Patient Risk Assessment for Chemotherapy-Induced Febrile Neutropenia (FN) and G-CSF Use

For patients on myelosuppressive chemotherapy:
• Conduct patient risk assessment of FN at the first and every cycle
• It may be important to document 1 or more patient risk factors when treating with regimens with clinically significant FN risk

Patient Name ___________________________  Date ________________

Regimen risk
☐ Chemotherapy regimens associated with a clinically significant risk of FN¹ ³

Chemotherapy regimens ________________

Treatment intent
☐ Curative/Adjuvant  ☐ Palliative Setting

Patient risk factors and most common ICD-10 codes (see back for code descriptions)

Please write the specific ICD-10 code on the rule next to the risk factor.

Patient Status
☐ Age ≥ 65¹ ²
☐ Poor performance status¹ ²
☐ Poor nutritional status² ³
(E40–E46*, E50–E64*)
☐ Preexisting or persistent neutropenia¹ ²
(D61.81*, D70*)
☐ Open wound¹ ²
(S01–S91*)
☐ Active infection²
(A00–B99*, M91*, T86*, Z22*)
☐ Bone marrow involvement with tumor¹ ²
(C79.5, C79.52)
☐ Advanced disease²
☐ Chronic immunosuppression in the post-transplant setting, including organ transplant¹
(Z92.25, Z94*)

Treatment History
☐ Previous chemotherapy¹ ²
☐ Previous radiation therapy¹ ²(Z92.3)¹
☐ Recent surgery¹ ²(Z40*, Z42*)¹

Comorbidities
☐ Poor renal function¹ ²
(N17*, N18*, N19*, N25*, N28*, R80.9, R94.4)¹
☐ Liver dysfunction¹ ²
(K70–K77*, R94.5)
☐ HIV infection¹ ²
(Z21, B20)
☐ Cardiovascular disease²

Prescribe G-CSF?
☐ Yes  ☐ No

If yes: ☐ Primary prophylactic use  ☐ Secondary prophylactic use
☐ Note whether changes to treatment plan cannot be considered and patient is still at risk of FN

Health Care Professional Signature ___________________________  Date ________________

Add this risk assessment to your patient’s chart to help with prior authorizations for G-CSF use

* Subcodes exist for these risk factors.

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ICD-10 Codes for Febrile Neutropenia (FN) Risk Factors

For patients on myelosuppressive chemotherapy:
• Conduct patient risk assessment of FN at the first and every cycle
• It may be important to document 1 or more patient risk factors when treating with regimens with clinically significant FN risk

Patient Status

Age ≥ 65
(No codes)

Poor performance status
(No codes)

Poor nutritional status
• E40–E46:* Malnutrition
• E50–E64:* Other nutritional deficiencies

Preexisting or persistent neutropenia
– D61.81:* Pancytopenia
– D70:* Neutropenia
– D70.1: Agranulocytosis secondary to cancer chemotherapy
– D70.2: Other drug-induced agranulocytosis
– D70.3: Neutropenia due to infection
– D70.4: Cyclic neutropenia
– D70.9: Neutropenia, unspecified

Open wound

NOTE: There are > 300 codes for this risk factor. Coding depends on the location of the open wound. The range below includes some of the many potential coding options.
• S01–S91: Injury and certain other consequences of external causes

Active infection

NOTE: There are > 300 codes for this risk factor. Coding depends on the source and type of infection. The range below includes some of the many potential coding options.
• A00–B99:* Certain infectious and parasitic diseases
• M01:* Direct infections of joint in infectious and parasitic diseases classified elsewhere
• T86:* Complications of transplanted organs and tissues
• Z22:* Carrier of infectious disease

Bone marrow involvement with tumor
• C79.5: Secondary malignant neoplasm of bone and bone marrow
• C79.52: Secondary malignant neoplasm of bone marrow

Advanced disease

NOTE: There are > 300 codes for this risk factor. Coding depends on clinician definition.

Chronic immunosuppression in the post-transplant setting, including organ transplant
• Z92.25: Personal history of immunosuppression therapy
• Z94:* Transplanted organ and tissue status

Treatment History

Previous chemotherapy
(No codes)

Previous radiation therapy
• Z92.3: Personal history of irradiation

Recent surgery
• Z40:* Encounter for prophylactic surgery
• Z42:* Encounter for plastic surgery and reconstructive surgery following medical procedure or healed injury
– Z42.1: Encounter for breast reconstruction following mastectomy
• Z42.8: Encounter for other plastic surgery and reconstructive surgery following medical procedure or healed injury

Comorbidities

Poor renal function
• N17:* Acute kidney failure
  – N17.9: Acute kidney failure, unspecified
• N18:* Chronic kidney disease
  – N18.6: End stage renal disease
  – N18.9: Chronic kidney disease, unspecified
• N19:* Unspecified kidney failure
• N25:* Disorders resulting from poor renal tubular function
• N28:* Other disorders of kidney and ureter, not classified elsewhere
• R80.9: Proteinuria, unspecified
• R94.4: Abnormal results of kidney function studies

Liver dysfunction
• K70–K77:* Diseases of liver
  – K70.9: Alcoholic liver disease, unspecified
  – K71.9: Toxic liver disease, unspecified
  – K72.9: Hepatic failure, unspecified
  – K73.9: Chronic hepatitis, unspecified
  – K74: Fibrosis & cirrhosis of liver
  – K75.9: Inflammatory liver disease, unspecified
  – K76.9: Liver disease, unspecified
• R94.5: Abnormal results of liver function studies

HIV infection
• Z21: Asymptomatic human immunodeficiency virus [HIV] infection status
• B20: Human immunodeficiency virus [HIV] disease

Cardiovascular disease
• I10–I16:* Hypertensive diseases
• I20–I25:* Ischemic heart diseases
• I26–I28:* Pulmonary heart disease & diseases of pulmonary circulation
• I30–I52:* Other forms of heart disease
• R94.3: Abnormal result of cardiovascular function studies
• Z95: Presence of cardiac & vascular implants and grafts

* Subcodes exist for these risk factors.