

Supplementary information S1 | **Currently approved nucleos(t)ide analogues and indications**

Type of agent	Name, abbreviation, commercial name	Current licensor/manufacturer and date of FDA approval	Indications
Anticancer agents	Cytarabine, AraC, Aracytine	Pfizer, 1969	Acute myeloid leukaemia Acute lymphocytic leukaemia Lymphomas
	Fludarabine, FaraAMP, Fludara	Genzyme, 1991	Chronic lymphocytic leukaemia Non-Hodgkins lymphoma Acute myeloid leukaemia
	Cladribine, 2CdA, Leustatine	Janssen-Cilag, 1993	Hairy cell leukaemia
	Gemcitabine, dFdC, Gemzar	Eli Lilly and Co, 1996	Non-small lung cancer Pancreatic cancer Bladder cancer Breast cancer
	Clofarabine, CAFdA, Evoltra, Clolar	Genzyme, 2004	Acute lymphocytic leukaemia
	Nelarabine, AraG, Atriance, Arranon	SmithKline Beecham, 2005	T-cell acute lymphoblastic leukaemia
	Capecitabine, Xeloda	Hoffmann-La Roche, 1998	Metastatic breast cancer Metastatic colorectal cancer
	Floxuridine, FUDR	Hospira, 1970	Advanced colon cancer, kidney cancer and stomach cancer
	Deoxycoformycin, pentostatin, Nipent	Hospira Inc, 1991	Hairy cell leukemia Chronic lymphocytic leukaemia
Demethylating agents	Azacitidine, Vidaza	Celgene, 2004	Myelodysplastic syndrome
	Decitabine, Dacogen	Eisai Inc. and Janssen Cilag, 2006	Myelodysplastic syndrome, acute myeloid leukemia

Antiviral agents	Edoxudine, EdU, Aedurid	Upjohn, 1969	HSV
	Vidarabine, Ara-A, Vira-A	Parkedale pharmaceuticals, no FDA label	HSV, VZV
	Ribavirin, RBV, Virazole	First developed by ICN Pharmaceuticals, 1980, no FDA label	HCV, Influenza, Flaviviruses, hemorrhagic viruses, RSV...
	Brivudine, BVDU, Helpin	Berlin Chemie, 80s, no FDA label	HSV, VZV
	Idoxuridine, IdU, Herplex	GSK, 80s, no FDA label	HSV, VZV
	Trifluridine, F3T, Viroptic	King Pharmaceuticals, 80s, FDA	HSV
	Acyclovir, ACV, Aciclovir	Many manufacturers, 1982	HSV, VZV
	Zidovudine, AZT, Retrovir	GSK, 1987	HIV
	Ganciclovir, GCV, Cytovene	Hoffmann-La Roche, 1989	CMV
	Didanosine, ddI, Videx	BMS, 1991	HIV
	Zalcitabine, ddC, Hivid	Hoffmann-La Roche, 1992	HIV
	Stavudine, d4T, Zerit	BMS, 1994	HIV
	Lamivudine, 3TC, Epivir	GSK, 1995	HIV, then HBV
	Valaciclovir, VACV, Valtrex	GSK, 1996	HSV, VZV, EBV, CMV
	Cidofovir, S-HPMPC, Vistide	Gilead Sciences and Pfizer, 1996	CMV in AIDS
	Abacavir, ABV, Ziagen	GSK, 1998	HIV
	Tenofovir disoproxil fumarate, PMPA, Viread	Gilead Sciences, 2001	HIV, then HBV
	Valganciclovir, VGCV, Valcyte	Hoffmann-La Roche, 2001	CMV
	Penciclovir, PE2, Denavir	Novartis, 2002	HSV
	Adefovir, dipivoxil PMEA, Hepsera	Gilead Sciences, 2003	HBV
	Emtricitabine, FTC, Emtriva	Gilead Sciences, 2003	HIV, then HBV

	Entecavir, ETV, Baraclude	BMS, 2004	HBV
	Telbivudine, LdT, Tyzeka	Novartis, 2006	HBV
	Clevudine, L-FMAU, Levovir	Bukwang pharmaceuticals, no FDA label, approved in South Korea 2006	HBV
	Famciclovir, FCV, Famvir	Novartis, 2007	HSV