

**Regional Order Set**  
**Adult Febrile Neutropenia**  
**Admission Orders**

Last Name:			
First Name (Preferred Name):			
Encounter number:	NH Number:	Chart Created: Y/N	
Date of Birth:	Gender:	Age:	Encounter Type:
Responsibility for Payment:		PHN:	
Primary Care Physician/Attending Physician:			

PATIENT LABEL

<b>Allergies:</b> <input type="checkbox"/> None known <input type="checkbox"/> Unable to obtain List with reactions: _____	<b>Weight:</b> _____ kg <b>Height:</b> _____ cm
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**INCLUSION CRITERIA:**

- temperature 38°C or higher **\*PLUS\***
- ANC less than 1 X 10<sup>9</sup>/L **\*AND\***
- meets one or more of high risk factors requiring admission (see page 3 for high and low risk factors)

**1. ADMIT/TRANSFER/DISCHARGE**

Admit to: \_\_\_\_\_ (MRP)  
 BC Cancer patient?  yes  no  
 If yes: BC Cancer registration #: \_\_\_\_\_ (available from oncologist consults via eHealth viewer)  
 • notify GP oncologist/oncologist (non-urgent)  
 Note: BC Centre for the North oncologist can be contacted Monday to Friday 0830 to 1630 at 250-645-7328

**2. DIAGNOSIS**

Suspected infection source:     mouth/throat     skin and soft tissue  
     respiratory         peri-anal/rectal  
     abdominal         other: \_\_\_\_\_

**3. CODE STATUS**

- complete **10-111-5171 Medical Orders for Scope of Treatment (MOST)**

**4. CONSULTS/REFERRALS:**  Infectious Diseases Specialist     Clinical Pharmacist

**5. ACTIVITY:**  as tolerated     other: \_\_\_\_\_

**6. DIET/NUTRITION:**  as tolerated     NPO     other: \_\_\_\_\_

**7. IV FLUIDS:**  saline lock     \_\_\_\_\_ at \_\_\_\_\_ mL/hour. Reassess in \_\_\_\_\_ hours.

**8. LABORATORY**

**STAT Microbiology:** (if not already done)

- blood cultures from 2 different sites prior to first dose of antibiotics  
(draw from central venous catheter if present; draw from each lumen; label which culture came from which lumen)
- urinalysis with culture (if indicated)

resp panel NAT swab – notify lab that patient is being admitted  
 other culture: \_\_\_\_\_

**STAT Laboratory:** (if not already done)

- CBC w/Diff
- E7 (Na, K, Cl, CO<sub>2</sub>, Cre, urea, Glu)
- Ca, Mg, PO<sub>4</sub>
- C-reactive protein
- serum lactate
- LDH, GGT, ALP, AST, ALT
- venous blood gases
- total bilirubin

*Then once daily X 3 days (MRP to reassess):*

- CBC w/Diff
- creatinine

**9. DIAGNOSTIC TESTS**

chest X-ray  
 abdominal X-ray series  
 other: \_\_\_\_\_

**Prescriber signature:** \_\_\_\_\_ **College ID:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

10-111-5100 (IND - NHTC/RDP/VPM - Rev. - 03/22) Review by December 31, 2025

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**10. MONITORING**

- temp, heart rate, RR, blood pressure, and SpO<sub>2</sub> q1h X 6 hours from initial assessment then MRP to reassess

**11. PATIENT CARE**

- notify MRP immediately once CBC and ANC results available
- notify MRP if:
  - SBP less than 90 mmHg
  - SpO<sub>2</sub> less than 90% on room air
  - temperature greater than 38°C after initial 24 hours
- initiate **1-11-1-3-700 Protective Precautions Clinical Practice Standard**
- complete **10-320-7007 Cytotoxic Drugs Risk Assessment Worksheet** (as required)
- review **5-1-3-100 Hazardous Drugs Exposure Control Plan** (as required)

**12. MEDICATIONS**

- acetaminophen** 650 mg PO q4h prn for significant discomfort due to fever

**All ongoing antibiotic therapy to be determined in consultation with the oncologist (if applicable).  
CARBOplatin or CISplatin chemotherapy increases the risk of renal impairment with use of  
vancomycin or tobramycin.**

**Broad Spectrum Antibiotics:**

- piperacillin/tazobactam** 4.5 g IV STAT then q6h

**\*OR\***

*If severe allergy/anaphylaxis to penicillins:*

- cefTAZidime** 2 g IV STAT then q8h

**\*OR\***

*If documented or suspected extended spectrum beta lactamase producing organism:*

- meropenem** 1 g IV STAT then q8h

**Consider additional anti-pseudomonal coverage, until microbiology results available, if:**

- hemodynamic instability
- structural lung disease or serious respiratory symptoms
- hospital admission in previous 3 months
- received IV antibiotics in previous 3 months
- history of pseudomonas isolation

- ciprofloxacin** 400 mg IV once x 1 dose then 750 mg PO bid

**\*OR\***

- ciprofloxacin** 400 mg IV q8h (if unable to take oral)

**\*OR\***

*If quinolone therapy given in previous 3 months:*

- tobramycin** for dosing complete **10-111-5336 Initiation of Aminoglycosides for Adult Inpatients**

**vancomycin** should be considered in:

- hemodynamic instability
- clinically suspected central line infection or skin and soft tissue infection
- pneumonia
- positive blood cultures with gram positive organisms not yet identified
- mucositis
- patients who have received **ciprofloxacin** prophylaxis (higher risk for multidrug resistant streptococcus species)

- vancomycin** for dosing complete **10-111-5335 Initiation of Vancomycin for Adult Inpatients**

For guidance on antibiotic duration and persistent infections consult NH Febrile Neutropenia guideline on Firstline (app.firstline.org)

Prescriber signature: \_\_\_\_\_ College ID: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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**Risk Stratification**

<b>High Risk Factors:</b> If patient meets one or more of the below high risk factors - ADMIT	
<ul style="list-style-type: none"> <li>- hemodynamic instability</li> <li>- inpatient status at time of fever</li> <li>- temperature greater than 39°C</li> <li>- severe neutropenia:               <ul style="list-style-type: none"> <li>• less than or equal to 0.5 x 10<sup>9</sup>/L for more than 7 days</li> <li>• less than or equal to 0.1 x 10<sup>9</sup>/L</li> </ul> </li> <li>- presence of potential complications, including:               <ul style="list-style-type: none"> <li>• neurologic changes/confusion</li> <li>• pneumonia, tachypnea (RR greater than 25 breaths/min)/hypoxia/dyspnea</li> <li>• new onset of abdominal pain/diarrhea</li> <li>• severe mucositis</li> <li>• skin/soft tissue infection</li> </ul> </li> <li>- intravascular catheter infection</li> </ul>	<ul style="list-style-type: none"> <li>- high risk cancer status:               <ul style="list-style-type: none"> <li>• uncontrolled, progressive cancer</li> <li>• hematologic malignancy</li> </ul> </li> <li>- significant comorbid factors:               <ul style="list-style-type: none"> <li>• age greater than 70, physically/medically frail</li> <li>• underlying lung disease</li> <li>• hepatic insufficiency (liver function tests greater than 5 times normal)</li> <li>• renal insufficiency (serum creatinine greater than 176 umol/L)</li> <li>• poor performance status (ECOG greater than 1)</li> </ul> </li> <li>- infectious diseases history:               <ul style="list-style-type: none"> <li>• taking antibiotics less than 72 hours before presentation</li> <li>• history of antibiotic resistant bacteria                   <ul style="list-style-type: none"> <li>• exception: for those with previous history/colonization of MRSA, low risk outpatient management may be considered if patient is clinically stable</li> </ul> </li> </ul> </li> </ul>
<b>Low Risk Factors:</b> Eligible for outpatient treatment if patient meets none of the above high risk factors AND meets following outpatient criteria:	
<ul style="list-style-type: none"> <li>- reliable patient/home support, who can return to facility easily</li> <li>- can take oral medications</li> <li>- can be easily contacted for daily assessment</li> <li>- can be admitted urgently if clinically unwell/unstable</li> </ul> <p>Note: NOT eligible for outpatient treatment if patient cannot meet outpatient criteria, despite having none of the above high risk factors; will need to admit.</p>	