Because It's Black & Blue Does not Mean It's a Bruise

Forensic Wound Assessment & Documentation of Abuse and Neglect

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4N6 RN

- Forensic Nurse
- Forensic = Pertaining to the Law
- International Association of Forensic Nursing
- www.iafn.org
- 1-410-626-7805

Falls can be:

- Accidental
- Intentional
- Preventable
- Unpreventable
- Let's look at the risks

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Resident Vulnerabilities

- Environmental hazards (water on floor, equipment in the way, poor lighting)
- Underlying medical conditions
- Medication side effects
- Lower extremity weakness
- Balance disorders
- Poor grip

Resident Vulnerabilities

- Visual deficits
- Inner ear conditions
- Functional impairments
- Cognitive impairments

Post-fall actions include....

- Assess for injuries
- Provide all needed emergent and follow-up treatment
- What caused and/or contributed to the fall
 Multi-factorial
- Think of all reasonable theories of causation
- Ask the patient, even if patient is confused or nonverbal – document the reply or lack of reply
- Ask the direct care staff their theories of causation

- Fell down versus found down
- Name of person(s) who witnessed the fall.
- Name of person(s) who found the patient down.
- Location of the fall or found down site...
 - Sidewalk, lawn, carpeted bedroom, tiled floor

Sample charting - clarify fell versus found down

- Mrs. J. Jones reportedly found on tiled bathroom floor at 2315 hours by direct care staff, R. Gilbert, J. Gentile.....
- Mrs. J. Jones reportedly fell at 2315 hours witnessed by direct care staff, R. Gilbert, J. Gentile...

- Prevention of future falls
- Strategies tried
 - What was/was not helpful
- REVISE THE CARE PLAN
- TRAIN ALL STAFF ON THE NEW PLAN OF CARE

EVEN CMS SAYS...

- A fall by a resident does not necessarily indicate a deficient practice
- Because
- NOT EVERY FALL CAN BE AVOIDED

Survey says....

- How many of you have never accidentally hurt yourself?
- Locations???
- · Accidental versus intentional
 - Distal
 - Proximal (central, midline, hidden)

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Mechanism of Injury

- Mechanically how could the injury have occurred???
- Think through the injury try to mentally or physically recreate the mechanism
- Often times there can be a combination of mechanisms resulting in different types of injury

http://www.une.edu/mainegec/

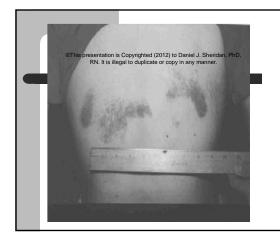
Free course. Voice over PowerPoint with injury slides plus three video-taped assessment interviews in health care settings.		
Approved for 2.0 University of New England CEU credits		
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Alphabet of injuries		

- Examples of Forensic Terminology and Injuries
- Medical Dictionary: Forensic means relating to or dealing with the application of scientific knowledge to legal problems (i.e., a forensic pathologist or forensic experts).
- http://www.merriam-webster.com/medlineplus/forensic

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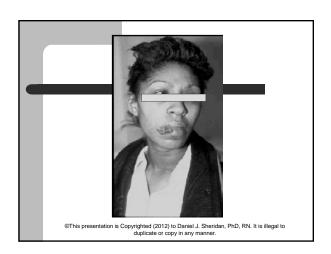
Abrasion

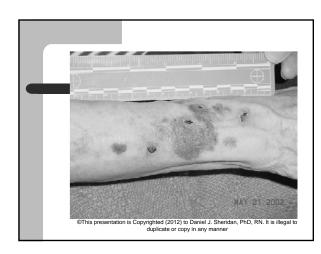
• A wound caused by rubbing or scraping the skin or mucous membrane.



Avulsion

• The tearing away of a structure or part. Often seen as a partial avulsion.





Bruise

- Blunt force trauma that results in a superficial discoloration due to hemorrhage into the tissue from ruptured blood vessels from beneath the skin surface without the skin itself being broken:
- also called a contusion.

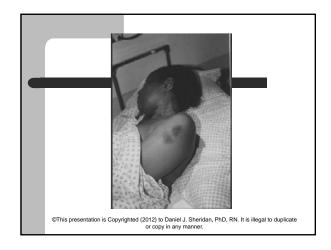
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Contusion

- A bruise:
- Traumatic injury of tissue without breakage of skin; blood accumulates in the surrounding tissue producing pain, swelling, tenderness, and discoloration.



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• See incision.

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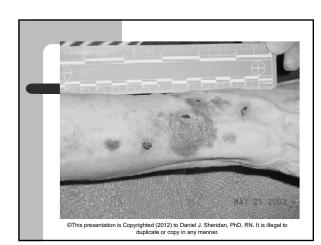
Ecchymosis (singular) Ecchymoses (plural)

- A hemorrhagic spot or blotch, larger than petechia, in the skin or mucous membrane forming a non-elevated, rounded, or irregular blue or purplish purpuric patch.
- Ecchymosis is not injury from blunt force trauma. It is NOT a bruise or contusion.
- Ecchymosis is purpura usually in the skin or mucous membranes.

Ecchymosis

- *Ecchymosis* in the elderly is often to the arms and/or hands.
- Blunt force trauma to the mid face often results in the development of bilateral periorbital ecchymoses (raccoon eyes).
 Discoloration from a bruise can be pulled by gravity downward. The downward discoloration is called ecchymosis while the discoloration at the point of blunt impact is called a bruise.







Review All Medications

- While many medications may place a resident at risk to bruise or bleed, the following are among the more common:

 - Aspirin
 Coumadin (warfarin)
 Heparin
 Plavix
 Valproic Acid

 - Prednisone



Medications

- Platelet inhibitors
 - ReoPro Aspirin Plavix Pletal - Agrylin Persantine Brilinta Ticlid - Integrilin
 - Aggrastat

Medications

• Anticoagulants - injectable

Thrombate III Acova AggiomaxFragmin Iprivask Aristra

- Heparin

• Anticoagulants - oral

- Pradexa Xarelto Coumadin

Review All Dietary Supplements

- Over 40 common, over-the-counter vitamins and supplements can place a resident at possible risk to bleed or bruise more easily, especially if the resident is already taking medication that is placing her or him at risk.
- The facility and the surveyor must be aware of medicationsupplement interactions. Among the more commonly consumed at-risk supplements are
 - bilberry,
 - ginger,
 - garlic, and
 - ginko biloba.

Medications

●There is NO MEDICATION that CAUSES a patient to bruise !!!!!!

Hematoma

· A localized collection of blood

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Hematoma

- Hematoma:
 - A localized collection of blood from a broken blood vessel (s).
- Hematoma is not a synonym for a bruise or a contusion.



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Hemorrhage

The escape of blood from a ruptured vessel.
 It can be internal, external, or into the skin or other tissue.

Incision

- An Incision = A cut.
- A cut that is deeper than it is wide is a stab wound
- A wound made by a sharp instrument or object (a sharp injury).
 - Scalpel, knife, razor, paper

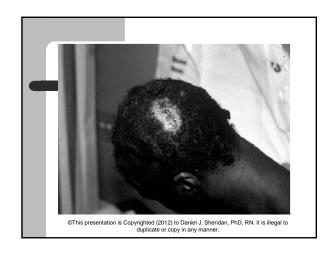
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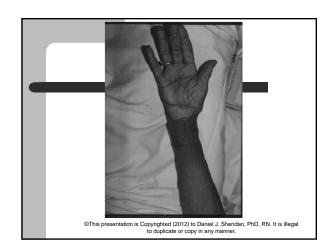
Laceration

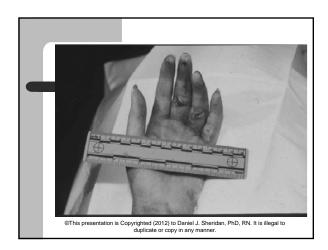
- The act of tearing. A wound produced by the tearing of body tissue often from blunt impact that is distinguished from a cut or incision.
- They're messy and often contain "stuff."
- "Stuff" = trace evidence = charted as "debris" in your notes

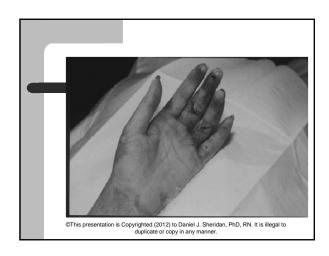


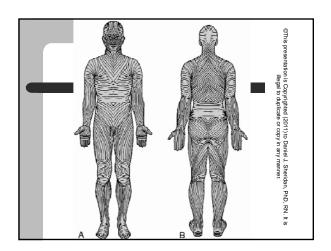
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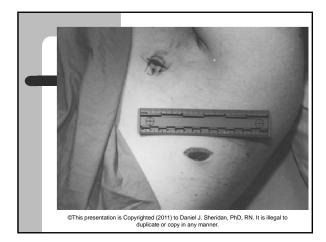












Lesion

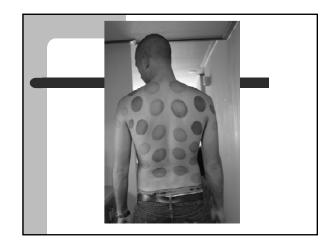
- Any pathological or traumatic discontinuity of tissue or loss of function of a part.
- Broad term, including sores, ulcers, tumors, or other tissue damage.

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Patterned Injury

 An injury where one is reasonably certain an object caused the injury, or certain which object caused the injury and/or by what mechanism an injury was caused.

Coining	
Cupping	

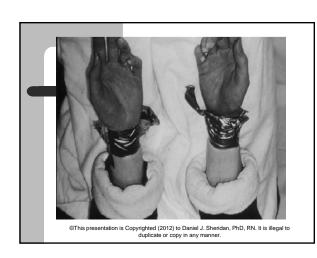


Types of Strangulation

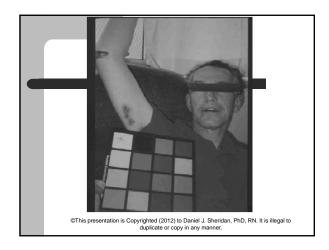
- Manual
 - Hands, arm headlock, leg scissor headlock, forearm, knee, foot (most common)
- Ligature
 - Any cord-like object wrapped around the neck
- Mechanical
 - Bedrails, electric powered equipment (patient beds), staircase rails















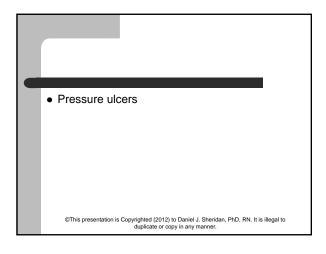


Pattern of Injury

 Injuries in various stages of healing, including new and old scars, contusions, fractures, wounds.







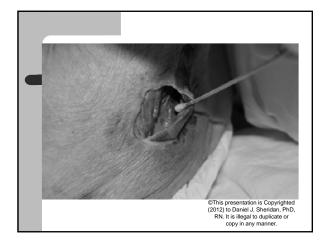
Bony Prominence 95% on lower half of body Sacral area most common. http://www.health.nsw.gov.au/hospitalinfo/pressure.html ©This presentation is Copyrighted (2012) to Daniel J. Sheridan, PhD, RN. It is illegal to duplicate or copy in any manner.











Take Home Points

- ALL Pressure ulcers are NOT preventable, but many are preventable.....
- ALL Pressure ulcers are NOT curable, but many are curable....
- HOWEVER....
- ALL PRESSURE ULCERS ARE TREATABLE !!!!!!!!!!!!!!

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Petechia

 Petechia are minute, pin-point, non-raised, perfectly round, purplish-red purpuric spots caused by intradermal or sub-mucous hemorrhage, which later turn blue then yellow before fading away.

Petechia

• Petechia are caused by the rupture of capillaries. When blood is not allowed to leave the head/face because of occlusion or compression of the jugular veins, capillaries will burst in and around the eyes and face.



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Puncture

• The act of piercing or penetrating with a pointed object or instrument.

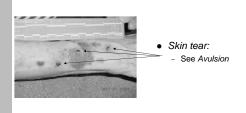
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Purpura

- *Purpura* is a *hemorrhagic* rash with leakage of blood into the tissue.
- Often associated with bleeding or clotting disorders. Ecchymosis and petechia are forms of purpura.

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Skin Tear



Trace Physical Evidence

 Often embedded in an injury or the clothes of the patient will be trace physical evidence.
 One needs to ask herself if the trace physical evidence in wound or clothing (either observed in-person or by history) supports or distracts from the reported history or theory of causation.

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Unexplained Injury

- It is relatively common, especially for institutionalized elderly to hear from caregivers that they have no idea how the patient received her/his injuries.
- All significant unexplained injuries to vulnerable patients should raise one's suspicions of possible abuse or neglect.

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Wound

- A bodily injury caused by physical means, with disruption of the normal structures
 - contused w. one which skin is unbroken
 - incised w. one caused by cutting instrument
 - lacerated w. one in which tissues are torn
 - open w. one having free outward opening
 - penetrating w. one caused by a sharp, slender object that passes through the skin into tissue

Documentation Pearls

- If you did not chart it......
- You did not do it!!!!!
- Avoid personal opinion
- Avoid charting arguments with co-workers
- Avoid derogatory remarks about client, family, or other providers
- Write legibly, legibly, legibly, legibly

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Forensic Written Documentation

As verbatim as possible - paraphrase as needed

Do not sanitize or "medicalize"

Avoid pejorative documentation

- Do not use "patient refused," uncooperative," or "noncompliant"
- Do not use "Alleged"
- Never write "patient claims she was...."
- Replace with "patient declined;" "patient said;" "patient States;" "patient reports"

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Avoid pejorative documentation

- · Stop charting "refused"
- Stop charting "uncooperative"
- Stop charting "non-compliant"
- Stop charting "alleged" and "allegedly"
- Stop charting your feelings
- Stop charting your anger

-	
-	

Forensic Photography

- Digital
- Frontal ID shot
- Rule of thirds
- Use different lighting
- Bracket your photographs

- Patient Name

Patient ID Number

- DOB

Date/Time of Photo

- Name of Photographer

Physical Location

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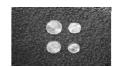
Forensic Photography

- Photograph the environment measure the room/furniture/equipment
- Color slides/tape measures/stick-ums
- Use a scale ruler/coin/pencil
- Match injury to object if possible

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Common Forensic Photographic Scales





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Standard Rulers

- Lightning Powder Company
- www.redwop.com

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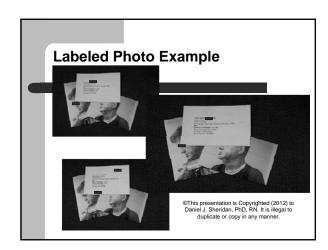
Labeling Photographic Images

- Whenever and by whomever pictures are taken in a facility, the photographs must be properly labeled.
- The following slides discuss the proper labeling of photographic images.

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Labeling Photographic Images

- One of the most effective ways to label print photographs is with 2" X 4" shipping gum labels available from any office supply store.
- The labels can be written by hand or typed and printed on a laser or ink jet printer.



Labeling Photographic Images

Label all pictures with:

- Patient/resident name
- Date of birth & ID number
- Facility name
- Date and time of photo
- Location of injury on the body
- Photographer's nameLocation
- Case number (if assigned)

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Photographic Documentation

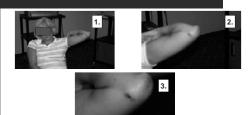
- Medical photographs can be subpoenaed and presented in court as evidence if the case goes to trial.
- Residents should sign a "consent to photograph" form before health care providers take medical photographs.
- Use body maps as well as photographs to show accurate bruise coloring or unnoticeable tenderness that may not be visible in a photograph.
- High quality photographs are important as part of prudent documentation.

Photographic Documentation

 The photograph is a true and accurate representation of what the health care professional examined and treated on the day of the exam.

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Rule of Thirds



Collecting and Preserving Evidence

- The facility must have a protocol for evidence collection by facility staff that has been reviewed by local law enforcement, prosecutors, and the facility's legal counsel.
- In cases of abuse, facilities need to collect and preserve clothing that is bloodied or soiled. This includes bloodied or soiled bed sheets, clothes, and undergarments.

Collecting and Preserving Evidence



- If the patient has debris (trace physical evidence) on her or his body, some of the material should be swabbed into a clean sealable cup before it is washed away, unless delaying the washing process places the resident at increased risk of infection.

 Swab debris into a clean cup.
- Swab debris into a clean cup, seal and place a patient gum label on the container, and document when and from where the debris was collected.

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Collecting and Preserving Evidence

Use paper not plastic...Paper bags are air permeable. If there is any moisture (blood, body fluids, water) on the clothing or sheets, the moisture will evaporate through paper and will minimize evidencedestroying mold and bacterial growth.





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Collecting and Preserving Evidence



Fold the bag over. Secure with tape. Label with a patient ID sticker. Then sign with the date and time.

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Collecting and Preserving Evidence All envelopes, no matter the size, used for any evidence collection need to be sealed and labeled in a similar fashion. ©This presentation is Copyrighted (2012) to Daniel J. Sheridan, PhD, RN. It is illegal to duplicate or copy in any manner.

Case Reviews

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