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Management of kidney trauma in Saiful Anwar Hospital, Malang, Indonesia: A retrospective study

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Kidney is the most commonly injured genitourinary organ (65%). Kidney trauma occurs in approximately 1-5% of all trauma cases. The present study was performed to describe and analyze the characteristics of hospitalized patients in Saiful Anwar Hospital (SAH). During January 2005 to December 2016, 63 of kidney trauma patients in SAH were retrospectively studied. The data were analyzed based on demographic characteristic, chief complaint, mechanism of injury, hemodynamic stability state, grading and location of trauma and management. The association of hemodynamic state, type of management, anemic condition, grade of kidney trauma to patient's outcome was analyzed using SPSS. It occurred mostly in male patients (47/74.6%), pediatric involve (22/34.9%) of total patients. Motor vehicle injury was the most common mechanism of injury (50/79.4%). Most of the patients came with flank pain as a chief complain (42/66.7%). Trauma were occurred mostly due to blunt trauma (61/96.8%), more frequent cases involved right kidney (33/52.4%). Grade I kidney trauma is the most frequent occurred (40/63.5%) and stable hemodynamic state (52/82.5%). Mostly patients treated with non-operative management (60/95.2%) and no significant difference of length of hospitalization was noted between conservative and operative treatment ($p=0.625$). There were significant association between hemodynamic state and treatment options ($p=0.047$). However no association was noted between type of management and patients' outcome ($p=0.436$). Severe grade of trauma revealed increasing nephrectomy rate (OR: 174, 95% CI: 8.62-315.174 $p<0.01$). Most of its patients in SAH were uneventfully treated by conservative treatment. Severe grade of trauma increased risk of nephrectomy.

Biography

Besut Daryanto has completed his General Surgery study from Diponegoro University and obtained Urologist License from Airlangga University, Indonesia He is currently the Director of Urology Department in Faculty of Medicine Brawijaya University, Saiful Anwar General Hospital, Indonesia.

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