

5.3 Medical Considerations

San Diego County Probation

1

Components of a Juvenile Hall Visit

- Entry
- Pre-booking
- Triage
- Intake screening – Custody/Medical
- Upfront - Rejection
- Sick Call
- SP/ Restraints
- Medication Isolation
- Transfer - No camp
- Release - Red Flag

San Diego County Probation

2

SERVICES PROVIDED AT JUVENILE HALL

- Med pass (LVN/RN)
- RN sick call
- PA sick call
- MD sick call
- OB/GYN
- Dental
- Phlebotomy (Labs)
- X-Ray/EKG
- Immunization clinics
- Wellness Team
- STAT Team services

San Diego County Probation

3

Sick Call Process

San Diego County Probation

4

WHAT ARE WE SEEING IN THE MEDICAL CLINICS?

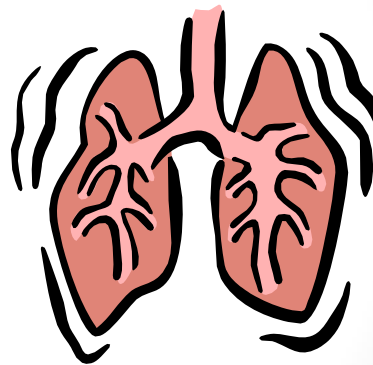
- ASTHMA
- FACIAL/HEAD TRAUMA
- REC/SPORTS INJURIES
- MRSA
- HEPATITIS C
- SEIZURES
- STD'S

San Diego County Probation

5

ASTHMA:

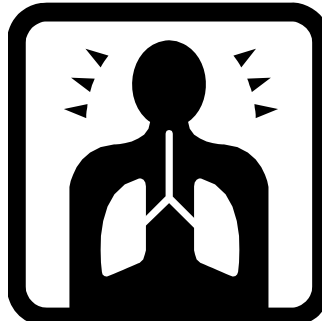
- Narrowing of the bronchioles of the lungs
- Symptoms:
 - Wheezing (musical type of noise)
 - Inability to speak in full sentences
 - Bluish discoloration of lips or nail beds
 - Use of accessory muscles
 - Anxiety



San Diego County Probation

6

What does a wheeze sound like?



San Diego County Probation

7

How are asthma attacks diagnosed?

- Auscultation of lungs for signs of wheezing or lack of air movement
- Oxygen saturation levels (O₂ sats)
- Ability to speak in full sentences

How are they treated?

- Rescue inhalers (Albuterol)

San Diego County Probation

8

Diabetes:

The inability to regulate insulin production



San Diego County Probation

9

Hypoglycemia:

Low blood sugar

Signs & Symptoms:

- Inability to concentrate
- Dizziness
- Clammy/sweaty



Treatment: If patient is awake & alert give them something to eat that is high in sugar content. (Orange juice, candy)

Always be sure they take in carbs, proteins, & fats as the body uses the sugars very quickly and the blood sugar could fall again in a short period of time. (Peanut butter sandwich and milk are good choices)

If the patient is unconscious **NEVER PUT FOOD IN THEIR MOUTH—CALL MEDICAL EMERGENCY**

San Diego County Probation

10

Hyperglycemia: High blood sugar/not enough insulin

Signs & Symptoms:

- Confusion
- Coma

Treatment: Insulin



San Diego County Probation

11

Medical Emergencies



San Diego County Probation

12

Emergency:

- sudden, urgent, usually unexpected occurrence or occasion requiring immediate action
- a state, esp. of need for help or relief, created by some unexpected event

San Diego County Probation

13

What is a fracture?

- the breaking of a bone, cartilage, or the like, or the resulting condition



San Diego County Probation

14

When is a fracture considered an emergency?

1. Loss of circulation-no pulse distal to the fracture

If not seen immediately, limb could be lost—
This is a 911 CALL!



San Diego County Probation

15

2. Loss of sensation-could indicate severing of nerve
If nerve function is not restored, the patient can have permanent loss of use of limb.

This is a 911 CALL!



San Diego County Probation

16

3. Open fracture-bone sticking out of skin.
Potential for severe infection that can result in loss of limb
This is a 911 CALL!



San Diego County Probation

17

Signs/Symptoms of fractures:

- Pain or tenderness
- Deformity in area of injury
- False (unusual) motion in area of injury
- Decreased motion or inability to use affected limb
- Bone protruding from skin
- Swelling
- Bruising

San Diego County Probation

18

Most **IMPORTANT** first aid for a fracture is to **IMMOBILIZE** the limb—remember it is **MOST** painful when the bones are moving!



San Diego County Probation

19

Seizures

San Diego County Probation

20

TYPES OF SEIZURES

- PSEUDO SEIZURES
- CLONIC TONIC SEIZURES
- ABESENT
- NEW ONSET
- PAST HISTORY – HEAD INJURIES
- DRUG USE

San Diego County Probation

21

What does a seizure look like?

- Aura- warning sign of impending seizure—seen only in seizures caused by epilepsy
- Falling to the ground & loss of consciousness usually accompanied by a hoarse cry
- Muscle tenseness of entire body for 5-30 seconds
- Spasmodic, jerky muscle contractions
- Cessation of breathing during muscle-tensing period, followed by labored breathing during rest of seizure.
- Face becomes blue or gray at height of seizure.

San Diego County Probation

22

- Biting of tongue or foaming of the mouth
- Loss of bladder & bowel control
- Deep sleep afterwards (Post-ictal period)
- NEVER TRY TO PUT ANYTHING INTO THE MOUTH OF SOMEONE HAVING A SEIZURE

Treatment:

- Move patient from anything they could injure themselves on
- Loosen clothing around throat and waist
- Protect their head-place pillow if possible
- **CALL MEDICAL EMERGENCY!**

San Diego County Probation

23

Eye Injuries:

Signs/Symptoms: (one or both eyes)

- History of injury or exposure
- Vision changes
- Swelling
- Pain
- Bleeding in the eye
- Foreign material/object in eye
- Change in size or shape of pupil
- Darkening of iris (colored portion of the eye)



San Diego County Probation

24

Eye Infections:

Signs/Symptoms:

- Redness
- Pus/drainage in eye
- Swelling
- Itching or burning

Pink Eye:



San Diego County Probation

25

Penetrating Eye Injuries:

- If there is a penetrating injury to the eye (pencil or foreign object stuck in eye), DO NOT remove it.
- Take a cup, cut out the bottom of it and tape over the penetrating object to prevent movement.
- Also, remember to cover the “good eye” to keep the eyes from moving.



- THIS IS A 911 CALL

San Diego County Probation

26

Techniques for controlling External Bleeding:

- Direct pressure
- Place a dry, clean dressing over the wound and hold it in place while applying pressure (If you don't have a dressing, use your bare hand until a dressing is found.)
- If you can't find a clean dressing—use a towel, shirt, or sheet—the objective is to stop the bleeding!
- On most parts of the body, you can use a pressure dressing to hold dressing in place—if blood soaks through the dressing, place another dressing on top of the first one—Do not remove the first one!
- Never use a tourniquet!

San Diego County Probation

27

Lacerations and Punctures:

- Use Basic First Aid
- Cover the laceration with the cleanest available dry dressing
- Do not remove any foreign objects or materials
- Control bleeding
- If any tissue has been amputated: *Wrap it in sterile gauze soaked with cool water place in Ziploc bag and send it to the Emergency room with patient.*

San Diego County Probation

28

Nosebleeds—common causes:

- Fractured skull
 - Medications (side effects of anticoagulants)
 - High blood pressure
 - Dry air
 - Blowing nose too hard
 - Foreign body in the nose
 - Injury—including picking nose
 - Infection
- Treatment:
- Have patient pinch nose just below bridge of nose and hold firm pressure for 15-20 minutes.
 - Can place ice on forehead and back of neck.
 - Educate to avoid blowing nose for an hour after--avoids disrupting clot formation.

San Diego County Probation

29

Obstetrics:

- Any pregnant minor with vaginal bleeding or abdominal pain should be taken out to the designated hospital or to their private doctor.

San Diego County Probation

30



Lice



San Diego County Probation

31

- **What are those bugs?**

Lice live for approximately 3 weeks but they can't live long when away from the scalp.

The eggs are called nits. They are small and white and live on the hair shaft.

- **How do you get lice?**

It is usually head to head contact, or mutual use of brushes, combs, etc.

- **If my friend has lice should I be treated?**

No, have someone check you over the next three weeks. Lice shampoo is a medicine and can have side effects. You should not have any medication unless you need it.

San Diego County Probation

32

- **If they order the shampoo for me, will they go away?**

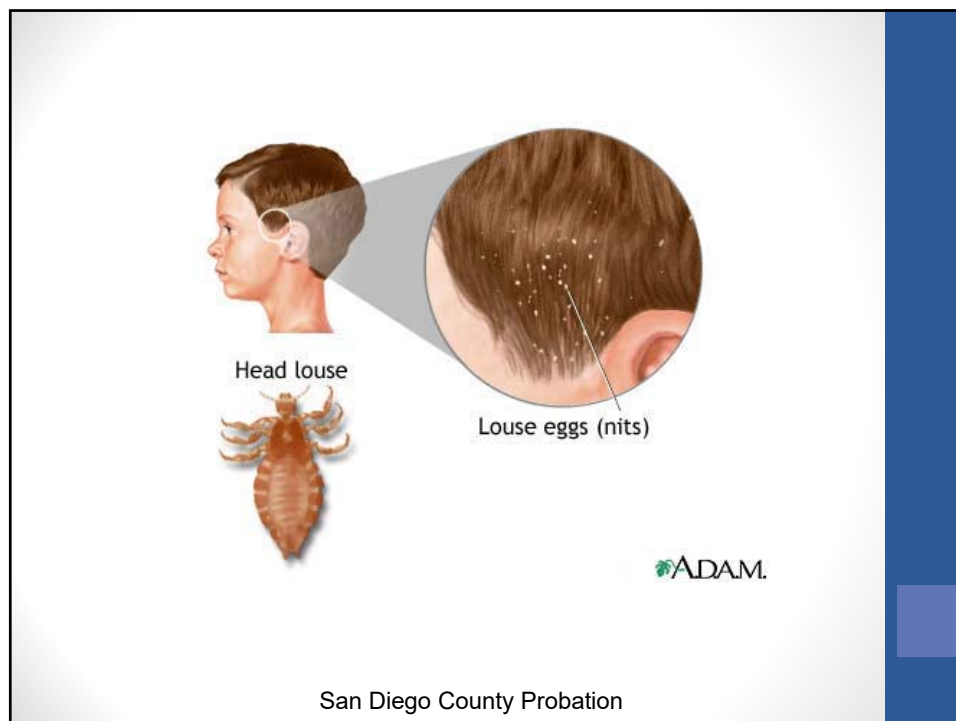
90% of cases are resolved with the first treatment. It is essential to use the comb and comb the hair from the roots to the ends to remove nits. If it is needed, you can be treated again.

- **What else will they do here at Juvenile Hall?**

After you have the shampoo treatment, an MTO will be sent to your unit for a change of clothing and bed sheets.

San Diego County Probation

33



San Diego County Probation

34



San Diego County Probation

35



San Diego County Probation

36

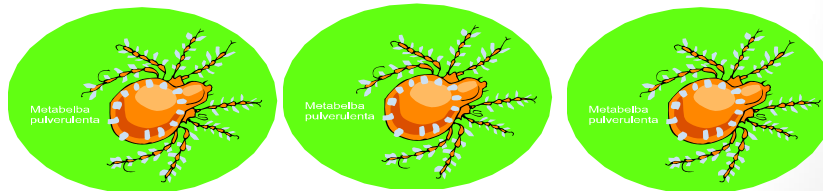


San Diego County Probation

37

Scabies:

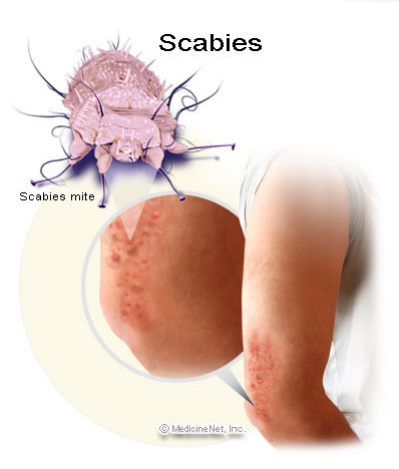
- **Scabies** is a skin infection characterized by superficial burrows, intense itching and secondary infection. The word *scabies* comes from the Latin word for "scratch" (*scabere*).



San Diego County Probation

38

Scabies Mite



San Diego County Probation

39

Scabies Rash to Hands



San Diego County Probation

40

Scabies up close



San Diego County Probation

41

Hyperventilation



San Diego County Probation

42

Hyperventilation:

- The state of breathing faster and/or deeper than necessary, thereby reducing the [carbon dioxide](#) concentration of the blood below normal.
- Causes: stress/anxiety
- Symptoms numbness or tingling in the hands, feet and lips, lightheadedness, dizziness, headache, chest pain, slurred speech and sometimes fainting are common.
- *Sometimes hyperventilation is induced for these same effects.*

San Diego County Probation

43

Things we commonly see:

- Lacerations



San Diego County Probation

44

Fractures:



San Diego County Probation

45

Dislocations

Signs/Symptoms:

- Pain in joint
- Possible swelling in joint
- Deformity of joint
- Loss of movement/pain when attempting to move joint



San Diego County Probation

46

Sprains & Strains:

Sprains

(Signs/Symptoms)

- Pain on movement
- Swelling around joint
- Discoloration around injury
- Tenderness

Strains

(Signs/Symptoms)

- Pain especially with movement
- Some swelling (not as much as a sprain)

Treatment for both:

RICE—Rest, Ice, Compression & Elevation

San Diego County Probation

47

Ankle Sprains



San Diego County Probation

48

HEPATITIS

San Diego County Probation

49

Types of Hepatitis

- There are several different types of hepatitis.
- In the United States, the most common types of hepatitis are:
 - hepatitis A
 - hepatitis B
 - hepatitis C

San Diego County Probation

50

- Hepatitis is
 - A liver disease
- What does the liver do?
 - The liver is an organ that helps your body digest food and acts as a filter for poisons or anything toxic in the body.

San Diego County Probation

51



San Diego County Probation

52

How Do You Know You Have Hepatitis?

- A person with hepatitis will have
 - flu-like symptoms
 - tiredness
 - muscle aches

San Diego County Probation

53

Viral Hepatitis A

- Hepatitis A is a liver disease caused by the hepatitis A virus (HAV)
- Hepatitis A can affect anyone
- In the United States, hepatitis A can occur in situations ranging from isolated cases of disease to widespread epidemics

San Diego County Probation

54

How Do You Get Hepatitis A?

- HAV is found in the **stool (feces)** of persons infected with hepatitis A
- HAV is usually spread
 - Putting something in the **mouth (food, water, hands)** that has been contaminated with the stool of a person with hepatitis A
 - Most infections come from contact with a household member or sex partner who has hepatitis A

San Diego County Probation

55

Signs and Symptoms of Hepatitis A

- The hepatitis A virus affects people differently
 - Some people have no physical complaints when they are infected with the hepatitis A virus
 - Older persons are more likely to have symptoms than children

San Diego County Probation

56

Signs and Symptoms of Viral Hepatitis A

- If symptoms are present, they usually occur abruptly and may include
 - fever
 - tiredness
 - loss of appetite
 - nausea
 - abdominal discomfort
 - jaundice
 - dark urine

San Diego County Probation

57

Summary of Viral Hepatitis A

- Key Take-Home Points
 - The HAV is spread through contaminated food or water
 - The symptoms are various complaints
 - There is no long-term infection and you cannot get it again.
 - Best way to protect against HAV is vaccination and hand washing

San Diego County Probation

58

Persons at Risk

- Who is more at risk of getting hepatitis A?
 - People living with HAV-infected persons
 - Sex contacts of infected persons
 - Persons, especially children, living in regions of the U.S. with consistently increased rates of hepatitis A
 - Men who have sex with men
 - Injecting and non-injecting drug users
 - Persons traveling to countries where hepatitis A is present

San Diego County Probation

59

Long-Term Effects of HAV

- There is no chronic (long-term) infection
- Once you have had hepatitis A you cannot get it again
- About 15% of people infected with HAV will have sustained or re-occurring symptoms over a 6-9 month period

San Diego County Probation

60

Preventing HAV Infection

- Vaccination
 - Hepatitis A vaccine
 - Immune globulin
- Personal Hygiene
 - Hand washing
 - Wearing disposable gloves

San Diego County Probation

61

Summary of Viral Hepatitis A

- The HAV is spread through contaminated food or water
- The symptoms are various complaints
- There is no long-term infection and you cannot get it again.
- **Best way to protect against HAV is vaccination and hand washing**

San Diego County Probation

62

Hepatitis B

- **Mode of transmission bloodborne**
- Flu-like symptoms from mild to severe
- Causes inflammation of the liver and may severely damage the liver, leading to cirrhosis & death
- Also sexually transmitted
- Infects 280,000 in the U.S. each year according to the CDC
- Prevented by the Hepatitis B vaccine

San Diego County Probation

63

Hepatitis C

- Most common **bloodborne** infection in the U.S.
- Symptoms are similar to HBV
- Results in severe liver damage (cirrhosis and liver cancer, more frequently than HBV)
- Approximately 50% of those infected progress to either a carrier or an active disease state
- Transmitted through infected blood fluid & sexual contact
- **NO VACCINE AVAILABLE**

San Diego County Probation

64



San Diego County Probation

65

Bloodborne Pathogens:

- Bloodborne pathogens are disease causing organisms present in the blood of exposed and infected individuals.
- These include: **hepatitis B, hepatitis C, and HIV**

San Diego County Probation

66

Human Immunodeficiency (HIV):

- Attacks immune system, causing Acquired Immune Deficiency Syndrome (AIDS), which is fatal
- Symptoms may not develop for several years, but AIDS eventually develops
- When symptoms appear, they are flu like symptoms. Opportunistic infections such as thrush, esophageal candida may also occur
- Transmitted through infected body fluids & sexual contact
- NO VACCINE AVAILABLE

San Diego County Probation

67

Body fluids that carry the virus include:

- Saliva in dental procedures
- Semen
- Vaginal Secretions
- Cerebrospinal fluid
- Synovial fluid
- Pleural fluid
- Peritoneal fluid
- Amniotic fluid
- Any body fluid visibly contaminated with blood

San Diego County Probation

68

Body fluids that DO NOT carry viruses:

- Saliva
- Feces
- Urine
- Sputum
- Nasal secretions
- Tears
- Vomit
- Sweat

San Diego County Probation

69

Important facts:

Bloodborne pathogens infect by:

- Sexual contact
- Contact with blood & some body fluids which carry viruses

San Diego County Probation

70

Remember:

- To cause infection the bloodborne pathogens must enter the body through a port—skin breaks/mucus membranes
- Punctures with sharps such as needle, scalpels, broken glass etc.
- Open cuts, skin abrasions, dermatitis and acne.

San Diego County Probation

71

How can we protect ourselves?

UNIVERSAL PRECAUTIONS!!

San Diego County Probation

72

Airborne Pathogens:

- Chicken Pox
- TB

San Diego County Probation

73

Chicken Pox (Varicella):

- A contagious infection with the varicella-zoster virus that produces a characteristic itchy rash, consisting of small, raised, blistered or crusted spots.
- Causes: Infection with the virus. It is spread person to person by airborne droplets or contact with a skin eruptions on an infected person. Incubation after exposure is 7-21days.

San Diego County Probation

74

Facts about Chicken Pox:

- Symptoms begin 10-21 days after infection.
- May have headache, fever, & loss of appetite.
- 24-36 hours after first symptoms begin, a rash of small, flat red spots appear.
- New spots usually stop appearing by the 5th day—most are crusted by the 6th. (Majority are gone in fewer than 20 days.)
- Keep child isolated until all are crusted over.
- Keep any female of child bearing age away from child.

San Diego County Probation

75

Treatment:

- Topical anesthetics and topical antihistamines (Calamine)
- Tylenol for fever—NEVER give aspirin to children
- Activity—let them whatever they feel up to doing/they may sport by themselves/they may shower
- No special diet is needed



San Diego County Probation

76

Tuberculosis

San Diego County Probation

77

Tuberculosis:

- Tuberculosis is an airborne pathogen that is spread from droplets from an infected person.
- Risk factors for inhaling TB from a person with infectious TB disease depends on the:
 - length of time spent near the person
 - distance between you and the person

San Diego County Probation

78

Can you get TB?

YES, if you...

- Shoot drugs
- Have a weakened immune system
- Live or work in crowded conditions
- Spent time with someone who had active TB
- A healthcare worker

HIGH RISK GROUPS:

- HIV
- Previously infected persons (TB or ppd reactors)
- Minority groups
- Low income/homeless
- Foreign born

San Diego County Probation

79

TB pathogens can be spread when a contagious person:

- Coughs
- Sneezes
- Sings
- Shouts

San Diego County Probation

80

TB pathogens CAN NOT be spread by:

- Brief contact
- Sharing dishes/utensils
- Using towels/linens
- Handling food

San Diego County Probation

81

TB Infection—what does it mean?

- TB germs are sleeping and body defenses are keeping them from growing.
- TB skin test was over 10mm
- Chest XRAY –Normal
- The person has no symptoms and is not sick.
- Yes, the person is infected, but is not infectious to others.
- If no preventive treatment, 10% chance of developing active TB. (JH Treatment INH for 9 months)

San Diego County Probation

82

Active TB Disease:

- TB germs are in the body and growing
- TB skin test positive (over 10mm)
- Chest XRAY positive
- Sputum culture positive

- Treatment: Multiple Meds/repeat CXR & sputum cultures.

Signs/Symptoms:

Cough
Weight loss
Fever
Lots of sputum
Night sweats
Loss of appetite

San Diego County Probation

83

MRSA Video

San Diego County Probation

84

THE END

THANK YOU!

San Diego County Probation