

# CODIS



Combined DNA Index System  
at the  
Alaska Scientific Crime Detection Laboratory

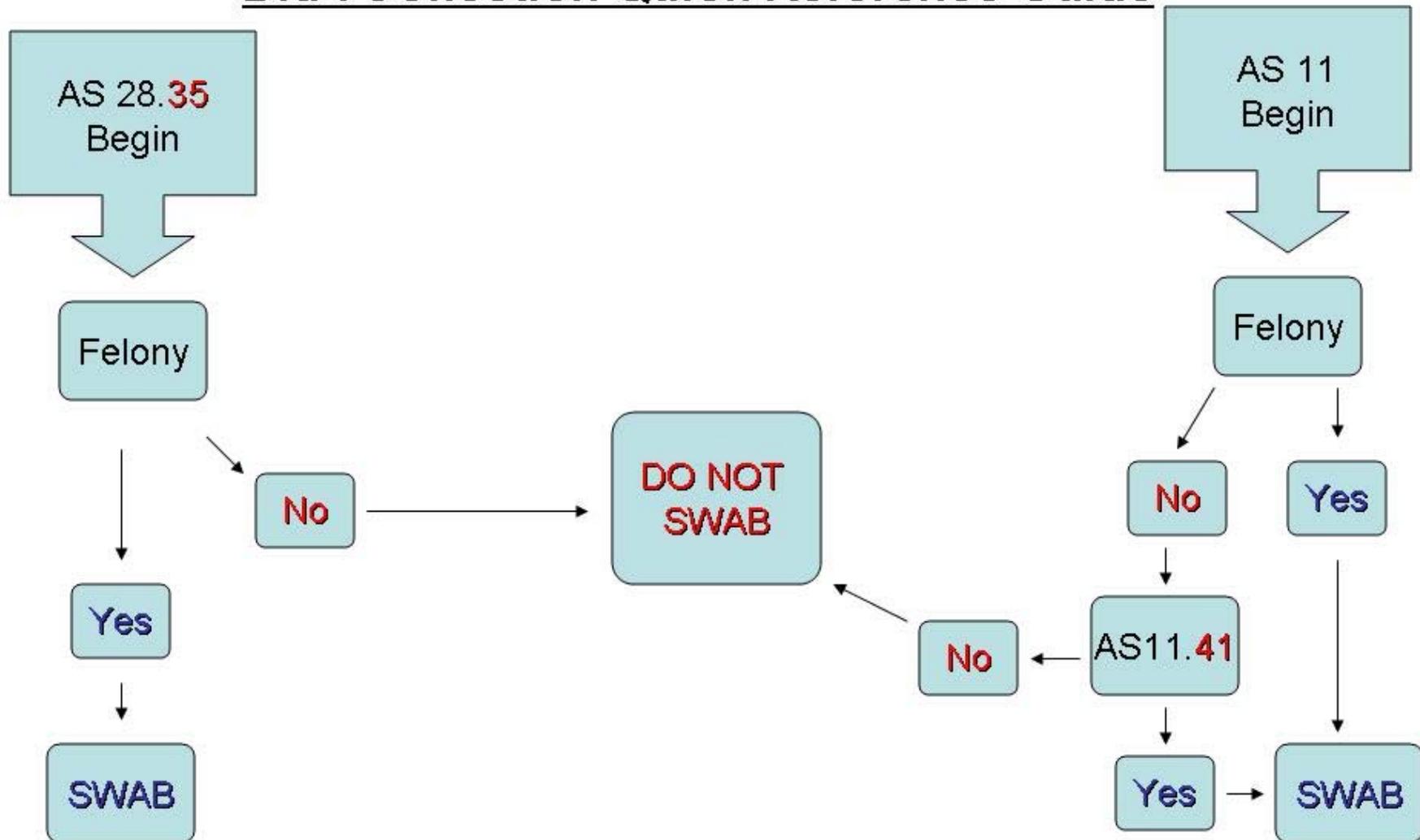
# CODIS Hierarchy

- NDIS – national – managed at FBI
- SDIS – state – managed at AK SCDL
- LDIS – local

# CODIS consists of...

- Convicted offenders (including juveniles)
  - Arrestees (juveniles not included in AK)
  - Forensic samples
  - Unidentified human remains
  - Relatives of missing persons
  - Volunteer samples
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- Reference samples from victims, suspects, and elimination persons are NOT in CODIS
  - CODIS database samples are collected under statute for the database and are not used as casework reference samples

## DNA Collection Quick Reference Guide



**\*\*If the offense statute is outside AS 11 or AS 28.35 it does NOT qualify for DNA\*\***

**Municipal Ordinances:** Assault will always qualify and is the most commonly used ordinance. Others that could apply include sex crimes, stalking, failure to render assistance, escape, some weapons crimes, terroristic threats, and some crimes involving minors. When in doubt, research the language, or call for assistance: Toni Otten @ 269-3983

# Eligibility of Forensic Samples

■ Is the sample related to the commission of a crime?

– Sperm fraction of vaginal swab → **YES**

– Bloodstain from burglary → **YES**

– Cigarette butt smoked by suspect during interview → **NO**

– Soda can discarded in trash by suspect while he is being followed

→ **NO**

# Eligibility of Forensic Samples

- Is this sample reasonably thought to be from the putative perpetrator?
  - Sperm fraction of vaginal swab from victim of sexual assault
    - No known male samples for comparison → **YES**
    - Assailant known to victim; eliminated as source → **NO**
    - That has been matched to consensual partner → **NO**
    - That is a mixture of consensual partner and assailant → **YES**

# Eligibility of Forensic Samples

- Is this sample reasonably thought to be from the putative perpetrator?

- Bloodstain from burglary

- No reference samples from victim or suspect → **YES**

- That has been matched to owner of residence → **NO**

# Eligibility of Forensic Samples

- Was the item seized by law enforcement from the suspect's person, or was the item in the possession of the suspect when collected by law enforcement?

- Weapon from suspect's home, vehicle or person

→ **NO**

- Drug paraphernalia from suspect's home, vehicle or person

→ **NO**

# CODIS workflow

- Profiles from offenders, arrestees and forensic samples are entered and searched regularly and continually
- Eligible samples in our SDIS are uploaded to NDIS weekly; searched weekly
  - Some partial profiles and mixtures are not eligible for upload to NDIS

# CODIS workflow

- Possible matches are evaluated and “dispositioned”
  - No match
  - Conviction match
  - Bench work match
  - Possible “hit”

# CODIS workflow

- Confirmation process for “Offender Hits”
  - Verify profile
  - Verify identity by prints
  - Verify qualifying offense
  - Issue hit letter
    - Requesting information from agency
    - Requesting new known sample

# CODIS workflow

- Confirmation process for “Forensic Hits”
  - Verify profiles
  - Issue hit letter
    - Requesting information from agency
    - Providing contact information for other case

# Current CODIS Composition

SDIS

1/5/12

- 1,375 crime scene profiles
- 22177 convicted offenders
- 16,191 arrestees

NDIS

November 2011

- 403,492 crime scene profiles
- 10,343,027 offenders

# **CODIS Successes**

**(as of November 2011)**

- 166,200 hits across the country
- >160,200 investigations aided
- 367 investigations aided in AK

# AK SCDL

## Forensic Biology Unit

- Abirami Chidambaram – DNA Technical Manager
  - Michelle Collins – Forensic Biology Supervisor / CODIS State Administrator
  - Veronica DeBoer – DNA Analyst
  - Cheryl Duda – DNA Analyst
  - Sara Graziano – DNA Analyst
  - Stacey Johnson – DNA Analyst
  - Kimberly Harris – DNA Analyst
  - Jennifer Maryanopolis – DNA Analyst
  - Jessica Miyaoka – Technician
  - Kristin Vaona – Biological Screening Analyst
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- Debra Gillis – part-time Biological Screening Analyst
  - Thomas Wortman – part-time Biological Screening Analyst

# Questions



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