

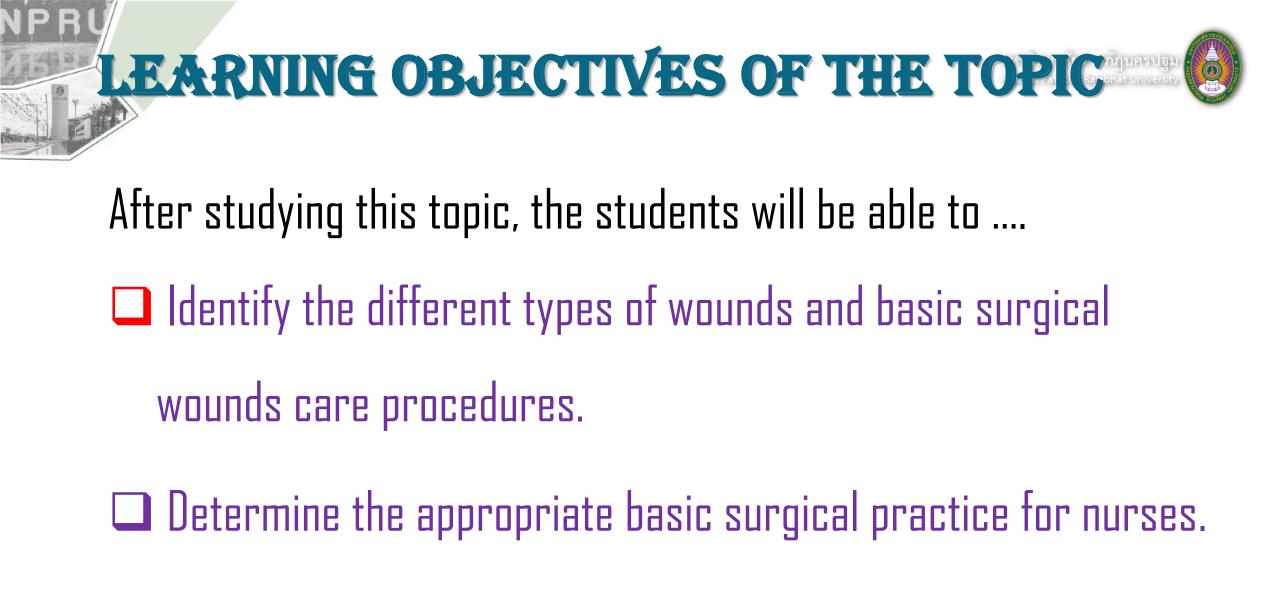
<u>เวิทยาลัยราชภั</u>กนครปฐเ

Nakhon Pathom Rajabhat University

Unit VIII Basic Surgical Care

Wanpen Waelveerakup, RN, Dr.PH Ruffel Joy C. Manalo, RN, MAN Faculty of Nursing Nakhon Pathom Rajabhat University Thailand









SCOPE OF THE TOPIC

WOUND TYPES



BASIC SURGICAL PRACTICE

- 1. Simple suture
- 2. Nail extraction
- 3. Incision and drainage (I&D)
- 4. Medical management









Wound – a break of normal continuity of the skin, tissues or muscles caused by physical, chemical or biological insults.

Two (2) types of wounds:



(1) **Open wound** – means the whole thickness of skin is opened (i.e., laceration and skin loss).

(2) **Closed wound** – means the skin is intact or not opened (i.e., crushing injury and contusions).



TERMINOLOGIES USED





Dehiscence – it happens when there is partial or complete separation of outer wound layers.

- **Evisceration** it happens when the wound ruptures
- **Eschar** it happens when a wound becomes dry, leathery dead tissue.
- **Granulation tissue** it happens when new tissues grow and fill the wound.
- Sinus tract it happens when tunnel develops between infected cavity and



the skin's surface.

Extracted from: Fundamentals of Nursing Care concepts, connections and skills (2015)





- . Amount of blood loss
- 2. Size and nature of the wound
- 3. Wound location
- 4. Causes
- 5. Time of occurrence
- 6. History of illnesses, drug allergies and record of vaccines received

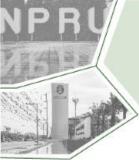




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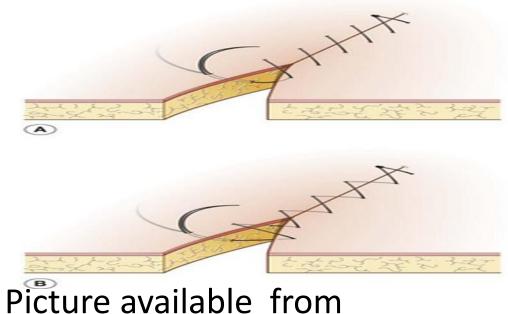
SCOPE OF PRACTICE¹





Types of simple sutures:

Simple interrupted suture
 Running lock stitches
 Mattress suture



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SCOPE OF PR&CTICE¹



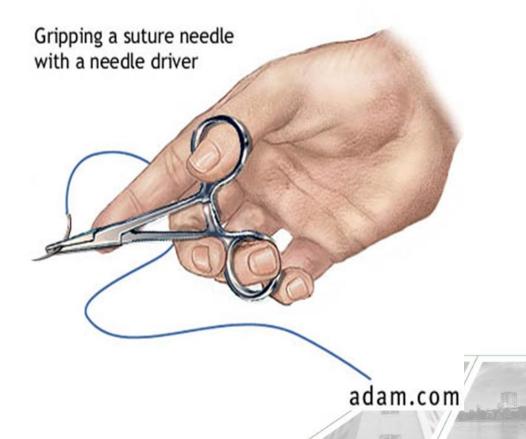


. Simple suture – is used to close wounds using a suture.

https://www.youtube.com/watch?v=z8oWv-nVO6g

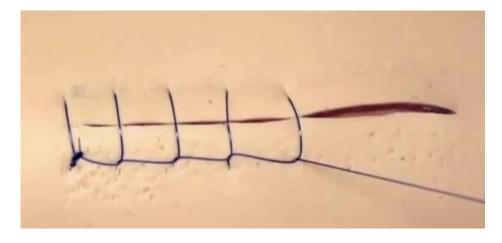


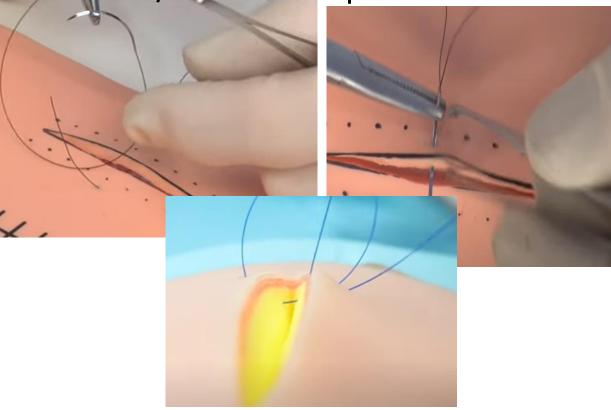
Picture available from https://jamaicahospital.org/newsletter/wpcontent/ uploads/2016/04/Sutures.jpg



3. Mattress suture https://www.youtube.com/watch?v=6qF4mxB7KzM

2. Running lock stitches





Picture by Wanpen

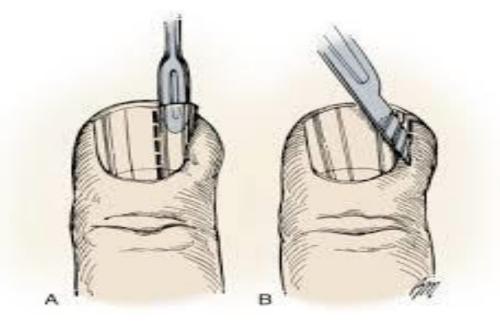
https://www.youtube.com/watch?v=_7mOYH-cWQI



SCOPE OF PRACTICE²

https://www.youtube.com/watch?v=-D58_mWPtpw **2. Nail extraction** – a form of treatment that is performed to treat the nail after a traumatic injury or recurrent infections.





์ทยาลัยราชภัฏนครบ

Picture available from http://medinfo2.psu.ac.th/surgery/Collective%20review /2560/9.Hand_infections%20(Sarayut%2024.5.60).pdf

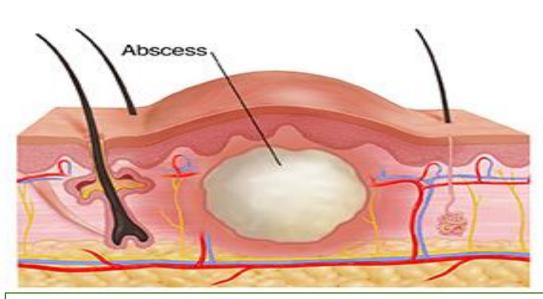


SCOPE OF PRACTICE³

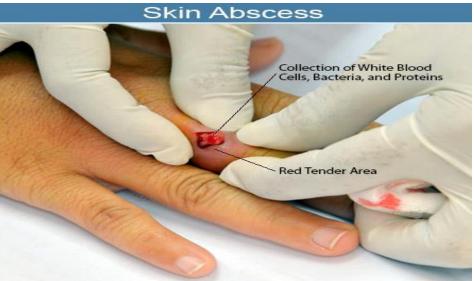




3. Incision and drainage (I&D) – is a procedure performed to release pus or pressure under the skin caused by an abscess, boil, infected paranasal sinus.



Picture available from https://www.saintlukeskc.org/healthlibrary/abscess-drainage



Picture available from https://images.emedicinehealth.com/images/skin -abscess.jpg



4. Medical management – is an independent strategy designed for nurse practitioners to provide and improve the quality and outcome of basic surgical care performed in Basic Medical Care settings and these includes:

- (a) Tetanus Toxoid (TT) vaccine;
- (b) Local anesthesia; and
- (c) Administration of antibiotics

SCOPE OF PRACTICEC⁴



(a) Tetanus Toxoid (TT) vaccine – is administered to patients as wound prophylaxis to maintain an adequate levels of tetanus toxin immunity.

Tetanus prophylaxis		
	Clean or minor wound	Dirty or severe wound
≥3 tetanus toxoid doses	 Tetanus toxoid-containing vaccine* only if last dose was ≥10 years ago No TIG 	 Tetanus toxoid- containing vaccine* only if last booster given ≥5 years ago No TIG
Unimmunized, uncertain, or <3 tetanus toxoid doses	 Tetanus toxoid-containing vaccine* only No TIG 	 Tetanus toxoid- containing vaccine* PLUS TIG

* Booster given as tetanus/diphtheria toxoids adsorbed (Td) or tetanus toxoid/reduced diphtheria toxoid/acellular pertussis (Tdap)

Picture available from https://o.quizlet.com/9vq-3pF5JzQleN4MnelOjw.png



12.sinclairstoryline.com/resources/media/7f9d1a bc-2cdb-4622-8ebe-5e87bcafb623large16x9_TetanusShot_August.jpg?15571774398 99



Immunization side effects:



Common:

- Infants and young children: mild fever, grizzly, unsettled, unhappy or sleepy
- Older children & adult: pain, redness and swelling at the injection site
- Very rare: anaphylaxis







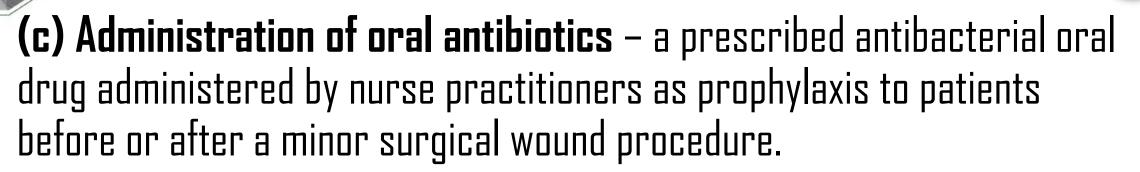
(b) Local anesthesia – is also called "local anesthetic", an injection of medicine to numb a small area of the body particularly around the wound area prior to a certain minor surgery procedure.



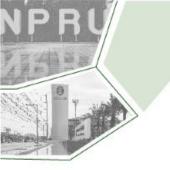


Pictures by Wanpen

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Antibiotic prophylaxis in simple wound in Thailand

By Pisont Jongtrakul in Rational Drug Use in Primary Care Bangkok: Wanida Printing, 2018







1) Do not use antibiotics as protection against infection in fresh wounds from accidents that are not cause by animal bites / human bites due to the possibility of infection in the wound after cleaning and appropriate wound care (approximately 1%).



Good prescribing practice for RDU: Antibiotic prophylaxis in simple wound 2



Antibiotic prophylaxis in simple wound ₂ Consider using antibiotics when one of the follo

2) Consider using antibiotics when one of the following criteria is met.

2.1) Uneven edge incision, difficult to clean, or stitching the edges of the wound is not close to each other.

- 2.2) Incisions with a length of 5 centimeters.
- 2.3) A compaction wound caused by gripping the door forcefully.
- 2.4) Deep cuts to muscles, ligaments or bones.
- 2.5) Wound with wide spread necrosis.

Good prescribing practice for RDU: Antibiotic prophylaxis in simple wound 3





2.6) There are dirty wounds that are difficult to remove or clean.

2.7) Contaminated surface with high bacteria invasion such as in feces, urine, dirty water, food scraps

2.8) A person with low immunity, such as 65 years of age, DM, cirrhosis, alcoholism, peripheral atherosclerosis, cancer, receiving immune suppressants, etc.



Good prescribing practice for RDU: Antibiotic prophylaxis in simple wound 4





3) Use antibiotics for 2 days, with the following drugs Dicloxacilin (ก)

- Children: 25-50 mg kg per day, divided into 4 times a day (no more than 250 mg/time) on an empty stomach.

- Adolescents and adults: 250-500 mg 4 times a day on an empty stomach.



Good prescribing practice for RDU: Antibiotic prophylaxis in simple wound G





3.2) In case of allergic reaction to Penicilln, consider using the following drugs

- Erythromycin susp / dry syr (ก)

-: Children: 20-40 or 30-50 mg / kg / day, divided to 3-4 times a day on an empty stomach. (But may change to take after if the patient is unwell)



Good prescribing practice for RDU: Antibiotic prophylaxis in simple wound 7



- Roxithromycin (ก)

-: Children body weight <40 kg : 5-8 mg / kg / day, divided to 2 times a day on an empty stomach, the child weighs > 40 kilograms.

-: Adolescents and adults: 300 mg 1 time per day or divided into 2 times a day on an empty stomach.





TOPIC SUMM&RY



Therefore we conclude that..

- Proper surgical wound care management can promote fast healing and recovery of the patient.
- Appropriate implementation of medical management on Basic Surgical Care level aids in the improvement of patient's quality of life.







Wanpen Waelveerakup, RN, DPh Email: <u>wanpenw@webmail.npru.ac.th</u>

Ruffel Joy C. Manalo, RN, MAN Email: rjcm02071982@gmail.com

