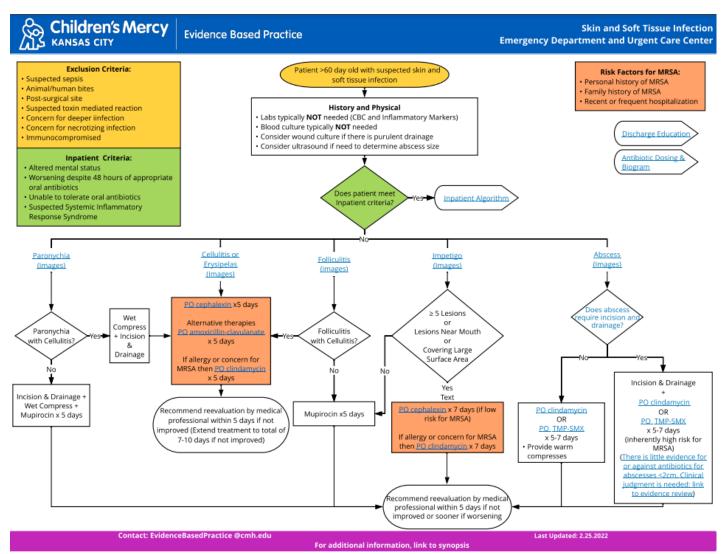
Date Finalized: 5/3/2022

Children's Mercy Kansas City (CMKC) Evidence Based Practice Clinical Practice Guide Committee

Skin and Soft Tissue Infection



This clinical practice guidel is meant as a guide for the healthcare provider, does not establish a standard of care, and is not a substitute for medical judgement which should be applied based upon the individual circumstances and clinical condition of the patient.

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Evidence Based Practice

Children's Mercy **Skin and Soft Tissue Infection Evidence Based Practice** KANSAS CITY Inpatient Patient >60 days old with suspected skir **Exclusion Criteria** Risk Factors for MRSA: and soft tissue infection Personal history of MRSA Suspected sepsis · Animal/human bites Family history of MRSA · Post-surgical site Recent or frequent hospitalization **History and Physical** Suspected toxin mediated reaction Labs typically NOT needed (CBC and Inflammatory Markers) · Blood culture typically NOT needed · Concern for deeper Antibiotic Dosing 8 · Consider wound culture if there is purulent drainage infection · Consider ultrasound if need to determine abscess size Concern for necrotizing infection Immunocompromised Discharge Educati Cellulitis or Erysipelas Impetigo Abscess (Images) Indications for IV (Images) (Images) Antibiotic Dosing 8 Antibiotics: Biogram Worsening despite 48 hours of appropriate (preferred if low Ones abscess red oral antibiotics n antibio an antibi Unable to tolerate oral antibiotics IV clindamycin suspected Systemic Inflammatory Incision & Provide warm Response Syndrome Drainage compresses (preferred if low risk of for MRSA) MRSA) OR OR Improving and can take PO PO clindamycin OR IV clindamycin PO TMP-SMX (inherently high Improving and risk for MRSA) Duration: 7 days total can take PO Discharge to follow-up with PO clindamycin medical professional within 5 days if not improved or PO_TMP-SMX worsening MRSA) Duration: 5-7 days total (inherently high risk for MRSA) Improving and OR can take PO (There is little evidence for or PO clindamycin against antibiotics for abscesses <2cm, link to Based on response to therapy 5 days total Considerations: Transition to a different Discharge to follow-up with Discharge to follow-up with antibiotic nedical professional within ! medical professional within 5 Alternate diagnosis days if not improved or ays if not improved or sooner it ID consultation sooner if worsening worsening Contact: EvidenceBasedPractice @cmh.edu Last Updated: 2.25,2022 For additional information, link to synopsis This clinical practice guide is meant as a guide for the healthcare provider, does not establish a standard of care, and is not a substitute for medical judgment which should be applied based upon the individual circumstances and clinical condition of the patient.

Date Finalized: 5/3/2022

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Evidence Based Practice

Date Finalized: 5/3/2022

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Background Skin and soft tissue infections (SSTI) include, but are not limited to, paronychia, cellulitis, erysipelas, folliculitis, impetigo, and abscess. To provide optimal treatment, clinicians must determine the location and severity of infection, then consider pathogens specific to the particular SSTI as well as local antibiotic resistance patterns. If antibiotics are indicated, they should be appropriately narrow and given for the minimal necessary duration to minimize adverse effects including antibiotic resistance. In 2014, the Infectious Diseases Society of America (IDSA) provided guidelines on the diagnosis and management of SSTI, recommending that cellulitis be treated with a 5-day course of antibiotics. These guidelines also recommend that most other pediatric SSTIs can be treated with a 5-7-day course of antibiotics. This CM Clinical Practice Guideline (CPG) serves as a resource and decision support tool for clinicians, encouraging the use of evidence-based SSTI treatment.

Definition Skin and soft tissue infections (SSTIs) are clinical entities of variable presentation, etiology, and severity that involve microbial invasion of the layers of the skin and underlying soft tissues (Ki et al., 2008).

Objective of Clinical Practice Guideline

Standardized treatment and appropriate antibiotic selection and duration

Target Users

- Primary Care Clinicians
- Urgent Care
- Emergency Medicine
- Hospital Medicine
- · Infectious Disease

Target Population

be required at times.

Guideline Inclusion Criteria

Patients >60 days with suspected skin and soft tissue infection

Guideline Exclusion Criteria

- Less than 60 days of age
- Suspected sepsis
- Animal or human bites
- Surgical site infections
- Suspected toxin-mediated reaction
- Immunocompromised, including steroid use >14 days
- Growth of multi-drug resistant organism in the past
- Deeper infections (Myositis, Fasciitis)
- Necrotizing infections
- SSTI infection of face, tooth, eye, perineum, operative sites

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The Infectious Diseases Society of America guideline provided guidance to the SSTI CPG committee (Stevens et al., 2014). See Table 1 for AGREE II.

Table 1.

AGREE II^a Summary for the Guideline Stevens et al. (2014)

Domain	Percent Agreement	Percent Justification
Scope and purpose	99%	The aim of the guideline, the clinical questions posed and target populations were identified.
Stakeholder involvement	58%	The guideline did not include appropriate stakeholders (such as patients, nurses, parents, pharmacists) nor the viewpoints of the intended user.
Rigor of development	81%	The process used to gather and synthesize the evidence, the methods to formulate the recommendations and to update the guidelines were explicitly stated.
Clarity and presentation	100%	The guideline recommendations are clear, unambiguous, and easily identified; in addition, different management options are presented.
Applicability	52%	The guideline did not address implementation barriers and facilitators, utilization strategies, or resource costs associated implementation.
Editorial independence	100%	The recommendations were not biased with competing interests. IDSA is used for diagnosis, evaluation,
Committee's recommendation for guideline use	Yes with modifications	and treatment recommendations. An additional question was posed by the CPG committee.
Note: Four ERP Scholars completed		2010) on this guideline

Note: Four EBP Scholars completed the AGREE II (Brouwers et al., 2010) on this guideline.

Additional Question Posed by the CPG Committee (Appendix A)

1. <u>In pediatric patients with suspected Skin and Soft Tissue Infection (SSTI), should antibiotics be prescribed after the abscess is drained versus no antibiotics for the outcomes of cured at follow-up and rate of recurrence?</u>

Question Recommendation A conditional recommendation is made for the use of antibiotics for abscesses, based on the GRADE Evidence to Decision instrument the Summary of Findings Table. The overall certainty in the evidence is low to very low. In pediatric patients, the use of antibiotics following incision and drainage was favorable for cure rate versus placebo. There is little evidence for or against antibiotics following incision and drainage for abscesses.

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Practice Recommendations

Please refer to The Infectious Diseases Society of America Clinical Practice Guideline for full diagnosis, evaluation, and treatment recommendations (Stevens et al., 2014).

Children's Mercy Practice Recommendations and Reasoning

Children's Mercy adopted the majority of the practice recommendations made by the IDSA Clinical Practice Guideline. Deviations include:

The IDSA (Stevens et al., 2014) states "the addition of systemic antibiotics to incision and drainage of cutaneous abscesses does not improve cure rates, even in those due to MRSA, but did have a modest effect on the time to recurrence of other abscesses. However, systemic antibiotics should be given to patients with severely impaired host defenses or signs or symptoms of systemic infection. In addition, multiple abscesses, extremes of age, and lack of response to incision and drainage alone are additional settings in which systemic antimicrobial therapy should be considered (Stevens et al. 2014, pg. e22)." Based on a current review of literature, Children's Mercy makes a conditional recommendation for the use of antibiotics for abscesses after incision and drainage. The overall certainty in the evidence is low to very low. In pediatric patients, the use of antibiotics following incision and drainage was favorable for cure rate versus placebo. There is little evidence for or against antibiotics following incision and drainage for abscesses <2cm. (Supporting Evidence)

Outcome Measures

Increase percentage of patients receiving 5-7 days of antibiotics by 20%

Process Measures

 Use of updated prescription folder within the electronic medical record Review of CPG

Balance Measures

· Return within 14 days with same diagnosis

Other Potential Outcomes

- Reducing risk of side effects or adverse events from medication
- Reducing risk of antimicrobial resistance
- Reducing healthcare cost (small)

Potential Organizational Barriers

- Provider resistance to practice change
- Provider concern for treatment failure with shorter antibiotic course

Order Sets(s) (Appendix B)

Guideline Preparation

This guideline was prepared by the Evidence Based Practice (EBP) Department in collaboration with content experts at Children's Mercy Kansas City. The development of this guideline supports the Service and Performance Excellence initiative to promote care standardization that builds a culture of quality and safety that is evidenced by measured outcomes. If a conflict of interest is identified the conflict will be disclosed next to the Committee member's name.

Implementation & Follow-up

- Once approved, the guideline was presented to appropriate care teams and implemented
- Care measurements will be assessed and shared with appropriate care teams to determine if changes need to occur
- Creation of an algorithm to provide evidence-based and consistent care throughout CM
- Creation of a standardized order set (Power Plan) consistent with the algorithm to provide additional decision support and decrease the risk of ordering error
- Education of providers in Urgent Care, Emergency Medicine, and Pediatric Hospital Medicine
- This guideline is scheduled for revision on May 2025

Date Finalized: 5/3/2022

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Conflict of Interests (COI)

• No COIs were reported for this CPG

Committee Members and Representation

- Megan Hamner, MD | Infectious Diseases | Committee Chair
- Rana El Feghaly, MD, MSCI | Infectious Diseases | Committee Member
- Erin Scott, DO | Emergency Medicine | Committee Member
- Jessica Markham, MD, MSc | Hospital Medicine | Committee Member
- Amanda Nedved, MD | Urgent Care | Committee Member

Patient and Family Representation

Angela Knackstedt, BSN, RN, NPD-BC | Equity and Diversity | Committee Member

MIT Committee Members

- Tracy Taylor | Medical Informatics | Committee Member
- George Abraham, MD | Medical Informatics | Committee Members
- Amber Lanning | Medical Informatics | Committee Members
- Brandan Kennedy, MD | Medical Informatics | Committee Members

EBP Committee Members

- Katie Berg, MD, FAAP | Evidence Based Practice & Hospital Medicine | Committee member
- Jarrod Dusin, MS, RD, LD, CPHQ | Evidence Based Practice | Committee member

Guideline Development Funding

The development of this guideline was underwritten by the Department of EBP and the divisions of Hospital Medicine, Emergency Medicine, Infectious Diseases, and Urgent Care.

Approval Process

This guideline was reviewed and approved by external and internal experts, internally by Hospital Medicine, Emergency Medicine, Infectious Diseases, Urgent Care, Content Expert Committee, the EBP Department, and other appropriate hospital committees deemed suitable for this guideline's intended use. Guidelines are reviewed and updated as necessary every 3 years within the EBP Department at CMKC. Content expert committees will be involved with every review and update.

Approval Obtained

Approvar obtained	
Department/Unit	Date Approved
Hospital Medicine	January 2022
Emergency Medicine	January 2022
Infectious Diseases	January 2022
Urgent Care	January 2022
Medical Executive	April 2022

Version History

Date	Comments
5/13/2022	Version 1

Disclaimer

When evidence is lacking or inconclusive, options in care are provided in the guideline and the order sets that accompany the guideline.

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Specific Care Question: In pediatric patients with suspected Skin and Soft Tissue Infection (SSTI), should antibiotics be prescribed after the abscess is drained versus no antibiotics for the outcomes of cured at follow-up and rate of recurrence?

Date Finalized: 4/06/2022

Recommendations from the Skin and Soft Tissue Infection CPG Team A conditional recommendation is made for the use of antibiotics for abscesses, based on the GRADE Evidence to Decision instrument the Summary of Findings Table. The overall certainty in the evidence is low to very low. In pediatric patients, the use of antibiotics **following incision and drainage** was favorable for cure rate versus placebo. There is little evidence for or against antibiotics **following incision and drainage** for abscesses **<2cm.** (see Summary by Outcome for substantiation of recommendations).

The SSTI CPG Subcommittee discussed additional considerations using the GRADE Evidence to Decision instrument^a found in the appendix to recommend antibiotic therapy for abscess following incision and drainage at Children's Mercy based on feasibility, value, and compliance for all stakeholders.

Literature Summary Background

Skin and soft tissue infection is a common presentation in pediatric emergency departments and ambulatory settings, of which almost half are abscesses (Gottlieb & Peksa, 2018; Taira et al., 2009). Standard clinical treatment for abscesses includes incision and drainage, but the utility of antibiotics for simple abscesses remains unclear (Singer & Talan, 2014). The Infectious Diseases Society of America recommends that incision and drainage is likely adequate for simple abscess (Stevens et al., 2014). A recent meta-analysis (Gottlieb & Peksa, 2018) of adults and pediatric patients found that systemic antibiotics for abscesses after incision and drainage increased clinical cure rates. This contrasts with a previous meta-analysis (Fahimi et al., 2015) of adults and pediatric patients that found no improvement in clinical cure rate. This review will summarize identified literature of pediatric patients to answer the specific care question on the topic.

Study characteristics. The search for suitable studies was completed on August 31, 2021. A. Nedved, MD and E. Scott, DO reviewed the 147 titles and/or abstracts found in the search and identified^b one guideline and six single studies believed to answer the question. After an in-depth review of the guideline^d and the single studies^c, four answered the question(s). Two systematic reviews (SR) (Fahimi et al., 2015; Gottlieb et al., 2019) were identified in the search. Both SRs included both adults and pediatric patients. Only the pediatric studies from the SRs were included in the current review.

Summary by Outcome

Cure Rate 7-10 days for Children, Trimethoprim / Sulfamethoxazole (TMP-SMX) versus Placebo

Two studies (Daum et al., 2017; Duong et al., 2010) measured cure rate at 7-10 days, (n = 329). For the outcome of cure rate at 7-10 days, the OR = 1.97, 95% CI [1.04, 3.73], p = .04, indicated the intervention of TMP-SMX was favorable to the comparator of placebo (see Figure 3 & Table 2). The use of TMP-SMX would result in a cure rate of 6 to 133 more patients per 1000.

Certainty Of The Evidence For Cure Rate at 7-10 days for Children. The certainty of the body of evidence was low. The body of evidence was assessed to have no serious inconsistency, no serious indirectness, but was assessed to have serious risk of bias and serious imprecision. Risk of bias was serious as Duong et al. (2010) did not reach power and medication compliance was only 66%. Imprecision was serious due to the low number of events and participants (n = 329).

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Cure Rate 7-14 days for Children and Adults, TMP-SMX versus Placebo

Three studies (Daum et al., 2017; Duong et al., 2010; Talan et al., 2016) measured cure rate at 7-14 days, (n = 1576). For the outcome of cure rate at 7—14 days, the OR = 1.55, 95% CI [1.22, 1.97], p = .0005, indicated the intervention of TMP-SMX was favorable to the comparator of placebo (see Figure 3 & Table 2). The use of TMP-SMX would result in a cure rate of 34 to 105 more patients per 1000.

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Certainty Of The Evidence For Cure Rate at 7-14 days for Children and Adults. The certainty of the body of evidence was low. The body of evidence was assessed to have no serious inconsistency and no serious imprecision, but was assessed to have serious risk of bias and serious indirectness. Risk of bias was serious due to potential selection bias (Talan et al., 2016). This study made up 86% of the final weight of the meta-analysis results. Indirectness was serious due to Talan et al. (2016) included both adults and children.

Recurrence at 3 months for Children, TMP-SMX versus Placebo for Children

One studies (Duong et al., 2010) measured recurrence at 3 months, (n = 98). For the outcome of recurrence at 3 months, the OR = 0.97, 95% CI [0.40, 2.34], p = .95, indicated the intervention of TMP-SMX was no different to the comparator of placebo (see Figure 5 & Table 2).

Certainty Of The Evidence For Cure Rate at 7-10 days for Children. The certainty of the body of evidence was. The body of evidence was assessed to have no serious inconsistency, no serious indirectness, but was assessed to have serious risk of bias and serious imprecision. Risk of bias was serious due to Duong et al. (2010) not recruit enough study participants to detect significance and the medication compliance of the subjects was only 66%. Imprecision was serious due to the low number of events and participants (n = 98).

Adverse Events for Children, TMP-SMX versus Placebo

Two studies (Daum et al., 2017; Duong et al., 2010) measured adverse events, (n = 672). For the outcome of adverse events, the OR = 0.73, 95% CI [0.47, 1.15], p = .18, indicated the intervention of TMP-SMX was no different to the comparator of placebo (see Figure 4 & Table 2).

Certainty Of The Evidence For Adverse Events for Children. The certainty of the body of evidence was. The body of evidence was assessed to have no serious inconsistency, no serious indirectness, but was assessed to have serious risk of bias and serious imprecision. Risk of bias was serious due to Duong et al. (2010) not recruit enough study participants to detect significance and the medication compliance of the subjects was only 66%. Imprecision was serious due to the low number of events (n = 186).

Adverse Events for Children and Adults, TMP-SMX versus Placebo

Three studies (Daum et al., 2017; Duong et al., 2010; Talan et al., 2016) measured cure rate at 7-14 days, (n = 1709). For the outcome of adverse events, the OR = 0.89, 95% CI [0.59, 1.35], p = .59, indicated the intervention of TMP-SMX was no different to the comparator of placebo (see Figure 4 & Table 2).

Certainty Of The Evidence For Adverse Events for Children and Adults. The certainty of the body of evidence was very. The body of evidence was assessed to have no serious imprecision, but was assessed to have serious risk of bias, serious inconsistency, and serious indirectness. Risk of bias was serious due to potential selection bias of (Talan et al., 2016). This study made up 86% of the final weight of the meta-analysis results. Inconsistency was serious due to each study measuring adverse events differently and moderate heterogeneity based on I² of 77%. Indirectness was judged to be serious due to the inclusion of both adults and children (Talan et al. (2016).

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Cure Rate 7-10 days for Children, Clindamycin versus Placebo

One study (Daum et al., 2017) measured cure rate at 7-10 days, (n = 190). For the outcome of cure rate at 7—10 days, the OR = 1.97, 95% CI [1.04, 3.73], p = .04, indicated the intervention of clindamycin was favorable to the comparator of placebo (see Figure 6 & Table 3). The use of clindamycin would result in a cure rate of 106 to 261 more patients per 1000.

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Certainty Of The Evidence For Cure Rate at 7-10 days for Children. The certainty of the body of evidence was low. The body of evidence was assessed to not have serious risk of bias, nor serious inconsistency, or serious indirectness, but very serious imprecision. Imprecision was very serious due to the low number of events and participants (n = 190).

Adverse Events for Children, Clindamycin versus Placebo

One study (Daum et al., 2017) measured adverse events, (n = 190). For the outcome of adverse events, the OR = 3.76, 95% CI [1.74, 8.11], p = .005, indicated the intervention of clindamycin was not favorable to the placebo comparator (see Figure 7 & Table 3). The use of clindamycin would result in a 23 to 184 more adverse events per 1000 patients.

Certainty Of The Evidence For Cure Rate at 7-10 days for Children. The certainty of the body of evidence was. The body of evidence was assessed to not have serious risk of bias, nor serious inconsistency, or serious indirectness, but had very serious imprecision. Imprecision was very serious due low number of events and participants (n = 190).

Recurrence at 1 year for Children, Antibiotics versus No-antibiotics

One study (Hogan et al., 2018) measured recurrence at 1 year, (n = 383). For the outcome of recurrence at 1 year, the OR = 0.37, 95% CI [0.17, 0.84], p = .02, indicated the intervention of antibiotics (clindamycin, TMP-SMX, vancomycin) was favorable to the comparator of no-antibiotics (see Figure 8 & Table 4).

Certainty Of The Evidence For Recurrence at 1 year for Children.

The certainty of the body of evidence was low. The body of evidence was assessed to have no serious inconsistency and no serious indirectness, but was assessed to have serious imprecision and serious risk of bias. Risk of bias was serious due to the low number of participants in the comparison group. Imprecision was serious due to the low number of events (n = 90).

Identification of Studies

Search Strategy and Results (see Figure 1)

("skin and soft-tissue infection*" OR "skin and soft tissue infection*" OR SSTI OR SSTIS OR "Soft Tissue Infections" [Mesh] OR "Skin Diseases, Infectious" [Mesh] OR "skin abscess*" [tiab] OR "skin lesion*" [tiab] OR "Subcutaneous abscess*" [tiab]) AND ("Drainage" [Mesh] OR "Incision and drainage" OR "I&D" OR "incision & drainage") AND ("Treatment Outcome" [Mesh] OR "Follow-Up Studies" [Mesh] OR follow-up OR "Watchful Waiting" [Mesh] OR "Anti-Bacterial Agents" [Mesh] OR "Recurrence" [Mesh] OR antibiotic* [tiab] OR outcome* [tiab]) AND (child OR children OR pediatr* OR paediatr* OR infant OR adolescence)

Records identified through database searching n = 147Additional records identified through other sources n = 1

Studies Included in this Review

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Citation	Study Type
Daum et al. (2017)	RCT
Duong et al. (2010)	RCT
Hogan et al. (2018)	Cohort
Talan et al. (2016)	RCT

Studies Not Included in this Review with Exclusion Rationale

Citation	Reason for exclusion
Gottlieb et al. (2019)	Pediatric study in the systematic review already included
Fahimi et al. (2015)	Pediatric study in the systematic review already included

Date Finalized: 4/06/2022

Methods Used for Appraisal and Synthesis

- The GRADEpro Guideline Development Tool (GDT) is the tool used to create the Summary of Findings (SOF) table(s) for this analysis. Using the GDT, the author of this CAT rates the certainty of the evidence based on four factors: within-study risk of bias, consistency among studies, directness of evidence, and precision of effect estimates. Each factor is subjectively judged against the author's confidence of the estimated treatment effect. Confidence is assessed as not serious, serious or very serious or very serious is assessed, the author will provide an explanation.
- ^bRayyan is a web-based software used for the initial screening of titles and / or abstracts for this analysis (Ouzzani, Hammady, Fedorowicz & Elmagarmid, 2017).
- Exerview Manager (Higgins & Green, 2011) is a Cochrane Collaborative computer program used to assess the study characteristics as well as the risk of bias and create the forest plots found in this analysis.
- ^dThe Appraisal of Guidelines Research and Evaluation II (AGREE II) is an international instrument used to assess the quality and reporting of clinical practice guidelines for this analysis (Brouwers et al. 2010).
- The Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flow diagram depicts the process in which literature is searched, screened, and eligibility criteria is applied (Moher, Liberati, Tetzlaff, & Altman, 2009).
- ^aGRADEpro GDT: GRADEpro Guideline Development Tool (2015). McMaster University, (developed by Evidence Prime, Inc.). [Software]. Available from gradepro.org.
- Duzzani, M., Hammady, H., Fedorowicz, Z., & Elmagarmid, A. (2016). Rayyan-a web and mobile app for systematic reviews. Systematic Reviews, 5(1), 210. doi:10.1186/s13643-016-0384-4
- ^cHiggins, J. P. T., & Green, S. e. (2011). Cochrane Handbook for Systematic Reviews of Interventions [updated March 2011] (Version 5.1.0 ed.): The Cochrane Collaboration, 2011.
- ^dBrouwers, M.C. et al. for the AGREE Next Steps Consortium. (2010) AGREE II: Advancing guideline development, reporting and evaluation in healthcare. *Canadian Medical Association Journal*, 182, E839-842. Retrieved from https://www.agreetrust.org/wp-content/uploads/2017/12/AGREE-II-Users-Manual-and-23-item-Instrument-2009-Update-2017.pdf
- Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097 For more information, visit www.prisma-statement.org.

Question Originator

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SSTI CPG Team

Medical Librarian Responsible for the Search Strategy

K. Swaggart, MLIS, AHIP

EBP Team or EBP Scholar's Responsible for Analyzing the Literature

J. Dusin, MS, RD, LD, CPHQ

EBP Team Member Responsible for Reviewing, Synthesizing, and Developing this Document

J. Dusin, MS, RD, LD, CPHQ

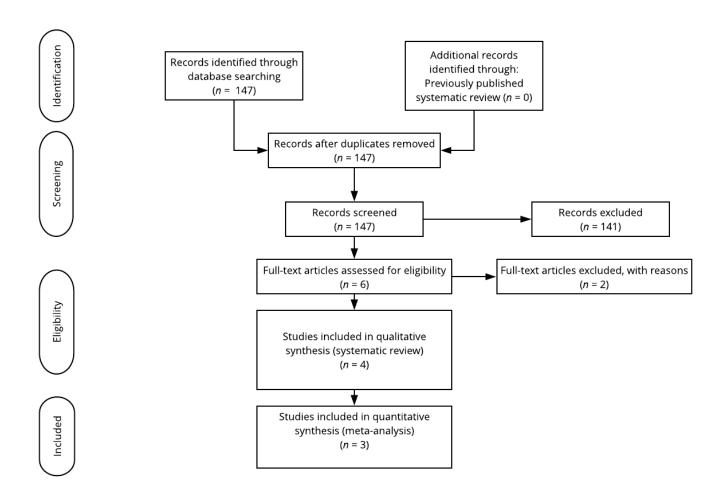
Acronyms Used in this Document							
Acronym	Explanation						
AGREE II	Appraisal of Guidelines Research and Evaluation II						
CAT	Critically Appraised Topic						
EBP	Evidence Based Practice						
MRSA	Methicillin-resistant S. aureus						
PRISMA	Preferred Reporting Items for Systematic Reviews and Meta-Analyses						
SSTI	Skin and Soft Tissue Infection						
TMP-SMX	Trimethoprim / Sulfamethoxazole						

Statistical Acronyms Used in this Document

Statistical Acronym	Explanation
CI	Confidence Interval
HR	Hazard Ratio
I^2	Heterogeneity test
M or \bar{X}	Mean
Mdn	Median
n	Number of cases in a subsample
N	Total number in sample
OR	Odds Ratio
P or p	Probability of success in a binary trial
RCT	Randomized controlled trial
SD	Standard deviation
SR	Systematic Review

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Figure 1Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMSA)^c



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Figure 2
Risk of Rias Summar

Risk of Bias Summary											
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias				
Daum 2017	•	•	•	?	•	•	•				
Doung 2010	•	?	•	•	•	•	•				
Talan 2016	•	•	•	•	•	•	?				

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Summary of Findings Table(s) Table 2

Summary of Findings Table^a: TMP-SMX compared to Placebo

		Certa	inty assessm	ent			Summary of findings					
Participant						Overall	Study event rates (%)		Relativ	Anticipated absolute effects		
s (studies) Follow-up	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With Placeb o	With With (95%)	e effect (95% CI)	Risk with Placeb o	Risk differenc e with TMP-SMX	
Cure Rate 7-	·14 days	Children and A	dults									
1576 (3 RCTs)	serious ^{a,} b	not serious	serious ^c	not serious	none	⊕⊕⊖⊖ Low	587/78 2 (75.1%)	652/79 4 (82.1%)	OR 1.55 (1.21 to 1.97)	751 per 1,000	73 more per 1,000 (from 34 more to 105 more)	
Cure Rate 7-	·10 days	Children										
329 (2 RCTs)	serious ^b	not serious	not serious	serious ^d	none	⊕⊕⊖⊖ Low	133/16 5 (80.6%)	145/16 4 (88.4%)	OR 1.97 (1.04 to 3.73)	806 per 1,000	85 more per 1,000 (from 6 more to 133 more)	
Adverse Eve	nts Adult	s and Children	1									
1709 (3 RCTs)	serious ^{a,}	serious ^e	serious ^c	not serious	none	⊕○○○ Very low	102/83 7 (12.2%)	98/872 (11.2%)	OR 0.89 (0.59 to 1.35)	122 per 1,000	12 fewer per 1,000 (from 46 fewer to 36 more)	

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Certainty assessment								Summary of findings				
672 (2 RCTs)	serious ^b	not serious	not serious	serious ^d	none	⊕⊕○○ Low	99/333 (29.7%)	88/339 (26.0%)	OR 0.73 (0.47 to 1.15)	297 per 1,000	61 fewer per 1,000 (from 131 fewer to 30 more)	
Recurrence	3 months	Children										
98 (1 RCT)	serious ^f	not serious	not serious	serious ^d	none	⊕⊕○○ Low	15/52 (28.8%)	13/46 (28.3%)	OR 0.97 (0.40 to 2.34)		6 fewer per 1,000 (from 149 fewer to	

198 more)

Explanations

- a. Potential selection bias due to physicians ability to exclude patients at higher risk (Talan et al., 2016). Talan et al. (2016) study has 86% weight in meta-analysis.
- b. Duong et al. (2010) not recruit enough study participants to detect significance and the medication compliance of the subjects was only 66%.
- c. One study (Talan et al., 2016) included both adults and children.
- d. Low number of events and subjects.
- e. Adverse events measured differently in each study.
- f. Study did not reach power and only a medication compliance rate of 66% (Doung et al., 2010).

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Table 3
Summary of Findings Table: Clindamycin compared to Placebo

		Cert	ainty assessn	nent			Summary of findings					
Doubicinouto	Diele				Dias	of	Study	event rates (%)	Relative effect (95% CI)	Anticipated absolute effects		
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision			With	With Clindamycin		Risk with Placebo	Risk difference with Clindamycin	
Cure Rate 7-	Cure Rate 7-10 days											
190 (1 RCT)	not serious	not serious	not serious	very serious ^a	none	⊕⊕○○ Low	61/89 (68.5%)	90/101 (89.1%)	OR 3.76 (1.74 to 8.11)	685 per 1,000	206 more per 1,000 (from 106 more to 261 more)	
Adverse Eve	nts											
523 (1 RCT)	not serious	not serious	serious ^b	very serious ^a	none	⊕○○○ Very low	32/257 (12.5%)	58/266 (21.8%)	OR 1.96 (1.22 to 3.14)	125 per 1,000	93 more per 1,000 (from 23 more to 184 more)	

Explanations

a. Low number of events and participants

b. Includes children and adults

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Table 4
Summary of Findings Table: Antibiotics compared to No-Antibiotics

le control de la control de	Certainty assessment							Summary of findings			
							Study event rates (%)			Anticipated absolute effects	
Participant s (studies) Follow-up	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Publicatio n bias	y of evidenc	With No- Antibiotic s (observat ional study)	With Antibioti CS	Relativ e effect (95% CI)	s	Risk difference with Antibiotic s
Recurrent S	STI at 1	year									
383 (1 observation al study)	serious a	not serious	not serious	serious ^b	none	⊕○○○ Very low	18/28 (64.3%)	143/355 (40.3%)	OR 0.37 (0.17 to 0.84)	643 per 1,000	243 fewer per 1,000 (from 409 fewer to 41 fewer)

Explanations

a. Low number of participants in the comparison group

b. Low number of events

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Meta-analysis(es)

Figure 3

Comparison: TMP-SMX versus Placebo, Outcome: Cure Rate

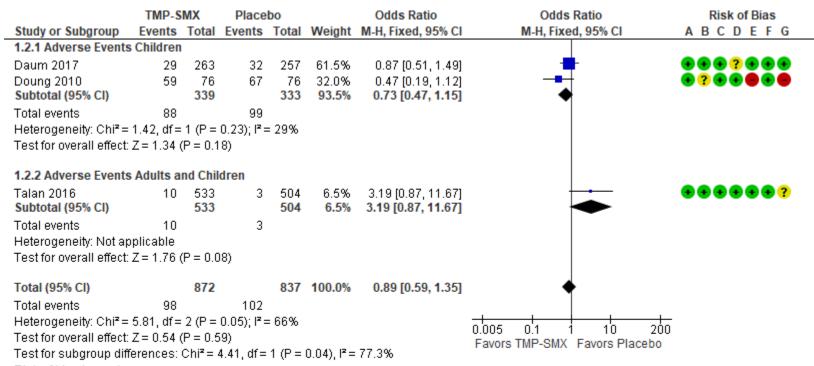
	TMP-SN	ΛX	Place	bo		Odds Ratio	Odds Ratio	Risk of Bias
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	ABCDEFG
1.1.1 Cure Rate 7-10	days Child	ren						
Daum 2017	75	91	61	89	10.5%	2.15 [1.07, 4.34]		- •••?••
Doung 2010	70	73	72	76	2.8%	1.30 [0.28, 6.00]		→ •?••••
Subtotal (95% CI)		164		165	13.3%	1.97 [1.04, 3.73]		
Total events	145		133					
Heterogeneity: Chi²=	0.35, $df = 1$	1 (P = 1)	0.56); l ² =	: 0%				
Test for overall effect:	Z = 2.09 (F	P = 0.0	4)					
1.1.2 Cure Rate 7-14	days Child	ren ar	nd Adults	;				
Talan 2016	507	630	454	617	86.7%	1.48 [1.13, 1.93]	-	$\bullet \bullet \bullet \bullet \bullet \bullet ?$
Subtotal (95% CI)		630		617	86.7%	1.48 [1.13, 1.93]	•	
Total events	507		454					
Heterogeneity: Not ap	plicable							
Test for overall effect:	Z = 2.89 (F	P = 0.0	04)					
Total (95% CI)		794		782	100.0%	1.55 [1.21, 1.97]	•	
Total events	652		587					
Heterogeneity: Chi²=	1.01, $df = 2$	2 (P = I	0.60); l²=	:0%			0.2 0.5 1 2	_
Test for overall effect:	Z = 3.48 (F	9 = 0.0	005)				Favors Placebo Favors TMP-SM	S IX
Test for subgroup diff	erences: C	hi²=0).66, df=	1 (P=	0.42), l ² =	: 0%	Tavol3 Flacebo Tavol3 Fili -Oil	

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

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Figure 4
Comparison: TMP-SMX versus Placebo, Outcome: Adverse Events

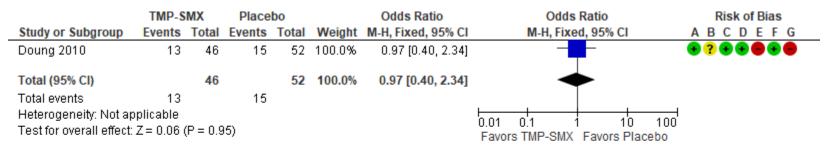


- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
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- (D) Blinding of outcome assessment (detection bias)
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- (G) Other bias

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Figure 5 Comparison: TMP-SMX versus Placebo, Outcome: Recurrence at 3 months



- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

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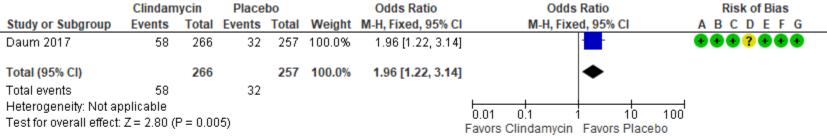
Figure 6
Comparison: Clindamycin versus Placebo, Outcome: Cure Rate 7 to 10 days

	Clindam	ycin	Place	bo		Odds Ratio	Odds	s Ratio		Risk of Bias
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI		ABCDEFG
Daum 2017	90	101	61	89	100.0%	3.76 [1.74, 8.11]				$\bullet \bullet \bullet ? \bullet \bullet \bullet$
Total (95% CI)		101		89	100.0%	3.76 [1.74, 8.11]		•		
Total events	90		61							
Heterogeneity: Not ap Test for overall effect:	•	P = 0.00	008)				0.01 0.1 Favors Placebo		l 100 O 100 Iindamycii	n

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

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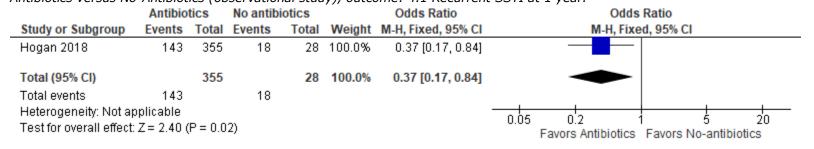
Figure 7
Comparison: Clindamycin versus Placebo, Outcome: Adverse Events



- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

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Figure 8
Comparison: Antibiotics versus No Antibiotics, Outcome: Recurrent SSTI at 1 Year
Antibiotics versus No-Antibiotics (observational study), outcome: 4.1 Recurrent SSTI at 1 year.



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Characteristics of Intervention Studies

Daum et al. (2017)

	Randomized Contr	ol Trial								
articipants	Setting: Urgent car Medical Center, Chic Los Angeles, Medica	Participants: Outpatient adults and Children May 2009 through January 2015 Setting: Urgent care clinics, emergency departments, and affiliated clinics at six sites: the University of Chicago Medical Center, Chicago; San Francisco General Hospital, San Francisco; Harbor–University of California, Los Angeles, Medical Center, Torrance; Vanderbilt University Medical Center, Nashville, Washington University, St. Louis and Morehouse School of Medicine Emory University, Atlanta								
	 Group 1, Cl Group 2, Tl Group 3, Pl Completed Study: Group 1: n Group 3: n Group 3: n Gender, males (as Group 1: n Group 2: n 	Randomized into study: N = 786 • Group 1, Clindamycin: n = 266 • Group 2, TMP-SMX: n = 263 • Group 3, Placebo: n = 257 Completed Study: N = 678 • Group 1: n = 234 • Group 2: n = 226 • Group 3: n = 218 Gender, males (as defined by researchers): • Group 1: n = 140 (52.6%) • Group 2: n = 152 (57.8%) • Group 3: n = 156 (60.7%)								
	Race or ethnic group - no	Clidamycin			_	a -				
	Native American or Alaskan		2	1	3					
	Asian	8	4	2	14					
	Hawaiin or Pacific Islander	2	4	2	8					
			450	167	484					
	Black or African American	165	152	107	101					
	Black or African American White	165 80	87	73	240					

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Age
~9 ~

Age - no	Clidamycin	TMP-SMX	Placebo	All Groups
<1 yr	6	9	2	17
1 to 8 yr	56	51	59	166
9 to 17 yr	39	31	28	98

Inclusion Criteria:

• Single abscess (defined as a circumscribed, drainable collection of pus) with a greatest diameter of 5.0 cm or less (≤3 cm for participants 6 to 11 months of age and ≤4 cm for participants 1 to 8 years of age),

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- Evidenced by two or more of the following signs or symptoms for at least 24 hours:
 - o Erythema
 - Swelling or induration
 - Local warmth
 - Purulent drainage
 - Tenderness to pain or palpation

Exclusion Criteria:

- Superficial skin infections (e.g., impetigo)
- Infection at a body site requiring specialized management (e.g., perirectal, genital, or hand infection)
- Human or animal bite
- Oral temperature higher than 38.5°C (or >38.0°C for children 6 to 11 months of age)
- Presence of systemic inflammatory response syndrome criteria
- Immunosuppressive therapy or an immunocompromising condition (e.g., diabetes or chronic renal failure),
- Body-mass index (the weight in kilograms divided by the square of the height in meters) higher than 40
- Surgical site or prosthetic device infection
- Systemic anti-staphylococcal antibacterial therapy in the previous 14 days
- Required hospitalization
- Lived in a long-term care facility
- cancer
- Inflammatory disorder treated

Power Analysis: The trial was designed as a superiority trial with 80% power to detect a 10-percentage-point absolute

difference in cure rates (e.g., 85% vs. 95%), 786 participants were required (262 per group).

Interventions

Both: After incision and drainage of the abscess and determination of the size of the abscess, participants were randomly assigned in a 1:1:1 ratio to receive placebo, clindamycin, or TMP-SMX. Participants were seen at the end of

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treatment (day 12), at the test-of-cure visit (7 to 10 days after the prescribed 10-day course of therapy), and at the 1-month follow-up (day 40). • Group 1: Clindamycin was given as two 150-mg tablets three times daily • Group 2: TMP-SMX was given as two tablets (containing 80mg of trimethoprim and 400 mg of sulfamethoxazole) twice daily plus one dose of placebo pills • **Group 3:** Two placebo pills given three times daily **Outcomes** Primary outcome(s): Clinical cure by day 7 to 10 days* Secondary outcome(s) Clinical cure at day 40* Safety outcome(s): Adverse events* *Outcomes of interest to the CMH CPG or CAT development team **Notes** Ten days after therapy in the intention-to-treat population, the cure rate: o Clindamycin: 221 of 266 participants [83.1%] o TMP-SMX: 215 of 263 participants [81.7%] \circ Placebo: 177 of 257 participants [68.9%], p < .001 for both comparisons • New infections at 1 month of follow-up o Clindamycin: 15 of 221, 6.8% \circ TMP-SMX: 29 of 215, 13.5%, p = .03o Placebo: 22 of 177, 12.4%, p = .06 Adverse events o Clindamycin: 58 of 265, 21.9% o TMP-SMX: 29 of 261, 11.1% o Placebo 32 of 255, 12.5% Risk of bias Bias Judgment Support for judgment Random sequence Low risk Variable-block randomization generation (selection bias) Allocation concealment Low risk Allocation determines by independent statistics and data-coordinating center (selection bias) Blinding of participants and Low risk personnel (performance Participants and all study staff were unaware of the study-group assignments bias)

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Blinding of outcome assessment (detection bias)	Unclear risk	Staff assessing outcomes were unaware of study groups
Incomplete outcome data (attrition bias)	Low risk	Intention-to-Treat was used for primary outcome
Selective reporting (reporting bias)	Low risk	All outcomes reported
Other bias	Low risk	

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Duong et al. (2010)

Methods	Randomized Control Trial
Participants	Participants: Pediatric Patients July 2006 through February 2008
-	Setting: Emergency Department in Saint Louis Medical Center
	Randomized into study: $N = 161$
	• Group 1, TMP-SMX: <i>n</i> = 77
	• Group 2, Placebo: <i>n</i> = 85
	Completed Study: N = 149
	• Group 1: <i>n</i> = 73
	• Group 2: <i>n</i> = 76
	Gender, males (as defined by researchers):
	• Group 1: $n = 28 (39\%)$
	• Group 2: $n = 34 (45\%)$
	Race / ethnicity or nationality (as defined by researchers):
	• Black: 128/149 (85%)
	Age, (<5 years)
	• Group 1: 40/76 (53%)
	• Group 2: 39/73 (53%)
	Inclusion Criteria:
	Diagnostic criteria for skin abscess included the presence of all of the following features:
	Acute onset within 1 week
	Fluctuance, Fruthama
	 Erythema Induration
	 Tenderness, with or without purulent drainage.
	Exclusion Criteria:
	Chronic health problems
	Immunosuppressive medications
	Current antibiotic usage
	Contraindication to TMP-SMX
	Minor or superficial skin infections
	Power Analysis: The sample size of 81 per group was calculated according to assumed treatment
	failure rate of 3.3% with antibiotics, an equivalence threshold of 7% (allowing up to 10.3% failure rate
	with placebo), to achieve a power of 0.80 (0.05).

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|bias)

Interventions	Both:					
	L • 7 • #	 Ultrasonography was available, measurements were made in 2 dimensions, diameter and depth. Local anesthetic or procedural sedation was used at the discretion of the attending physician The skin overlying all skin abscesses was cleansed with 10% povidone iodine solution and then incised with a no. 11 blade, probed for loculations, and irrigated with normal saline solution. Abscess cultures obtained immediately after surgical incision and sent for culture and antibiotic sensitivity testing. Group 1: TMP-SMX dose for mild bacterial infections (10-12 mg trimethoprim/kg/ day divided into 2 doses, with a maximum dose of 160 mg trimethoprim/dose). Group 2: The placebo consisted of a Maalox and tonic water combination that resembled the antibiotic in color, texture, and taste. 				
Outcomes	Prima	ry outcome(s):				
		Clinical resolution or failure at 10 days*				
		dary outcome(s)				
		New Lesions on day 10				
		New lesions on day 3-months outcome(s):				
		Adverse events*				
		mes of interest to the CMH CPG or CAT development team				
Notes	• Th	e failure rates were 5.3% ($n=4/76$) and 4.1% ($n=3/73$) in the placebo and antibiotic groups, spectively, yielding a difference of 1.2.				
		w lesions occurred at the 10-day follow-up: 19 on placebo (26.4%) and 9 on antibiotics (12.9%), lding a difference of 13.5.				
		the 3-month follow-up, 15 of 52 (28.8%) in the placebo group and 13 of 46 (28.3%) in the tibiotic group developed new lesions. The difference was 0.5%.				
Risk of bias						
Bias	Judgment	Support for judgment				
Random sequence generation (selection bias)	Low risk	Computer randomization program				
Allocation concealment (selection bias)	Unclear risk	Not discussed				
Blinding of participants and Low risk		Participants and personal blinded				

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Other bias

High risk

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Blinding of outcome assessment (detection bias)	Low risk	The patient, parents, and clinician who assessed the clinical outcome were blinded to group assignment
Incomplete outcome data (attrition bias)	High risk	Per-protocol and study did not meet power
Selective reporting (reporting bias)	Low risk	All outcomes reported

Low compliance rate of medications of 66%

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Hogan et al. (2018)

Methods	Cohort, prospectively
Participants	Participants: <21-year-old, 2008-2016 Setting: ED or outpatient setting, St Louis, Missouri and Springfield, Illinois Number enrolled into study: N = 357 • Group 1, Antibiotics: n = 331 • Group 2, No Antibiotics: n = 26 Gender, males (as defined by researchers): • n = 167 (40%) Race / ethnicity or nationality (as defined by researchers): • White n = 143 (37%) • African American or biracial n = 237 (62%) • Asian n = 2 (1%) Inclusion Criteria: • <21 years old with community-onset S. aureus SSTI and S. aureus colonization • Presented with acute, community-onset SSTI for which an Incision and drainage procedure was performed Exclusion Criteria: • Immunodeficiency • Hospitalized within the previous 14 days • Decolonization measures (with mupirocin ointment, chlorhexidine gluconate, or bleach baths) in the prior month Covariates Identified: • Age • Race • Methicillin susceptibility of the SSTI isolate (MRSA vs methicillin-susceptible S. aureus) • Prescription of decolonization measures for baseline SSTI • Burden (i.e., number of anatomical sites) of S. aureus colonization at baseline
Interventions	Both: Incision and Drainage • Group 1: Received guideline-recommended empiric systemic antibiotics ○ Clindamycin, $n = 220$ (57%) ○ TMP-SMX, $n = 199$ (52%) ○ Vancomycin $n = 19$ (5%) ○ β -lactam $n = 12$ (3%)

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	Group 2: Did not receive guideline-recommended empiric systemic antibiotics Primary outcome(s):		
Outcomes			
	Colonized with S. aureus at follow-up		
	Secondary outcome(s):		
	Recurrent SSTI at 1 year		
Notes	Results:		
	 Antibiotics for purulent SSTI were less likely to remain colonized at follow-up sampling, adjusted hazard ratio (aHR) = 0.49; 95% CI [.30, .79] 		
	 Antibiotics are less likely to have recurrent SSTI, aHR = 0.57, 95% CI [.34, .94] 		
	• Clindamycin was more effective than TMP-SMX in eradicating S. aureus colonization (44% vs 57% remained colonized, $p = .03$) and preventing recurrent SSTI (31% vs 47% experienced recurrence, $p = .008$).		
	Limitations:		
	Limited number of antibiotic free patients		
	Only looked at patients with <i>S. aureus</i>		

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Talan et al. (2016)

Randomized Control Trial
Participants: Adults and children older than 12 years of age, April 2009 to April 2013
Setting: Five US Emergency Departments
Randomized into study: $N = 1265$
• Group 1, TMP-SMX: <i>n</i> = 636
• Group 2, Placebo: <i>n</i> = 629
Completed Study: N = 1013
• Group 1: $n = 504$
• Group 2: $n = 509$
Gender, males (as defined by researchers):
• Group 1: $n = 364 (57.8\%)$
• Group 2: <i>n</i> = 362 (58.7%)
Race / ethnicity or nationality (as defined by researchers):
Not reported
Age, Median (IQR)
• Group 1: 35 (26-47)
• Group 2: 35 (26-48)
Inclusion Criteria:
Older than 12 years of age
Cutaneous lesion that was suspected to be an abscess on the basis of physical examination and
ultrasonography or examination alone
Purulent material on surgical exploration
Lesion present for less than 1 week
At least 2.0 cm in diameter
Intended outpatient treatment.
Agreed to return for reevaluation
Exclusion Criteria:
Indwelling device; suspected osteomyelitis or septic arthritis; diabetic foot, decubitus, or ischemic
ulcer; mammalian bite; wound with organic foreign body; infection of another organ system/site;
perirectal, perineal or paronychial location; intravenous drug use within previous month and fever;
underlying skin condition; long-term care residence; incarceration; immunodeficiency; creatinine clearance <50 mL/min; cardiac condition with risk of endocarditis; allergy or intolerance to
trimethoprim-sulfamethoxazole; taking warfarin, phenytoin, or methotrexate; known G-6-PD or folic

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I ow risk

Low risk

Blinding of outcome

(attrition bias)

assessment (detection bias)
Incomplete outcome data

acid deficiency; pregnant or lactating; trimethoprim-sulfamethoxazole treatment within 24 hours; concurrent treatment with topical or systemic antibiotic; or enrolled in the study within 12 weeks. Power Analysis: Enrollment of 590 participants would provide a power of 90% to detect an absolute between-group difference of 7.5 percentage points, assuming a cure rate of 90% Interventions **Both:** Incision and drainage of abscess • **Group 1:** 7-day course of trimethoprim-sulfamethoxazole (four single-strength pills, each containing 80 mg of trimethoprim and 400 mg of sulfamethoxazole, twice daily) • **Group 2: P**lacebo (four pills containing microcrystalline cellulose, twice daily). **Outcomes** Primary outcome(s): • Clinical cure of abscess, assessed 7 to 14 days Secondary outcome(s) • Subsequent surgical drainage procedures · Skin infections at new sites Safety outcome(s): Adverse events *Outcomes of interest to the CMH CPG or CAT development team Notes Risk of bias table Judgment Bias Support for judgment Random sequence Low risk Web-based randomization, assigned participants in a 1:1 ratio generation (selection bias) Allocation concealment Low risk Drug package identical (selection bias) Blinding of participants and Low risk personnel (performance Participants and personnel blinded bias)

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Intention-to-treat, secondary outcome per-protocol

Outcome assessors blinded

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Selective reporting (reporting bias)	Low risk	All outcomes reported
Other bias	Unclear risk	potential selection bias due to physicians' ability to exclude patients at higher risk.

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References

Date Finalized: 4/06/2022

Reference marked with an asterisk indicate study included in the meta-analysis.

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Appendix A

ASSESSMENT

Problem Is the problem a priority	?			
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		
 No Probably no Probably yes Yes Varies Don't know 	Skin and soft tissue infection is a common presentation in pediatric emergency departments and ambulatory settings, of which almost half are abscesses (Gottlieb & Peksa, 2018; Taira et al., 2009). Standard clinical treatment for abscesses includes incision and drainage, but the utility of antibiotics for simple abscesses remains unclear (Singer & Talan, 2014). The Infectious Diseases Society of America recommends that incision and drainage are likely adequate for simple abscesses (Stevens et al., 2014).			
Desirable Effects How substantial are the	desirable anticipated effects?			
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		
TrivialSmallModerateLargeVariesDon't know	Desirable effects of giving antibiotics			
Undesirable Effects How substantial are the	undesirable anticipated effects?			
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		

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 Large Moderate Small Trivial Varies Don't know 	Undesirable effects of giving antibiotics	TMP-SMX and clindamycin have different side effect, but the risk of Steven Johnson Syndrome or Toxic Epidermal Necrolysis are the potential adverse events of greatest concern with TMP-SMX. Additionally, the poor palatability of clindamycin may negatively impact medication compliance.
Certainty of evidence What is the overall certainty of the	e evidence of effects?	
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
 ∨ery low Low Moderate High No included studies 	Certainty of evidence for TMP-MPX and clindamycin following incision and drainage on clinical cure and three-month recurrence is low	
Values Is there important uncertainty about	out or variability in how much people value the main outco	mes?
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
 ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ○ Probably no important uncertainty or variability ○ No important uncertainty or variability ○ No important uncertainty or variability 		
Balance of effects Does the balance between desirab	ole and undesirable effects favor the intervention or the co	mparison?
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS

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·	Clinical cure versus all undesirable effects (adverse events)
Does not favor either the intervention or the comparisonProbably favors the	Probably favors the intervention of antibiotics
intervention o Favors the intervention	
O Varies O Don't know	

Resources required

How large are the resource requirements (costs)?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
 Large costs Moderate costs Negligible costs and savings Moderate savings Large savings Varies Don't know 	Cost is negligible	There is cost associated with antibiotics, but there are generic, inexpensive formulations of both TMP-SMX and clindamycin. According to the CM standard charges for 2022, self-pay costs per unit include: Clindamycin 150mg capsule – \$7.07 Clindamycin 300mg capsule - \$10.13 Clindamycin 75mg/5ml liquid - \$2.55 TMP 40mg, SMX 200mg/5ml liquid - \$2.64 TMP 80mg, SMX 400mg tablet - \$\$7.79

Certainty of evidence of required resources

What is the certainty of the evidence of resource requirements (costs)?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
 Very low Low Moderate High No included studies 	There is certainty in the required resources	

Cost effectiveness

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Does the cost-effectiveness of the	intervention favor the intervention or the comparison?			
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		
 Favors the comparison Probably favors the comparison Does not favor either the intervention or the comparison Probably favors the intervention Favors the intervention Varies No included studies 	Cost favors the intervention	While cost is associated with the antibiotic prescription, it is negligible compared to the cost of treatment failure (repeat clinic or ED visit, readmission, and/or repeat incision and drainage).		
Equity What would be the impact on heal	th equity?			
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		
 Reduced Probably reduced Probably no impact Probably increased Increased Varies Don't know 	The cost of medication without insurance could impact subgroup populations. Subgroups may have less reliable transportation to a pharmacy. Subgroups may also have language or literacy barriers that impact the efficacy of prescription instructions.	Please see standard costs above.		
Acceptability Is the intervention acceptable to k	ey stakeholders?			
JUDGEMENT RESEARCH EVIDENCE		ADDITIONAL CONSIDERATIONS		
 No Probably no Probably yes Yes Varies Don't know 	Families and clinicians are likely to accept the intervention.			

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Is the intervention feasible to implement?

JUDGEMENT RESEARCH EVIDENCE ADDITIONAL CONSIDERATIONS

O No
O Probably no
O Probably yes
O Yes
O Varies

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SUMMARY OF JUDGEMENTS

Don't know

SOMMAN OF JODGEME									
	JUDGEMENT								
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know		
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know		
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know		
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies		
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability					
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know		

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No

No

JUDGEMENT Negligible **RESOURCES** Moderate costs and Don't know Large costs Moderate costs Large savings Varies savings REQUIRED savings **CERTAINTY OF EVIDENCE OF** No included Very low Low Moderate High studies **REQUIRED RESOURCES** Does not favor Probably COST Favors the either the Probably favors Favors the No included favors the Varies comparison intervention or the intervention intervention studies **EFFECTIVENESS** comparison the comparison Probably Probably no **Probably** Don't know **EQUITY** Reduced Increased **Varies** increased reduced impact

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Don't know

Don't know

Varies

Varies

TYPE OF RECOMMENDATION

ACCEPTABILITY

FEASIBILITY

Strong recommendation against the intervention	Conditional recommendation against the intervention	Conditional recommendation for either the intervention or the comparison	Conditional recommendation for the intervention	Strong recommendation for the intervention
0	0	0	•	0

Probably yes

Probably yes

Yes

Yes

Probably no

Probably no

CONCLUSIONS

Recommendation

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A conditional recommendation is made for the use of antibiotics for abscesses, based on the GRADE Evidence to Decision instrument the Summary of Findings Table. The overall certainty in the evidence is low to very low. In pediatric patients, the use of antibiotics **following incision and drainage** was favorable for cure rate versus placebo. There is little evidence for or against antibiotics **following incision and drainage** for abscesses **<2cm**. (see Summary by Outcome for substantiation of recommendations).

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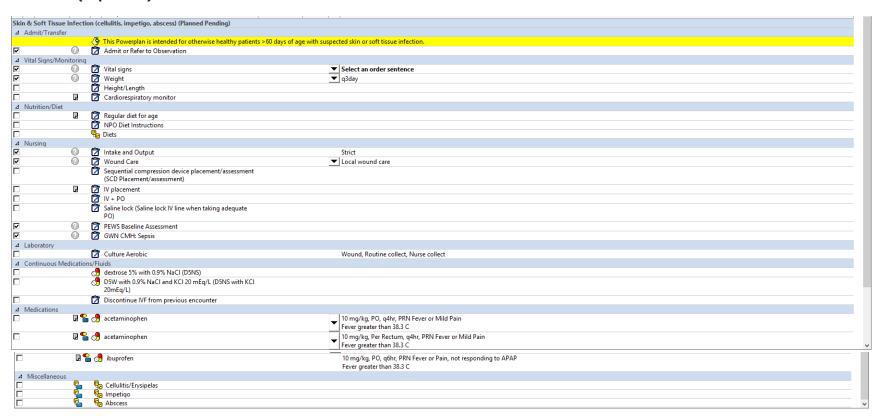
The SSTI CPG Subcommittee discussed additional considerations using the GRADE Evidence to Decision instrument^a found in the appendix to recommend antibiotic therapy for abscess following incision and drainage at Children's Mercy based on feasibility, value, and compliance for all stakeholders.

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Appendix B

Order Set (Inpatient)



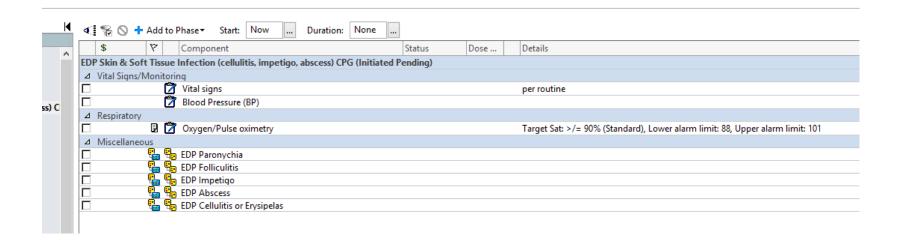
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& s	77	Component	Status	Dose	Details
		(cellulitis, impetigo, abscess), Cellulitis/Erysipelas (Planne			·
△ Medications					
		🥦 cephalexin (cephalexin 250 mg/5 mL oral liquid)			7 mg/kg, PO, TiD, Skin & Soft Tissue, 5, day(s) Max dose 500 mg
	(gephalexin (cephalexin 500 mg oral capsule)			500 mg, PO, TID, Skin & Soft Tissue, 5, day(s)
	🖫 备 (gerazolin gerazolin			33 mg/kg, IV, q8hr, Skin & Soft Tissue, 5, day(s)
		×0			Max dose: 2 grams
_		If MRSA risk factors or history of severe cephalosporin all	ergy see CPG fo	r alternative	
	*	g clindamycin (clindamycin 75 mg/5 mL oral liquid)			Max dose 450 mg
		glindamycin (clindamycin 150 mg oral capsule)		•	▼ 150 mg, PO, TID, Skin & Soft Tissue, 5, day(s)
	*	🐧 clindamycin (clindamycin injectable)		•	10 mg/kg, IV, q6hr, Skin & Soft Tissue, 5, day(s) Max dose: 600 mg
8 %	17	Component	Status	Dose	Details
Skin & Soft Tissu	ie Infection	(cellulitis, impetigo, abscess), Impetigo (Planned Pending)		
△ Medications					
		🦪 cephalexin (cephalexin 250 mg/5 mL oral liquid)			T7 mg/kg, PO, TID, Skin & Soft Tissue, 7, day(s) Max dose 500 mg
		🞐 cephalexin (cephalexin 500 mg oral capsule)		•	Select an order sentence
	P 🔓	ser e FAZolin		-	■ 33 mg/kg, IV, q8hr, Skin & Soft Tissue, 7, day(s) ■ Max dose: 2 grams
		If MRSA risk factors or history of severe cephalosporin al	lergy see CPG fo	or alternative	therapy.
	C	タ clindamycin (clindamycin 75 mg/5 mL oral liquid)			▼ 10 mg/kg, PO, TID, Skin & Soft Tissue, 7, day(s)
		🞐 clindamycin (clindamycin 150 mg oral capsule)		•	▼ 150 mg, PO, TID, Skin & Soft Tissue, 7, day(s)
		g sulfamethoxazole/trimethoprim (sulfamethoxazole/trimethoprim 200 mg-40 mg/5 mL			S mg/kg (trimethoprim content), PO, BID, Skin & Soft Tissue, 7, day(s) Max dose: 160 mg TMP
		sulfamethoxazole/trimethoprim (sulfamethoxazole/trimethoprim 800 mg-160 mg oral			Select an order sentence
		🐧 clindamycin (clindamycin injectable)			■ 10 mg/kg, IV, q6hr, Skin & Soft Tissue, 5, day(s) ■ Max dose 600 mg
. د . پرمہ	CART.	Juliporione in the control of the point	us 100.	ac D	- Cours
		(cellulitis, impetigo, abscess), Abscess (Planned Pending)			
△ Nursing					
	2	Warm Compress		P	RN, 4 times a day
△ Medications					
	6 0	clindamycin (clindamycin 75 mg/5 mL oral liquid)			0 mg/kg, PO, TID, Skin & Soft Tissue, 5, day(s) Max Dose: 450 mg
	og g	clindamycin (clindamycin 150 mg oral capsule)		▼ 1	50 mg, PO, TID, Skin & Soft Tissue, 5, day(s)
		sulfamethoxazole/trimethoprim (sulfamethoxazole/trimethoprim 200 mg-40 mg/5 mL		▼ S	elect an order sentence
		sulfamethoxazole/trimethoprim (sulfamethoxazole/trimethoprim 800 mg-160 mg oral		1	60 mg (trimethoprim content), PO, BID, Skin & Soft Tissue, 5, day(s)
П	%	clindamycin (clindamycin injectable)		1	0 mg/kg, IV, q6hr, Skin & Soft Tissue, 5, day(s)
_				 ▼ N	Max dose 600 mg

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Order Set (ED and Outpatient)



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Date	Finalized:	4/06	/2022
Date	i iiiaiizca.	7/00	/ 2022

Nursing	-	1	
		ED/UCC Laceration/I&D Setup (Laceration/I&D Setup)	scapel at bedside, Laceration tray
Laboratory			
		Culture Aerobic	Tissue
Medication	ns		
Topicals			
,	- 🛭 💆		1 application, Topical, Cream, Unscheduled, Needle Sticks
	💆		1 mL, Topical, Gel, 1 time only
	🛭 🖑	lidocaine/tetracaine topical (Synera)	1 patch, Transdermal, Unscheduled, PRN Needle Sticks
			To intact skin for 30 minutes prior to procedure, then remove
	್ರೌ	bacitracin topical	1 application, Topical, 1 time only
			Apply to affected area
Prescriptio			
		No Cellulitis or Erysipelas	
		mupirocin topical (mupirocin 2% topical ointment)	1 application, Topical, TID, To open areas as directed., x 5 day(s), # 22 gm
		Cellulitis or Erysipelas	
		cephalexin (cephalexin 250 mg/5 mL oral liquid)	▼ 17 mg/kg, PO, TID, x 5 day(s)
		cephalexin (cephalexin 250 mg oral capsule)	250 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
	₩.	cephalexin (cephalexin 500 mg oral capsule)	500 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
	6 7	amoxicillin-clavulanate (amoxicillin-clavulanate 400 mg-57 mg/5 mL oral liquid)	22.5 mg/kg, PO, BID, x 5 day(s), mL
]	□•	amoxicillin-clavulanate (amoxicillin-clavulanate 875 mg-125 mg oral tablet)	875 mg = 1 tablet, PO, BID, Dose expressed in amoxicillin, x 5 day(s), # 10 table
]	~	clindamycin (clindamycin 75 mg/5 mL oral liquid)	▼ 10 mg/kg, PO, TID, x 5 day(s)
1	T ,		▼ 150 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule

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;	\$	7	Component	Status	Dose	Details
EDP 9	Skin & Soft	Tissue	Infection (cellulitis, impetigo, abscess) CPG, EDP Fol	liculitis (Initiate	ed Pending)	
⊿ N	Medications					
			No Cellulitis or Erysipelas			
		₩.	mupirocin topical (mupirocin 2% topical ointment)			1 application, Topical, TID, To open areas as directed., x 5 day(s), # 22 gm
			Cellulitis or Erysipelas			
		%	cephalexin (cephalexin 250 mg/5 mL oral liquid)			▼ 17 mg/kg, PO, TID, x 5 day(s)
			cephalexin (cephalexin 250 mg oral capsule)			250 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
		₫.				500 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
		% 🖫	amoxicillin-clavulanate (amoxicillin-clavulanate 400 mg-57 mg/5 mL oral liquid)			22.5 mg/kg, PO, BID, x 5 day(s), mL
		□•	amoxicillin-clavulanate (amoxicillin-clavulanate 875 mg-125 mg oral tablet)			875 mg = 1 tablet, PO, BID, Dose expressed in amoxicillin, x 5 day(s), # 10 tablet
		%	clindamycin (clindamycin 75 mg/5 mL oral liquid)			▼ 10 mg/kg, PO, TID, x 5 day(s)
		₩.	clindamycin (clindamycin 150 mg oral capsule)			▼ 150 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
R	Return to ED	P Skin _S	Soft Tissue Infection (cellulitis, impetigo, abscess) CPG			
	\$	₽	Component	Status	Dose	Netails .
FDI	\$ P Skin & Sot	₽ ft Tissue	Component	Status	Dose	Details
	P Skin & So	ft Tissue	Component Infection (cellulitis, impetigo, abscess) CPG, EDP Imp			Details
	<u> </u>	ft Tissue	<u> </u>			Details 10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg
	P Skin & So	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp			■ 10 mg/kg, IV, 1 time only, Skin & Soft Tissue
□	P Skin & So	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp clindamycin (clindamycin injectable) ceFAZolin			10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg 33 mg/kg, IV, 1 time only, Skin & Soft Tissue
□	P Skin & Sol Medication	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions	etigo (Initiated		10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg 33 mg/kg, IV, 1 time only, Skin & Soft Tissue
□	P Skin & Sol Medication	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment	etigo (Initiated		10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg 33 mg/kg, IV, 1 time only, Skin & Soft Tissue
	P Skin & Sol Medication	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions	etigo (Initiated		■ 10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg 33 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 2000 mg
	P Skin & Sol Medication	ft Tissue	e Infection (cellulitis, impetigo, abscess) CPG, EDP Imp clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment	etigo (Initiated		■ 10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg ■ 33 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 2000 mg 1 application, Topical, TID, To open areas as directed., x 5 day(s), # 22 gm 17 mg/kg, PO, TID, x 7 day(s) Max dose 500 mg
	P Skin & Sol Medication	ft Tissue	clindamycin (clindamycin injectable) clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions cephalexin (cephalexin 250 mg/5 mL oral liquid) cephalexin (cephalexin 250 mg oral capsule)	etigo (Initiated		■ 10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg ■ 33 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 2000 mg 1 application, Topical, TID, To open areas as directed., x 5 day(s), # 22 gm ■ 17 mg/kg, PO, TID, x 7 day(s)
	P Skin & Sol Medication	ft Tissue	clindamycin (clindamycin injectable) clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule)	etigo (Initiated		
	P Skin & Sol Medication	ft Tissue	clindamycin (clindamycin injectable) clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions cephalexin (cephalexin 250 mg/5 mL oral liquid) cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule) clindamycin (clindamycin 75 mg/5 mL oral liquid)	etigo (Initiated		
	P Skin & Sol Medication	ft Tissue	clindamycin (clindamycin injectable) clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule)	etigo (Initiated		
	P Skin & Soi Medication	ft Tissue	clindamycin (clindamycin injectable) clindamycin (clindamycin injectable) ceFAZolin Less than 5 lesions mupirocin topical (mupirocin 2% topical ointment) Greater than or equal to 5 lesions cephalexin (cephalexin 250 mg/5 mL oral liquid) cephalexin (cephalexin 250 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule) cephalexin (cephalexin 500 mg oral capsule) clindamycin (clindamycin 75 mg/5 mL oral liquid)	etigo (Initiated		

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ractice	Date Finalized: 4/06/2022

△ Nursing		
	ED/UCC Laceration/I&D Setup (Laceration/I&D Setup)	scapel at bedside, Laceration tray
	Dressing application	Gauze dressing to site after procedure
	Packing Nugauze Plain 1/4 Inch (Nugauze Plain 1/4 Inch Packing)	
	Packing Nugauze Plain 1/2 Inch (Nugauze Plain 1/2 Inch Packing)	
	Packing Nugauze lodoform 1/4 lnch (Nugauze lodoform 1/4 lnch Packing)	
	Packing Nugauze lodoform 1/2 lnch (Nugauze lodoform 1/2 lnch Packing)	
△ Consults/Th	nerapy	
	Consult to Child Life	Urgent, Reason for consult: Procedure support
	Consult to Surgery	
	Consult to Gynecology	
△ Laboratory		
	Culture Aerobic	Abscess Site
△ Radiology		
	US Abdomen Limited	T;N Urgent, Abscess
	US Breast Left	T;N Urgent, Abscess
	才 US Breast Right	T;N Urgent, Abscess
	🕜 US Chest	T;N Urgent, Abscess
	US Head/Neck Soft Tissue	T;N Urgent, Abscess
	US Pelvis Non-OB Limited	
	US UE Non-Vascular Limited Bilat	T;N Urgent, Abscess
	US UE Non-Vascular Limited Left	T;N Urgent, Abscess
	US UE Non-Vascular Limited Right	T;N Urgent, Abscess
_	1 USTE Non-Vascular Limited Rilat	T-N Urgent Abscess

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	US LE Non-Vascular Limited Left	T;N Urgent, Abscess
	US LE Non-Vascular Limited Right	T;N Urgent, Abscess
⊿ Medio	cations	
	🔓 🔥 clindamycin (clindamycin injectable)	10 mg/kg, IV, 1 time only
Topic	als	
	Iidocaine topical (AneCream 4% topical cream)	1 application, Topical, Cream, Unscheduled, Needle Sticks
	epinephrine/lidocaine/tetracaine topical (LET Gel)	1 mL, Topical, Gel, 1 time only
	Iidocaine/tetracaine topical (Synera)	1 patch, Transdermal, Unscheduled, PRN Needle Sticks
		To intact skin for 30 minutes prior to procedure, then remove
	🔥 bacitracin topical	1 application, Topical, 1 time only
		Apply to affected area
Prescr	ription	
	😘 🖫 clindamycin (clindamycin 75 mg/5 mL oral liquid)	▼ 10 mg/kg, PO, TID, x 5 day(s)
	: clindamycin (clindamycin 150 mg oral capsule)	150 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
	sulfamethoxazole/trimethoprim	5 mg/kg, PO, BID, Dose expressed in trimethoprim, x 5 day(s)
	(sulfamethoxazole/trimethoprim 200 mg-40 mg/5 mL	Max dose 160 mg TMP/dose
	sulfamethoxazole/trimethoprim	80 mg = 1 tablet, PO, BID, Dose expressed in trimethoprim, x 5 day(s), # 10 tablet
	(sulfamethoxazole/trimethoprim 400 mg-80 mg oral t	
	mupirocin topical (mupirocin 2% topical ointment)	1 application, Topical, BID, To open areas as directed., # 22 gm
- D-1	n to EDP Skin Soft Tissue Infection (cellulitis, impetigo, abscess) CPG	

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	\$	Y		Component	Status	Dose	Details
EDI	P Skin & Sof	t Tissue	Inf	ection (cellulitis, impetigo, abscess) CPG, EDP Cellulitis	or Erysipelas (In	nitiated Pe	nding)
Δ	Nursing						
				ED/UCC Laceration/I&D Setup (Laceration/I&D Setup)			
] 69	Ż	IV placement			
Δ	Laboratory						
				Culture Aerobic			
⊿	Medications	5	_				
			ಿ	clindamycin (clindamycin injectable)			10 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 600 mg
		3 🖺	og o	ceFAZolin			■ 33 mg/kg, IV, 1 time only, Skin & Soft Tissue Max dose 2000 mg
	Topicals		_				
		₽	್ತಿ	lidocaine topical (AneCream 4% topical cream)			1 application, Topical, Cream, Unscheduled, Needle Sticks
			್ತ್ರಿ	epinephrine/lidocaine/tetracaine topical (LET Gel)			1 mL, Topical, Gel, 1 time only
		⊞ _P	ಿ	lidocaine/tetracaine topical (Synera)			1 patch, Transdermal, Unscheduled, PRN Needle Sticks To intact skin for 30 minutes prior to procedure, then remove
			ಿ	bacitracin topical			1 application, Topical, 1 time only Apply to affected area
] 63	ಿ	lidocaine/sodium bicarbonate (buffered lidocaine 0.9% in J-Tip)			0.2 mL, Intradermal, Injection, Unscheduled, PRN Needle Sticks, 1 dose(s)
	Prescription						
			□•	cephalexin (cephalexin 250 mg/5 mL oral liquid)			17 mg/kg, PO, TID, x 5 day(s) Max dose 500 mg/dose 17 mg/kg, PO, TID, x 5 day(s)
			□•	cephalexin (cephalexin 250 mg oral capsule)			250 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
			₫.	cephalexin (cephalexin 500 mg oral capsule)			500 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
			□•	amoxicillin-clavulanate (amoxicillin-clavulanate 400 mg-57 mg/5 mL oral liquid)			12.5 mg/kg, PO, BID, x 5 day(s), mL
			□e	amoxicillin-clavulanate (amoxicillin-clavulanate 875 mg-125 mg oral tablet)			875 mg = 1 tablet, PO, BID, Dose expressed in amoxicillin, x 5 day(s), # 10 tablet
_	Details						
				mg-125 mg oral tablet)			
		~		🛅 clindamycin (clindamycin 75 mg/5 mL oral li	iquid)		▼ 10 mg/kg, PO, TID, x 5 day(s)
				e clindamycin (clindamycin 150 mg oral capsu			▼ 150 mg = 1 capsule, PO, TID, x 5 day(s), Dispense= 15 capsule
F	_		_				135 mg = 1 capsule, 1 o, 110, x 5 day(s), pispense= 15 capsule
	Return to	FUb 2	cin '	Soft Tissue Infection (cellulitis impetion abscess)	CPG		

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