

# Massive open online courses with videos for palliative clinical field and intercultural and multilingual medical communication Ref. no.: 2014-1-RO01-KA203-002940

Programme: Erasmus+ Strategic Partnerships

### O3\_A2\_A\_Scientific Evidence

## PAIN ASSESSMENT - MEASURING PAIN IN CONSCIOUS ADULT PATIENTS USING THE VISUAL ANALOGUE SCALE

Q1	Is the Visual Analogue Scale reliable to measure current intensity of pain in adult patients?
Patients	Hospice and adult palliative care patients
Intervention	Using VAS-scale to measure intensity of pain or the effect of pain management
Comparator	Any other scale to measure intensity of pain or effects of pain management
Outcome	A measure for current intensity of pain
Methodology	Practice guidelines
	Systematic reviews
	Systematic reviews

#### Studies:

Seven descriptive studies One narrative review One cross sectional study Three clinical practice guideline

#### **Indications:**

- If patient indicates to have pain
- To monitor the effect of pain management

#### Discussion:

The Visual Analogue Scale (VAS) is a unidimensional measure of pain intensity, which has been widely used in diverse adult populations [1,9].

Reliability of the VAS for acute pain measurement appears to be high. Ninety percent of the pain ratings were reproducible within 9 mm. These data suggest that the VAS is sufficiently reliable to be used to assess acute pain [2]. The VAS provides a high degree of resolution and is probably the most sensitive single-item measure for clinical pain research [3].

For pain intensity, the scale is most commonly anchored by "no pain" (score of 0) and "pain as bad as it could be" or "worst imaginable pain" (score of 100 [100-mm scale]) [4-6]. To avoid clustering of scores around a preferred numeric value, numbers or verbal descriptors at intermediate points are not recommended [7,8].

#### Conclusions:

We endorse the current recommendations to use VAS as a tool to measure pain and to guide pain treatment. Moreover, VAS can be applied in various pathologies (oncology, emergency medicine, rheumatology etc.).

#### References:

- 1. McCormack HM, Horne DJ, Sheather S. Clinical applications of visual analogue scales: a critical review. Psychol Med 1988;18:1007–19
- 2. Bijur PE, Silver W, Gallagher J. Reliability of the Visual Analog Scale for Measurement of Acute Pain. Academic Emergency medicine, 2001;8(12):1153-57.





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- 3. Younger J, McCue R, Mackey S. Pain Outcomes: A Brief Review of Instruments and Techniques. Curr Pain Headache Rep. 2009 Feb; 13(1):39–43.
- 4. Jensen MP, Karoly P, Braver S. The measurement of clinical pain intensity: a comparison of six methods. Pain 1986;27:117–26.
- Burckhardt CS, Jones KD. Adult measures of pain: The McGill Pain Questionnaire (MPQ), Rheumatoid Arthritis Pain Scale (RAPS), Short Form McGill Pain Questionnaire (SF-MPQ), Verbal Descriptive Scale (VDS), Visual Analog Scale (VAS), and West Haven-Yale Multidisciplinary Pain Inventory (WHYMPI). Arthritis Rheum, 2003;49:S96 –104.
- 6. Ferraz MB, Quaresma MR, Aquino LR, Atra E, Tugwell P, Goldsmith CH. Reliability of pain scales in the assessment of literate and illiterate patients with rheumatoid arthritis. J Rheumatol 1990;17:1022–4
- 7. Huskisson EC, Wojtulewski JA, Berry H, Scott J, Hart FD, Balme HW. Treatment of rheumatoid arthritis with fenoprofen: comparison with aspirin. Br Med J 1974;1:176 80
- 8. Scott J, Huskisson EC. Graphic representation of pain. Pain, 1976;2:175–84.
- 9. Registered Nurses Association of Ontario (2002). Assessment and Management of Pain. Toronto, Canada: Registered Nurses Association of Ontario.
- 10. Ferreira-Valente, M. A., et al. (2011). "Validity of four pain intensity rating scales." <u>Pain</u> 152(10): 2399-2404.
- 11. NCCN Guidelines Version 2.2016 Adult Cancer Pain (2016); National Comprehensive Cancer Network
- 12. Ripamonti, C. I., et al. (2012). "Management of cancer pain: ESMO Clinical Practice Guidelines." Annals of Oncology 23 Suppl 7: vii139-154.