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Optimizing Antibiotic Management of Pediatric Acute Otitis Media in an Emergency Department

Alicia Daggett, MD, MPH; Alaina Burns, PharmD, BCPPS; Brian R. Lee, MPH, PhD; Nirav J. Shastri, MD; Patricia Phillips APRN, CPNP; Rana E. El Feghaly, MD, MSCI

Children's Mercy Hospital Kansas, Overland Park, KS **PDSA Cvcles Background and Aim Results and Analysis** Background: Based on our chart review, 34% of the 361 patients with AOM could have PDSA Cycle 1 - August 2018: Acute otitis media (AOM) is the most common reason for pediatric antibiotic been offered WW prescriptions Developed an algorithm summarizing the treatment recommendations provided in the AAP AOM guidelines to · Providers discussed WW with only 0.8% of those patients The updated American Academy of Pediatrics (AAP) AOM clinical practice help providers quickly identify patients that would be eligible for a watchful waiting approach The discussion of watchful waiting with patients improved over time guidelines acknowledge that many cases of AOM resolve without antibiotics Presented the algorithm at a monthly staff meeting and displayed it prominently in the CMK ED workroom for September 2018 following first PDSA cycle = 5% and recommend offering observation in non-severe cases providers to readily see and utilize January 2019 after the second PDSA cycle = 7.7-8.5% The observation approach is underutilized with antibiotics being prescribed for · Providers have consistently discussed watchful waiting and offered 75-95% of children with AOM in the United States PDSA Cycle 2 - December 2018: SNAP to at least 5% of patients with AOM each month since the start of Problem: Recognized providers who discussed watchful waiting with families through a monthly email the QI project Children diagnosed with AOM at the Children's Mercy Hospital Kansas There have been no reported ruptured tympanic membranes or increase in Emergency Department (CMK ED) routinely get antibiotic prescriptions return visit rates within 14 days of offering watchful waiting There is rarely discussion with families about watchful waiting (WW) Pediatric Acute Otitis Media - Percent of Time Watchful Waiting (WW) Discussed WW defined as discussion of observation with parents + providing a and Safety-net Antibiotic Prescription (SNAP) Offered safety-net antibiotic prescription (SNAP) that parents can fill if the patient Conclusion is not improving or worsening over the next 48 hours Children's Mercy Kansas Emergency Department 20 offer Aim Statement: 20 Offering watchful waiting can reduce unnecessary use of antibiotics in The aim of this quality improvement (QI) project is to increase watchful waiting children with AOM and in turn, reduce the potential of adverse events related Discussed and SNAP for AOM at the CMK ED by 20% by March 2020, with an overall goal of Monthly email recognizing to antibiotic use 15 decreasing antibiotic use for AOM top performing providers Acute care setting providers are sometimes concerned with the lack of Algorithm shared with follow-up; however providing SNAP along with parent education may help ED providers 10 overcome this barrier Methods Parents were receptive to a discussion regarding watchful waiting Clearly, there is need to increase the number of patients who can utilize the 5 Formed a multidisciplinary team: infectious diseases physician and pharmacist, watchful waiting with SNAP treatment option MM ED physicians, advanced practice registered nurses, and nurses 0 % Time \ **Future Goals** Reviewed 400 charts from randomly selected patients diagnosed with AOM at Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Aug-17 - May-18 Jun-18 Jul-18 Aug-18 CMK ED in the 9-month period between August 2017 and April 2018 Apr-18 · Excluded any condition that would alter the natural course of AOM Months Continue education and reinforce watchful waiting in future PDSA cycles to reach goal of 20% by March 2020

→ Established a baseline rate of antibiotic prescriptions for AOM and ascertained patient eligibility for watchful waiting



Develop information sheet to provide families at discharge

· Use the knowledge gained in future QI projects

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