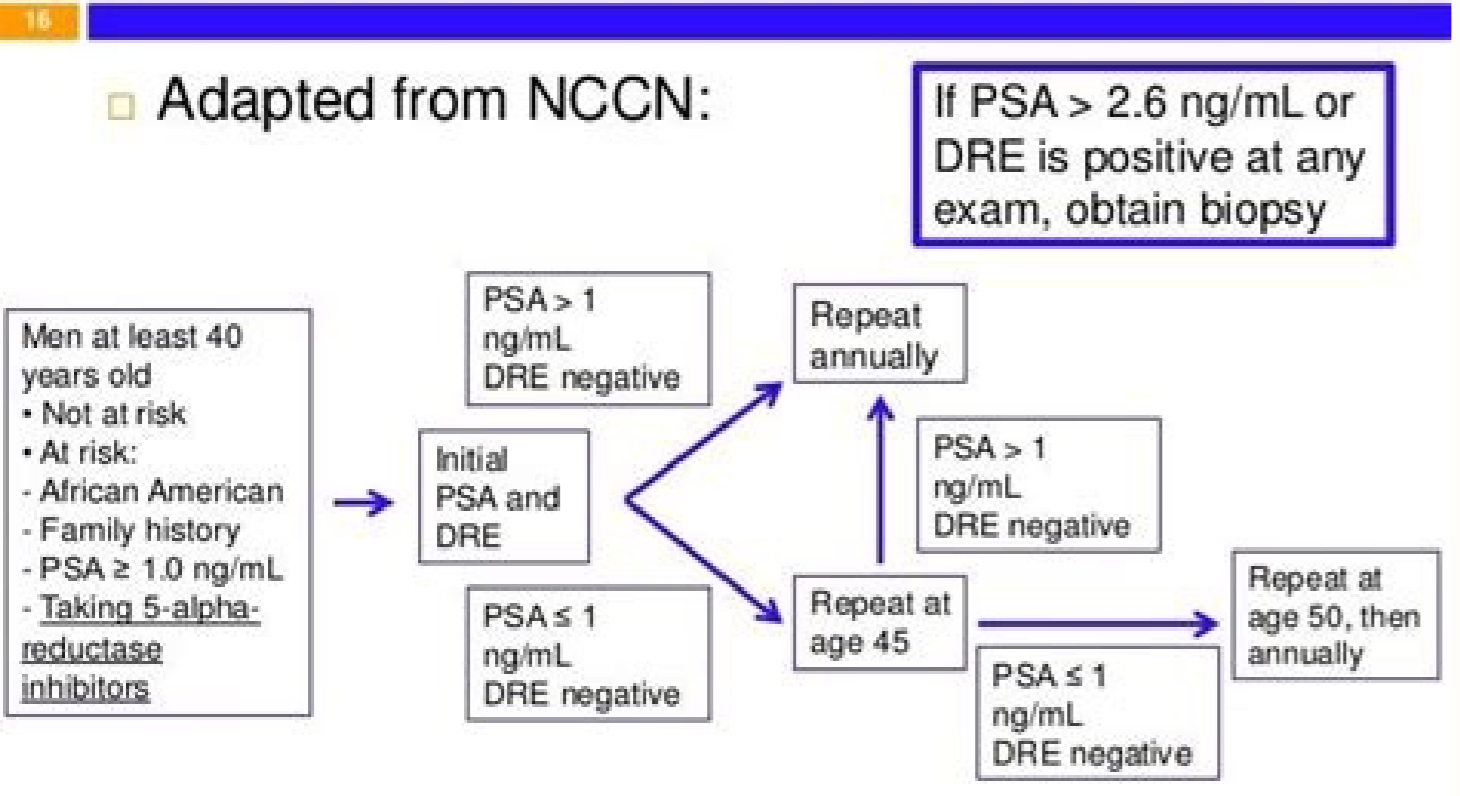


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PSA (ng/mL)	DRE	PSA > 1 ng/mL DRE negative	PSA ≤ 1 ng/mL DRE negative
PSA > 1 ng/mL DRE negative	Repeat annually	Repeat annually	Repeat at age 45
PSA > 1 ng/mL DRE positive	Obtain biopsy	Obtain biopsy	Obtain biopsy
PSA ≤ 1 ng/mL DRE negative	Repeat at age 45	Repeat at age 45	Repeat at age 50, then annually
PSA ≤ 1 ng/mL DRE positive	Obtain biopsy	Obtain biopsy	Obtain biopsy

Prostate Cancer Screening Guidelines



National Comprehensive Cancer Network. Prostate Cancer (Version 3.2012). Available at: http://www.nccn.org/professionals/physician_gls/pdf/prostate.pdf. Accessed November 25, 2012.



Idsa neutropenic fever guidelines 2018. What to do for neutropenic fever. Neutropenic fever guidelines 2020. How long does neutropenic fever last.

Febrile neutropenia (FN) is a serious complication of cancer chemotherapy that can lead to delays in treatment and necessary dose reductions of chemotherapy, which compromise treatment efficacy. Approximately 1% of patients with cancer receiving chemotherapy develop FN, which contributes to morbidity and mortality, and imposes substantial burdens on healthcare resource use for management of this affected population. Neutropenia is characterized by a reduction in neutrophils below normal counts, usually occurring within 7 to 12 days following cancer chemotherapy. It is diagnosed with a blood test that confirms an absolute neutrophil count (ANC) of less than 500 cells per microliter following cytotoxic chemotherapy, or by an ANC expected to decrease to less than 500 cells per microliter within 48 hours. Due to reduced levels of neutrophils in circulation, patients with neutropenia may have an impaired ability to fight infections. Hence, even a minor infection for patients with neutropenia may become very serious. It is crucial to monitor patients for signs and symptoms of infection, which may present as fever, chills, or sweats. Other signs and symptoms of infection for patients with FN are provided in Table 1. Neutropenia may be accompanied by fever originating from an underlying infection. Fever may be the sole indicator of an underlying infection in patients with chemotherapy-induced neutropenia; other signs and symptoms of inflammation may be absent. Patients with neutropenia thus must be assessed for risk of severe infection immediately at presentation of fever. FN is defined by an oral temperature greater than 101°F from a single reading or an oral temperature of at least 100.4°F sustained over a 1-hour period or reported from 2 consecutive readings in a 2-hour period. Initial Physical Assessments Patients presenting with FN undergo initial physical assessments for potential infection. The patient's risk of developing an infection-related complication must be determined so that appropriate early management can begin. Because patients with FN may have minimal or absent symptoms of bacterial infections, detection requires close examination of the most commonly infected sites. Patients with FN are initially investigated for infection on sites of previous procedures or catheters, as well as on or in the skin, alimentary tract, oropharynx, gastrointestinal tract, lungs, genitourinary region, and respiratory system. Chest radiography may be indicated if there are any signs and symptoms of respiratory infection; this is to rule out pneumonia, which can progress rapidly in patients with FN. The patient's detailed medical history should be evaluated, including new site-specific symptoms, recent antibiotic treatment, surgical history, and underlying comorbid conditions. Additionally, patient history should be analyzed for past positive microbiology records, specifically the presence of antibiotic-resistant organisms or bacteremia. Cultures should be obtained from suspected sites of infection for appropriate microbiological testing prior to empirical antimicrobial therapy. Urinalysis and sputum and stool cultures may be necessary in patients with suspected infection in the associated sites. Laboratory tests, including complete blood cell counts with differential leukocyte and platelet counts, are needed to determine ANC and severity of neutropenia. At least 2 sets of blood cultures are recommended, 1 from a central venous catheter and 1 from a peripheral vein. However, if no central venous catheter is available, 2 sets of cultures may be taken from separate venipunctures for the detection of bloodstream pathogens. Renal and liver function are routinely investigated during the initial assessment for serum creatinine levels, blood urea nitrogen, electrolytes, hepatic transaminase enzymes, and total bilirubin to plan supportive care and appropriate treatment. Risk Stratification for Patients With FN Patients presenting with FN undergo initial risk assessment for serious complications of infection, including mortality, to determine appropriate treatment. The Infectious Diseases Society of America (IDSA), National Comprehensive Cancer Network (NCCN), and European Society of Medical Oncology (ESMO) outline the classification of risk for patients with FN. Depending on the level of risk determined, management of patients may vary in the administration of treatment (oral or intravenous), duration of therapy, and treatment setting (outpatient or hospital). Patients are classified into risk categories based on clinical criteria, including the duration of neutropenia, ANC measure, presence of comorbidities, renal and hepatic insufficiencies, medication usage, and history of FN. Additional factors that increase the risk of complications for patients with FN following cancer chemotherapy are summarized in Table 2. The Multinational Association of Supportive Care in Cancer (MASCC) index is a formal method for defining risk stratification, which is incorporated into the initial risk evaluation. The MASCC index assigns values to patient age, history, outpatient or inpatient status, clinical signs, severity of fever and neutropenia, and presence of medical comorbidities; the summation of those values determines risk classification. Patients with FN are characterized as having a low risk of complications if the patient has good performance status and few medical comorbid conditions, presents with adequate hepatic function and renal function, and the neutropenia's duration is expected to be less than 7 days. Patients are stratified into a low-risk category with an MASCC Risk Index score of at least 21. Low-risk patients are initially treated with oral or intravenous empiric therapy. Patients with FN are classified as having a high risk of complications if they present with profound neutropenia marked by an ANC less than 100 cells per microliter following chemotherapy, and if the duration of neutropenia is anticipated to last longer than 7 days. In addition, high-risk patients may have clinically relevant comorbidities such as hypotension, pneumonia, new onset of abdominal pain, renal or hepatic insufficiency, or neurological changes. Patients are also stratified into the high-risk category if they present with a MASCC Risk Index score of less than 21. Patients with FN at high risk of serious complications are treated with intravenous empiric antibiotic therapy in the inpatient setting. Evidence-based guidelines for the management of patients with FN in clinical practice have been developed by the IDSA, NCCN, and ESMO. Patients with FN with high risk of complications should be initiated with empiric antibiotics administered intravenously in the hospital setting. Clinical practice guidelines from the IDSA recommend initial antibiotic monotherapy including an antipseudomonal beta-lactam (ie, cefepime), a carbapenem (ie, meropenem, imipenem, or cilastatin), or piperacillin-tazobactam. Patients who are afebrile and develop signs and symptoms of infection should also be treated empirically with the same regimen as high-risk patients. Initial treatment with vancomycin and other antibiotics effective against gram-positive cocci are not recommended as standard empirical antibiotic treatment for patients with FN. However, these agents may be considered in modifications of initial treatment as additional therapy for patient-based needs, such as suspicion of catheter-related infection, skin or soft-tissue infection, pneumonia, hemostatic instability, or antibiotic resistance. The IDSA guidelines recommend therapy modifications for patients with a positive blood culture with a risk of infection with antibiotic-resistant organisms. If methicillin-resistant *Staphylococcus aureus* is suspected, the initial antibiotic regimen can be modified to include vancomycin, daptomycin, or linezolid. Suspicion of vancomycin-resistant enterococcus calls for the addition of linezolid or daptomycin. If extended-spectrum beta-lactamase-producing gram-negative bacteria is suspected, patients may benefit from the early use of carbapenem. The addition of polymyxin-colistin or tigecycline to the early treatment is appropriate if the presence of *Klebsiella pneumoniae* carbapenemase-producing bacteria is suspected. Patients allergic to penicillin may be given cephalosporin, but either ciprofloxacin and clindamycin or aztreonam and vancomycin are recommended in cases of immediate hypersensitivity. Patients with FN at low risk of complications may be initially treated with empirical antibiotics administered orally or intravenously in the inpatient setting. Patients meeting select criteria of clinical stability and adequate gastrointestinal absorption may be eligible for treatment switch from intravenous to oral administration of antibiotics. Recommended treatment for low-risk patients includes combination oral antibiotic therapy with ciprofloxacin and amoxicillin-clavulanate. Other orally administered regimens commonly used in clinical practice are monotherapy with levofloxacin or ciprofloxacin and combination with ciprofloxacin and clindamycin. If a patient is being treated for FN with fluoroquinolone prophylaxis, a fluoroquinolone cannot be used as an initial empiric therapy. Additionally, selected patients who are at low risk for complications and have family support and appropriate culture status may be eligible for transitioning treatment with intravenous or oral empiric therapy to the outpatient setting. Patients who continue to present with fever and worsening signs and symptoms of infection are to remain in hospital rather than being discharged. Empiric antifungal therapy is not recommended for routine use in low-risk patients. Initiation of empiric antifungal therapy is recommended for patients who continue to have persistent fever of unidentified cause following 4 to 7 days of antibiotic treatment, and who present with neutropenia that is expected to last more than 7 days. In patients with FN who are already receiving anti-mold prophylaxis, the switch to an agent in a different antifungal class should be considered. However, there are insufficient data to determine which antifungal agent is most appropriate. Assessment of Therapeutic Response The assessment of response and duration of therapy outlined by clinical practice guidelines for the management of FN recommend daily patient reviews following administration of empiric therapy to determine needs for subsequent management. Daily assessments include laboratory tests and cultures for infection, fever trends, and toxicity of treatment. Treatment is necessary until the patient is afebrile for at least 48 hours, clinically stable with resolution of neutropenia (ANC of at least 500 cells per microliter), and has negative blood cultures. For patients with documented infections, the duration of treatment is decided by the organism and site of infection, and treatment should continue until resolution of neutropenia. If a patient is clinically unstable, such as if they present with persistent fever, signs of infection, or positive blood cultures, a broad-coverage antibiotic therapy should be considered. Patients with persistent fever are at a high risk of developing complications and need prompt consultation from an infectious diseases physician. If high fever persists for more than 4 to 6 days, then empiric antifungal therapy may be necessary. Treatment with antibiotics can be discontinued in patients with an ANC of less than 500 cells per microliter who have maintained an afebrile state for 5 to 7 days without any complications. High-risk patients, such as those with acute leukemia and those who have recently had high-dose cytotoxic chemotherapy, may require treatment with antibiotics for up to 10 days or until the resolution of neutropenia. Prophylaxis for FN The recommended initial treatment for patients who are considered high risk for complications of FN, and who are expected to have an extended period of profound neutropenia lasting longer than 7 days defined by no more than 100 cells per microliter, is fluoroquinolone prophylaxis. Both ciprofloxacin and levofloxacin are recommended to treat patients at high risk for FN; however, levofloxacin is the preferred agent for patients with an increased risk of *Streptococcus*-mediated oral mucositis. The IDSA guidelines do not recommend treatment with prophylaxis in low-risk patients, nor do they recommend the addition of an antibiotic against gram-positive infections with prophylaxis. Patients who are considered high risk for invasive fungal infection, such as candidiasis from allogeneic hematopoietic stem cell transplant or from intensive remission induction or salvage-induction chemotherapy for acute leukemia, are strongly recommended to be initiated on antifungal prophylaxis with fluconazole, itraconazole, voriconazole, posaconazole, micafungin, or caspofungin. Patients who are considered high risk for aspergillus are aged 13 years or older, and/or are undergoing intensive chemotherapy for acute myeloid leukemia or myelodysplastic syndrome are strongly recommended to initiate posaconazole for prophylaxis. Low-risk patients are not required to have antifungal prophylaxis. Prophylaxis with Granulocyte Colony-Stimulating Factor/Granulocyte colony-stimulating factor (G-CSF)—filgrastim, filgrastim-sndz, the-filgrastim, or pegfilgrastim—is indicated for the prevention of chemotherapy-induced neutropenia in patients with nonmyeloid malignancies. As a prophylactic treatment, G-CSF is used to reduce infection in patients with nonmyeloid malignancies who are undergoing myelosuppressive chemotherapy associated with severe FN. Treatment with a G-CSF reduces the time to neutrophil recovery and decreases the duration of FN. The NCCN recommends that patients with solid and nonmyeloid malignancies are evaluated for risk factors of chemotherapy-induced FN prior to the first cycle of chemotherapy. The intensity of the chemotherapy regimen administered is associated with the severity of neutropenia. Patients are assessed for factors including disease type, chemotherapy regimen, treatment intent, and patient risk factors that may lead to the development of FN (Table 3). Patients who are at low risk of developing FN (20%) to reduce the risks of FN, hospitalization, and intravenous antibiotic use during the course of treatment. Conclusion As cytotoxic chemotherapy-induced FN may lead to serious complications of infection and mortality, initiating antimicrobial therapy is recommended for this patient population. Before initiating antibiotic therapy, it is crucial to perform a risk assessment to determine whether the therapy should be oral or intravenous, inpatient or outpatient, and patient needs for the duration of therapy. Risk assessment also plays a key role in determining whether G-CSF should be initiated for primary prophylaxis. Guidelines suggest that G-CSF may be needed to boost the immune system of high-risk patients, but G-CSF should initially be avoided in low-risk patients. In cases of intermediate risk, additional patient risk factors need to be weighed. References 1. Klastersky J, de Naurois J, Rolston K, et al: ESMO Guidelines Committee. Management of febrile neutropenia: ESMO Clinical Practice Guidelines. *Ann Oncol*. 2016;27(suppl 5):v111-118.2. Neutropenia and risk of infection. CDC website. www.cdc.gov/cancer/preventioninfections/pdf/neutropenia.pdf. Accessed August 2, 2017.3. Vanderpuye-Ortle J, Sexton Ward A, Huber C, Kamson C, Jena AB. Estimating the social value of G-CSF therapies in the United States. *Am J Manag Care*. 2016;22(10):e343-e349.4. Freifeld AG, Bow EJ, Sepkowitz KA, et al: Infectious Diseases Society of America. Clinical practice guideline for the use of antimicrobial agents in neutropenic patients with cancer: 2010 update by the Infectious Diseases Society of America. *Clin Infect Dis*. 2011;52(4):e56-e93. doi: 10.1093/cid/cir073.5. NCCN Clinical Practice Guidelines in Oncology. Prevention and Treatment of Cancer-Related Infections, version 2. 2017. National Cancer Comprehensive Network website. www.nccn.org/professionals/physician_gls/PDF/infections.pdf. Published February 21, 2017. Accessed September 27, 2017.6. Mehta HM, Malandra M, Corey SJ. G-CSF and GM-CSF in neutropenia. *J Immunol*. 2015;195(4):1341-1349. doi: 10.4049/jimmunol.1500861.7. NCCN Clinical Practice Guidelines in Oncology. Myeloid Growth Factors, version 1.2017. National Cancer Comprehensive Network website. www.nccn.org/professionals/physician_gls/PDF/myeloid_growth.pdf. Published April 28, 2017. Accessed August 2, 2017.

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