Chapter 13

BURN TRAUMAS AND PATIENT MANAGEMENT

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Overview

Even if the first step for treatment of burns is based on the same and priorities as for other forms of trauma; The main priority is must be stop any continuing burn injury caused by corrosive chemicals or smoldering clothes by using neutral solutions to flush away all garments from the injured area. The concomitant injuries should be assessed. The management of this injuries depend on the extention, depth and location of the burned area(Greaves&Johnson ,2002).

Epidemiology

- The rate of burns all in the world is around 1% on average.
- Approximately 1 milion burn injury cases are occurred yearly in the United States.
- The most rate is occurred in the home (43%).
- 75% 80% percent of mortal fires occurs source from houses
- Burns are showed two different increased risk period; The first period for risk is
 occurring younger than 4 years old and the second increased risk period is after
 65 age year old.
- Burns occur more frequently in vurnerable populations. This population including those with abuse drug administratios, heavy alcohol use, epilepsy, the poor and people living substandart builts.
- The death common cause of in scene of a fire is asphyxiation, but on the other side the most common recorded cause of death in burn patients after admission is multipl organ failure. (Bines, Messer&Poulakidas, 2011; Jarrel & Carabasi, 2008).

Etiology

- The most important reason for burning etiology is to act carelesss or boldly.
- 75% of burn cases are source from preventable reasons.
- The most common burn type in children is from boiled fluid, while the most common burn in adults is caused by flame. (Bines, Messer& Poulakidas, 2011)

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References:

Alicia L. Culleiton, Lynn M. Simko. (2013) Burn injuries Refresh your knowledge of burn types and initial management. (2013) January Nursing Critical Care, Jan 2013, pg.15-22

Bines D.S, Messer T.A, Poulakidas S.J, (2011), Fifth Edition, Chapter 11- Burns. Velasco J.M, Bines S.D, Deziel D.J, McCarthy W.J, Millikan K.W, Prinz R.A, Sacralides T.J. Review of Surgery, 160-168. Copright &Rush University Medical Center Review Surgery, Elsevier Saunders 2011.

Cambiaso-Daniel J. (2018). Topical Antimicrobials in Burn Care. (Ann Plast Surg 2018;00: 00-00

Cohen M.J, (2008) 5th Edition, Chapter 21- Trauma and Burns. Bruce E.Jarrell and R.Anthony Carabasi, III. NMS Surgery, 405-417. Copright &2008 Wolters Kluver |Lippincott Williams&Wilkins

Demetriades D. (2009), Assessment and Management of Trauma 5th edition, Division of Trauma and Surgical Critical Care Department of Surgery University of Southern California .

Herndon D. (2009); Total Burn Care. 4th Edition, Saunders.

Greaves I., Johnson G. (2002). Practical Emergency Medicine. 1th Edition, Oxford University Press Inc., Arnold.

Gresham C, Hulme S. (2017) Emergent Management of Frostbite, Updated: Apr 21, 2017, Medscape(Sep.2018)

Kekeç Z., Topaçoğlu H. (2010) Emergency Medicine Diagnosis and Treatment Practice Book in All Directions, 1th Edition, Nobel Kitabevi-Adana ISBN: 6053970729.

Kumar P. (2009). Fundamentals of Burn Management. 2nd Edition.

Koltka K. (2011). Burn Injuries: Burn Depth, Physiopathology and Type of Burns. (Review article). Journal of the Turkish Society of Intensive Care; 9, Special :1-6), ISNN: 1300-5804.

Marella L. Hanumadass, K. Mathangi Ramakrishnan. (2011). Paediatric Burns: Total Management of the Burned Child., Ed:. New Delhi, Paras Medical Publisher.

Thomas Duncan, DO, FACS, Javier Romero, MD, FACS . Trauma Book. (2012), Ventura County Medical Center Trauma Department. Copright and printing provided by: Ventura County GSA Business Support, Document Publishing/Graphic Design (805) 654-2775.