


40-Hour SANE-SART
Pediatrics Course

KANSAS BUREAU OF
INVESTIGATION



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PURPOSE

- To provide training and assistance in the collection of forensic evidence for victims of suspected sexual abuse.

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GENERAL

- Health care professionals are mandated by law to report injuries caused by discharge of a firearm and life threatening wounds that are caused by knife, ice pick, or other sharp or pointed instrument.
- Any suspected child abuse or elderly abuse has be reported.

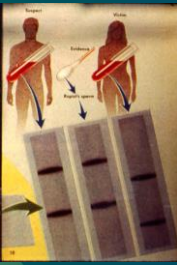
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KBI BIOLOGY SERVICES

- Body Fluid Identification
- Bloodstain Pattern Analysis / Crime Scene
- DNA Testing
- DNA Data Bank (CODIS)

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KBI BIOLOGY



- Goal in casework
 - Identify body fluids present on evidence and preserve the stains
 - Determine who may or may not have contributed the stain through DNA testing

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KBI BIOLOGY

- How the *Biology Section* Assists Investigations
 - Location of crime scene
 - Identifying weapon used
 - Proving or disproving suspect's alibi
 - Eliminating suspects

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Crime Scenes

What constitutes a Crime Scene?

- The "place" where the crime happened
- Clothing associated with the crime
- The people involved

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KANSAS BUREAU OF INVESTIGATION FORENSIC LABORATORY SEXUAL ASSAULT EVIDENCE COLLECTION KIT



- Sexual Assault Kit
 - KBI Grant - late 1980s
 - Kits provided free to hospitals
 - Designed to provide thorough and effective collection
 - Funding for the kits is provided by VAWA (Violence Against Women Act of 1994) funds and KBI funds

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KBI Sexual Assault Evidence Collection Kit

- The KBI Sexual Assault Evidence Collection Kit is the main tool for collection of forensic evidence from patients at the hospital.

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KBI BIOLOGY

- Sexual Assault Kit Contents
 - Instructions for Collection of Samples
 - Authorization Forms
 - Sexual Assault History Form
 - Notice to Victim Information
 - Collection Envelopes
 - Instructions for "Anonymous Kits"

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KBI Sexual Assault Evidence Collection Kit

- There are instructions for the collection of the samples and reporting of the kit "anonymously."
- The ability to remain anonymous only applies to adult patients.

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Evidence Collection for Children

- K.S.A. 38-2202
 - The definition in the Kansas code for care of children states
 - "Child in need of care" means a person less than 18 years of age at the time...
- K.S.A. 38-2223 requires mandatory reporting of all suspected sexual abuse of children

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IN SHORT

- Patients younger than 18 years as defined by K.S.A. 38-2202 cannot report anonymously.

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Sexual Assault Evidence Collection Kit

- How long before I no longer need to collect a kit?
- Varies. Depends on:
 - Biological factors
 1. Victim's activity
 2. Amount of seminal fluid ejaculated
 3. Location of seminal fluid deposition
 4. Etc...

When in doubt, call the biology section
General rule, 7 days



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Sexual Assault Evidence Kit

- Keep potential of DNA in mind
- Consider having areas of the body swabbed which are not normally collected in the rape kit
 - Neck, chest, etc. For the saliva
 - Face, stomach, legs, etc..For seminal fluid
 - Consider collecting penile swabs and/or underwear from the suspect

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SEXUAL ASSAULT EVIDENCE COLLECTION KIT INSTRUCTIONS


- Series of Steps (1-13)
- Detailed descriptions of how to collect samples and envelopes in which to place the samples.
- **DO NOT USE VICTIM RAPE KIT TO COLLECT SUSPECT STANDARDS!**

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AUTHORIZATION FORM

Step 1


- Provides consent for collection and release of evidence
- Included with kit as a courtesy
 - You do not have to use this form if your agency/hospital has its own
 - Please provide copies of form used with kit

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VICTIM HISTORY FORM

Step 2

- Provides essential information to law enforcement and laboratory personnel
 - Disseminate copies to appropriate entities
 - Hospital
 - Laboratory (with sexual assault kit)
 - Law Enforcement

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COLLECTION OF CLOTHING

Step 3



- Do NOT collect items in plastic!
- Separate items into individual packages
- Allow wet items to air dry prior to packaging

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Packaging of Evidence

- Plastic does not permit the flow of air through the bag, thus inducing bacteria and mold growth which destroys biological evidence.



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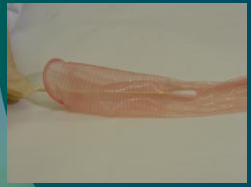
The case of "making do" and safe sex



- Packaging biological evidence in plastic **adversely** affects it!

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Condoms



- Do not package any condoms with fluid inside.
- Absorb any fluid onto cotton swabs, air dry and package separately
- After fluid is removed, air dry the condom and package separately

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COLLECTION OF CLOTHING

Step 3



- Consider the significance of suspect's clothing and/or property (condoms, bedding, etc...)

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COLLECTION OF CLOTHING

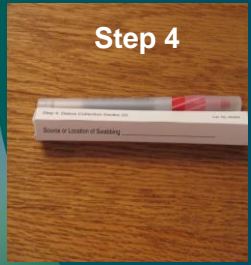
Step 3



- Many biological stains will fluoresce when subjected to an alternate light source (black light, wood's lamp)
- However, not all stains will fluoresce (seminal fluid or not)

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DEBRIS COLLECTION



- Remove debris (hair, fibers, etc...) from victim
 - Place into paper fold
 - Note location of debris
 - Can use for other body swabs (bites, hickeys, etc.)

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BITE MARKS



- Evidence Collection
 - Bite mark area should be swabbed with wet swab
 - A second, dry swab should follow
 - Allow both swabs to air dry prior to packaging

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BITE MARKS



- Bite marks can provide valuable evidence
 - Photography of bite marks is very tricky
 - Prior to photography call a Forensic Odontologist (Dr. Dan Winter, Manhattan Kansas)

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PUBIC HAIR COMBINGS

Step 5

- Important step
 - Possible source of seminal fluid
 - Trace examination
 - FBI or Private Lab

PUBIC HAIR STANDARDS

Step 6

- Pull (not cut) 10-20
 - May be easier to allow victim to pull their own

VAGINAL SWABS / SMEAR

Step 7



- Do not chemically fix slides
- Use dry swabs
 - Unless victim is child then wet swab genital area
 - Keep swab used to make smear

VAGINAL SWABS/ SMEAR

- CHILD FEMALE VICTIM
- In addition:
 - Swab outside genital area with moist swabs
 - Do not use a speculum for a female child
 - Appropriate to use speculum after child/adolescent has reached puberty

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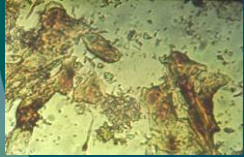
MALE VICTIM

- Swab penis and scrotum with moist swabs.
- Air dry
- Package in vaginal swab boxes and mark out "vaginal swab" label on box and write correct location of swabs on the box.

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VAGINAL SWABS / SMEARS

Step 7



- Even finding one sperm cell can be significant

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ANAL SWABS

Step 8

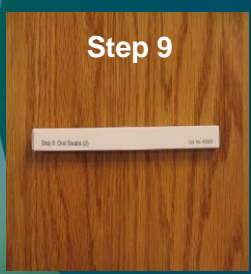


- Proper collection technique very important

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ORAL SWABS

Step 9



- Swab along gum line and inside of cheeks

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HEAD HAIR STANDARDS

Step 10



- 25-50 pulled hairs
 - 5-10 from each of the five regions
 - front
 - back
 - left side
 - right side
 - top
 - Facial hair if applicable

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KNOWN BLOOD SAMPLE

Step 11

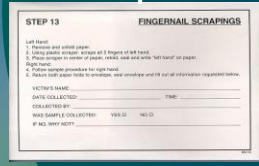


- A blood sample is preferred!
- Liquid blood is no longer taken.
- Blood is collected by doing a finger stick and depositing blood on the supplied blood collection card.
- Allow to air dry

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FINGERNAIL EVIDENCE

Step 12



- Important for Trace and DNA
- Scrape debris onto paper fold
– Clipping nails optional after scraping

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“DATE RAPE DRUGS”




- GHB / Rohypnol
– Collect urine specimen
• Refrigerate and package separately from rape kit.
- No urine and blood samples will be tested “anonymously” for date rape drugs.

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COLLECTION OF KNOWN FROM SUSPECT

- Known oral swabs
Collect 2 swabs from inside of cheeks in mouth
- Known Blood
Purple Top
Gray Top (If available and needed for Toxicology)
- Known Hair Specimens
Head (25-50)
Pubic (10-25)

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Child Molest Evidence

- Hospital specimens are often negative for body fluid evidence
- Law Enforcement should review the medical findings with the SART/SANE nurse to learn nature of injuries and observations

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CHILD MOLEST EVIDENCE

- Molest occurs in child's bed:
 - Bedding should be collected
 - If bedding has been laundered, collect top of the mattress by cutting around the outside edge.
 - Check both sides of the mattress in case it has been turned over.

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Child Molest Evidence

- Determine through investigation:
 - Clothing the child was wearing at the time of assault.

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Bedding

- Select only bedding items in direct contact with crime participants (if this can be established)
- Circle any wet stains, then air dry
- Mark orientation of the bedding (head, foot of bed, etc.) On the item

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Cushions, Car Seats, Towels, Washcloths

- Submit entire item if possible
- If entire item cannot be submitted cut out the suspected stain or area
- Completely air-dry before packaging

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TRACE

- Hair Examination
 - Hair is the most abundant piece of evidence at a crime scene
 - Only a small percentage of hairs are suitable for nuclear DNA testing
 - Therefore, traditional hair examination maintains merit

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TRACE

- KBI no longer has a hair and fiber unit
 - This does not mean that trace evidence should be overlooked
 - KBI scientists help to preserve and/or collect trace evidence found in casework
 - Recommend sending evidence to the FBI

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COMMUNICATION

- Essential
 - Provides for a thorough investigation
 - Must include all entities
 - Hospital Staff (nurses/doctors)
 - Victim Advocates
 - Law Enforcement
 - KBI Laboratory
 - Prosecuting Attorney

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KBI CONTACT INFORMATION

- Great Bend Laboratory
620-792-4353
- Kansas City Laboratory
913-288-0080
- Topeka Laboratory
785-296-8200

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QUIZ FOR MODULE 7

- Please enter your first and last name.
The password is "hospital".
- Pediatric Course: Module 7

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Thank You

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