

# Illinois EMS for Children Quality Improvement and Indicator Monitoring Report

Title of Project: **Pediatric Pain Management**  
 Date of Report: August 11, 2005  
 EMSC Region: Region 11  
 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 intervention including pharmaceutical interventions (55%), reassessment prior to discharge (50%), and decrease in pain (38%)
- Goals: intervention, reassessment, and decrease in pain

## 2. Most Likely Causes

- Lack of staff awareness
- Lack of staff following guidelines
- Understaffing issues

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

- MD & RN Educational presentations
- Inservice training
- Reminder materials
- Development of standing orders/forms
- Development of hospital – wide pain management policy

## 4. Data Elements Collected for Evaluation

- Diagnosis
- Initial assessment documented
- Interventions and times documented
- Reassessment documented
- Use of pain scales documented
- Decrease in pain documented
- Each hospital evaluates 30 charts per quarter of patients age 0-15 presenting with orthopedic injury

## 5. Results and Data Analysis (STUDY)

- Pharmacological Intervention: 11% improvement
- Reassessment Prior to Discharge: 18% improvement
- Decrease in Pain: 23% improvement

## 6. Conclusions and Recommendations (ACT)

- Conclusion: The EDs in Illinois EMSC Region 11 have shown progress toward meeting the goal of improving at least 10% in areas including: pharmacological intervention, reassessment prior to discharge, and decrease in pain for children in the ED with orthopedic injury. 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 11 EMSC CQI – Pain Management Indicator**  
**Regional Totals for 2003-2004**

Note: Error bars represent 95% confidence intervals.

