

PHARMACY POLICY STATEMENT		
Indiana Medicaid		
DRUG NAME	Zarxio (filgrastim-sndz)	
BILLING CODE	For medical - Q5101	
	For Rx - must use valid NDC	
BENEFIT TYPE	Medical or Pharmacy	
SITE OF SERVICE ALLOWED	Home/Office/Outpatient Hospital	
COVERAGE REQUIREMENTS	Prior Authorization Required (Preferred Product)	
	QUANTITY LIMIT— N/A	
LIST OF DIAGNOSES CONSIDERED <b>NOT</b>	Click Here	
MEDICALLY NECESSARY		

Zarxio (filgrastim-sndz) is a **preferred** product and will only be considered for coverage under the **medical or pharmacy** benefit when the following criteria are met:

Members must be clinically diagnosed with one of the following disease states and meet their individual criteria as stated.

### **ACUTE MYELOID LEUKEMIA**

For initial authorization:

- 1. Member has diagnosis of AML documented in chart notes; AND
- 2. Medication is being used to reduce the time to neutrophil recovery and the duration of fever following induction or consolidation chemotherapy treatment; AND
- 3. Medication is being administered 24 hours after the last dose of chemotherapy until neutrophil recovery (ANC ≥ 1000/mm³ for 3 consecutive days or ≥ 10,000/mm³ for 1 day) or for a maximum of 35 days; AND
- Chart notes with the length of chemotherapy cycle, the days of the cycle on which chemotherapy will be administered, and the days of the cycle on which Zarxio will be administered are submitted with the prior authorization request.
- 5. **Dosage allowed:** 5 mcg/kg/day subcutaneous injection, short intravenous infusion (15 to 30 minutes), or continuous intravenous infusion.

If member meets all the requirements listed above, the medication will be approved for 3 months. For reauthorization:

- 1. Member must be in compliance with all initial criteria; AND
- 2. Chart notes have been provided that show the member is stable or has shown improvement on Zarxio therapy.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 12 months.

## **AUTOLOGOUS BONE MARROW TRANSPLANT (BMT)**

For initial authorization:

- 1. Member has diagnosis of non-myeloid malignancy and is undergoing myeloablative chemotherapy followed by autologous BMT; AND
- 2. Medication is being used to reduce duration of neutropenia following autologous BMT.
- 3. **Dosage allowed:** 10 mcg/kg/day beginning at least 24 hours after cytotoxic chemotherapy and 24 hours after bone marrow infusion.



If member meets all the requirements listed above, the medication will be approved for 3 months. For reauthorization:

- 1. Member must be in compliance with all initial criteria; AND
- 2. Chart notes have been provided that show the member is stable or has shown improvement on Zarxio therapy.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 12 months.

# AUTOLOGOUS PERIPHERAL BLOOD PROGENITOR CELL (PBPC) MOBILIZATION

For **initial** authorization:

- 1. Medication is being used to mobilize autologous peripheral blood progenitor cells for collection by leukapheresis; AND
- 2. Medication is being administered for at least 4 days before first leukapheresis and continued until the last leukapheresis (until a sustainable ANC (≥ 1000/mm³) is reached).
- 3. **Dosage allowed:** 10 mcg/kg/day subcutaneous injection.

If member meets all the requirements listed above, the medication will be approved for 3 months. For reauthorization:

- 1. Member must be in compliance with all initial criteria; AND
- 2. Chart notes have been provided that show the member is stable or has shown improvement on Zarxio therapy.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 12 months.

#### PREVENTION OF FEBRILE NEUTROPENIA

For **initial** authorization:

- 1. Member has a non-myeloid malignancy; AND
- 2. Medication will not be administered within 24 hours before or after chemotherapy; AND
- 3. Chart notes with the length of chemotherapy cycle, the days of the cycle on which chemotherapy will be administered, and the days of the cycle on which Zarxio will be administered are submitted with the prior authorization request; AND
- Member is receiving myelosuppressive chemotherapy and has a history of febrile neutropenia (defined as an ANC < 1000/mm³ and temperature > 38.2°C) following a previous course of chemotherapy; OR
- 5. Member is receiving a myelosuppressive chemotherapy regimen that is associated with a high risk (>20%) of febrile neutropenia; OR
- 6. Member is receiving a myelosuppressive chemotherapy regimen that is associated with an intermediate risk (10-20%) of febrile neutropenia AND has at least **one** of the following risk factors:
  - a) Prior chemotherapy or radiation therapy;
  - b) Persistent neutropenia:
  - c) Tumor involving the bone marrow;
  - d) Recent surgery and/or open wounds;
  - e) Liver dysfunction (i.e. documented bilirubin >2.0);
  - f) Renal dysfunction (i.e. documented creatinine clearance <50 mL/min);
  - g) Age >65 years receiving full intensity dose of chemotherapy.
- 7. Dosage allowed: 5 mcg/kg per day.

If member meets all the requirements listed above, the medication will be approved for 6 months.



#### For reauthorization:

- 1. Member must be in compliance with all initial criteria; AND
- 2. Chart notes have been provided that show the member is stable or has shown improvement on Zarxio therapy.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 12 months.

#### SEVERE CHRONIC NEUTROPENIA

For initial authorization:

- 1. Member has a history of SCN (i.e. congenital neutropenia, cyclic neutropenia, or idiopathic neutropenia) with chart notes confirming **both** of the following:
  - a) Absolute neutrophil count (ANC) < 500/mm³ on three occasions during a 6 month period (or for cyclic neutropenia 5 consecutive days of ANC < 500/mm³ per cycle); AND
  - b) Member must have experienced a clinically significant infection during the previous 12 months.
- 2. **Dosage allowed:** Idiopathic neutropenia: 5 mcg/kg per day as a single dose; Cyclic neutropenia: 5 mcg/kg per day as a single dose; Congenital neutropenia: 6 mcg/kg per day in 2 divided doses.

If member meets all the requirements listed above, the medication will be approved for 6 months. For reauthorization:

- 1. Member must be in compliance with all initial criteria; AND
- 2. Chart notes have been provided that show the member is stable or has shown improvement on Zarxio therapy.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 12 months.

CareSource considers Zarxio (filgrastim-sndz) not medically necessary for the treatment of the following disease states based on a lack of robust clinical controlled trials showing superior efficacy compared to currently available treatments:

- Agranulocytosis
- AIDS Neutropenia
- Aplastic anemia
- Febrile neutropenia
- Febrile neutropenia, In myeloid malignancies following bone marrow transplant; Prophylaxis
- Hematopoietic Syndrome of Acute Radiation Syndrome
- Infectious disease; Prophylaxis
- Leukemia
- Myelodysplastic syndrome
- Neutropenia Pre-eclampsia

DATE	ACTION/DESCRIPTION
10/19/2017	New policy for Zarxio created. Age limits and degree of hematotoxicity was removed;
	radiation exposure level requirement was decreased. Criteria coverage for Prevention of
	Febrile Neutropenia was expanded. Chemotherapy regimens with high and intermediate
	risk of febrile neutropenia were added to the policy's appendix. List of not covered
	diagnoses was added.



#### References

- 1. Zarxio (filgrastim-sndz) [prescribing information]. Princeton, NJ: Sandoz Inc; March 2016.
- 2. Schmitz N, Linch DC. Randomised trial of filgrastim-mobilized peripheral blood progenitor cell transplantation versus autologous bone-marrow transplantation in lymphoma patients. Lancet. 1996;347(8998): 353-358. Doi: 10.1016/S0140-6736(96)90536-X.
- 3. Blackwell K, Semiglazov V, Krasnozhon D, et al. Comparison of EP2006, a filgrastim biosimilar, to the reference: a phase III, randomized, double-blind clinical study in the prevention of severe neutropenia in patients with breast cancer receiving myelosuppressive chemotherapy. Ann Oncol. 2015;26:1948-1953. Doi: 10.1093/annonc/mdv281.
- 4. Dale DC, Bonilla MA, Davis MW, et al. A randomized controlled phase III trial of recombinant human granulocyte colony-stimulating factor (filgrastim) for treatment of severe chronic neutropenia. 1993;81(10):2496-2502.
- 5. Crawford J, Becker PS, Armitage JO, et al. Myeloid growth factors. NCCN Clinical Practice Guidelines in Oncology. Available from <a href="https://www.nccn.org">www.nccn.org</a>. Published April 28, 2017. Accessed July 27, 2017.
- 6. Harada K, Yamada Y, Konishi T, et al. Comparison of transplant outcomes and economic costs between biosimilar and originator filgrastim in allogeneic hematopoietic stem cell transplantation. Int J Hematol. 2016;104:709-719. Doi: 10.1007/s/12185-016-2085-0.
- 7. Radiation Emergency Medical Management. Myeloid cytokines for acute exposure to myelosuppressive doses of radiation (hematopoietic subsyndrome of ARS). U.S. Department of Health and Human Services. Available from <a href="https://www.remm.nlm.gov/cytokines.htm">https://www.remm.nlm.gov/cytokines.htm</a>. Updated February 22, 2017. Accessed July 27, 2017.
- 8. Filgrastim-sndz. Micromedex Solutions. Truven Health Analytics, Inc. Ann Arbor, MI. Available at: http://www.micromedexsolutions.com. Accessed March 15, 2017.

Effective date: 01/01/2018 Revised date: 10/19/2017



Appendix
Chemotherapy Regimens with a High Risk for Febrile Neutropenia (>20%)

Acute Lymphoblastic Leukemia (ALL)  Bladder Cancer  MVAC (methotrexate, vinblastine, doxorubicin, cisplatin) (neoadjuvant, adjuvan metastatic)  Breast Cancer  Docetaxel + trastuzumab (metastatic or relapsed)  Dose-dense AC followed by T (doxorubicin, cyclophosphamide, paclitaxel) (adjuvant)  TAC (docetaxel, doxorubicin, cyclophosphamide) (adjuvant)  Esophageal and Gastric Cancers  Docetaxel/cisplatin/fluorouracil  BEACOPP (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)  Kidney Cancer  Doxorubicin/gemcitabine  ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (ituximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced, metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)	Concer Type	• • •
ALL induction regimens (see NCCN guidelines)   Bladder Cancer	Cancer Type	Regimen
Breast Cancer   Docetaxel + trastuzumab (metastatic or relapsed)		ALL induction regimens (see NCCN guidelines)
Dose-dense AC followed by T (doxorubicin, cyclophosphamide, paclitaxel) (adjuvant)  TAC (docetaxel, doxorubicin, cyclophosphamide) (adjuvant)  Esophageal and Gastric Cancers  Docetaxel/cisplatin/fluorouracil  BEACOPP (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)  Kidney Cancer  Doxorubicin/gemcitabine  ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (ifuximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab  MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel	Bladder Cancer	MVAC (methotrexate, vinblastine, doxorubicin, cisplatin) (neoadjuvant, adjuvant, metastatic)
(adjuvant)  TAC (docetaxel, doxorubicin, cyclophosphamide) (adjuvant)  Esophageal and Gastric Cancers  Docetaxel/cisplatin/fluorouracil  BEACOPP (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)  Kidney Cancer  Doxorubicin/gemcitabine  ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (rituximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab  MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Paclitaxel	Breast Cancer	Docetaxel + trastuzumab (metastatic or relapsed)
BEACOPP (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)   Kidney Cancer   Doxorubicin/gemcitabine     Non-Hodgkin's Lymphoma   ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)     RICE (rituximab, ifosfamide, carboplatin, etoposide)     CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab     MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)     DHAP (dexamethasone, cisplatin, cytarabine)     ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)     HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)     Melanoma   Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)     Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)     Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)		
Hodgkin Lymphoma  BEACOPP (bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine, prednisone)  Kidney Cancer  Doxorubicin/gemcitabine  ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (rituximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab  MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel		TAC (docetaxel, doxorubicin, cyclophosphamide) (adjuvant)
Procarbazine, prednisone	Esophageal and Gastric Cancers	Docetaxel/cisplatin/fluorouracil
Non-Hodgkin's Lymphoma  ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (rituximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel	Hodgkin Lymphoma	
peripheral T-cell lymphomas [PTCL], 2nd line)  RICE (rituximab, ifosfamide, carboplatin, etoposide)  CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab  MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel	Kidney Cancer	Doxorubicin/gemcitabine
CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab  MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel	Non-Hodgkin's Lymphoma	ICE (ifosfamide, carboplatin, etoposide) (diffuse large B-cell lymphoma [DLBCL], peripheral T-cell lymphomas [PTCL], 2nd line)
MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)  DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel		RICE (rituximab, ifosfamide, carboplatin, etoposide)
DHAP (dexamethasone, cisplatin, cytarabine)  ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel		CHOP-14 (cyclophosphamide, doxorubicin, vincristine, prednisone) + rituximab
ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel		MINE (mesna, ifosfamide, novantrone, etoposide) (DLBCL, 2nd line, refractory)
PTCL, 2nd line, recurrent)  HyperCVAD + rituximab (cyclophosphamide, vincristine, doxorubicin, dexamethasone + rituximab)  Melanoma  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent Paclitaxel		DHAP (dexamethasone, cisplatin, cytarabine)
dexamethasone + rituximab)  Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)  Ovarian Cancer  Topotecan  Paclitaxel		ESHAP (etoposide, methylprednisolone, cisplatin, cytarabine (Ara-C)) (DLBCL, PTCL, 2nd line, recurrent)
metastatic, or recurrent)  Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent Topotecan  Paclitaxel		**
cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent  Topotecan  Paclitaxel	Melanoma	Dacarbazine-based combination (dacarbazine, cisplatin, vinblastine) (advanced, metastatic, or recurrent)
Paclitaxel		Dacarbazine-based combination with IL-2, interferon alpha (dacarbazine, cisplatin, vinblastine, IL-2, interferon alpha) (advanced, metastatic, or recurrent)
	Ovarian Cancer	Topotecan
Department		Paclitaxel
Docelaxei		Docetaxel
Soft Tissue Sarcoma MAID (mesna, doxorubicin, ifosfammide, dacarbazine)	Soft Tissue Sarcoma	MAID (mesna, doxorubicin, ifosfammide, dacarbazine)
Doxorubicin		Doxorubicin
Ifosfamide/doxorubicin		Ifosfamide/doxorubicin
Small Cell Lung Cancer topotecan	Small Cell Lung Cancer	topotecan
Testicular cancer VelP (vinblastine, ifosfamide, cisplatin)	Testicular cancer	VeIP (vinblastine, ifosfamide, cisplatin)
VIP (etoposide, ifosfamide, cisplatin)		VIP (etoposide, ifosfamide, cisplatin)
BEP (bleomycin, etoposide, cisplatin)		BEP (bleomycin, etoposide, cisplatin)



TIP (paclitaxel, ifosfamide, cisplatin)

National Comprehensive Cancer Network (NCCN): Myeloid Growth Factors, 2016.

Chemotherapy Regimens with an Intermediate Risk of Febrile Neutropenia (10% to 19%)

Cancer Histology	Regimen
Occult primary - adenocarcinoma	Gemcitabine/docetaxel
Breast cancer	Docetaxel every 21 days
	CMF classic (cyclophosphamide, methotrexate, fluorouracil) (adjuvant)
	AC (doxorubicin, cyclophosphamide) + sequential docetaxel (adjuvant) (taxane portion only)
	AC + sequential docetaxel + trastuzumab (adjuvant)
	FEC (fluorouracil, epirubicin, cyclophosphamide) + sequential docetaxel
	TC (docetaxel, cyclophosphamide)
Cervical Cancer	Cisplatin/topotecan (recurrent or metastatic)
	Paclitaxel/cisplatin
	Topotecan (recurrent or metastatic)
	Irinotecan (recurrent or metastatic)
Colorectal	FOLFOX (fluorouracil, leucovorin, oxaliplatin)
Esophageal and Gastric Cancers	Irinotecan/cisplatin
	Epirubicin/cisplatin/5-fluorouracil
	Epirubicin/cisplatin/capecitabine
Multiple myeloma	DT-PACE (dexamethasone/thalidomide/cisplatin/doxorubicin/cyclophoaphamide/etoposide)
	DT-PACE + bortezomib (VTD-PACE)
Non-Hodgkin's lymphomas	EPOCH (etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin) (AIDS-related NHL, Burkitt lymphoma, recurrent, otherr NHL subtypes)
	EPOCH-IT chemotherapy (AIDS-related NHL, DLBCL, recurrent)
	GDP (gemcitabine, dexamethasone, cisplatin) (DLBCL, PTCL, 2nd line)
	GDP (gemcitabine, dexamethasone, cisplatin) + rituximab (DLBCL, 2nd line, Burkitt lymphoma, other NHL subtypes)
	FMR (fludarabine, mitoxantrone, rituximab)
	CHOP + rituximab (cyclophosphamide, doxorubicin, vincristine, prednisone, rituximab) including regimens with pegylated liposomal doxorubicin or mitoxantrone substituted for doxorubicin
Non-Small Cell Lung Cancer	Cisplatin/paclitaxel (advanced/metastatic)
	Cisplatin/vinorelbine (adjuvant, advanced/metastatic)
	Cisplatin/docetaxel (adjuvant, advanced/metastatic)
	Cisplatin/etoposide (adjuvant, advanced/metastatic)



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	Carboplatin/paclitaxel (adjuvant, advanced/metastatic)
	Docetaxel (advanced/metastatic)
Ovarian Cancer	Carboplatin/docetaxel
Pancreatic Cancer	FOLFIRINOX
Prostate Cancer	Cabazitaxel
Small Cell Lung Cancer	Etoposide/carboplatin
Testicular Cancer	Etoposide/cisplatin
Uterine Sarcoma	Docetaxel (advanced or metastatic)

National Comprehensive Cancer Network (NCCN): Myeloid Growth Factors, 2016.