

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

| Generic name | Brand name | Year of FDA approval | Monthly cost (actual \$) | Monthly cost (2014\$) |
|--------------------------|-------------------------|-----------------------------|---------------------------------|------------------------------|
| vinblastine | Velban | 1965 | \$78 | \$586 |
| thioguanine, 6-TG | Thioguanine Tabloid | 1966 | \$17 | \$124 |
| hydroxyurea | Hydrea | 1967 | \$14 | \$99 |
| procarbazine | Matulane | 1969 | \$2 | \$13 |
| cytarabine | Cytosar-U, Tarabine PFS | 1969 | \$13 | \$84 |
| testolactone | Teslac | 1969 | \$179 | \$1,158 |
| plicamycin | Mithracin | 1970 | \$50 | \$305 |
| mitotane | Lysodren | 1970 | \$134 | \$816 |
| mitomycin C | Mutamycin | 1974 | \$5 | \$23 |
| dacarbazine | DTIC-Dome | 1975 | \$29 | \$128 |
| lomustine | CeeNU | 1976 | \$10 | \$42 |
| carmustine | BiCNU, BCNU | 1977 | \$33 | \$129 |
| tamoxifen citrate | Nolvadex | 1977 | \$44 | \$170 |
| cisplatin | Platinol | 1978 | \$125 | \$454 |
| estramustine | Emcyt | 1981 | \$420 | \$1,094 |
| streptozocin | Zanosar | 1982 | \$61 | \$150 |
| etoposide, VP-16 | Vepesid | 1983 | \$181 | \$430 |
| interferon alfa 2a | Roferon A | 1986 | \$742 | \$1,603 |
| mitoxantrone | Novantrone | 1987 | \$477 | \$994 |
| doxorubicin | Adriamycin | 1987 | \$521 | \$1,086 |
| daunorubicin, daunomycin | Cerubidine | 1987 | \$533 | \$1,111 |
| ifosfamide | IFEX | 1988 | \$1,667 | \$3,336 |
| flutamide | Eulexin | 1989 | \$213 | \$406 |
| levamisole | Ergamisol | 1990 | \$105 | \$191 |
| idarubicin | Idamycin | 1990 | \$227 | \$411 |
| altretamine | Hexalen | 1990 | \$341 | \$618 |
| pamidronate | Aredia | 1991 | \$507 | \$881 |
| fludarabine phosphate | Fludara | 1991 | \$662 | \$1,151 |
| carboplatin | Paraplatin | 1991 | \$860 | \$1,495 |
| pentostatin | Nipent | 1991 | \$1,767 | \$3,071 |
| melphalan | Alkeran | 1992 | \$35 | \$59 |
| aldesleukin | Proleukin | 1992 | \$13,503 | \$22,784 |
| cladribine | Leustatin, 2-CdA | 1993 | \$764 | \$1,252 |
| asparaginase | Elspar | 1994 | \$694 | \$1,109 |
| vinorelbine | Navelbine | 1994 | \$1,035 | \$1,653 |
| paclitaxel | Taxol | 1994 | \$2,614 | \$4,176 |
| pegaspargase | Oncaspar | 1994 | \$3,006 | \$4,802 |
| anastrozole | Arimidex | 1995 | \$189 | \$294 |
| bicalutamide | Casodex | 1995 | \$311 | \$483 |
| goserelin acetate | Zoladex | 1995 | \$415 | \$645 |

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|------------------------|--------------------------------|------|----------|----------|
| porfimer sodium | Photofrin | 1995 | \$520 | \$808 |
| doxorubicin liposomal | Doxil, Dox-SL, Evacet, LipoDox | 1995 | \$1,488 | \$2,311 |
| tretinoin, ATRA | Vesanoid | 1995 | \$2,435 | \$3,782 |
| nilutamide | Nilandron | 1996 | \$320 | \$483 |
| bleomycin | Blenoxane | 1996 | \$421 | \$635 |
| etoposide phosphate | Etopophos | 1996 | \$685 | \$1,034 |
| daunorubicin liposomal | DanuoXome | 1996 | \$847 | \$1,278 |
| gemcitabine | Gemzar | 1996 | \$2,129 | \$3,212 |
| topotecan | Hycamtin | 1996 | \$2,344 | \$3,537 |
| docetaxel | Taxotere | 1996 | \$2,610 | \$3,938 |
| irinotecan | Camptosar | 1996 | \$5,326 | \$8,036 |
| toremifene | Fareston | 1997 | \$93 | \$138 |
| letrozole | Femara | 1997 | \$180 | \$265 |
| rituximab | Rituxan | 1997 | \$3,475 | \$5,126 |
| BCG Live | TICE BCG | 1998 | \$53 | \$77 |
| leuprolide acetate | Eligard, Lupron, Lupron Depot | 1998 | \$206 | \$299 |
| capecitabine | Xeloda | 1998 | \$1,045 | \$1,518 |
| trastuzumab | Herceptin | 1998 | \$3,208 | \$4,659 |
| valrubicin | Valstar | 1998 | \$3,209 | \$4,661 |
| methoxsalen | Uvadex | 1999 | \$80 | \$113 |
| exemestane | Aromasin | 1999 | \$205 | \$292 |
| busulfan | Busulfex (Myleran) | 1999 | \$1,427 | \$2,028 |
| temozolomide | Temodar | 1999 | \$1,574 | \$2,237 |
| epirubicin | Ellence | 1999 | \$2,295 | \$3,261 |
| bexarotene | Targretin | 1999 | \$2,361 | \$3,356 |
| cytarabine liposomal | DepoCyt, DepoFoam | 1999 | \$3,351 | \$4,762 |
| denileukin | Ontak | 1999 | \$14,291 | \$20,307 |
| triptorelin pamoate | Trelstar Depot | 2000 | \$450 | \$618 |
| gemtuzumab ozogamicin | Mylotarg | 2000 | \$4,262 | \$5,859 |
| arsenic trioxide | Trisenox | 2000 | \$5,400 | \$7,424 |
| imatinib mesylate | Gleevec | 2001 | \$3,401 | \$4,546 |
| alemtuzumab | Campath | 2001 | \$19,925 | \$26,634 |
| zoledronic acid | Zometa | 2002 | \$881 | \$1,159 |
| fulvestrant | Faslodex | 2002 | \$948 | \$1,248 |
| ibritumomab tiuxetan | Zevalin | 2002 | \$1,000 | \$1,315 |
| oxaliplatin | Eloxatin | 2002 | \$5,911 | \$7,778 |
| tositumomab | Bexxar | 2003 | \$1,449 | \$1,864 |
| gefitinib | Iressa | 2003 | \$1,608 | \$2,069 |
| abarelix | Plenaxis depot | 2003 | \$2,607 | \$3,354 |
| bortezomib | Velcade | 2003 | \$3,392 | \$4,364 |
| azacitidine | Vidaza, Mylosar | 2004 | \$3,909 | \$4,899 |
| erlotinib | Tarceva | 2004 | \$4,174 | \$5,231 |
| bevacizumab | Avastin | 2004 | \$4,429 | \$5,551 |
| pemetrexed disodium | Alimta | 2004 | \$5,086 | \$6,374 |

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| cetuximab | Erbitux | 2004 | \$9,465 | \$11,862 |
| sorafenib | Nexavar | 2005 | \$5,097 | \$6,178 |
| paclitaxel albumin-stabilized nanoparticle formulation | Abraxane, Nanoparticle Paclitaxel | 2005 | \$5,640 | \$6,837 |
| lenalidomide | Revlimid | 2005 | \$7,989 | \$9,684 |
| nelarabine | Arranon | 2005 | \$19,425 | \$23,546 |
| dasatinib | Sprycel | 2006 | \$4,529 | \$5,318 |
| sunitinib maleate | Sutent | 2006 | \$4,590 | \$5,390 |
| decitabine | Dacogen | 2006 | \$4,652 | \$5,463 |
| thalidomide | Thalomid, Synovir | 2006 | \$5,613 | \$6,591 |
| panitumumab | Vectibix | 2006 | \$7,991 | \$9,384 |
| vorinostat | Zolinza | 2006 | \$8,134 | \$9,552 |
| lapatinib ditosylate | Tykerb | 2007 | \$3,124 | \$3,567 |
| temsirolimus | Torisel | 2007 | \$5,497 | \$6,276 |
| nilotinib | Tasigna | 2007 | \$6,140 | \$7,010 |
| ixabepilone | Ixempra | 2007 | \$6,781 | \$7,742 |
| degarelix | Firmagon | 2008 | \$595 | \$654 |
| bendamustine HCL | Treanda | 2008 | \$7,026 | \$7,725 |
| pazopanib | Votrient | 2009 | \$6,013 | \$6,635 |
| everolimus | Afinitor | 2009 | \$7,885 | \$8,701 |
| romidepsin | Istodax | 2009 | \$16,958 | \$18,713 |
| ofatumumab | Arzerra | 2009 | \$18,315 | \$19,884 |
| pralatrexate injection | Folotyn | 2009 | \$19,732 | \$21,773 |
| eribulin mesylate | Halaven | 2010 | \$6,193 | \$6,724 |
| cabazitaxel | Jevtana Injection | 2010 | \$10,842 | \$11,771 |
| sipuleucel-T | Provenge | 2010 | \$35,588 | \$38,637 |
| abiraterone acetate | Zytiga | 2011 | \$5,259 | \$5,535 |
| ruxolitinib phosphate | Jakafi | 2014 | \$8,865 | \$8,878 |
| vandetanib | Caprelsa | 2011 | \$10,413 | \$10,959 |
| vemurafenib tablets | Zelboraf | 2011 | \$10,767 | \$11,332 |
| crizotinib | Xalkori | 2011 | \$11,011 | \$11,589 |
| brentuximab vedotin | Adcetris | 2011 | \$19,495 | \$20,517 |
| asparaginase Erwinia chrysanthemi | Erwinaze | 2013 | \$24,622 | \$25,021 |
| ipilimumab | Yervoy | 2011 | \$37,956 | \$39,947 |
| omacetaxine mepesuccinate | Synribo | 2012 | \$6,357 | \$6,555 |
| enzalutamide | Xtandi | 2012 | \$7,078 | \$7,298 |
| pertuzumab | Perjeta | 2013 | \$7,758 | \$7,883 |
| carfilzomib | Kyprolis | 2013 | \$7,959 | \$8,089 |
| bosutinib | Bosulif | 2012 | \$8,287 | \$8,545 |
| vismodegib | Erivedge | 2012 | \$8,546 | \$8,812 |
| ponatinib | Iclusig | 2012 | \$9,104 | \$9,387 |
| axitinib | Inlyta | 2012 | \$9,291 | \$9,580 |
| regorafenib | Stivarga | 2012 | \$9,620 | \$9,919 |

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|---------------------------|-----------|------|----------|----------|
| cabozantinib | Cometriq | 2012 | \$9,921 | \$10,229 |
| ziv-aflibercept | Zaltrap | 2012 | \$11,063 | \$11,407 |
| obinutuzumab | Gazyva | 2013 | \$5,878 | \$5,973 |
| afatanib | Gilotrif | 2013 | \$6,071 | \$6,170 |
| trametinib | Mekinist | 2013 | \$8,812 | \$8,955 |
| dabrafenib | Tafinlar | 2013 | \$9,411 | \$9,564 |
| ado-trastuzumab emtansine | Kadcyla | 2013 | \$10,635 | \$10,807 |
| ibrutinib | Imbruvica | 2013 | \$10,900 | \$11,077 |
| pomalidomide | Pomalyst | 2013 | \$11,336 | \$11,520 |
| Ra 223 | Xofigo | 2013 | \$12,455 | \$12,657 |
| pembrolizumab | Keytruda | 2014 | \$9,240 | \$9,240 |
| nivolumab | Opdivo | 2014 | \$12,435 | \$12,435 |
| ramucirumab | Cyramza | 2014 | \$13,093 | \$13,093 |
| ceritinib | Zykadia | 2014 | \$13,672 | \$13,672 |
| blinatumomab | Blincyto | 2014 | \$64,260 | \$64,260 |
| Idelalisib | Zydelig | 2014 | \$8,015 | \$8,015 |
| belinostat | Beleodaq | 2014 | \$38,895 | \$38,895 |
| olaparib | Lynparza | 2014 | \$12,155 | \$12,155 |
| panobinostat | Farydak | 2015 | \$9,926 | \$9,914 |
| palbociclib | Ibrance | 2015 | \$10,690 | \$10,677 |
| lenvatinib | Lenvima | 2015 | \$13,766 | \$13,750 |
| trifluridine/tipiracil | Lonsurf | 2015 | \$13,404 | \$13,388 |
| trabectedin | Yondelis | 2015 | \$11,334 | \$11,321 |
| osimertinib | Tagrisso | 2015 | \$12,750 | \$12,735 |
| cobimetinib | Cotellic | 2015 | \$7,484 | \$7,475 |
| daratumumab | Darzalex | 2015 | \$11,296 | \$11,282 |
| ixazomib | Ninlaro | 2015 | \$8,920 | \$8,912 |
| elotuzumab | Empliciti | 2015 | \$10,000 | \$9,988 |