

Medical Directive

Title:	Unco	ssment and Treatmer mplicated UTI in Non les 12 years of age a	-Pregnant	Assigned Number:	018
Activation	Date:	July 1, 2011		Review due by:	December 2025
Approval Signature & Date					
Medical Director: Date Reviewed: Feb 23, 2024					
Clinical Services Director: din Mangdenful Date Reviewed: Feb 23, 2024					
Order and/or Delegated Procedure: Appendix Attached: Yes No Title:					
Assessment for and treatment of Lower Uncomplicated Urinary Tract Infections in females 12 years old and older by Registered Nurses/ Registered Practical Nurses, in person.					
Recipient F	Patients): 	Appendix Att	ached: Xes No	
All active patients (female, 12 years old and older) of the Thames Valley Family Health Team who require assessment for and treatment of Lower Uncomplicated Urinary Tract Infections.					
Authorized	Impler	nenters:	Appendix Att	ached: X Yes No	
		nily Health Team Regist s implementer.	ered Nurses, a	nd Registered Practical I	Nurses (RN/RPN)*
implemente Treatment of medical dire electronical	r must hof Lower ective. The via Hill	nave completed orientati r Uncomplicated UTI in N The implementer must sig	on and educati Non-Pregnant F gn the Impleme essful completio	or with regards to the tas onal requirements of the Females 12 Years of Age enter Performance Readir on of the orientation (and	Assessment and and Older ness Form

Inc	lications:	Appendix Attached: ☐ Yes ☒ No Title: Appendix 17 - Assessment Tool UTI.
	and treat the Lower Uncomplicated UTI. Patient has one or more symptoms of lo	ower urinary tract infection (dysuria, frequency, urgency, lower any of these symptoms in addition to hematuria; or symptoms
<u>As</u>	sessment Tool: See Appendix 17- Asse	essment Tool UTI
Со	entraindications:	Appendix Attached: ☐ Yes ☒ No Title:
2.	medical directive. Patient is a Female under 12 years old, Patient has risk factors for complicated	
	nephrolithiasis, neurogenic blade catheter, recent urinary tract instead b. Renal insufficiency (eGFR or Crossisted for moderate of the description of the complex months or 3 or more in the past for the discretion of the implemente directive)	der, diabetes mellitus, immunosuppression, indwelling urinary trumentation) eatine Clearance less than 60 mL/min/1.73 m²) ore than 14 days robial-resistant organism(s) of UTI where the patient has had 2 or more UTIs in past 6 12 months a patient with two or more active diagnoses/conditions where, at r of the directive, is outside their comfort level in applying this
4.		oms of possible pyelonephritis or upper tract UTI: fever, chills, /flank pain, vomiting, significant fatigue or malaise beyond
	Patient has blood in urine in the absence urgency, suprapubic pain)	ee of other lower UTI symptoms (I.e., dysuria, frequency, er than 3 times the Upper Limit of Normal).
Fo imp	r patients referred to in #4-6 above, the polementer. The implementer then books to	patients' symptoms are reviewed and documented by the the patient for an urgent appointment with the physician and/or physician and/or nurse practitioner for further direction on
Со	nsent:	Appendix Attached: ☐ Yes ☒ No Title:
		der) of Thames Valley Family Health Team. t from patient or substitute decision maker prior to the

Guidelines for Implementing the Order/ Procedure:

Appendix Attached:		No
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Title: Appendix 18 - Order Treatment Table for Lower

Uncomplicated UTI

For assessment and treatment of patients who meet the Indications described above:

 The implementer assesses the patient for symptoms of Lower Uncomplicated UTI according to the new assessment tool located in Appendix 17

- Prior to prescribing, ensure that the patient has normal liver and kidney function (ALT, ALP, Bilirubin, eGFR, Creatinine). If there are no results on the chart over the past 12 months, the patient should be asked if they were ever told that they have abnormal kidney or liver function.
- Prior to prescribing an antibiotic, ensure that the patient is not taking any other medications that may
 interact with an antibiotic using an interaction checker such as LexiComp or Medscape
- The implementer assesses the patient for allergies to antibiotics and documents in the EMR any
 previously undocumented allergies. An antibiotic is prescribed as per the attached Order Treatment
 Table for Lower Uncomplicated UTI (Appendix 18), and a prescription is provided as per usual
 standard with the family physician or on-call physician's name on the prescription.
- The implementer instructs patient to increase or maintain sufficient fluid intake
- The implementer advises the patient that if symptoms do not resolve or worsen within 2 to 3 days to set up an appointment with the physician or call the implementer.
- The implementer sends urine sample for Culture and Sensitivity (C&S) as needed (e.g. Lower uncomplicated UTI within last 6-12 months, when prescribing 2nd line treatment, or when previous similar symptoms were accompanied with a positive urine culture or when deemed necessary.). Ensure that patient's provider is notified if C&S is ordered.
- If the patient is eligible to be treated under the directive but cannot tolerate or has contraindications to all the listed medications under this directive, the patient will be referred to the MD/NP.

References:

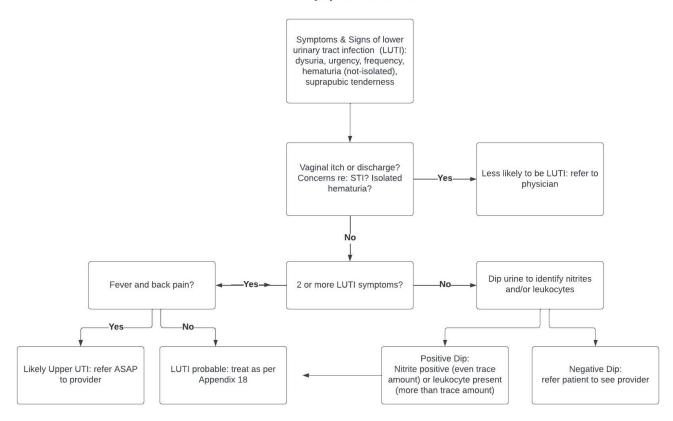
- <u>Mazzulli, T. Diagnosis and management of simple and complicated urinary tract infections (UTIs).</u>
 <u>The Canadian Journal of Urology. 2012;19(S1): 42-48.</u>
- Complicated Urinary Tract Infection (UTI). DynaMed. Accessed August 15, 2023.
- Uncomplicated Urinary Tract Infection (UTI) (Pyelonephritis and Cystitis). DynaMed. Accessed August 15, 2023.
- Bent S et. Does this woman have an acute uncomplicated urinary tract infection? JAMA. 2002;287(20):2701-2710
- Acute simple cystitis in women Up to Date. Accessed August 17, 2023.
- Is booking an urgent UTI appointment the best sign of a UTI?. Tools for Practice. Retrieved from Tools for Practice (gomainpro.ca) Accessed August 17, 2023.

Do	cumentation and Communication:	Appendix Attached: ☐ Yes ☐ No Title: Appendix 19 – Sample Prescription for Antibiotics
2.	name of the implementer (including cred the directive and patient. Information regarding implementation of documented in the patient's medical red	record needs to include the name and number of the directive, dential), and name of the physician/authorizer responsible for f the procedure and the patient's response should be cord, in accordance with standard documentation practice. ed for prescriptions, requisitions, and requests for consultation.
*	Potter, P.A. & Perry, A.G. (2006). Fundamentals of Nu Documentation	rsing. St. Louis: Mosby. College of Nurses of Ontario (2008). CNO Practice Standard:
	view and Quality Monitoring idelines:	Appendix Attached: ☐ Yes ☒ No Title:
1.		I unless amendment occurs. Review will occur biennially. In case d to change the Medical Directive, at least one TVFHT member
2.	At any such time that issues related to the concerns immediately by identifying	the use of this directive are identified, the team must act upon ig these concerns to the Medical Director. The Medical Director sult with at least one TVFHT member of the implementing
3.	If new information becomes available b	between routine renewals, and particularly if this new information mes, the directive will be reviewed by the Medical Director and a
Ар	proving Physician(s)/Authorizer(s):	Appendix Attached: ☐ Yes ☐ No Title:
Au	thorize Approval Form signed in HR Dow	



Appendix 17- Assessment Tool UTI

UTI Symptom Flow Chart





Appendix 18- Order Treatment Table for Lower Uncomplicated UTI in Non-Pregnant Females 12 years of age and older

TREATMENT TYPE	ORDER	NOTES
First Line	Nitrofurantoin: • nitrofurantoin monohydrate macrocrystals (MacroBID) 100mg BID for 5 days	Based on 2022 Lifelabs Walk-in Antibiogram for SWLHIN, and its effectiveness against Enterococcus (second most common UTI pathogen) "Nitrofurantoin should be avoided if there is suspicion for early pyelonephritis or if the creatinine clearance is <30 mL/minute. Observational studies have suggested that the agent is effective and safe with mild renal impairment, even in older women" (Acute simple cystitis in women - UpToDate). Creatinine clearance can be estimated by using the Cockcroft-Gault Equation and may be different than reported eGFR on laboratory results.
Second Line	Fosfomycin 3g ONCE – single dose	Fosfomycin is not indicated in patients under 18 years of age Oral powder: mix with 3 to 4 oz (90 to 120 mL) cool water before ingesting, do not administer in dry form or mix with hot water
	Trimethoprim/Sulfamethoxazole (TMP/SMX) 160/800 mg BID (i.e. 2 Single Strength tabs BID or 1 Double Strength (DS) tab BID for 3 days)	Caution: avoid TMP/SMX in patients taking an ACEi/ARB, especially in older adults (risk of hyperkalemia)
	Trimethoprim 100mg bid or 200mg once daily for 3 days	Caution: avoid TMP/SMX in patients taking an ACEi/ARB, especially in older adults (risk of hyperkalemia)

NOTE: if patient has been exposed to antibiotics within the past 3 months, consider 1) Delaying antimicrobial therapy while awaiting urine culture results with monitoring of worsening of symptoms, or 2) choosing treatment antibiotic that is different from the antibiotic previously exposed to minimize treatment failure due to bacterial resistance

Medical Directive 018 - Assessment & Treatment of Lower Uncomplicated UTI in Non-Pregnant Females 12 years of age and older

*adapted from Anti-infective Guidelines for Community-acquired Infections 2019 Ed., 2022 Lifelabs

References:

- 1. Ontario College of Pharmacists/Public Health Ontario (2022). Assessment and prescribing algorithm for uncomplicated urinary tract infection (cystitis) https://www.ocpinfo.com/wp-content/uploads/2022/12/assessment-prescribing-algorithm-urinary-tract-infection-english.pdf
- 2. Huttner A, Kowalczyk A, Turjeman A, et al. Effect of 5-Day Nitrofurantoin vs Single-Dose Fosfomycin on Clinical Resolution of Uncomplicated Lower Urinary Tract Infection in Women: A Randomized Clinical Trial. JAMA. 2018;319(17):1781–1789. doi:10.1001/jama.2018.3627
- 3. Urinary Tract Infection. In RxTx (Online). Canadian Pharmacists Association; revised April 12 2021. https://www.myrxtx.ca
- 4. LexiComp Online

Appendix 19 – Sample Prescription for Antibiotics and Lab Requisition

Recommended Format for a Prescription or Requisition Completed Pursuant to a Directive

Antibiotic Prescription

Medical Directive # 018

A prescription or requisition for laboratory specimen complete pursuant to a medical directive must include:

- Name and Number of the Directive
- Name of Authorizer
- Name and Signature of the Implementer

The following sample illustrates the recommended format for including this information. The format readily signifies to pharmacists that they have the proper order, permitting them to dispense the prescribed medication, in accordance with legislative and regulatory requirements. Should there be questions about the prescription the pharmacist would contact the implementer. If questions cannot be resolved the physician or authorizer would be contacted for clarification. The physician or authorizer is recorded as the prescriber. Where requested a copy of the medical directive can be forwarded to the pharmacist. The sample prescription is appended to the directive.

The same convention would apply to requisitions received by medical laboratory technicians that are completed pursuant to a directive.

Dr. J.D. Authorizer, MD, CCFP.
Thames Valley Family Health Team
6-1385 North Routledge Park, London ON
N6H 5N5
519-473-0530

Date: March 1, 2010

Patient: Christa Jones, 100 Main Street, London

Macrobid 100mg PO BID for 5 days Indication: Urinary tract infection

(Signature)

Dr. J.D. Authorizer, MD, CCFP /Jane Smith RN (Jane Smith RN, TVFHT 018)

Medical Directive Available at: https://thamesvalleyfht.ca/medical-directives

Ontario Ministry of Health and Long-Term Care Laboratory Regulation Regulation Regulation (Practioner Address	Laboratory Use Only	
Clinician/Practitioner Number CPSO / Registration No. Check (_v') one: OHIP Insured Third Party / Uninsured WSIB Additional Clinical Information (e.g. diagnosis)	Clinicien/Practitioner's Contact Number for Urgent F () Health Number Province Other Provincial Registration Number Patient's Last Name (as per Orbit? Card)	leaults yyyy Service Date and dd ion Sex yyyy Date of Birth mxn dd ion M F yyyy Date of Birth mxn dd ion M Facient's Telephone Contact Number
Copy to: Clinician/Practitioner First Name Address Note: Separate requisitions are required for cytology, h	Patient's First & Middle Names (as per OHIP Card) Patient's Address (including Postal Code) Istology / pathology and tests performed by i	Public Health Laboratory
x Biochemistry	x Hematology	x Viral Hepatitis (check one only)
Glucose Random Fasting	CBC	Acute Hepatitis
HbA1C	Prothrombin Time (INR)	Chronic Hepatitis
Creatinine (eGFR)	Immunology	Immune Status / Previous Exposure
Uric Acid	Pregnancy Test (Urine)	Specify: Hepatitis A
Sodum		Hepatitis B
	Mononucleosis Screen	Hepatitis C
Potassium	Rubella	or order individual hepatitis tests in the
ALT Alt. Phospholase	Rubella Prenatal: ABO, RhD, Antibody Screen (Stre and ident. if positive)	or order individual hepatitis tests in the "Other Tests" section below Prostate Specific Antigen (PSA)
ALT	Prenatal: ABO, RhD, Antibody Screen	"Other Tests" section below Prostate Specific Antigen (PSA)
ALT Alk. Phosphatase	Prenatal: ABO, RhD, Antibody Screen (litre and ident. if positive) Repeat Prenatal Antibodies Microbiology ID & Sensitivities	*Other Tests' section below Prostate Specific Antigen (PSA) Total PSA Free PSA Specify one below:
ALT Als. Phosphetase Bilirubin Albumin Lipid Assessment (includes Cholesterol, HDL-C, Triglycerides.	Prenatal: ABO, RhD, Antibody Screen (litre and ident. if positive) Repeat Prenatal Antibodies Microbiology ID & Sensitivities (if warranted)	*Other Tests' section below Prostate Specific Antigen (PSA) Total PSA Free PSA Specify one below: Insured – Meets OHIP eligibility criteria
ALT Alk. Phosphatase Bilingbin Albumin Lipid Assessment (includes Cholesterol, HDL-C, Triglycorides, calculated LDL-C & Chol+DL-C ratio; individual lipid tests me	Prenatal: ABO, RhD, Antibody Screen (litre and ident. if positive) Repeat Prenatal Antibodies Microbiology ID & Sensitivities (if warranted)	"Other Tests" section below Prostate Specific Antigen (PSA) Total PSA Free PSA Specify one below: Insured – Meets OHIP eligibility criteria Uninsured – Screening: Patient responsible for payment.
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