

# Illinois EMS for Children Quality Improvement and Indicator Monitoring Report

Title of Project: **Pediatric Pain Management**  
 Date of Report: November 2, 2005  
 EMSC Region: Region 1  
 Facility: All Participating Facilities in the Regional CQI Effort

## 1. Opportunity / Issue / Problem Identification (PLAN)

- Opportunity: Pediatric pain management in the ED
- Problem: Less than optimal initial assessment using a scale (69%), intervention (71%), and discharge assessment (58%)
- Goals: 100% assessment using a scale, intervention, and discharge assessment

## 2. Most Likely Causes

- Lack of staff awareness
- Lack of physician involvement/interest
- Lack of staff following guidelines

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

- Inservice training implemented
- Reminder materials provided
- Full ED staff involvement in quality assurance
- Age-appropriate pain scales provided
- Medical record forms updated to include specific pain assessment field

## 4. Data Elements Collected for Evaluation

- Age and diagnosis
- Initial assessment documented
- Interventions documented
- Reassessment documented
- Use of pain scales documented
- Each hospital evaluated 30 charts per quarter of patients age 0-15 with fracture, laceration, or otitis media (10 charts for each diagnosis)

## 5. Results and Data Analysis (STUDY)

- Initial Assessment using scale: **22% improvement**
- Interventions: **10% improvement**
- Assessment at Discharge: **27% improvement**

## 6. Conclusions and Recommendations (ACT)

- Conclusion: The emergency departments in Illinois EMSC Region 1 have shown progress toward meeting the goals of 100% initial assessment, intervention, and discharge assessment for children presenting in the ED with with fracture, laceration, or otitis media. This improvement follows specific educational efforts.
- Recommendations: Continue on-going efforts to maintain and promote awareness of pediatric pain management. Attempt to further identify barriers to assessments and interventions.

**Region 1 EMSC CQI – Pain Management Indicator**  
**Regional Totals for 2003-2004**

Note: Error bars represent 95% confidence intervals.

