

## **Douleur Enfant Gustave-Roussy (DEGR) of Gauvain-Piquard et al for Pain in Children from 2 to 6 Years of Age**

Overview: Gauvain-Piquard et al developed a pain scale for children 2-6 years of age. The authors are from Institut Gustave-Roussy in France.

NOTE: The instrument may be registered in France (in Gauvain-Piquard 1991 it is listed as DEGRR).

Patient selection: children 2 to 6 years of age. The original study was done in children with cancer.

Scale items:

- (1) nervousness anxiety
- (2) antalgic rest position
- (3) ability to protest
- (4) spontaneous protection of painful areas
- (5) child retires into "shell"
- (6) somatic complaints
- (7) lack of expressiveness
- (8) child points to the painful areas
- (9) moodiness irritability
- (10) antalgic behavior during movement
- (11) lack of interest in surroundings
- (12) control exerted by the child when moved
- (13) slowness and rarity of movements
- (14) emotional reactions to medical examinations of painful regions
- (15) signs of regression
- (16) social withdrawal
- (17) tendency to cry

Pain: items 2 4 6 8 10

Anxiety: items 1 9 12 14 17

Depression/psychomotor atonia: 5 7 11 13 15 16

where:

- The results for item 3 were found inconstant and irrelevant and so were not included in the score.

- Antalgic = analgesic in the dictionary; I am not quite sure what "antalgic behavior" indicates.

Finding	Points
none	0
mild	1
moderate	2
severe	3
extreme	4

total score = SUM(points for the 16 counted items)

Interpretations:

- minimum score: 0
- maximum total score: 64
- maximum pain subscore: 20
- maximum anxiety subscore: 20
- maximum depression/psychomotor subscore: 24

Variations: Shorter subsets with 15 and 10 items have been used (Gauvain-Piquard et al 1991)

References:

Gauvain-Piquard A Rodary C et al. Pain in children 2-6 years: A new observational rating scale elaborated in a pediatric oncology unit – preliminary report. *Pain*. 1987; 31: 177-188.

Gauvain-Piquard A Rodary C et al. Validity assessment of DEGRR scale for observational rating of 2-6-Year-old child pain. *Journal of Pain and Symptom Management*. 1991; 6: 171.

McGrath PJ. Chapter 6: Behavioral measures of pain. pages 83-102 (Table VI page 93). IN: Finley GA McGrath PJ (editors). *Measurement of Pain in Infants and Children*. Progress in Pain Research and Management. Volume 10. IASP Press. 1998.