Analysis of Knowledge during Pain Relief Awareness Educational Sessions in the Framework of the Accreditation Process: Lessons Learned

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ABSTRACT

Background: Knowledge gaps in the health personnel can generate negative results in the detection, assessment and management for pain relief. This work puts them in evidence and shows how a health accreditation process can diagnose problems and generate plans for improvement. Objective: Analyze knowledge regarding pain relief in the health personnel during an accreditation process to achieve quality standards. Methods: An observational study was conducted with 358 surveys for the health personnel of a hospital, where the perception about the importance, follow-up and treatment for pain relief was evaluated. Results: In congruence with the literature, 61.9% of the participants perceived that there is an inadequate intrahospitalary pain treatment. When detected 55.3% of the times a behavior is taken to alleviate it. 22% think that opioids are only to be used by pain clinics, and 33% considered that all patients should be evaluated by pain clinics. Conclusion: Although pain relief is perceived as an important element, gaps in knowledge are diagnosed, and these are amenable for intervention to optimize care quality.

Keywords: pain management; accreditation; acute pain.

RESUMEN

Introducción: Los vacíos de conocimiento del personal de salud pueden generar resultados negativos en la detección, valoración y manejo integral para el alivio del dolor. Este trabajo los pone en evidencia y muestra cómo un proceso de acreditación en salud diagnostican problemas y genera planes de mejoramiento. Objetivo: Analizar los conocimientos respecto al alivio del dolor en el personal de salud durante un proceso de acreditación, para
lograr estándares de calidad. **Materiales y métodos:** Se realizó un estudio observacional con 358 encuestas al personal de salud de un hospital de alta complejidad, donde se evaluó la percepción sobre la importancia, seguimiento y tratamiento para el alivio del dolor. **Resultados:** En congruencia con la literatura mundial, el 61,9% de los participantes percibe que hay un inadecuado tratamiento del dolor intrahospitalario. Al detectarlo, el 55,3% de las veces se toma una conducta para aliviarlo. Un 22% piensa que los opioides solo deben ser usados por clínica de dolor, y el 33%, que todos los pacientes con dolor deberían ser evaluados por clínica de dolor. **Conclusión:** Aunque el alivio del dolor se percibe como un elemento importante, se diagnostican vacíos en el conocimiento que son susceptibles de intervención para optimizar la calidad de la atención.

**Palabras clave**

manejo del dolor; acreditación; dolor agudo.

**Introduction**

More than 70% of hospitalized patients do not receive enough treatment to relieve acute pain, and this has a strong impact on their quality of life and recovery (1,2). Pain relief should have a comprehensive approach that includes non-pharmacological and pharmacological treatment, assessment of the emotional impact, analysis of sociocultural context and comorbidities (3). However, due to the lack of the skills to perform this approach, pain relief activities are limited to interpreting it as “a simple sensory experience”, at best pigeonholed in non-individualized management guides that are not flexible or adapted to different scenarios (3).

Pain relief is considered to be a fundamental right and a duty on the part of health personnel (4). In 1996, during his speech as president of the American Pain Society, James Campbell (5) referred to pain as the fifth vital sign, in order to encourage health personnel to assess patients’ pain. Given the consequences of this initiative, which initially warned about the inadequate treatment of pain, and later led to indiscriminate use of opioids, a greater commitment, knowledge and monitoring of patients with pain is required to achieve a balanced treatment and avoid excessive administration of analgesic medications, and their side effects (6).

The Joint Commission on Accreditation of Healthcare Organizations, in the section about pain-relief standards, has created specific guidelines to manage it, in order to educate health personnel and provide institutional guidelines for the proper monitoring and treatment of acute pain (7). Opioid abuse is a current public health problem. This fact has made it necessary to modify these guidelines to maintain the balance between good pain control and an appropriate and rational use of opioids (8). In this way, a greater awareness of pain relief and responsible prescription of analgesics is sought (1,9).

This article describes the findings of the process of evaluating the basic knowledge of the health personnel of a tertiary hospital, the Hospital Universitario San Ignacio (HUSI), during the process of creating awareness on pain relief, in the framework of its accreditation process. Thus, we evaluated the need to educate and train health personnel in pain management, to achieve institutional quality standards. In March 2016, the Colombian Institute of Technical Standards and Certification awarded HUSI accreditation for its high-quality standards in its inpatient and outpatient components. This process took more than six years and required the institution to make administrative and care adjustment adaptations (10).

**Materials and methods**

Surveys were carried out of the hospital health personnel (doctors, nurses, nursing assistants and administrative staff) before a training activity on pain relief. All the participants were volunteers, and they read in advance the purpose and characteristics of the survey. The questionnaires were anonymous, to protect the participant’s identity and personal information, to avoid biases in the responses. Autonomy was fully respected, and they were allowed to withdraw from the survey whenever they wanted to, even if they had not completed the questionnaire. The present observational
study was done for academic purposes to generate percentages and statistical studies.

**Participant selection and description.** A convenience sampling was used without the intention of looking for a population with specific knowledge on the subject. Health professionals from different areas of HUSI with different levels of training were surveyed, in order to obtain a sample of what would be the interdisciplinary team in charge of pain relief.

**Technical information.** The information was collected through an 11-point self-administered survey. Of the 361 surveys conducted, 358 were analyzed and 3 were excluded, as they were incomplete by more than 50%.

In this questionnaire, different variables were evaluated and analyzed:

- Characterization of the respondents, based on their training level, age and time of service in the institution (HUSI).
- Perception of the importance, monitoring and management of pain relief in the institution.
- Pain relief monitoring and management performed by the respondent.
- Methodology and scales used to assess pain intensity at the institution.
- Measures that the respondent takes in managing patients with pain.
- Perception on the use of analgesics such as opioids.
- Analgesic administration route.
- Appropriateness of consultation to a pain clinic.

**Results**

A total of 358 surveys of 11 questions were completed by the HUSI healthcare staff. Regarding the relevance of in-hospital pain relief, 100% of respondents consider it extremely or very important (Figure 1). 61.9% of the respondents consider that there is insufficient pain control (Figure 2). 10.3% never ask or record patient’s pain in the electronic medical record; an additional 2.5% consider doing it only in postoperative patients, and 31% does it irregularly (Figure 3). When it comes to identifying moderate to severe pain, 55.3% take measures to relieve it (Figure 4). When assessing pain, 77.6% of respondents use a scale in order to objectify it (Figure 5). However, 44.2% do not know the tools of the electronic medical record to record it (Figure 6). 89.9% consider that the patient’s pain should be assessed every time the healthcare staff meets with him/her (Figure 7). In case of failure of the analgesic scheme, 93.5% consider that it would be appropriate to change it with a medical order (Figure 8). 45.2% consider that the best analgesic administration route is the oral route, and 46% consider that the best one is the intravenous route (Figure 9). Regarding the use of powerful opioids in hospitalized patients, 74% consider that they can be used routinely with a medical order, and 22.9% think that they should only be prescribed by a pain clinic (Figure 10). 75.9% of respondents believe that pain clinic should be consulted only when the analgesic scheme is ineffective; however, 33.8% would consult pain clinic for all patients, even before trying an analgesic scheme (Figure 11).

Figure 1

*How important is pain relief in the context of the overall treatment of a hospitalized patient?*
Figure 2
Do you consider that pain control of patients hospitalized in HUSI is adequate?

Figure 3
How often do you ask about pain and record the information in the medical record?

Figure 4
How often, when encountering a patient in pain, do you take measures to alleviate the pain?

Figure 5
What scale do you use to assess pain?

Figure 6
Does the Integrated Hospital Administration System (SAHI, by its Spanish acronym) have a tool to assess HUSI patients’ pain?

Figure 7
How often do you think the pain of hospitalized patients should be assessed?
Figure 8
If a patient is prescribed an analgesic scheme but continues to experience moderate to severe pain, what measures should be taken?

Figure 9
What is the best analgesic administration route for hospitalized patients with an oral route?

Figure 10
Regarding the use of potent opioids in hospitalized patients, you think that...

Discussion
Several authors have documented the lack of knowledge of health personnel regarding pain anatomy and physiology, the assessment and differences between acute and chronic pain, as well as pain control (11). The data highlights the importance and need for interdisciplinary education in pain relief, and although all participants consider it very important, more than half think that it is not adequately controlled. This phenomenon may be because the health personnel does not recognize or adequately manage pain relief (12). Gaps were found in the recording of information on pain by health personnel, as well as in the knowledge on the correct analgesic administration route, the scales available to assess pain and the right time to consult the pain clinic.

61.9% of the hospital patients with acute pain do not receive adequate treatment, a fact that is consistent with the literature on the subject (1). Effective and directed patient-doctor communication allows the patient to mention that he/she feels pain and to describe it in detail (12). However, almost a third of the surveyed population asks and records irregularly information on the patient’s pain. Although two-thirds of the respondents identify the need to record the level of pain in the electronic medical record, more than 40% do not know the main tools to do so, which implies little familiarity
with the scales available to objectify the painful symptom.

About half of the surveyed population considers that the best analgesic administration route is the intravenous route, although the findings on the subject show that the best route is oral, if available (13).

In view of the ignorance about pain approach and treatment, it is logical to consider resorting to the institutional pain clinic, so three-quarters of the surveyed population consider that it is necessary to consult the pain clinic when the analgesic scheme is ineffective (14). However, the remaining third requests for pain clinic support without having tried any analgesic scheme.

**Conclusion**

A comprehensive and multidisciplinary pain approach is a key element to evaluate the quality of a health service. The lack of skills of the health personnel in this regard is a significant limitation to achieve good results. Once the problem is detected, plans can be generated to improve training and ensure that the health personnel has the necessary skills, through virtual methods and workshops.

Including a pain relief program in the health services would empower the staff to provide good pain management and follow-up. This would improve the quality of care, reduce hospitalization costs, improve patient satisfaction, and would constitute a clear indicator of a high-quality service (15).

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