Febrile infants in the first 90 days may have life-threatening serious bacterial infection. Well-appearing febrile infants with serious bacterial infections cannot be distinguished from those without by examination alone. Variation in care resulting in both undertreatment and overtreatment is common.

**WHAT THIS STUDY ADDS:** The systemwide implementation of an evidence-based care process model for the care of febrile infants in Intermountain Healthcare was associated with increased delivery of evidence-based care, improved infant outcomes, and lower costs. This model adopted nationally can improve value.

**OBJECTIVE:** Febrile infants in the first 90 days may have life-threatening serious bacterial infection (SBI). Well-appearing febrile infants with SBI cannot be distinguished from those without by examination alone. Variation in care resulting in both undertreatment and overtreatment is common.

**METHODS:** We developed and implemented an evidence-based care process model (EB-CPM) for the management of well-appearing febrile infants in the Intermountain Healthcare System. We report an observational study describing changes in (1) care delivery, (2) outcomes of febrile infants, and (3) costs before and after implementation of the EB-CPM in a children’s hospital and in regional medical centers.

**RESULTS:** From 2004 through 2009, 8044 infants had 8431 febrile episodes, resulting in medical evaluation. After implementation of the EB-CPM in 2008, infants in all facilities were more likely to receive evidence-based care including appropriate diagnostic testing, determination of risk for SBI, antibiotic selection, decreased antibiotic duration, and shorter hospital stays (P < .001 for all). In addition, more infants had a definitive diagnosis of urinary tract infection or viral illness (P < .001 for both). Infant outcomes improved with more admitted infants positive for SBI (P = .011), and infants at low risk for SBI were more often managed without antibiotics (P < .001). Although hospital admissions were shortened by 27%, there were no cases of missed SBI. Health Care costs were also reduced, with the mean cost per admitted infant decreasing from $7178 in 2007 to $5979 in 2009 (~17%, P < .001).

**CONCLUSIONS:** The EB-CPM increased evidence-based care in all facilities. Infant outcomes improved and costs were reduced, substantially improving value. *Pediatrics* 2012;130:e16–e24

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**KEY WORDS** fever, infant, outcomes, cost

**ABBREVIATIONS**

- CBC—complete blood count
- EB-CPM—evidence-based care process model
- ED—emergency department
- EDW—enterprise data warehouse
- IPCP—Intermountain Pediatric Clinical Program
- LOS—length of stay
- POMC—Primary Children’s Medical Center
- RMC—regional medical center
- SBI—serious bacterial infection
- UTI—urinary tract infection

All authors are responsible for the research within the article and have participated in the concept and design, acquisition of data, and analysis and interpretation of data of the manuscript. Dr Byington, Ms Reynolds, and Drs Nelson, Sheng, Osguthorpe, Pavia, Clark were responsible for drafting the article or revising it critically for important intellectual content. All authors provided final approval of the version to be published. www.pediatrics.org/cgi/doi/10.1542/peds.2012-0127 doi:10.1542/peds.2012-0127

Accepted for publication Mar 22, 2012

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**FINANCIAL DISCLOSURE:** The authors have indicated they have no financial relationships relevant to this article to disclose.

**FUNDING:** This work was supported in part by a Public Health Services research grant UL1RR025764 from the National Center for Research Resources (CLB, XS, and LS), the National Institutes of Health/Eunice Kennedy Shriver National Institute of Child Health and Human Development grant K24HD047248 (CLB, XS, and KK), the Agency for Health Research and Quality grant AHRQ R18HS018034 (CLB, XS, KK, REN, and LS), the National Institutes of Health/National Cancer Institute grant KM1CA156723 (CLB, REN), and the HA and Edna Benning Presidential Endowment (CLB).

**COMPANION PAPER:** A companion to this article can be found on page e198, online at www.pediatrics.org/cgi/doi/10.1542/peds.2012-1178.
Evaluation of fever in infants aged 1 to 90 days is common, yet there are no national guidelines addressing management. Approximately 10% will have serious bacterial infection (SBI), which can be life threatening. However, the majority of infants have viral infections, and infants with laboratory and clinically confirmed viral infections are less likely to have SBI. Independent recommendations for care of the febrile infant published in 1993 and revised in 2000 did not address viral infections. Compliance with these recommendations is limited, and variation in care is substantial.

In the Intermountain Healthcare system, we noted variation in care delivered at regional medical centers (RMCs) compared with Primary Children’s Medical Center (PCMC, Salt Lake City, UT), a tertiary children’s hospital. For example, in 2004, the proportion of febrile infants who had urinalysis ranged from 19% in 1 RMC to 70% at PCMC, although urinary tract infection (UTI) is the most common SBI in febrile infants.

The Intermountain Pediatric Clinical Program (IPCP) undertook a quality improvement initiative to address care of febrile infants. The IPCP has administrative, laboratory, nursing, and physician representatives from all Intermountain Healthcare regions and includes pediatricians from the University of Utah. The IPCP used Six Sigma methodology (Table 1) to develop an evidence-based care process model (EB-CPM) for febrile infants. CPMs are designed to decrease variation, improve quality, and support local preferences.

The EB-CPM for febrile infants incorporated evidence derived from local institutions and others. We defined 6 quality measures by consensus of representatives serving on the IPCP and their constituents. Quality measures targeted laboratory testing, SBI risk determination, antibiotic selection, hospital admission, and discharge. After in-person and web-based training, education, and feedback with clinical personnel at PCMC and 3 RMCs during 2007, the EB-CPM was implemented at all Intermountain Healthcare facilities on January 1, 2008. Web-accessible tools including algorithms, orders, antibiotic recommendations, and references were available at the points of care in all facilities. All facilities received monthly performance feedback from the IPCP. The objectives of this article are to describe the changes in (1) care delivery, (2) outcomes of febrile infants, and (3) costs before and after the implementation of the EB-CPM.

**METHODS**

**Protection of Human Subjects**

The Institutional Review Boards of Intermountain Healthcare and the University of Utah approved this study. Informed consent was waived. Provider use of the EB-CPM was voluntary.

**Setting**

This observational study was performed at Intermountain Healthcare,
a not-for-profit, integrated health care system that provides care for ~85% of Utah children and a higher proportion of infants. The 21 Intermountain Healthcare hospitals include PCMC and 3 RMCs located in Ogden, Provo, and St George, Utah. The RMCs and PCMC provide care for most febrile infants and were designated target facilities. Mid-level providers and resident and attending physicians practicing family medicine, pediatrics, and adult and pediatric emergency medicine staff target facilities. All facilities had the same viral diagnostic technology and electronic record system throughout the study.

**Identification of Febrile Infants**

Febrile infants were identified from the Intermountain enterprise data warehouse (EDW). The EDW contains clinical, laboratory, and administrative data for all facilities. We developed a definition for febrile infants based on age, reason for visit, admitting diagnosis, *International Classification of Diseases, Ninth Revision*, and All Patient Refined Diagnosis Related Groups (APR-DRGs) coding and validated it against a prospectively collected sample.1 The definition has a sensitivity and specificity of 93% and 90%, respectively.43 SBI was identified through the EDW and was defined as culture-confirmed bacteremia, meningitis, or UTI. UTI was defined as ≥50 000 colony forming units/mL of a single pathogen.44 An infant with missed SBI was defined as having SBI and treatment either only in the emergency department (ED) or hospital admission within 5 days of ED discharge.

**EB-CPM Recommendations**

The full EB-CPM for outpatients and inpatients is available in the Supplemental Information. The EB-CPM is for well-appearing febrile infants aged 1 to 90 days. Separate CPMs are available for early-onset neonatal sepsis in the nursery45 and for infants and children with findings consistent with sepsis or septic shock.46 Providers determine well appearance and whether use of a CPM is appropriate.

The febrile infant EB-CPM includes a history and physical examination and recommends obtaining a complete blood count (CBC) and urinalysis for all infants. Infants are classified as high-risk for SBI using a modification of the Rochester criteria.31,47 A recent review demonstrated the Rochester criteria and Philadelphia criteria have similar diagnostic accuracy in predicting SBI, and the Rochester criteria were more accurate in neonates.48 High-risk infants are those aged ≤28 days or with history of preterm birth (<37 weeks), chronic medical conditions, abnormal CBC (<5000 or >15 000 white blood cells per mm³) or urinalysis results (>10 white blood cells/high power field).47 The electronic record and orders capture risk designation.

Management without antibiotics is recommended for infants not identified as high risk and thus considered low risk for SBI. The EB-CPM, consistent with other expert guidance,6,7 recommends admission and antibiotic treatment of high-risk infants. Viral diagnostic testing is recommended for all admitted infants, including testing for enteroviruses by polymerase chain reaction between June and November or if cerebral spinal fluid pleocytosis18 is present and testing for respiratory viruses by direct fluorescent assay or polymerase chain reaction year-round. Antibiotic recommendations reflect the epidemiology and resistance of SBI pathogens at Intermountain Healthcare.

For admitted infants, duration of antibiotic therapy and length of stay (LOS) are based on results of bacterial and viral diagnostic testing at 24 hours. Admitted culture-negative infants at high risk for SBI and who test positive for a viral pathogen or who are at low-risk for SBI are eligible for discontinuation of antibiotics and discharge at 24 hours. All other culture-negative infants are eligible for the same at 36 hours. Given the distance between RMCs and the central laboratory (Salt Lake City, UT), we allowed 6 hours for specimen transport and measured the proportion of infants discharged within 42 hours of specimen collection.

**Statistical Analysis**

We identified 6 quality measures and 4 balancing measures to assess unintended consequences of EB-CPM implementation. We compared performance on these measures at the target facilities during baseline (July 1, 2004–December 31, 2007) and implementation (January 1, 2008–December 31, 2009) by using general linear models for continuous measures (with log transformations when the data had a skewed distribution) and logistic regression models for binary outcomes. A temporal analysis for performance changes during the baseline period was performed and did not yield significant year-to-year differences in individual facilities or the system.

Cost data were derived from the Intermountain Healthcare cost-accounting program, an activity-based microcosting system that identifies and aggregates the variable and fixed-cost components of hospital services and products according to the date of service.15 Because of the nonnormality of cost data, we used the Wilcoxon-Mann-Whitney test to compare the mean cost per infant during the 2 periods. Costs were adjusted for inflation to 2009 dollars.

**RESULTS**

**Participants**

There were 8044 infants with 8431 febrile episodes resulting in evaluation at Intermountain Healthcare facilities (Table 2); 6991 (83%) occurred in target facilities. Infants at evaluation had a mean age of 45 days; 54% were boys, and 62% were white, 26% Latino, 2% African American, 2% Pacific Islander, 1%...
Asian, 1% Native American, and 6% unknown. In 3781 (45%) episodes, infants were classified as high risk for SBI.

Of all febrile episodes, 735 of 8431 (9%) had culture-confirmed SBI. Among infants with bacterial cultures of blood, urine, or cerebrospinal fluid (n = 6563), 735 (12%) had SBI. Infants were more likely to be diagnosed with SBI during the implementation period because of an increase in the diagnosis of UTI (+29%, P < .001). Infants were also more likely to have blood (73% vs 79%) and urine cultures (74% vs 79%) after implementation (P < .001 for both). Infants were more likely to have viral testing during the implementation period (Table 3). By 2009, almost all admitted infants had CBC (93%) and urinalysis (99%), and there was little variation between facilities. Infants were more likely to have blood (73% vs 79%) and urine cultures (74% vs 79%) after implementation (P < .001 for both). Infants were also more likely to have viral testing during the implementation period and the proportion of admitted infants diagnosed with an enterovirus or respiratory virus increased from 25% to 36% (+40%, P < .001).

**Admission of Infants With SBI at Initial Evaluation**

Admission of infants subsequently proven to have SBI was associated with increased laboratory evaluation during the implementation period. The proportion of infants with SBI who were admitted at the initial evaluation increased from 88% to 91% and those with bacteremia or meningitis increased from 91% to 99%. Of the 28 infants with SBI discharged from the ED during the implementation period, 27 had UTI and received antibiotic treatment as outpatients. There were no missed cases of meningitis during the implementation period. This compares with the preimplementation period when there were 68 infants subsequently identified with SBI discharged from the ED including 8 with bacteremia and 3 with meningitis.

**Antibiotic Selection and Treatment**

Febrile infants in target facilities received antibiotic therapy in 4229 of 6991 (61%) of episodes. Infants classified as high risk for SBI were more likely to receive antibiotics than those classified

### TABLE 2 Characteristics of Febrile Infant Episodes Across All Intermountain Healthcare Facilities

<table>
<thead>
<tr>
<th>Variable</th>
<th>Base and Training, n = 5444* (%)</th>
<th>Implementation, n = 2987* (%)</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Episode at Target Facility</td>
<td>4524 (83)</td>
<td>2467 (83)</td>
<td>.600</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤28 d</td>
<td>1617 (30)</td>
<td>787 (26)</td>
<td>.001</td>
</tr>
<tr>
<td>29–80 d</td>
<td>3827 (70)</td>
<td>2200 (74)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Inpatient admission</td>
<td>2516 (48)</td>
<td>1424 (48)</td>
<td>.200</td>
</tr>
<tr>
<td>Observation unit admission</td>
<td>372 (7)</td>
<td>284 (10)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Any admission</td>
<td>2888 (53)</td>
<td>1708 (57)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Infants with any SBIb</td>
<td>440 (8)</td>
<td>295 (10)</td>
<td>.006</td>
</tr>
<tr>
<td>UTI</td>
<td>360 (7)</td>
<td>257 (9)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Bacteremia</td>
<td>112 (2)</td>
<td>60 (2)</td>
<td>.328</td>
</tr>
<tr>
<td>Meningitis</td>
<td>16 (0.3)</td>
<td>7 (0.2)</td>
<td>.670</td>
</tr>
<tr>
<td>Infants with SBI admitted at first encounter</td>
<td>378/440 (86)</td>
<td>267/295 (91)</td>
<td>.070</td>
</tr>
<tr>
<td>Infants with bacteremia or meningitis admitted at first encounter</td>
<td>117/128 (91)</td>
<td>66/67 (99)</td>
<td>.060</td>
</tr>
<tr>
<td>Death</td>
<td>2 (0.04)</td>
<td>1 (0.03)</td>
<td>1.000</td>
</tr>
</tbody>
</table>

* a Unless otherwise denoted. b Infants may have ≥1 type of SBI.

### TABLE 3 Comparison of Key Quality and Balancing Measures for the EB-CPM in Target Facilities

<table>
<thead>
<tr>
<th>Quality measure</th>
<th>Target Facilities Base and Training Periods, N = 4524,* n (%)</th>
<th>Target Facilities Implementation Period, N = 2987,* n(%)</th>
<th>Absolute Difference in Propositions (95% CI, P value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obtain both CBC and urinalysis</td>
<td>3040 (67)</td>
<td>1975 (80)</td>
<td>13% (11% to 15%, &lt;.001)</td>
</tr>
<tr>
<td>Determine risk status for SBI</td>
<td>3057 (68)</td>
<td>1836 (74)</td>
<td>7% (5% to 9%, &lt;.001)</td>
</tr>
<tr>
<td>Perform viral testing for admitted infants</td>
<td>1992/2620 (76)</td>
<td>1296/1540 (84)</td>
<td>8% (6% to 11%, &lt;.001)</td>
</tr>
<tr>
<td>Administer only formulary antibiotic therapy for admitted infants receiving antibiotics</td>
<td>1167/1511 (77)</td>
<td>826/901 (92)</td>
<td>15% (12% to 17%, &lt;.001)</td>
</tr>
<tr>
<td>Discontinue antibiotics within 36 h for infants with negative bacterial cultures</td>
<td>547/1172 (47)</td>
<td>415/658 (63)</td>
<td>16% (12% to 21%, &lt;.001)</td>
</tr>
<tr>
<td>Discharge eligible infants by 42 h</td>
<td>682/1418 (48)</td>
<td>586/777 (75)</td>
<td>27% (23% to 31%, &lt;.001)</td>
</tr>
<tr>
<td>Lumbar Puncture</td>
<td>2281 (50)</td>
<td>1281 (52)</td>
<td>2% (−0.5% to 4.4%, .120)</td>
</tr>
<tr>
<td>Infants admitted within 72 h post ED discharge</td>
<td>92/1967 (5)</td>
<td>459/2265 (9)</td>
<td>0.02% (−1.7% to 1.7%, 1.000)</td>
</tr>
<tr>
<td>Readmission within 72 h after discharge inpatient or observation unit</td>
<td>21/2620 (0.8)</td>
<td>10/1540 (0.7)</td>
<td>−0.2% (−0.7% to 0.4%, 710)</td>
</tr>
</tbody>
</table>

* CI, confidence interval; NA, not applicable. a Unless otherwise denoted.
as low risk (85% vs 63% \( P < .001 \)). Infants classified as low risk were less likely to receive antibiotics in the inpatient (91% vs 85%, −7%, \( P = .005 \)) or outpatient setting 43% vs 34%, −26%, \( P = .002 \) after implementation.

The recommended antibiotics are ampicillin, gentamicin, cefotaxime, and ceftriaxone. Infants admitted after the introduction of the EB-CPM were more likely to receive only recommended antibiotics (77% vs 92%, +15%) and to have antibiotics discontinued by 36 hours (47% vs 63%, +16%, \( P < .001 \) for both). In 94% of all episodes of SBI and 99% of meningitis episodes, the recommended antibiotics were active against the recovered pathogens.

Hospital Length of Stay

The mean hospital LOS for infants without SBI decreased from 60 to 44 hours after implementation (−27%, \( P < .001 \)), resulting in 1644 fewer hospital days. The LOS at PCMC was increasing 2.4% annually in 2004–2008 (Fig 1). After implementation, there was a 12.0% decrease in LOS in 2009 compared with 2008 (\( P = .001 \)). The LOS in all RMCs decreased significantly, and all target facilities achieved a common baseline for LOS by 2009 (Fig 1).

Balancing Measures and Cost

The performance of lumbar puncture remained stable, and there were no cases of missed meningitis after implementation. Although LOS was significantly decreased, there was no increase in readmissions and no readmissions with SBI after hospital discharge.

In our cohort, 91% of the costs for febrile infants occurred in the inpatient setting. Thus, although mean laboratory costs in the ED increased at PCMC ($153 vs $184, \( P < .001 \)) and in the RMCs ($44 vs $69, \( P < .001 \)), these costs were more than offset by the decreased costs for admitted infants. After implementation, the mean cost per admitted infant fell from $7178 in 2007 to $5979 in 2009 (−17%, \( P < .001 \)). Implementation was associated with reduced inpatient costs in all RMCs ($8037 vs $6206, −23%, \( P < .001 \)). At PCMC, baseline inpatient costs were lower than at the RMCs (−$1914 in 2007) but were increasing at a faster annual rate ($233 vs −$366). After implementation of the EB-CPM, the mean inpatient cost per infant at PCMC declined 11.6% (\( P < .001 \)). Variation in the LOS and costs between the RMCs and PCMC were virtually eliminated by 2009.
The mean cost per admitted infant was lower in 2009 than in 2004 (Fig 2). Savings were realized through decreased LOS and reductions in antibiotic prescribing and ancillary testing not recommended by the EB-CPM. Using a model based on a rate of inflation equal to the CPI, costs in 2009 were predicted to be 18% greater than in 2004. In contrast, our data demonstrated that costs in 2009 were 3% lower than in 2004 (Fig 2). In 2009, the cost per admitted infant was $1270 less than predicted resulting in an estimated savings of ~$1.9 million.

DISCUSSION

We report the successful implementation of an EB-CPM for the care of febrile infants. Implementation was associated with an increase in evidence-based care delivered by a diverse group of providers at a children’s hospital and in community RMCs. Following implementation, there was a slight increase in the admission rate of febrile infants, an increased documentation of UTIs and viral infections, a higher percentage of patients with SBI who were admitted after UTI detection, a decreased length of stay, a more appropriate use of recommended antibiotics, and a similar rate (with trends toward improvement) in admission of patients with meningitis and bacteremia compared with the preimplementation period. Implementation was also associated with a considerable reduction in costs. Although the infrastructure and resources devoted to quality improvement in Intermountain Healthcare may not be available in all settings, the creation of facility-specific care process models with internal process control and performance evaluation is a flexible tool that can be adapted by other health care systems to improve care and outcomes while reducing costs.49

The care of the febrile infant is controversial, and there are variations in care associated with site of care and type of provider.6–11,50–54 Strategies for classification of infants at risk for SBI, admission of high-risk infants, and treatment of low-risk infants as outpatients have been extensively evaluated and discussed.7,24,36,57,59 Variation in practice continues, perhaps because of the lack of an accepted guideline and the absence of research comparing different care processes to determine if any are associated with better outcomes or lower costs.

The EB-CPM was created to define best practices for Intermountain Healthcare and to create a common process for delivering quality care across many hospitals. Intermountain hospitals, although widely separated geographically and using different provider staffing models, are all committed to quality improvement, have representation through the IPCP, and share common laboratory and electronic medical record resources.16 These elements were vital to the development and dissemination of the EB-CPM.

Implementation of the EB-CPM resulted in increased evidence-based care delivery as measured by 6 indicators. The investigators worked with target facilities to ensure that the indicators were relevant to the medical providers and that processes were in place to support delivering recommended care without interrupting workflow. The increase in delivery of evidence-based care demonstrates the value of providing decision support at the point-of-care to guide clinicians. Parents of febrile infants anywhere in Utah can now be assured that their infant will receive high-quality care anywhere in the Intermountain Healthcare system, whether evaluated in RMCs by nonpediatric providers or at PCMC by pediatricians and pediatric subspecialists.

Increased evidence-based care was associated with improved infant outcomes. On the basis of studies demonstrating the low rate of SBI among infants with viral infection1,5–51 and data demonstrating that the majority (~85%) of all positive blood cultures in this population are detected within 24 hours,33,38 the EB-CPM recommends discharge for admitted infants with positive viral testing and negative bacterial cultures at 24 hours. Diagnoses of viral illnesses increased by 40% after implementation resulting in opportunities for earlier discharge and discontinuation of antibiotics for many infants.

Implementation of the EB-CPM improved recognition and treatment of SBI. The increasing proportion of admitted febrile infants with SBI in the postimplementation period supports the use of screening criteria to identify well-appearing infants.
at high-risk for SBI. The increase in urinalysis testing identified infants with UTI who may have been missed before implementation. Bacteremia and meningitis are rare but potentially life-threatening occurrences. After implementation, 99% of infants with bacteremia or meningitis were admitted at the initial evaluation compared with 91% before implementation. Although this difference did not reach statistical significance, the value of early recognition and treatment of bacteremia and meningitis in nearly all infected infants cannot be discounted. Finally, the EB-CPM improved antibiotic treatment decisions with infants benefitting from the selection of antibiotics appropriate for SBI pathogens and reductions in antibiotic use in low-risk and culture-negative infants. We detected no adverse consequences after implementation of the EB-CPM. The performance of lumbar puncture, considered invasive by many parents and clinicians, did not increase, and yet there were no cases of missed meningitis. There was a modest increase in the proportion of infants admitted because of an increase in admissions of <24 hours in observation units, and 75% of all admitted infants were discharged from the hospital by 42 hours. Although the mean hospital LOS was 16 hours shorter than before implementation, the readmission rate was stable at <0.5%, and there were no cases of missed SBI after hospital discharge. The implementation of the EB-CPM reduced costs and increased the value of the health care delivered. Variations in care can unnecessarily increase cost through overtreatment, including excess testing, inappropriate antibiotic use, or prolonged LOS, and through undertreatment, resulting in delayed recognition and treatment of SBI. By 2009, the target facilities had similar LOS and costs, indicating adoption of similar process for the evaluation and management of febrile infants. Infants and families benefitted from improved health outcomes, shorter hospital stays, and lower cost. Savings for the hospital system were realized through lower direct care costs, improvements in care that may reduce medical liability, and reduction in hospital days, which can delay the need for new bed construction and reduce long-term capital outlay.

This study has several strengths and limitations. Strengths include the size of the febrile infant cohort, the largest ever reported. The results are also strengthened by the quality of the shared EDW, which allowed us to evaluate outcomes across the system including readmissions and missed SBI. The study is limited to a single health care system; however, we examined multiple hospital facilities with different characteristics, suggesting that an EB-CPM could be successfully implemented in other settings. Documentation of training was not required for providers. Since 2009, pediatricians have been able to use the EB-CPM for maintenance of certification (MOC). Evaluation of performance of trained providers using the EB-CPM for maintenance of certification compared with all providers is ongoing. The observation period after implementation was only 2 years; however, we continue to monitor the quality measures monthly through the IPCP and have seen either maintenance or additional improvement in all measures through 2011. For example, in 2011, 90% of admitted infants with negative bacterial cultures were discharged by 42 hours compared with 75% in 2008–2009. The changes observed may have been due to factors other than the introduction of the EB-CPM. However, there were no significant changes in the environment such as availability of diagnostic testing or new external guidelines over the entire study period. Furthermore, the fact that there were no significant changes observed during the 4-year baseline period and the sustained monthly improvements in the 6 quality measures that occurred in all facilities after the implementation of the EB-CPM makes this unlikely. Finally, there were likely unmeasured sources of variation that may have resulted in failure to achieve universal compliance with the EB-CPM. We seek to identify and address these factors through our monthly IPCP meetings and update the EB-CPM and available support as new data become available.

CONCLUSIONS

The introduction of an EB-CPM changed the culture of caring for febrile infants across a large health care system. Variation in care was substantially reduced. Infant outcomes were exceptional, and significant savings were realized. The EB-CPM for febrile infants is an example of value-driven health care that addresses a common problem and can be used to inform guidelines disseminated nationally.

ACKNOWLEDGMENTS

We thank Drs Mandy Allison, Anne Blaschke, Chuck Norlin, and Paul C. Young for their careful review of the manuscript and for their support of this research.

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Pediatrics; originally published online June 25, 2012;
DOI: 10.1542/peds.2012-0127

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