

# Emetogenic Risk of Chemotherapy and Biotherapy Agents

## NCCN Levels of Emetogenicity:

Level 5 – High Emetic Risk: 90% frequency of emesis

Level 3/4 – Moderate Emetic Risk: 30-90% frequency of emesis

Level 2 – Low Emetic Risk: 10-30% frequency of emesis

Level 1 – Minimal Emetic Risk: <10% frequency of emesis

Emetogenicity	Agents (alphabetically)	Emetogenicity	Agents (alphabetically)
5	AC combo: doxorubicin or epirubicin + cyclophosphamide	2	Gemcitabine
1	Alemtuzumab	1	Gemtuzumab ozogamicin
1	Alpha Interferon < 5000 IU/m <sup>2</sup>	1	Gefitinib (oral)
2	Amifostine < 300 mg	3	Hexamethylmelamine (oral)
4	Amifostine ≥ 300 - 500 mg/m <sup>2</sup>	1	Hydroxyurea (oral)
1	Androgens	1	Ibritumomab tiuxetan
3	Arsenic trioxide	3	Ifosfamide
1	Asparaginase	1	Imatinib mesylate (oral)
3	Azacitadine	3	Interleukin-2 > 12-15 million units/m <sup>2</sup>
3	Bendamustine	3	Irinotecan
1	Bevacizumab	1	Ixabepilone
2	Bexarotene (oral)	1	Lapatinib (oral)
1	Bleomycin	2	Lenalidomide
1	Bortezomib	3	Lomustine (oral)
4	Busulfan > 4 mg/d	5	Mechlorethamine
2	Capecitabine (oral)	1	Melphalan (oral low-dose)
4	Carboplatin	4	Melphalan > 50 mg/m <sup>2</sup>
4	Carmustine ≤ 250 mg/m <sup>2</sup>	1	Methotrexate ≤ 50 mg/m <sup>2</sup>
5	Carmustine > 250 mg/m <sup>2</sup>	2	Methotrexate > 50 mg/m <sup>2</sup> < 250 mg/m <sup>2</sup>
1	Cetuximab	3	Methotrexate 250-1,000 mg/m <sup>2</sup>
1	Chlorambucil (oral)	4	Methotrexate > 1,000 mg/m <sup>2</sup>
5	Cisplatin ≥50 mg/m <sup>2</sup>	2	Mitomycin
4	Cisplatin < 50 mg/m <sup>2</sup>	2	Mitoxantrone < 15 mg/m <sup>2</sup>
1	Cladribine	1	Nelarabine
3	Clofarabine	3	Oxaliplatin > 75 mg/m <sup>2</sup>
1	Corticosteroids	2	Paclitaxel/Paclitaxel albumin-bound
3	Cyclophosphamide (oral)	1	Panitumumab
3	Cyclophosphamide ≤ 750 mg/m <sup>2</sup>	2	Pemetrexed
4	Cyclophosphamide > 750 mg/m <sup>2</sup> to ≤ 1,500 mg/m <sup>2</sup>	1	Pentostatin
5	Cyclophosphamide > 1,500 mg/m <sup>2</sup>	5	Procabazine (oral)
2	Cytarabine (low dose) 100-200 mg/m <sup>2</sup>	1	Rituximab
4	Cytarabine > 1 g/m <sup>2</sup>	2	Sorafenib (oral)
5	Dacarbazine	5	Streptozocin
4	Dactinomycin	2	Sunitinib (oral)
1	Dasatinib (oral)	3	Temozolomide (oral)
3	Daunorubicin	1	Temsirolimus
1	Denileukin diftitox	2	Teniposide
1	Dexrazoxane	1	Thioguanine (oral)
2	Docetaxel	2	Topotecan
2	Doxorubicin (liposomal)	1	Tositumomab
3	Doxorubicin < 60 mg/m <sup>2</sup>	1	Trastuzumab
4	Doxorubicin ≥60mg/m <sup>2</sup>	1	Tretinoin (oral)
3	Epirubicin ≤ 90 mg/m <sup>2</sup>	1	Vinblastine
4	Epirubicin > 90 mg/m <sup>2</sup>	1	Vincristine
1	Erlotinib (oral)	1	Vinorelbine
2	Etoposide	3	Vinorelbine (oral)
2	Fluorouracil	2	Vorinostat (oral)
1/2	Fludarabine		

