Date Finalized: October 2024

### **Sexually Transmitted Infections Clinical Pathway Synopsis**

#### STI Screening & Testing Algorithm

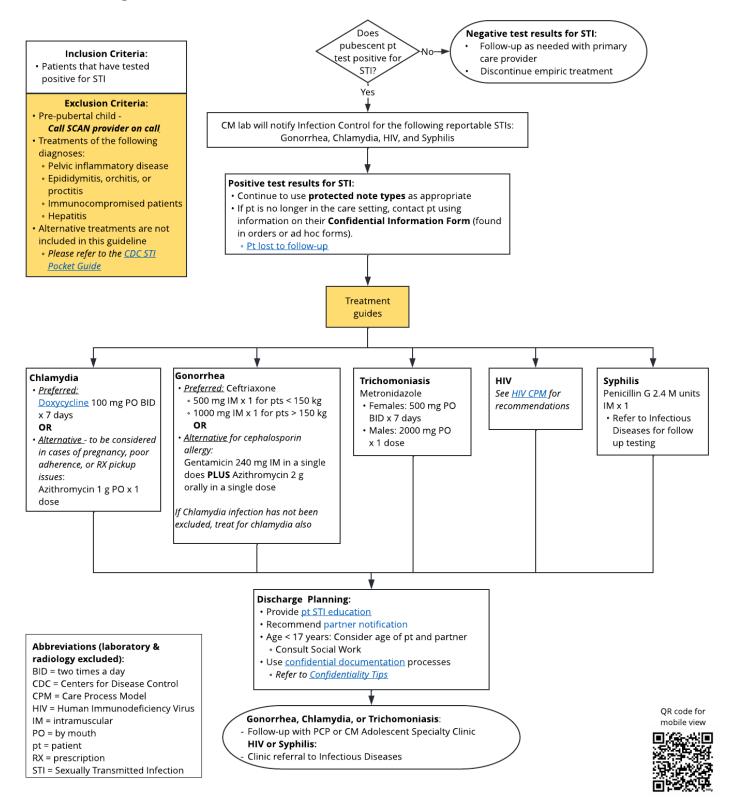
#### Inclusion Criteria: Evaluate symptoms and/or risk factors STI Signs & Symptoms: Signs and symptoms of STI to determine need for STI testing in pubescent patient · Risk factors for STI Private, confidential screening and documentation is recommended Vaginal pruritus · Patients that request STI testing **Optional Screening questions** Vaginal discharge **Exclusion Criteria:** · Inter-menstrual bleeding or menorrhagia · Pre-pubertal child Call SCAN provider on call Pt presents with Dysuria · Treatments of the following: signs/symptoms of STI Urinary urgency/frequency • Genital lesions - <u>Genital Lesions CPM</u> Pelvic inflammatory disease **OR** asymptomatic with · Epididymitis, orchitis, or proctitis · Abdominal/pelvic pain with no STI risk factors Immunocompromised patients alternate diagnosis Hepatitis Cervical motion tenderness OR requests STI testing · Alternative treatments are not Male included in this guideline Urethral discharge · Refer to the CDC STI Pocket Guide · Unilateral testicular pain/swelling **STI Testing** refer to Confidentiality Tips Dysuria Urinary urgency/frequency 1. Obtain verbal permission for testing from pt or caregiver **Special Considerations:** 2. If confidential testing is requested: Painful ejaculation (consult Social Work for the following Genital lesions · Use confidential order set scenarios) · Use protected provider note STI Risk Factors: · Concern for abuse/assault • Complete Confidential Information Form (found in orders or ad hoc) · History of sexual activity · Concern for human trafficking Title X Sites should follow site-specific processes Sexual assault · If pt age is < 17 years consider STI testing is not routinely performed in the urgent care clinic should follow Known or recent STI exposure age of partner steps below if testing is completed Concern for pregnancy · Patient has developmental delay · Concern for drug or alcohol use Patient with known pregnancy Male **Female** TESTING\* TESTING\* \*Considerations for PCR by First Catch Urine · Gonorrhea and Chlamydia • Gonorrhea and Chlamydia additional test sampling: No void during previous PCR by either provider **OR** self-collected PCR by first catch urine · If testing for Gonorrhea hour Trichomoniasis (symptomatic only) vaginal swab OR first catch urine and Chlamydia, test also No genital cleaning PCR by first catch urine • Trichomoniasis (symptomatic only) for Trichomoniasis due to · 20-30 mL sample: <u>do not</u> HIV PCR by provider collected vaginal swab high prevalence in metro overfill Antigen/Antibody Screen (blood) **OR** first catch urine • DO NOT order as add-on area Syphilis HIV · Throat swab: Pharyngitis unless appropriate Algorithm with reflex to RPR (blood) Antigen/Antibody Screen (blood) sample confirmed by lab with sexual risk factors Syphilis Anal/rectal swab: Sexual Algorithm with reflex to RPR (blood) risk factors (e.g., MSM) **Emergency Contraception CPM** Abbreviations (laboratory & radiology excluded): CPM = Care Process Model MSM = men having sex with men · Determine if empiric treatment is indicated while PCR = polymerase chain reaction awaiting results Are results pt = patient If empiric treatment is NOT provided, must available before RPR = rapid plasma reagin ensure Confidential Information Form is discharge? STI = sexually transmitted infection completed (found in orders or ad hoc) AND that pt has access to care Yes Utilize setting-specific procedure for follow-up of QR code for pending labs Complete treatment as indicated · Pt lost to follow-up Provide patient STI education Complete confidential documentation Provide condoms if supply is available Follow-up with specified healthcare provider STI treatment

<sup>\*</sup> These quidelines do not establish a standard of care to be followed in every case. It is recognized that each case is different, and those individuals involved in providing health care are expected to use their judgment in determining what is in the best interests of the patient based on the circumstances existing at the time. It is impossible to anticipate all possible situations that may exist and to prepare guidelines for each. Accordingly, these guidelines should guide care with the understanding that departures from them may be required at times.

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#### **STI Treatment Algorithm**



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#### **Guideline Objective**

To provide care standards for the pubescent patient to support sexual health from screening to testing to intervention. This pathway will provide guidance to care providers through ambulatory and inpatient settings.

#### **Background**

Sexually transmitted diseases (STDs), or sexually transmitted infections (STIs), affect people of all ages, though trends suggest increased impact among adolescents (CDC, 2021). Of 26 million newly recorded cases of STIs occurring in the United States in 2018, nearly half (46%) were found to impact individuals between the ages of 15-24 (CDC, 2021). While many STIs are considered easily treated and curable if detected early, many adolescents are not seeking and, therefore, not receiving the high-quality sexual health care needed (Hogben & Leichliter, 2008; Miller et al., 2011; Wilson & Klein, 2000). Addressing adolescent sexual health care is vital to preventing STIs and complications from infections occurring in this population (Miller et al., 2019). To address adolescent sexual health care, factors to consider are provider and system-level barriers such as access to care, economic barriers, and geographical barriers (Miller et al., 2019). These factors contribute to the increased incidence of STIs among adolescents (Miller et al., 2019). Furthermore, a breakdown in early detection, diagnosis, and treatment of STIs can result in severe consequences for adolescents, which include chronic abdominal pain, infertility, or premature births (Howe, 2021). The STI Clinical Practice Guideline (CPG) serves to bridge the gap between addressing the concern of rising STI incidence among adolescents and intervention.

#### **Definition**

The CDC (2021) defines sexually transmitted infection (STI) as a pathogen that causes infection through sexual contact' and sexually transmitted disease (STD) as a disease state that developed because of an infection.'

#### **Target Users**

- Physicians (Ambulatory, Urgent Care, Emergency Department, Hospital Medicine, Fellows, Resident Physicians)
- Nurse Practitioners
- Nurses

### Target Population Guideline Inclusion Criteria

- Patients with signs and symptoms of STI
  - o Female
    - Vaginal pruritus
    - Vaginal discharge
    - Intermenstrual bleeding or menorrhagia
    - Dvsuria
    - Urinary urgency or frequency
    - Genital lesions
    - Abdominal or pelvic pain with no alternate diagnosis
    - Cervical motion tenderness
  - Male
    - Urethral discharge
    - Unilateral testicular pain or swelling
    - Dysuria
    - Urinary urgency or frequency
    - Painful eiaculation
    - Genital lesions
- Patients with risk factors for STI
  - History of sexual activity
  - Sexual assault
  - Known or recent STI exposure
  - Concern for pregnancy
  - Concern for drug or alcohol use
- Patient requests testing for STI

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#### Guideline Exclusion Criteria

- Pre-pubertal child
  - o Call the SCAN provider on call
- Treatments of the following diagnoses are excluded from this guideline
  - o Pelvic inflammatory disease
  - o Epididymitis, orchitis, or proctitis
  - o Immunocompromised patients
  - Hepatitis
- Alternative treatments are not included in this guideline
  - o Refer to the CDC STI Treatment Guidelines

#### Special Considerations for STI Screening and Testing

Consult Social Work for the following scenarios:

- Concern for abuse/neglect (consult Social Work)
- Concern for human trafficking
- Patient aged < 17 years: consider age of partner
- Patients with developmental delay
- Known pregnancy

#### **AGREE II**

The CDC national guideline on sexually transmitted infections treatment provided guidance to the Sexually Transmitted Infections Committee (Workowski et.al., 2021). See Table 1 for AGREE II.

Table 1

AGREE II<sup>a</sup> Summary for the CDC Sexually Transmitted Infections Treatment Guideline

Domain	Percent Agreement	Percent Justification <sup>^</sup>
Scope and purpose	100%	The aim of the guideline, the clinical questions posed, and target populations <b>were</b> identified.
Stakeholder involvement	75%	The appropriate stakeholders developed the guideline and represented the views of its intended users. However, there was no discussion in the text about specific views or preferences outside of treatment preference once STI/STD has been diagnosed.
Rigor of development	76%	The process used to gather and synthesize the evidence, except for inclusion/exclusion criteria, and the methods to formulate the recommendations <b>were</b> explicitly stated. The guideline developers <b>did not</b> provide a process for updating the guideline.
Clarity and presentation	89%	The guideline recommendations <b>are</b> clear, unambiguous, and easily identified. In addition, different management options are presented.
Applicability	68%	The guideline addressed barriers and facilitators to implementation, strategies to improve utilization and resource implications. It <b>did not</b> mention any auditing or monitoring criteria.
Editorial independence	100%	Competing interests did not bias the recommendations.
Committee's recommendation for guideline use	Yes	This guideline contains detailed information developed by a large number of professionals and supported by a diligent and systematic review of the literature. It includes an overarching scope and is intended to guide providers in global STI practice.

Note: Four EBP Scholars completed the AGREE II on this guideline.

#### **Practice Recommendations**

Please refer to the CDC's Sexually Transmitted Infections and Treatment (Workowski et al., 2021) Clinical Practice Guideline for full practice recommendations, evaluation, and treatment recommendations. No deviations were made

<sup>^</sup>Percentage justification is an interpretation based on the Children's Mercy EBP Department standards.

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from the CDC guidelines regarding practice recommendations, but logistical processes specific to Children's Mercy were added.

#### **Additional Questions Posed by the CPG Committee**

The Centers for Disease Control and Infection Prevention guideline provided guidance to the Sexually Transmitted Infection Clinical Practice Guideline Committee (See Table 1 for AGREE II). While Children's Mercy adopted most of these practice recommendations, the CDC guideline did not provide information on screening processes. With that in mind, the Children's Mercy STI CPG committee posed one additional question, leading to further clarifications in care:

1. In patients 14 – 21 years of age, does the use of a private screening questionnaire on a digital device versus an in-person provider interview increase the identification and/or treatment of sexually transmitted infections (STIs)?

#### **Children's Mercy Practice Recommendations and Reasoning**

Children's Mercy adopted the majority of the practice recommendations made by the CDC Clinical Practice Guideline. Additions include a conditional recommendation for the use of private STI screening via a digital device:

A **conditional recommendation** is made for the use of STI screening on a digital device based on expert opinion and a review of current literature by the subject matter experts and the Department of EBP. While only a limited number of studies of low quality were available to review the process of implementing private STI screening on a digital device, the report provides guidance and direction to the STI CPG committee to enhance processes across the hospital system as well as adolescent sexual healthcare.

#### Measures

- % of patients ≥ 14 years of age who undergo STI testing in each care setting (ED, Urgent Care, ambulatory clinics, inpatient General Pediatrics)
- % of patients who test positive for an STI who are provided with appropriate treatment and follow-up

#### **Potential Cost/Value Implications**

- Increased identification and treatment of STI
- Improved access to care for adolescents
- Decreased transmission of STI among adolescents
- Early identification of patients at risk for abuse
- Decreased unwarranted variation in care
- Decrease potential inequities in care based on gender, race, ethnicity, or sexual orientation

#### Potential Organizational Barriers and Facilitators Potential Barriers

- Challenges with follow-up faced by some patients and families
- Variability of screening processes among different care settings
- Variable knowledge of evidence-based recommendations among providers
- Challenges related to poor medication adherence by patients

#### Potential Facilitators

- Collaborative engagement across care continuum settings during CPG development
- High rate of use of CPG
- Standardized order set for Urgent Care Clinic, Emergency Department, Hospital Medicine, and Specialty Care Clinics
- Processes to maintain patient confidentiality
- Access to patient education materials
- Engagement with the Children's Mercy Teen Advisory Board

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#### **Power Plans**

- ED: EDP STI CPG
- Inpatient: Inpatient STI CPG
- Ambulatory:
  - o Teen Ambulatory STI and Title X
  - o Teen Ambulatory STI Positive
  - Ambulatory STI CPG

#### **Associated Policies**

• Treatment of Sexually Transmitted Infection

#### **Guideline Preparation**

This guideline was prepared by the Evidence Based Practice (EBP) Department in collaboration with the Sexually Transmitted Infections CPG Committee composed of content experts at Children's Mercy Kansas City. The development of this guideline supports the Quality Excellence and Safety initiative to promote care standardization 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.

#### Sexually Transmitted Infections CPG Committee Members and Representation

- Diane Petrie, FNP-BC, AAHIVS, CPN | Infectious Diseases | Committee Chair
- Amanda Nedved, MD | Urgent Care | Committee Member
- Neena Kanwar, PhD | Clinical Pathology | Committee Member
- Abbey Masonbrink, MD, MPH | Hospital Medicine | Committee Member
- Gladesia Tolbert, DNP, CPNP, PMHS | General Pediatrics TEEN Clinic | Committee Member
- Alaina Burns, PharmD, BCPPS | Pharmacy | Committee Member
- Rangaraj Selvarangan, BVSc, PhD, D(ABMM), FIDSA, F(AMM) | Committee Member
- Melissa A Smith, APRN | Emergency Medicine | Committee Member
- Katie Stangler, RN, MSN, APRN, CPNP, CCRN | Emergency Medicine | Committee Member
- Debbie Jaklevic, MSN, APRN, FNP-C, CPN | Adolescent Medicine | Committee Member

#### **Patient/Family Committee Member**

Teen Advisory Board | Committee Member

#### **MIT Committee Members**

- George Abraham, MD | Emergency Medicine, Medical Informatics
- Ashly Catalino | Medical Informatics Ambulatory
- Tammy Frank, RPh, CPHIMS | Medical Informatics Pharmacy
- Brandan Kennedy, MD | Hospital Medicine, Human Factors Collaborative, Medical Informatics
- Amber Lanning | Medical Informatics general inpatient
- Tracy Taylor | Medical Informatics ED, UCC

#### **EBP Committee Members**

- Kathleen Berg, MD, FAAP | Hospitalist, Evidence Based Practice
- Andrea Melanson, OTD, OTR/L | Evidence Based Practice

#### **Additional Review & Feedback**

- The CPG was presented to each division or department represented on the CPG committee as well as other appropriate stakeholders. Feedback was incorporated into the final product.
- An internal reviewer reviewed the CPG using the AGREE II instrument (see Appendix A).

#### **Implementation & Follow-Up**

- Power plans consistent with CPG recommendations were created for the ED/UCC and inpatient care settings; the outpatient care settings for TEEN and Adolescent Clinics power plans are in place and did not require any updates.
- Education was provided to all stakeholders:

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Nursing units where the STI CPG is used Emergency Department and Urgent Care Clinics Providers from TEEN, Adolescent Clinics, Infectious Diseases, and Hospital medicine Resident physicians Pharmacy and Clinical Pathology

- Additional institution-wide announcements were made via email, the hospital website, and relevant huddles.
- Metrics will be assessed and shared with appropriate care teams to determine if changes need to occur.

#### **Guideline Development Funding**

The development of this guideline was underwritten by the following departments/divisions: Infectious Adolescent Medicine, General Pediatrics—TEEN clinic, Infectious Diseases, Emergency Medicine, Urgent Care, Pharmacy, Clinical Pathology, and Evidence Based Practice.

#### **Approval Process**

This guideline was reviewed and approved by the STI CPG Committee, Content Expert Departments/Divisions, and the EBP Department, after which it was approved by the Medical Executive Committee. Guidelines are reviewed and updated as necessary every three years within the EBP Department at CMKC. Content expert teams are involved with every review and update.

**Approval Obtained** 

Department/Unit	Date Approved
Infectious Diseases	October 2022
Adolescent Medicine	November 2022
General Pediatrics – TEEN clinic	November 2022
Emergency Medicine	November 2022
Urgent Care	November 2022
Pharmacy	October 2022
Clinical Pathology	November 2022
Hospital Medicine	November 2022
Medical Executive Committee	

Version History

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Date	Comments
November 2022	Version one
October 2024	Version two: added confidentiality tips document to algorithms

#### **Date for Next Review**

November 2025

#### Disclaimer

When evidence is lacking or inconclusive, the guideline and the accompanying power plans provide care options.

These guidelines do not establish a standard of care to be followed in every case. It is recognized that each case is different, and those individuals involved in providing health care are expected to use their judgment to determine what is in the best interests of the patient based on the circumstances existing at the time.

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#### Appendix A: AGREE II Assessment for Children's Mercy Hospital's STI CPG

AGREE II Summary for this Clinical Practice Guideline\*

Domain	Percent Agreement	
Scope and purpose	98%	
Stakeholder involvement	98%	
Rigor of development	83%	
Clarity and presentation	100%	
Applicability	68%	
Editorial independence	78%	
Reviewer's recommendation for guideline use	Adopt the utilization of this guideline	

<sup>\*</sup>Note: This assessment reflects the views obtained from two internal clinicians.

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