Ankle and Foot Injury

INITIAL ASSESSMENT QUESTIONS

- INJURIES TO A BONE, MUSCLE, JOINT, OR LIGAMENT OF THE ANKLE AND FOOT
- ASSOCIATED SKIN AND SOFT TISSUE INJURIES ARE ALSO INCLUDED

INITIAL ASSESSMENT QUESTIONS

1. MECHANISM: "How did the injury happen?" (e.g., twisting injury, direct blow)
2. ONSET: "When did the injury happen?" (Minutes or hours ago)
3. LOCATION: "Where is the injury located?"
4. APPEARANCE OF INJURY: "What does the injury look like?"
5. WEIGHT-BEARING: "Can you put weight on that foot?" "Can you walk (four steps or more)?"
6. SIZE: For cuts, bruises, or swelling, ask: "How large is it?" (e.g., inches or centimeters; entire joint)
7. PAIN: "Is there pain?" If Yes, ask: "How bad is the pain?" (e.g., Scale 1-10; or mild, moderate, severe)
   - NONE (0): no pain.
   - MILD (1-3): doesn't interfere with normal activities.
   - MODERATE (4-7): interferes with normal activities (e.g., work or school) or awakens from sleep, limping.
   - SEVERE (8-10): excruciating pain, unable to do any normal activities, unable to walk.
8. TETANUS: For any breaks in the skin, ask: "When was the last tetanus booster?"
9. OTHER SYMPTOMS: "Do you have any other symptoms?"
10. PREGNANCY: "Is there any chance you are pregnant?" "When was your last menstrual period?"

TRIAGE ASSESSMENT QUESTIONS (TAQs)

Call EMS 911 Now

Serious injury with multiple fractures (broken bones)

CA: 40, 1

[1] Major bleeding (e.g., actively dripping or spurting) AND [2] can't be stopped

FIRST AID: Apply direct pressure to the entire wound with a clean cloth.
CA: 40, 1046, 1

Amputation

FIRST AID: Apply direct pressure to the entire wound with a clean cloth.
CA: 40, 1046, 20, 1

Looks like a dislocated joint (very crooked or deformed)

Reason: If dislocated, adult will be unable to walk at all. Possible vascular compromise. Needs reduction.
CA: 40, 16, 1

Sounds like a life-threatening emergency to the triager
CA: 40, 1

See More Appropriate Guideline

Wound looks infected

Go to Guideline: Wound Infection (Adult)

Caused by an animal bite

Go to Guideline: Animal Bite (Adult)

Caused by a human bite

Go to Guideline: Human Bite (Adult)

Puncture wound of foot

Go to Guideline: Puncture Wound (Adult)

Toe injury is main concern

Go to Guideline: Toe Injury (Adult)

Cast problems or questions

Go to Guideline: Cast Symptoms and Questions (Adult)

Go to ED Now

Bullet wound, stabbed by knife, or other serious penetrating wound

FIRST AID: If penetrating object still in place, don't remove it (Reason: removal could increase bleeding).

CA: 41, 1042, 127, 15, 93, 1

Skin is split open or gaping (or length > 1/2 inch or 12 mm)

Reason: may need laceration repair (e.g., sutures)

CA: 41, 160, 109, 127, 1

[1] Bleeding AND [2] won't stop after 10 minutes of direct pressure (using correct technique)

Reason: may need laceration repair (e.g., sutures)

CA: 41, 160, 116, 1


Reason: needs irrigation and/or additional wound care

CA: 41, 160, 127, 1

Can't stand (bear weight) or walk

R/O: fracture
[1] Numbness (new loss of sensation) of toe(s) AND [2] present now

Sounds like a serious injury to the triager

*R/O: fracture, dislocation

See HCP (or PCP Triage) Within 4 Hours


*R/O: fracture

Suspicious history for the injury

*R/O: domestic violence, elder or vulnerable adult abuse

See PCP Within 24 Hours

[1] Limp when walking AND [2] due to a twisted ankle or foot

*R/O: sprain, minor fracture

[1] Limp when walking AND [2] due to a direct blow or crushing injury

*R/O: contusion, minor fracture

Large swelling or bruise (> 2 inches or 5 cm)

*R/O: minor fracture, muscle hematoma

Diabetes mellitus (Exception: small cut or scrape)

*R/O: diabetic neuropathy reduces pain of fracture

[1] High-risk adult (e.g., age > 60 years, osteoporosis, chronic steroid use) AND [2] limping

*R/O: there is greater risk of fracture in patients with osteoporosis (bone thinning)

[1] No prior tetanus shots (or is not fully vaccinated) AND [2] any wound (e.g., cut, scrape)

*Note: A full tetanus vaccination series consists of 3 shots. Nearly all adults born in North America have received a full 3-tetanus shot series in childhood.

*CA: 41, 160, 93, 1

*CA: 41, 93, 23, 15, 1

*CA: 43, 23, 11, 1001, 1004, 89, 1

*CA: 44, 8, 1001, 1004, 12, 1

*CA: 44, 7, 1001, 1004, 12, 1

*CA: 44, 2, 1001, 1004, 12, 1

*CA: 44, 11, 1001, 1004, 12, 1

*CA: 44, 23, 11, 89, 1

*CA: 44, 113, 109, 118, 1001, 1004, 107, 1
[1] HIV positive or severe immunodeficiency (severely weak immune system) AND [2] DIRTY cut
   
   *Reason: may need Tetanus Immune Globulin (TIG). Referral to the emergency department may likely be required as doctors' offices usually do not stock TIG.*
   
   CA: 44, 109, 118, 1001, 1004, 107, 1

**See PCP Within 3 Days**

[1] Last tetanus shot > 5 years ago AND [2] DIRTY cut or scrape
   
   *Reason: may need a tetanus booster shot (vaccine).*
   
   CA: 45, 108, 109, 118, 1001, 1004, 107, 1

[1] Last tetanus shot > 10 years ago AND [2] CLEAN cut or scrape (e.g., object AND skin were clean)
   
   *Reason: may need a tetanus booster shot (vaccine).*
   
   CA: 45, 108, 109, 118, 1001, 1004, 107, 1

   
   *R/O: sprain, fracture*
   
   CA: 45, 1001, 1004, 112, 12, 1

   
   CA: 45, 1001, 1004, 112, 12, 1

   
   *Reason: increased risk of infection or ulcer*
   
   CA: 45, 1272, 18, 19, 1001, 1004, 21, 1

**Home Care**

   
   *Reason: probably a minor sprain*
   
   CA: 48, 6, 10, 112, 1001, 1004, 4, 5, 1

Minor injury or pain from direct blow or crushing injury
   
   *Reason: probably a minor contusion (bruise)*
   
   CA: 48, 3, 9, 112, 1001, 1004, 4, 5, 1

Small cut (scratch) or abrasion (scrape) is also present
   
   *Reason: Minor superficial cut or abrasion.*
   
   CA: 48, 104, 1272, 1273, 1274, 1001, 1004, 107, 1

**CARE ADVICE (CA)**
1. **Care Advice** given per Foot and Ankle Injury (Adult) guideline.

2. **Apply a Cold Pack:**
   - Apply a cold pack or an ice bag (wrapped in a moist towel) to the area for 20 minutes. Repeat in 1 hour, then every 4 hours while awake.
   - Continue this for the first 48 hours after an injury.
   - This will help decrease pain and swelling.

3. **Reassurance and Education - Direct Blow (Contusion, Bruise):**
   - A direct blow to your ankle or foot can cause a contusion. Contusion is the medical term for bruise.
   - Symptoms are mild pain, swelling, and/or bruising.
   - *Here is some care advice that should help.*

4. **Expected Course:**
   - Pain and swelling usually peak on day 2 or 3.
   - Swelling is usually gone by 7 days.
   - Pain may take 2 weeks to completely resolve.

5. **Call Back If:**
   - Severe pain persists over 2 hours after pain medicine and ice
   - Swelling or bruise becomes over 2 inches (5 cm).
   - Pain not improved after 3 days
   - Pain or swelling lasts over 2 weeks
   - You become worse

6. **Reassurance and Education - Bending or Twisting Injury (Strain, Sprain):**
   - Strain and sprain are the medical terms used to describe over-stretching of the muscles and ligaments of the ankle or foot. A twisting or bending injury can cause a strain or sprain.
   - The main symptom is pain that is worse with movement and walking. Swelling can occur. Rarely there may be slight bruising.
   - *Here is some care advice that should help.*

7. **Treatment of Mild Contusions (e.g., Direct Blow to Ankle or Foot):**
   - Use R.I.C.E. (rest, ice, compression, and elevation) for the first 24 to 48 hours.
   - Continue to apply crushed ice in a plastic bag for 10-20 minutes every hour for the first 4 hours. Then apply ice for 10-20 minutes 4 times a day for the first two days.
   - Apply Compression with a snug, elastic bandage for 48 hours. Numbness, tingling, or increased pain means the bandage is too tight.
   - Keep injured ankle or foot Elevated and at rest for 24 hours.
   - After 24 hours of Rest, allow any activity that doesn't cause pain.
8. **Treatment of Mild Sprains (e.g., Mild Sprained Ankle):**
   - Use R.I.C.E. (rest, ice, compression, and elevation) for the first 24 to 48 hours.
   - Continue to apply crushed **ice** in a plastic bag for 10-20 minutes every hour for the first 4 hours. Then apply ice for 10-20 minutes 4 times a day for the first two days.
   - Apply **compression** with a snug, elastic bandage for 48 hours. Numbness, tingling, or increased pain means the bandage is too tight.
   - Keep injured ankle or foot **elevated** and at rest for 24 hours.
   - After 24 hours of **rest**, allow any activity that doesn't cause pain.

9. **Treatment of Mild Contusions (e.g., Direct Blow to Ankle or Foot):**
   - Use R.I.C.E. (rest, ice, compression, and elevation) for the first 24 to 48 hours.
   - Continue to apply crushed **ice** in a plastic bag for 10-20 minutes every hour for the first 4 hours. Then apply ice for 10-20 minutes 4 times a day for the first two days.
   - Apply **compression** with a snug, elastic bandage for 48 hours. Numbness, tingling, or increased pain means the bandage is too tight.
   - **Elevating** and **resting** the ankle and foot can sometimes help decrease pain and swelling. Try to do this several times a day for the first 48 hours after the injury.

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    - Use R.I.C.E. (rest, ice, compression, and elevation) for the first 24 to 48 hours.
    - Continue to apply crushed **ice** in a plastic bag for 10-20 minutes every hour for the first 4 hours. Then apply ice for 10-20 minutes 4 times a day for the first two days.
    - Apply **compression** with a snug, elastic bandage for 48 hours. Numbness, tingling, or increased pain means the bandage is too tight.
    - **Elevating** and **resting** the ankle and foot can sometimes help decrease pain and swelling. Try to do this several times a day for the first 48 hours after the injury.

11. **Local Cold:**
    - Apply cold pack or an ice bag (wrapped in a moist towel).
    - Do this for 20 minutes out of every hour until seen.

12. **Call Back If:**
    - Severe pain persists longer than 2 hours after pain medicine and ice
    - You become worse

15. **Nothing by Mouth:**
    - Do not eat or drink anything for now.
    - **Reason:** Condition may need surgery and general anesthesia.

16. **First Aid Advice for Suspected Ankle or Foot Fracture (Broken Bone) or Dislocation (Out of Joint):**
    - Do not remove the shoe.
    - Immobilize the ankle and foot by wrapping them with a soft splint (e.g., a pillow or a rolled-up blanket).
    - Use tape to keep this splint in place.
18. **Diabetes:**
   - Some patients with diabetes have "neuropathy" (nerve damage of sensory nerves) which can often reduce your ability to sense pain in your feet.
   - Wounds in patients with diabetes heal slower. People who have diabetes are prone to developing infected foot ulcers at sites of minor injury. Be vigilant for signs of infection: redness, pus, fever, or a non-healing wound.

19. **Diabetes Foot Care:**
   - Keep your feet clean.
   - Wash your feet daily. Dry your feet thoroughly, especially between the toes
   - Wear clean socks that do not have any tears or bumps. Change them twice daily.
   - Wear comfortable shoes that fit well.
   - You should examine your feet, toes, and toenails daily for wounds, blisters, and infection.
   - You should not go barefoot.

20. **Transport of Amputated Part:**
   - Briefly rinse amputated part with water (to remove any dirt)
   - Place amputated part in plastic bag (to protect and keep clean)
   - Place plastic bag containing part in a container of ice (to keep cool and preserve tissue).

21. **Call Back If:**
   - Dirt in the wound persists after cleaning
   - Unusual or unpleasant foot odor
   - Looks infected (pus, redness)
   - Doesn't heal within 10 days
   - You become worse

23. **No Standing:**
   - Try not to put any weight on the injured leg.

40. **Call EMS 911 Now:**
   - Immediate medical attention is needed. You need to hang up and call 911 (or an ambulance).
   - *Triager Discretion:* I'll call you back in a few minutes to be sure you were able to reach them.

41. **Go to ED Now:**
   - You need to be seen in the Emergency Department.
   - Go to the ED at ___________ Hospital.
   - Leave now. Drive carefully.
42. **Go to ED Now (or PCP Triage):**
   - **If No PCP (Primary Care Provider) Second-Level Triage:** You need to be seen within the next hour. Go to the ED/UCC at _____________ Hospital. Leave as soon as you can.
   - **If PCP Second-Level Triage Required:** You may need to be seen. Your doctor (or NP/PA) will want to talk with you to decide what's best. I'll page the provider on-call now. If you haven't heard from the provider (or me) within 30 minutes, go directly to the ED/UCC at _____________ Hospital.

43. **See HCP (or PCP Triage) Within 4 Hours:**
   - **If Office Will Be Open:** You need to be seen within the next 3 or 4 hours. Call your doctor (or NP/PA) now or as soon as the office opens.
   - **If Office Will Be Closed and No PCP (Primary Care Provider) Second-Level Triage:** You need to be seen within the next 3 or 4 hours. A nearby Urgent Care Center (UCC) is often a good source of care. Another choice is to go to the ED. Go sooner if you become worse.
   - **If Office Will Be Closed and PCP Second-Level Triage Required:** You may need to be seen. Your doctor (or NP/PA) will want to talk with you to decide what's best. I'll page the on-call provider now. If you haven't heard from the provider (or me) within 30 minutes, call again. **Note:** If on-call provider can't be reached, send to UCC or ED.

   **Note to Triager:**
   - Use nurse judgment to select the most appropriate source of care.
   - Consider both the urgency of the patient's symptoms AND what resources may be needed to evaluate and manage the patient.

   **Sources of Care:**
   - **ED:** Patients who may need surgery or hospital admission need to be sent to an ED. So do most patients with serious symptoms or complex medical problems.
   - **UCC:** Some UCCs can manage patients who are stable and have less serious symptoms (e.g., minor illnesses and injuries). The triager must know the UCC capabilities before sending a patient there. If unsure, call ahead.
   - **OFFICE:** If patient sounds stable and not seriously ill, consult PCP (or follow your office policy) to see if patient can be seen NOW in office.

44. **See PCP Within 24 Hours:**
   - **If Office Will Be Open:** You need to be examined within the next 24 hours. Call your doctor (or NP/PA) when the office opens and make an appointment.
   - **If Office Will Be Closed:** You need to be seen within the next 24 hours. A clinic or an urgent care center is often a good source of care if your doctor's office is closed or you can't get an appointment.
   - **If Patient Has No PCP:** Refer patient to a clinic or urgent care center. Also try to help caller find a PCP for future care.

   **Note to Triager:**
   - Use nurse judgment to select the most appropriate source of care.
   - Consider both the urgency of the patient's symptoms AND what resources may be needed to evaluate and manage the patient.
45. **See PCP Within 3 Days:**
   - You need to be seen within 2 or 3 days.
   - **PCP Visit:** Call your doctor (or NP/PA) during regular office hours and make an appointment. A clinic or urgent care center are good places to go for care if your doctor's office is closed or you can't get an appointment. **Note:** If office will be open tomorrow, tell caller to call then, not in 3 days.
   - **If Patient Has No PCP:** A clinic or urgent care center are good places to go for care if you do not have a primary care provider. **Note:** Try to help caller find a PCP for future care (e.g., use a physician referral line). Having a PCP or "medical home" means better long-term care.

46. **See PCP Within 2 Weeks:**
   - You need to be seen for this ongoing problem within the next 2 weeks.
   - **PCP Visit:** Call your doctor (or NP/PA) during regular office hours and make an appointment.
   - **If Patient Has No PCP:** A primary care clinic is where you need to be seen for chronic health problems. **Note:** Try to help caller find a PCP (e.g., use a physician referral line). Having a PCP or "medical home" means better long-term care.

47. **Home Care - Information or Advice Only Call.**

48. **Home Care:**
   - You should be able to treat this at home.

49. **Call PCP Now:**
   - You need to discuss this with your doctor (or NP/PA).
   - I'll page the on-call provider now. If you haven't heard from the provider (or me) within 30 minutes, call again.

50. **Call PCP Within 24 Hours:**
   - You need to discuss this with your doctor (or NP/PA) within the next 24 hours.
   - **If Office Will Be Open:** Call the office when it opens tomorrow morning.
   - **If Office Will Be Closed:** I'll page the on-call provider now. **Exception:** from 9 pm to 9 am. Since this isn't urgent, we'll hold the page until morning.

51. **Call PCP When Office Is Open:**
   - You need to discuss this with your doctor (or NP/PA) within the next few days.
   - Call the office when it is open.

52. **Go to L&D Now:**
   - You need to be seen.
   - Go to the Labor and Delivery Unit or the Emergency Department at __________ Hospital.
   - Leave now. Drive carefully.

89. **Call Back If:**
   - You become worse
93. **Note to Triager - Driving:**
   - Another adult should drive.
   - If there are any problems with automobile transport (e.g., unable to get to the car), then ambulance transport may be necessary.
   - The patient, caregiver, or family members can arrange ambulance transport via private ambulance company or via EMS 911.

104. **Reassurance and Education - Small Cut or Scrape:**
   - It sounds like a small cut or scrape that we can treat at home.
   - *Here is some care advice that should help.*

107. **Call Back If:**
   - Dirt in the wound persists after scrubbing
   - Looks infected (pus, redness)
   - Doesn't heal within 10 days
   - You become worse

108. **Tetanus Shot:**
   - You should get a tetanus booster shot in the next 3 days.
   - Most doctor's offices give tetanus shots. You can also get a tetanus shot at retail clinics (drugstore clinics) and at urgent care centers.

109. **Clean the Wound:**
   - Wash the wound with soap and water.
   - For any dirt, scrub gently with a washcloth.
   - *Bleeding:* Put direct pressure on the wound for 10 minutes to stop any bleeding. Place a clean cloth or gauze pad over the wound. Press down firmly with your fingers over the bleeding area.

112. **Use Heat on Area After 48 Hours:**
   - If pain, swelling, or bruising last more than 48 hours (2 days), then use heat on the area.
   - Use a heat pack, heating pad, or warm wet washcloth.
   - Do this for 10 minutes three times a day.
   - This will help increase blood flow and improve healing.
   - *Caution:* burn. Do not sleep on a heating pad.

113. **Tetanus Shot Series:**
   - If you have never gotten a tetanus shot, then you will need to get the full tetanus series.
   - The full tetanus shot series is a shot now, a shot in 4 to 8 weeks, and a shot in 6 to 12 months. Three shots in total.
   - *You should try to get the first tetanus shot in the next 24 hours.*

116. **Continue Direct Pressure for Bleeding:**
   - Put direct pressure on the bleeding area with a sterile gauze or clean cloth.
   - Continue doing this until seen.
118. **Dressing the Wound:**
- Cover the wound with a dressing.
- Use a sterile gauze or an adhesive bandage (such as a Band-Aid).
- Change the dressing daily or if it gets dirty.

127. **Cover the Wound:**
- Cover the wound with a dressing.
- Use a sterile gauze, an adhesive bandage (such as a Band-Aid), or a clean cloth.

160. **Alternate Disposition - Urgent Care Center:**
- An Urgent Care Center can usually manage this problem, if one is available in the caller's area.

1001. **Pain Medicines:**
- For pain relief, you can take either acetaminophen, ibuprofen, or naproxen.
- They are over-the-counter (OTC) pain drugs. You can buy them at the drugstore.
  - **Acetaminophen - Regular Strength Tylenol:** Take 650 mg (two 325 mg pills) by mouth every 4 to 6 hours as needed. Each Regular Strength Tylenol pill has 325 mg of acetaminophen. The most you should take each day is 3,250 mg (10 pills a day).
  - **Acetaminophen - Extra Strength Tylenol:** Take 1,000 mg (two 500 mg pills) every 8 hours as needed. Each Extra Strength Tylenol pill has 500 mg of acetaminophen. The most you should take each day is 3,000 mg (6 pills a day).
  - **Ibuprofen (e.g., Motrin, Advil):** Take 400 mg (two 200 mg pills) by mouth every 6 hours. The most you should take each day is 1,200 mg (six 200 mg pills), unless your doctor has told you to take more.
  - **Naproxen (e.g., Aleve):** Take 220 mg (one 220 mg pill) by mouth every 8 to 12 hours as needed. You may take 440 mg (two 220 mg pills) for your first dose. The most you should take each day is 660 mg (three 220 mg pills a day), unless your doctor has told you to take more.

1004. **Pain Medicines - Extra Notes and Warnings:**
- Use the lowest amount of medicine that makes your pain better.
- Acetaminophen is thought to be safer than ibuprofen or naproxen in people over 65 years old. Acetaminophen is in many OTC and prescription medicines. It might be in more than one medicine that you are taking. You need to be careful and not take an overdose. An acetaminophen overdose can hurt the liver.
- McNeil, the company that makes Tylenol, has different dosage instructions for Tylenol in Canada and the United States. In Canada, the maximum recommended dose per day is 4,000 mg or twelve Regular-Strength (325 mg) pills. In the United States, the maximum dose per day is ten Regular-Strength (325 mg) pills.
- Bayer, the company that makes Aleve, has different dosage instructions for Aleve in Canada and the United States. In Canada, the maximum recommended dose per day is 440 mg (2 pills or caplets). In the United States, the maximum dose per day is 660 mg (3 pills or caplets).
- **Caution:** Do not take acetaminophen if you have liver disease.
- **Caution:** Do not take ibuprofen or naproxen if you have stomach problems, kidney disease, are pregnant, or have been told by your doctor to avoid this type of anti-inflammatory drug. Do not take ibuprofen or naproxen for more than 7 days without consulting your doctor.
- **Before taking any medicine, read all the instructions on the package.**
First Aid - Penetrating Object:
- If penetrating object still in place, don't remove it.
- Reason: removal could increase internal bleeding.

First Aid - Direct Pressure for Bleeding:
- Put direct pressure on the entire wound with a clean cloth or gauze pad.

Cleaning a Cut or Scrape:
- Wash the wound with soap and water.
- For any dirt, scrub gently with a washcloth.
- Bleeding: Put direct pressure on the wound for 10 minutes to stop any bleeding. Place a clean cloth or gauze pad over the wound. Press down firmly with your fingers over the bleeding area.

Antibiotic Ointment for a Cut or Scrape:
- Put a small amount of antibiotic ointment on the wound once a day for 3 days.
- You can get this over-the-counter (OTC) at a drugstore.
- Use Bacitracin ointment (OTC in U.S.) or Polysporin ointment (OTC in Canada) or one that you already have.
- Read the package instructions on all medicines that you use.

Dressing a Cut or Scrape:
- Cover the wound with a dressing.
- Use a sterile gauze (held in place with paper tape) or an adhesive bandage (such as a Band-Aid).

**FIRST AID**

FIRST AID Advice for Bleeding: Apply direct pressure to the entire wound with a clean cloth.

FIRST AID Advice for Penetrating Object: If penetrating object still in place, don't remove it.

FIRST AID Advice for Shock: Lie down with feet elevated.

FIRST AID Advice for a Sprain or Twisting Injury of Ankle or Foot:
- Apply a cold pack or an ice bag (wrapped in a moist towel) to the area for 20 minutes.
- Wrap area with an elastic bandage.

FIRST AID Advice for Suspected Ankle or Foot Fracture (Broken Bone) or Dislocation (Out of Joint):
- Do not remove the shoe.
- Immobilize the ankle and foot by wrapping them with a soft splint (e.g., a pillow, a rolled-up blanket, a towel).
- Use tape to keep this splint in place.

Transport of an Amputated Body Part:
- Briefly rinse amputated part with water (to remove any dirt).
BACKGROUND INFORMATION

Types of Foot and Ankle Injuries

- Achilles tendon rupture: There is pain in the Achilles tendon (area above heel and behind ankle). There is weakness or inability to extend the foot (e.g., can't stand on tiptoes).
- Contusion: A direct blow or crushing injury results in bruising of the skin, muscle, and underlying bone.
- Cuts, abrasions
- Dislocations (bone out of joint)
- Fractures (broken bones)
- Sprains: Stretches and tears of ligaments
- Strains: Stretches and tears of muscles (e.g., pulled muscle)

What Cuts Need to be Sutured?

- Any cut that is split open or gaping probably needs sutures (or staples or skin glue).
- Cuts longer than 1/2 inch (1 cm) usually need sutures.
- Any open wound that may need sutures should be evaluated by a physician regardless of the time that has passed since the initial injury.

Tetanus Booster - When Does an Adult Need a Tetanus Shot?

All serious or major wounds are triaged and referred for immediate wound care. This includes crush injuries, amputations, avulsions, gaping cuts, larger burns, or any other wound that needs debridement or irrigation. For these wounds, if a tetanus booster is needed, it will be given with medical care on the day of the injury.

When is a tetanus shot needed for other wounds?

- Clean Cuts and Scrapes - Tetanus Booster Needed Every 10 Years: Patients with clean minor wounds AND who have previously had 3 or more tetanus shots (full series) need a booster every 10 years. Examples of minor wounds include a superficial abrasion, a small cut from a clean knife blade, or a glass cut sustained while washing dishes. All wounds need wound care and cleaning right away. A tetanus booster (Td or Tdap) should be given within 72 hours (3 days).
- Dirty Wounds - Tetanus Booster Needed Every 5 Years: Patients with dirty wounds need a booster every 5 years. Examples of dirty wounds include any cut contaminated with soil, feces, saliva and more serious wounds from deep punctures, crushing, and burns. All wounds need to be cleaned right away. A tetanus booster (Td or Tdap) should be given as soon as possible, preferably at the time of wound care, and definitely within 72 hours (3 days).

What if a person has had no prior tetanus shots or is not fully vaccinated?

- If a person has never gotten a tetanus shot, they should get the first tetanus shot today or within 24 hours. Then they will need to get the full tetanus series.
- If a person is not fully vaccinated (3 shots), they should get a tetanus shot today or within 24 hours.
- The full tetanus shot series is a shot now, a shot in 4 to 8 weeks, and a shot in 6 to 12 months. Three shots in total.
REFERENCES


SEARCH WORDS

ACHILLES TENDON
ACHILLES TENDONS
ANKLE
ANKLE FRACTURE
ANKLE INJURY
ANKLES
BONE
BONE TRAUMA
BONES
BROKEN ANKLE
BROKEN BONE
BROKEN BONES
BROKEN FOOT
BULLET
BULLETS
CROOKED BONE
CROOKED BONES
CUT
CUTS
Ankle and Foot Injury