



Pain-management strategies among hospitalized trauma patients: a preliminary study in a teaching hospital in Indonesia

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KEYWORDS

Pain;
Pain management;
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Abstract

The incidence of trauma has been high and is considered to have increased throughout the years. This study aimed to describe the pain intensity and pain-management strategies of hospitalized trauma patients. Ninety-five adults presenting trauma with full consciousness, and who were admitted to surgical wards were recruited. Outcomes were assessed in a 3-day follow-up of pain and pain management from January to February 2016 by using questionnaires for interviews. Data were analyzed using descriptive statistics and repeated measures ANOVA. Preliminary research found that hospitalized trauma patients perceived mild to severe pain intensity. The trend of pain at its worst, pain at its least, average pain, and current pain decreased from Day 1 to day 3, which were statistically and significantly different ($p < .001$). The pain management often used by patients were: praying (84.2%), slow and deep breathing (78.9%), and at an attempt at toleration (46.3%). The least frequent method of pain management included immediately informing nurses about the pain (15.8%), reading (15.8%), and changing position (17.9%). Besides the pharmacological and nonpharmacological interventions received from physicians and nurses, strategies were crucial to alleviating pain in hospitalized trauma patients related to cultural context.

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Introduction

Apparently, the incidence of trauma has been high and is considered to have increased throughout the years (World Health Organization [WHO]^{1,2}. Hospital admissions were reportedly 2.3 million in the United States and 5.7 million in European countries (Centers for Disease Control and Prevention [CDC]^{3,4}. Most trauma patients were admitted due to motor-vehicle collisions (MVC) or falls². Likewise, in Indonesia, the incidence of trauma from MVC accounted for close to 1.3 million every year¹. This number is indi-

cated that MVC was sitting in the top 10 of leading causes of death.

Previous research in Western countries found a high prevalence of moderate to severe pain in trauma patients during hospitalization. For instance, 80 percent of musculoskeletal injury patients in a study conducted by Rosenbloom perceived moderate to severe pain when they were admitted to a large hospital in Canada⁵. Similarly, most patients with other types of trauma, such as burns and orthopedics injuries rated the same level of pain^{6,7}. Also, two qualitative studies have interviewed hospitalized trauma patients in

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westernized cities of Asia^{8,9}. These studies revealed that most trauma patients with orthopedic and burn injuries reported severe pain during hospitalization.

Pain management is essential to eliminate the cause of pain¹⁰. Evidence noted that trauma patients might receive pharmacological or nonpharmacological methods (e.g., relaxation, guided imagery, and information about pain)^{8,11-15}. Moreover, patients are able to apply their strategies, such as music, relaxation, or praying¹⁶⁻¹⁹. However, the study showed that the nonpharmacological strategy was underutilized²⁰.

Although pain and pain management in hospitalized traumatic patients has been well documented in western countries and Asia (i.e., Hong Kong), the differences of culture, society, and health care system among countries has recognized as one of the influencing factors to how person perceives and reacts to pain experience²¹. In Indonesia, little research on pain in hospitalized traumatic patients exists. Therefore, a study was needed to examine the issue of the intensity of pain and pain management so as to conduct preliminary estimates of the rates of pain and the types of pain management strategies used by hospitalized trauma patients. Such knowledge will be helpful in providing basic information to healthcare providers to gain an understanding about pain and its management based on patients' preferences. Consequently, healthcare providers can provide pain management properly based on individual needs as they relate to the Indonesian context.

Method

This descriptive study analyzed hospitalized trauma patients in the surgical wards of Hasan Sadikin hospital, a teaching hospital in West Java, Indonesia. Eligible patients included those admitted to the wards in one day, had a Glasgow Coma Scale score of 15, were at least 18 years old, had sustained trauma to areas of the face, chest, abdomen, pelvis, musculoskeletal structure, or limbs, or had been burned, had no psychiatric disorder, and spoke Indonesian.

After the research ethics committee of the Faculty of Nursing and Hasan Sadikin hospital gave its approval, patients who agreed to participate in the study provided their informed consent. Then the first researcher collected data. On the first day, all patients were interviewed about personal information and asked to rate their pain on a numeric rating scale of the brief pain inventory (BPI).

The Indonesian version of the BPI was used to measure pain intensity. It included four items of pain and assessed pain over past one day: pain at its worst, pain at its least, pain on average, and pain right now. This version showed good reliability by Cronbach's alpha equal to .77. The BPI continued assesses the pain of patients on Day 2 and 3. On the third day, in addition to the assessment of the intensity of pain, patients were asked to complete the pain management questionnaire. This questionnaire was developed by the researcher based on a symptom-management model²¹ and literature review. It consisted of 11 options for pain. A blank space also provided that allowed patients to describe the strategies that may not have been among the options.

Data were statistically analyzed and described by the descriptive statistic. In addition, for the benefit of the analysis,

pain intensity was categorized as mild (BPI, 1-4), moderate (BPI, 5-6), and severe (BPI, 7-10)⁷.

Results

Characteristics of the hospitalized trauma patients

A total of 95 hospitalized trauma patients were enrolled in this pilot study. The average of age of the patients was 35.87 (SD = 11.05). Most patients were male (71.6%) and Islamic. Half of the patients had orthopedic injuries (52.6%). Most patients received nonsurgical treatments (88.4%) (Table 1).

Pain intensity of the hospitalized trauma patients

Overall, the pain intensity of hospitalized trauma patients during the first 3 days after admission was at a mild to moderate level. The average pain was 3.99 (SD = 1.18) on day 1, 3.63 (SD = 1.02) on day 2, and 3.22 (SD = .97) on day 3. Furthermore, the repeated measures ANOVA test revealed sta-

Table 1 Patients' characteristics (n = 95)

Characteristics	n (%)
Age (years) (Mean/SD)	(35.87/11.05)
<i>Gender</i>	
Male	68 (71.6)
Female	27 (28.4)
<i>Religion</i>	
Islam	81 (85.3)
Christian	14 (14.7)
<i>Medical diagnosis</i>	
Orthopedic injuries (i.e., fracture of clavicle, hand, leg)	50 (52.6)
Mild head injury	22 (23.2)
Burn injury (i.e., grades 2-3)	7 (7.4)
Musculoskeletal injury (i.e., strain)	1 (1.1)
Multiple injuries (e.g., head injury + leg fracture)	15 (15.7)
<i>Cause of injury</i>	
Traffic accident	65 (68.4)
Fall	17 (17.9)
Industrial accident	8 (8.4)
Other (i.e., home accident, assault, sports)	5 (5.3)
<i>Treatments*</i>	
Nonsurgical	84 (88.4)
Wound dressing	34 (35.8)
Splint board, sling	45 (48.4)
Skeletal, skin traction	8 (8.4)
Surgery (i.e., open reduction internal/external fixation)	11 (11.6)

*Patient received more than one treatment.

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