

FRACTURE CASES AT DR. SOEROTO HOSPITAL NGAWI AN EPIDEMIOLOGICAL REVIEW

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BACKGROUND

The advancement of science in transportation and geographical situation in Ngawi is the main factor of accidental fracture problems in Ngawi. However no detailed reports were found regarding this accidental fractures. The aim of this study is to get more information of fracture problem that were treated at the Central Surgical Installation dr. Soeroto Hospital Ngawi during the period of January to December 2019.

METHOD

A Retrospective Analysis in collecting the samples of the study, a total technique sampling is used. The total sample of 153 patients in this study recorded in the operating room medical register at the Central Surgical Installation, dr. Soeroto Hospital in Ngawi during the period of January to December 2019.

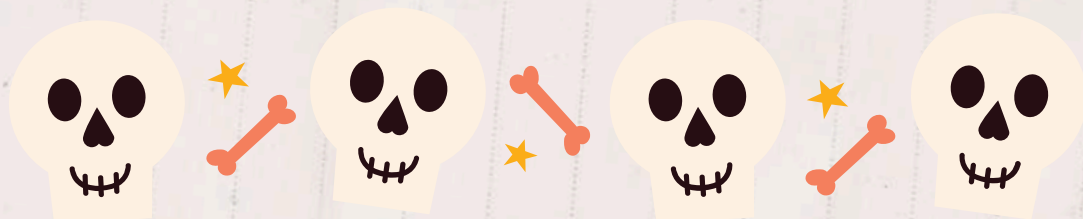
RESULT

The most cases of accidental fracture were at the age of 20 to 60 years of a total of 108 cases (71 %). The group of men has a higher incidence than women, with a total of 109 male cases (71%). The most anatomical location was the Antebrachii region with 50 cases (28%). About 38 cases (21%) are fractures in the radius bone. The longest average length of stay in the hospital was Vertebral-Lumbar Compression Fracture during 7 days. A total of 98 (62% bone fracture cases were treated with Open Reduction and Internal Fixation.



CONCLUSION

Age 20-60 years old, men, antebrachii region, radius bone, and open reduction internal fixation are the most dominant cases of accidental fracture in 2019.



References:

1. Amin S, Achenbach SJ, Atkinson EJ, Khosla S, Melton LJ 3rd. Trends in fracture incidence: a population-based study over 20 years. *J Bone Miner Res.* 2017;29(3):581-589
2. BIN. Kecelakaan Lalu Lintas Menjadi Pembunuh Terbesar Ketiga;2013. Di unduh dari : <http://www.bin.go.id/awas/deti/1/197/4/21/03/2013/kecelakaan-lalu-lintas-menjadi-pembunuh-terbesar-ketiga>
3. Buckley, Principles Richard. of General Fracture Care Treatment and Management
4. Depkes RI. (2005).Buku Petunjuk Pengisian, Pengolahan dan Penyajian Data Rumah Sakit. Jakarta: Depkes RI.
5. Kleinhenz, Benjamin. Clavicle Fracture Clinical Presentation. 2019
6. Larsen P, Elsoe R, Hansen SH, Graven-Nielsen T, Laessoe U, Rasmussen S. Incidence and epidemiology of tibial shaft fractures. 2015 Apr;46(4):746-50. doi: 10.1016/j.injury. 2014.12.027. Epub 2015 Jan 16. PMID: 25636535.
7. Meena, Sanjay, et al. "Fractures of distal radius: an overview." *Journal of family medicine and primary care* vol. 3,4 (2014): 325-32. doi:10.4103/2249-4863.148101
8. Nellans, Kate W et al. "The epidemiology of distal radius fractures." *Hand clinics* vol. 28,2 (2012): 113-25. doi:10.1016/j.hcl.2012.02.001
9. Riset Kesehatan Dasar. Angka Kejadian Fraktur di Indonesia. Kementerian Kesehatan Republik Indonesia. 2012
10. Tika, et al. 2018. Profil Kasus Fraktur Leher Femur yang Dilakukan Tindakan Operasi di RSUP Sanglah Denpasar Periode Maret 2016-Agustus 2017. *Jurnal Medika.* 7(12): 1-6.

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