





First FRCR Examination – Clinical Pharmacology Module List of Anti-Cancer Drugs

The table below sets out the list of drugs expected to be covered during the first year of clinical oncology training and which may be included in the clinical pharmacology module of the First FRCR examination. This list is reviewed regularly to ensure current practice is reflected. This version will apply to examinations held from spring 2022 until a further version is published.

Trainees are expected to demonstrate their knowledge of the general properties of each major class of drugs in terms of their indications, toxicity, mode of action, pharmacokinetics and pharmacodynamics and interactions. Detailed specific knowledge will only be required for the examples of each class of drug given in the table below.

Class of drugs	Examples
Cytotoxic agents	
Alkylating agents	CyclophosphamideIfosfamideTemozolomide
Anti-metabolites	Capecitabine5- Fluoro UracilGemcitabineMethotrexatePemetrexed
Anti-tumour antibiotics	BleomycinDoxorubicin (+ pegylated liposomal)EpirubicinMitomycin
Plant alkaloids / microtubule inhibitors	 Docetaxel Eribulin Etoposide Irinotecan Paclitaxel Vincristine Vinorelbine

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Class of drugs	Examples
	Carboplatin
DNA linking agents	Cisplatin
	 Oxaliplatin
Biological agents & targeted agents	
	 Alectinib
	Afatinib
	 Bevacizumab
	Cabozantinib
	Cetuximab
	Crizotinib
	Dabrafenib
	Denosumab
	Erlotinib
	Imatinib
	Osimertinib
	 Olaparib
	Rituximab
	 Sunitinib
	 Trametinib
	 Palbociclib
CDK4/6 inhibitors	Ribociclib
	 Abemaciclib
	Pertuzumab
HER-2 targeted agents	 Trastuzumab
	 Trastuzumab emtansine (TDM-1)
Bisphosphonates	
	 Zoledronic acid
Immunotherapy	
	 Atezolizumab
	Durvalumab
	Ipilimumab
	Nivolumab
	 Pembrolizumab



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Class of drugs	Examples
Hormones/other	
	AbirateroneDegarelixFulvestrant
Aromatase inhibitors	AnastrozoleExemestaneLetrozole
SERM	 Tamoxifen
Anti-androgens	EnzalutamideBicalutamide
LHRH agonists	 Goserelin