

Cancer drug costs for a month of treatment at initial Food and Drug Administration approval

Generic name	Brand name(s)	Year of FDA approval	Monthly Cost (actual \$'s)	Monthly cost (2013 \$'s)
Vinblastine	Velban	1965	\$78	\$575
Thioguanine, 6-TG	Thioguanine Tabloid	1966	\$17	\$122
Hydroxyurea	Hydrea	1967	\$14	\$97
Cytarabine	Cytosar-U, Tarabine PFS	1969	\$13	\$82
Procarbazine	Matulane	1969	\$2	\$13
Testolactone	Teslac	1969	\$179	\$1,136
Mitotane	Lysodren	1970	\$134	\$801
Plicamycin	Mithracin	1970	\$50	\$299
Mitomycin C	Mutamycin	1974	\$5	\$22
Dacarbazine	DTIC-Dome	1975	\$29	\$125
Lomustine	CeeNU	1976	\$10	\$41
Carmustine	BiCNU, BCNU	1977	\$33	\$127
Tamoxifen citrate	Nolvadex	1977	\$44	\$167
Cisplatin	Platinol	1978	\$125	\$445
Estramustine	Emcyt	1981	\$420	\$1,074
Streptozocin	Zanosar	1982	\$61	\$147
Etoposide, VP-16	Vepesid	1983	\$181	\$422
Interferon alfa 2a	Roferon A	1986	\$742	\$1,573
Daunorubicin, Daunomycin	Cerubidine	1987	\$533	\$1,090
Doxorubicin	Adriamycin	1987	\$521	\$1,066
Mitoxantrone	Novantrone	1987	\$477	\$976
Ifosfamide	IFEX	1988	\$1,667	\$3,274
Flutamide	Eulexin	1989	\$213	\$399
Altretamine	Hexalen	1990	\$341	\$606
Idarubicin	Idamycin	1990	\$227	\$404
Levamisole	Ergamisol	1990	\$105	\$187
Carboplatin	Paraplatin	1991	\$860	\$1,467
Fludarabine phosphate	Fludara	1991	\$662	\$1,129
Pamidronate	Aredia	1991	\$507	\$865
Pentostatin	Nipent	1991	\$1,767	\$3,015
Aldesleukin	Proleukin	1992	\$13,503	\$22,364
Melphalan	Alkeran	1992	\$35	\$58
Cladribine	Leustatin, 2-CdA	1993	\$764	\$1,229
Asparaginase	Elspar	1994	\$694	\$1,088
Paclitaxel	Taxol	1994	\$2,614	\$4,099
Pegaspargase	Oncaspar	1994	\$3,006	\$4,713
Vinorelbine	Navelbine	1994	\$1,035	\$1,623
Anastrozole	Arimidex	1995	\$189	\$288
Bicalutamide	Casodex	1995	\$311	\$474
Doxorubicin liposomal	Doxil, Dox-SL, Evacet, LipoDox	1995	\$1,488	\$2,269
Goserelin acetate	Zoladex	1995	\$415	\$633

Porfimer sodium	Photofrin	1995	\$520	\$793
Tretinoin, ATRA	Vesanoid	1995	\$2,435	\$3,713
Bleomycin	Blenoxane	1996	\$421	\$623
Daunorubicin liposomal	DanuoXome	1996	\$847	\$1,254
Etoposide phosphate	Etopophos	1996	\$685	\$1,014
Gemcitabine	Gemzar	1996	\$2,129	\$3,153
Irinotecan	Camptosar	1996	\$5,326	\$7,888
Nilutamide	Nilandron	1996	\$320	\$474
Topotecan	Hycamtin	1996	\$2,344	\$3,471
Letrozole	Femara	1997	\$180	\$260
Rituximab	Rituxan	1997	\$3,475	\$5,031
Toremifene	Fareston	1997	\$93	\$135
BCG Live	TICE BCG	1998	\$53	\$75
Capecitabine	Xeloda	1998	\$1,045	\$1,490
Leuprolide acetate	Eligard, Lupron, Lupron Depot	1998	\$206	\$293
Trastuzumab	Herceptin	1998	\$3,208	\$4,573
Valrubicin	Valstar	1998	\$3,209	\$4,575
Bexarotene	Targretin	1999	\$2,361	\$3,294
Busulfan	Busulfex (Myleran)	1999	\$1,427	\$1,990
Cytarabine liposomal	DepoCyt, DepoFoam	1999	\$3,351	\$4,674
Denileukin	Ontak	1999	\$14,291	\$19,932
Docetaxel	Taxotere	1999	\$2,610	\$3,640
Epirubicin	Ellence	1999	\$2,295	\$3,201
Exemestane	Aromasin	1999	\$205	\$286
Methoxsalen	Uvadex	1999	\$80	\$111
Temozolomide	Temodar	1999	\$1,574	\$2,195
Arsenic trioxide	Trisenox	2000	\$5,400	\$7,287
Gemtuzumab ozogamicin	Mylotarg	2000	\$4,262	\$5,751
Triptorelin pamoate	Trelstar Depot	2000	\$450	\$607
Alemtuzumab	Campath	2001	\$19,925	\$26,143
Imatinib mesylate	Gleevec	2001	\$3,401	\$4,462
Fulvestrant	Faslodex	2002	\$948	\$1,225
Ibritumomab tiuxetan	Zevalin	2002	\$1,000	\$1,291
Oxaliplatin	Eloxatin	2002	\$5,911	\$7,635
Zoledronic acid	Zometa	2002	\$881	\$1,138
Abarelix	Plenaxis depot	2003	\$2,607	\$3,293
Bortezomib	Velcade	2003	\$3,392	\$4,284
Gefitinib	Iressa	2003	\$1,608	\$2,030
Tositumomab	Bexxar	2003	\$1,449	\$1,830
Azacitidine	Vidaza, Mylosar	2004	\$3,909	\$4,808
Bevacizumab	Avastin	2004	\$4,429	\$5,448
Cetuximab	Erbitux	2004	\$9,465	\$11,643
Erlotinib	Tarceva	2004	\$4,174	\$5,134
Pemetrexed disodium	Alimta	2004	\$5,086	\$6,256
Lenalidomide	Revlimid	2005	\$7,989	\$9,505
Nelarabine	Arranon	2005	\$19,425	\$23,112
nab-Paclitaxel	Abraxane	2005	\$5,640	\$6,710

Sorafenib	Nexavar	2005	\$5,097	\$6,064
Dasatinib	Sprycel	2006	\$4,529	\$5,220
Decitabine	Dacogen	2006	\$4,652	\$5,362
Panitumumab	Vectibix	2006	\$7,991	\$9,210
Sunitinib maleate	Sutent	2006	\$4,590	\$5,290
Thalidomide	Thalomid, Synovir	2006	\$5,613	\$6,470
Vorinostat	Zolinza	2006	\$8,134	\$9,375
Ixabepilone	Ixempra	2007	\$6,781	\$7,599
Lapatinib ditosylate	Tykerb	2007	\$3,124	\$3,501
Nilotinib	Tasigna	2007	\$6,140	\$6,881
Temsirolimus	Torisel	2007	\$5,497	\$6,160
Degarelix	Firmagon	2008	\$595	\$642
Bendamustine HCL	Treanda	2008	\$7,023	\$7,580
Everolimus	Afinitor	2009	\$7,885	\$8,541
Pralatrexate injection	Folotyn	2009	\$19,732	\$21,371
Ofatumumab	Arzerra	2009	\$13,106	\$14,196
Pazopanib	Votrient	2009	\$6,013	\$6,512
Romidepsin	Istodax	2009	\$16,958	\$18,368
Cabazitaxel	Jevtana Injection	2010	\$10,842	\$11,554
Sipuleucel-T	Provenge	2010	\$35,588	\$37,924
Eribulin mesylate	Halaven	2010	\$6,193	\$6,600
Ipilimumab	Yervoy	2011	\$37,956	\$40,447
Vandetanib	Vandetanib	2011	\$10,413	\$10,757
Abiraterone acetate	Zytiga	2011	\$5,259	\$5,433
Vemurafenib tablets	Zelboraf	2011	\$10,767	\$11,122
Brentuximab vedotin	Adcetris	2011	\$19,495	\$20,139
Crizotinib	Xalkori	2011	\$11,011	\$11,375
Axitinib	Inlyta	2012	\$9,291	\$9,403
Vismodegib	Erivedge	2012	\$8,546	\$8,649
Ziv-aflibercept	Zaltrap	2012	\$11,063	\$11,196
Carfilzomib	Kyprolis	2012	\$7,153	\$7,240
Pertuzumab	Perjeta	2012	\$5,605	\$5,673
Enzalutamide	Xtandi	2012	\$7,078	\$7,163
Bosutinib	Bosulif	2012	\$8,287	\$8,387
Regorafenib	Stivarga	2012	\$9,620	\$9,736
Omacetaxine mepesuccinate	Synribo	2012	\$6,357	\$6,434
Cabozantinib	Cometriq	2012	\$9,921	\$10,041
Ponatinib	Iclusig	2012	\$9,104	\$9,214
Ado-trastuzumab emtansine	Kadcyla	2013	\$10,635	\$10,635
Pomalidomide	Pomalyst	2013	\$11,336	\$11,336
Trametinib	Mekinist	2013	\$8,812	\$8,812
Dabrafenib	Tafinlar	2013	\$9,411	\$9,411
Ra 223	Xofigo	2013	\$12,455	\$12,455
Lenalidomide	Revlimid	2013	\$7,698	\$7,698
Afatatinib	Gilotrif	2013	\$5,500	\$5,500
Ibrutinib	Imbruvica	2013	\$10,900	\$10,900