with work care facilities, department managers, & operators

30

29

