

# Illinois EMS for Children Quality Improvement and Indicator Monitoring Report

Title of Project: **Pediatric Pain Management**  
 Date of Report: October 14, 2002  
 EMSC Region: Region 4  
 Facility: All Participating Facilities in the Regional CQI Effort

## 1. Opportunity / Problem Identification /Desired Outcome (PLAN)

- Opportunity: Pediatric pain management in the ED
- Problem: Inadequate assessment (86%), interventions (68%), and reassessment (52%)
- Desired Outcome: 100% assessment, 100% interventions, and 100% reassessment

## 2. Most Likely Causes

- Guidelines not adhered to
- Inadequate documentation of assessments, interventions, and reassessments

## 3. Solution(s) Implemented (DO)

- Multidisciplinary education
- Form revisions
- Communication of efforts to physicians & nurses

## 4. Specific Data Elements Collected for Evaluation

- Patient age
- Initial assessment documented
- Intervention documented
- Reassessment documented
- Each hospital evaluates 27 charts per quarter covering
  - Otitis Media (9)
  - Abdominal Pain (9)
  - Sprains/Fractures (9)

## 5. Results and Data Analysis (STUDY)

- Assessment: 9% improvement
- Interventions: 14% improvement
- Reassessment: 20% improvement

## 6. Conclusions and Recommendations (ACT)

- Conclusion: The emergency departments in Illinois EMSC Region 4 have demonstrated progress toward meeting the JCAHO standard of 100% assessment, intervention, and reassessment of children presenting pain. This improvement is attributed to a number of specific efforts to promote education, communication, and develop 'user-friendly' forms to facilitate documentation.
- Recommendations: Continue on-going efforts to increase awareness of pediatric pain management. Analyze data specific to disease/injury to identify barriers to pain interventions. Consider supporting the need for interventions with current evidence based literature. Include interventions employed prior to arrival (i.e.; acetaminophen given at home for otitis) in ED as interventions in data collection and reassess appropriately. On-going data analysis quarterly.

Region 4 EMSC CQI - Pain Management Indicator Regional Totals

1st Quarter 2001 - 2nd Quarter 2002

Note: Error bars represent 95% confidence intervals.

