Direct to DNA: A forensic casework approach Tim Augsback MIKE DEWINE OHIO ATTORNEY GENERAL

Outline

- SAK Testing Initiative
- Modified approach
- Adapting for casework
- Future outlook

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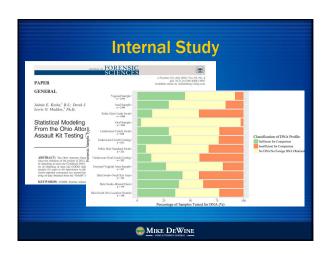
Where we started

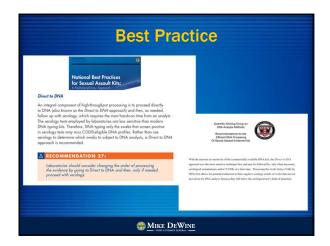
- Casework start to finish → team approach
 - New scientists hired casework and SAK
 - Robots utilized more
- Sexual Assault Kit testing initiative and reform
 - Nearly 14,000 previously untested kits submitted to BCI
 - SB 316 required law enforcement agencies to submit untested kits within 1 year if a crime likely occurred

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Challenges with SAKs

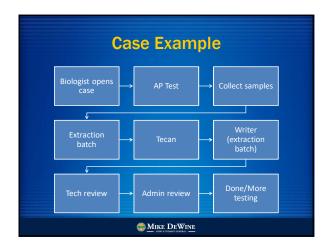
- Old evidence
 - Diminished bodily fluid reactivity
- Non-standardized collection
- Evidence previously tested or missing
- Multiple suspects/consent
- How to process without impacting current casework
- Want to finish all possible testing



Modified Approach

- AP testing only for orifice samples
 - Evolved to very little AP testing at all
 - Differentials for most orifice samples
- Use synopsis for sample selection
- Run more samples to start in general

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High Throughput • Assembly line approach - Most personnel can work in any part of the process - Simplified notes • One comprehensive DNA/FB report - No table • Second round of testing if necessary

High Throughput

- Multi-lab system
 - Approx. 50 scientists
 - 6 supervisors
 - 2 lab technicians
 - 6 administrative professionals
 - More at regional facilities
 - 500-800 active cases/month

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Ongoing Challenges

- What samples should be run first?
- Caregiver cases
- Balancing the roles of all scientists
- When is testing done?

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In the courts

- Who testifies with so many hands in the process?
- Training attorneys



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Future Work

- Refine our approach to find the best samples to test first
- Stop at quant/cherry picking
- Mixture interpretation software

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