

SUPPLEMENTAL TABLE 2

FDA-APPROVED THERAPEUTICS FOR THE TREATMENT OF CANCER

INCREASING PRECISION	DNA Synthesis Inhibitors (Antimetabolites)			Certain leukemias	idarubicin	Idamycin PFS
	Approved Indication	Generic Name	Trade Name	Multiple cancers	ifosfamide	Ifex
	Multiple cancers	5-fluorouracil (5FU)	Adrucil	Certain types of leukemia	inotuzumab ozogamicin	Besponza
	Certain leukemias	6-mercaptopurine	Purinethol	Colon, lung, and rectal cancers	irinotecan	Camptosar; Campostar
	Breast and colorectal cancers	capecitabine	Xeloda	Pancreatic cancer	irinotecan liposome injection	Onivyde
	Certain leukemias; lymphoma	cladribine	Litrak; Movectro	Brain tumors	lomustine	CeeNU
	Certain leukemias	clofarabine	Clolar	Certain type of non-Hodgkin lymphoma	loncastuximab tesirine-lpyl	Zynlonta
	Certain leukemias; lymphoma	cytarabine	DepoCyt; Cytosar-U	Multiple cancers	mechlorethamine hydrochloride	Mustargen
	Stomach cancer	floxuridine	FUDR	Multiple cancers	melphalan	Alkeran
	Certain leukemias; lymphoma	fludarabine	Fludara	Multiple myeloma	melphalan flufenamide	Pepaxto
	Breast, lung, ovarian, and pancreatic cancers	gemcitabine	Gemzar	Certain lymphomas	methoxsalen	Uvadex
	Certain leukemias	hydroxyurea	Droxia	Multiple cancers	mitoxantrone	Novantrone
	Multiple cancers	methotrexate	Rheumatrex; Trexall	Colon cancer	oxaliplatin	Eloxatin
	Multiple cancers	mitomycin	Mutamycin	Testicular cancer	plicamycin	Mithracin
	Certain leukemias; lymphoma	nelarabine	Arranon	Certain lymphomas	procarbazine	Matulane
	Lung and ovarian cancers; mesothelioma	pemetrexed	Alimta	Pancreatic cancer	streptozocin	Zanosar
	Certain leukemias	pentostatin	Nipent	Melanoma; certain brain cancers	temozolomide	Temodar
	Certain lymphomas	pralatrexate	Folotyn	Certain leukemias	thioguanine	Thioguanine Tabloid
	DNA-damaging Agents			Multiple cancers	thiotepa	Thioplex
	Approved Indication	Generic Name	Trade Name	Ovarian and small cell lung cancers	topotecan	Hycamtin
	Ovarian cancer	altretamine	Hexalen	Colorectal cancer and stomach cancer	trifluridine and tipiracil	Lonsurf
	Certain leukemias	arsenic trioxide	Trisenox	Bladder cancer	valrubicin	Valstar
	Multiple cancers	bendamustine	Treanda	Cell Cytoskeleton-modifying Agents		
	Certain lymphomas; squamous cell and testicular cancers	bleomycin sulfate	Blenoxane	Approved Indication	Generic Name	Trade Name
	Certain leukemias	busulfan	Myleran; Busulfex	Multiple myeloma	belantamab mafodotin-blmf	Blenrep
	Breast, lung, and ovarian cancers	carboplatin	Paraplatin; Paraplat	Prostate cancer	cabazitaxel	Jevtana
	Brain tumors; certain lymphomas	carmustine	BICNU	Multiple cancers	docetaxel	Taxotere
	Multiple cancers	chlorambucil	Leukeran	Breast cancer; liposarcoma	eribulin mesylate	Halaven
	Multiple cancers	cisplatin	Platinol-AQ	Breast Cancer	ixabepilone	Ixemptra
	Multiple cancers	cyclophosphamide	Cytosan	Multiple cancers	paclitaxel	Taxol
	Melanoma; certain brain cancers	dacarbazine	DTIC-Dome	Breast, lung, and pancreatic cancers	paclitaxel albumin-bound particles	Abraxane
	Multiple cancers	dactinomycin	Cosmegen	Certain type of non-Hodgkin lymphoma	polatuzumab vedotin-piiq	Polivy
	Certain leukemias	daunorubicin; daunomycin	Cerubidine	Multiple cancers	vinblastine	Velban
	Multiple cancers	doxorubicin hydrochloride	Adriamycin PFS; Adriamycin RDF	Certain leukemias and lymphomas	vincristine	Oncovin
	Certain leukemias; breast and stomach cancers	epirubicin hydrochloride	Ellence	Certain leukemias and lymphomas	vincristine sulfate liposomes	Marqibo
	Testicular and lung cancers	etoposide phosphate	Etopophos; Toposar; VePesid	Breast and lung cancers	vinorelbine tartrate	Navelbine
	Certain type of leukemia	gemtuzumab ozogamicin	Mylotarg	Antinutrients		
				Approved Indication	Generic Name	Trade Name
				Certain leukemias	asparaginase	Elspar; Kidrolase
				Certain leukemias	calaspargase pegol-mknl	Asparlas
Gene Transcription Modifiers						
Approved Indication	Generic Name	Trade Name				
Certain lymphomas	bexarotene	Targretin				
Liposarcoma and leiomyosarcoma	trabectedin	Yondelis				
Certain leukemias	tretinoin (all-trans retinoic acid)	Vesanoid				
Radiation-emitting Drugs						
Approved Indication	Generic Name	Trade Name				
Certain types of neuroendocrine tumors	iobenguane I 131	Azedra				
Certain types of neuroendocrine tumors	lutetium 177 dotatate	Lutathera				
Prostate cancer bone metastases	radium Ra 223 dichloride	Xofigo				
Cell Death-promoting Agents						
Approved Indication	Generic Name	Trade Name				
Certain form of leukemia	venetoclax	Venclexta				
Hormones/Antihormones						
Approved Indication	Generic Name	Trade Name				
Prostate cancer	abarelix	Plenaxis				
Prostate cancer	abiraterone acetate	Zytiga				
Breast cancer	anastrozole	Arimidex				
Prostate cancer	apalutamide	Erleada				
Prostate cancer	bicalutamide	Casodex				
Prostate cancer	darolutamide	Nubeqa				
Prostate cancer	degarelix	Firmagon				
Prostate cancer	enzalutamide	Xtandi				
Prostate cancer	estramustine	Emcy; Estracyt				
Breast cancer	exemestane	Aromasin				
Prostate cancer	flutamide	Eulexin				
Metastatic breast cancer	fulvestrant	Faslodex				
Prostate and breast cancers	goserelin acetate implant	Zoladex				
Breast cancer	letrozole	Femara				
Prostate cancer	leuprolide acetate	Eligard; Lupron; Viadur				
Breast and endometrial cancers	megestrol acetate	Megace; Megace Oral Suspension				
Certain type of prostate cancer	relugolix	Orgovyx				
Breast cancer	tamoxifen	Nolvadex				
Prostate cancer	triptorelin pamoate	Trelstar Depot				
Immune System Modifiers						
Approved Indication	Generic Name	Trade Name				
Melanoma; kidney cancer	aldesleukin	Proleukin				
Multiple cancers	interferon alfa-2b	Intron A				
Myelodysplastic syndrome; certain lymphomas	lenalidomide	Revlimid				
Kaposi Sarcoma; multiple myeloma	pomalidomide	Pomalyst				
Proteasome Inhibitors						
Approved Indication	Generic Name	Trade Name				
Multiple myeloma	bortezomib	Velcade				
Multiple myeloma	carfilzomib	Kyprolis				
Multiple myeloma	ixazomib	Ninlaro				
Protein Translation Inhibitors						
Approved Indication	Generic Name	Trade Name				
Certain type of leukemia	omacetaxine mepesuccinate	Synribo				
Nuclear Export Inhibitors						
Approved Indication	Generic Name	Trade Name				
Certain type of lymphoma and multiple myeloma	selinexor	Xpovio				
Epigenome-modifying Agents						
Approved Indication	Generic Name	Trade Name				
Myelodysplastic syndrome and certain type of leukemia	azacitidine	Vidaza				
Certain lymphomas	belinostat	Beleodaq				
Myelodysplastic syndrome	decitabine	Dacogen				
Certain type of leukemia	enasidenib*	Idhifa				
Certain type of leukemia	ivosidenib*	Tibsovo				
Multiple myeloma	panobinostat	Farydak				
Certain lymphomas	romidepsin	Istodax				
Certain types of sarcoma and lymphoma*	tazemetostat	Tazverik				
Certain lymphomas	vorinostat	Zolinza				
DNA Repair Inhibitors						
Approved Indication	Generic Name	Trade Name				
Certain types of ovarian, fallopian tube, and primary peritoneal cancers	niraparib	Zejula				
Certain forms of breast, ovarian, pancreatic, and prostate cancers	olaparib*	Lynparza				
Certain types of ovarian and prostate cancer	rucaparib*	Rubraca				
Certain type of breast cancer	talazoparib*	Talzenna				
Immune Checkpoint Inhibitors						
Approved Indication	Generic Name	Trade Name				
Certain types of bladder, breast, and lung cancers	atezolizumab	Tecentriq				
Certain types of bladder, kidney, and skin cancers	avelumab	Bavencio				
Certain types of skin and lung cancer	cemiplimab-rwlc	Libtayo				
Certain type of endometrial cancer	dostarlimab-gxly	Jemperli				
Certain types of bladder cancer and lung cancer	durvalumab	Imfinzi				

* includes companion diagnostic
Some drugs are available in multiple formulations; these have only been listed once. Where multiple trade names are used, only the most common have been listed.