

Research Toward a Cure January 14, 2022

Table 1. Current Clinical Trials

Trial	Trial Registry Identifier(s)	Sponsor(s)	Phase	Estimated End Date/Interim Results
ADOPTIVE IMMUNOTHERAPY				
AutoRESIST: HIV antigen-specific T-cells targeting conserved epitopes for treatment of HIV-associated lymphoma	NCT04975698	Catherine Bollard, Children's Research Institute	Phase II	June 2026
AlloRESIST: Evaluate the safety, immunologic, and virologic responses of donor derived HIV-specific T-cells in HIV+ individuals following allogeneic bone marrow transplantation	NCT04248192	Catherine Bollard, Children's Research Institute	Phase I	April 2024
HST-NEETs: HIV-1 specific T-cells for HIV+ individuals	NCT03485963	Children's Research Institute	Phase I	December 2023
ANTIBODIES				
VRC01 (analytical treatment interruption in HVTN 703/HPTN 081 AMP trial participants)	NCT04860323	HIV Vaccine Trials Network	N/A	November 2022
VRC01 (analytical treatment interruption in HVTN 704/HPTN 085 AMP trial participants)	NCT04801758	HIV Vaccine Trials Network	N/A	June 2022
GSK3810109A (broadly neutralizing antibody formerly named N6-LS)	NCT04871113	ViiV Healthcare	Phase IIa	November 2023
10-1074-LS + 3BNC117-LS in primary HIV infection	NCT04319367	Imperial College London	Phase II	March 2025 PREPRINT (Version 1), Research Square
UB-421 (antibody inhibitor of HIV binding to CD4 receptors)	NCT04404049 (not yet open for enrollment)	UBP Greater China (Shanghai) Co., Ltd	Phase II	June 2024
UB-421	NCT03743376 (closed to enrollment)	United BioPharma	Phase II	December 2021
vedolizumab (anti- $\alpha_4\beta_7$ integrin antibody)	NCT03147859	Ottawa Hospital Research Institute	Phase II	December 2021 CROI 2019, Abstract 393 , Webcast
PGT121 + VRC07-523LS +/- PGDM1400 (broadly neutralizing antibodies)	NCT03721510	International AIDS Vaccine Initiative	Phase I/IIa	October 2022

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ANTIBODIES (Cont.)				
VRC01LS + 10-1074 (broadly neutralizing antibodies) in early-treated children	NCT03707977 (closed to enrollment)	NIAID	Phase I/II	October 2021 CROI 2021, Abstract 609 , Webcast
ABBV-382 (anti- $\alpha_4\beta_7$ integrin antibody)	NCT04554966	AbbVie	Phase Ib	February 2023
3BNC117-LS + 10-1074-LS	NCT05079451 (not yet open for enrollment)	NIAID	Phase I	February 2024
3BNC117 + 10-1074	NCT03526848 (closed to enrollment)	Rockefeller University	Phase I	April 2022
3BNC117-LS + 10-1074-LS in viremic HIV+ individuals	NCT04250636 (closed to enrollment)	Rockefeller University	Phase I	April 2022
AAV8-VRC07 (broadly neutralizing antibody delivered by AAV vector)	NCT03374202 (closed to enrollment)	NIAID	Phase I	March 2027 CROI 2021, Abstract 160 , Webcast CROI 2020, Abstract 41LB , Webcast
SAR441236 (tri-specific broadly neutralizing antibody)	NCT03705169	NIAID	Phase I	November 2022
ANTI-CMV THERAPY				
Ietermovir (Prevymis)	NCT04840199 (not yet open for enrollment)	NIAID	Phase II	June 2024

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ANTI-INFLAMMATORY				
canakinumab (IL-1 β inhibitor)	NCT02272946 (closed to enrollment)	University of California, San Francisco	Phase II	December 2022 J Am Coll Cardiol. 2018 Dec 4;72(22):2809-2811. CROI 2017, Abstract 126, Webcast
ANTIRETROVIRAL THERAPY				
doravirine concentrations and antiviral activity in cerebrospinal fluid	NCT04079452 (not yet open for enrollment)	Fundacio Lluita Contra la SIDA	Phase III	October 2020
IDOLTIB : Impact of dolutegravir + lamivudine simplification on HIV-1 reservoirs	NCT04034862	University of Liege	Phase III	March 2022
CANNABINOIDS				
TN-CT11LM, TN-TC19LM oral capsules	NCT03550352 (not yet open for enrollment)	McGill University Health Center	Phase II	August 2022
COMBINATIONS				
Perturbing of HIV reservoir with immune stimulation : Fluarix, Pneumovax vaccines	NCT02707692 (closed to enrollment)	University of California, San Diego	Not listed	January 2022
MVA.HTI + ChAdOx1.HTI therapeutic vaccines + vesatolimod (TLR7 agonist)	NCT04364035 (closed to enrollment)	Aelix Therapeutics	Phase IIa	December 2022
TITAN : lefitolimod + 3BNC117 + 10-1074 (TLR9 agonist + broadly neutralizing antibodies)	NCT03837756	University of Aarhus	Phase IIa	February 2023
Albuvirtide (fusion inhibitor) + 3BNC117	NCT04819347 (not yet open for enrollment)	Frontier Biotechnologies Inc.	Phase II	December 2022
ASC22 (anti-PD-L1 antibody) + chidamide (HDAC inhibitor)	NCT05129189 (not yet open for enrollment)	Shanghai Public Health Clinical Center	Phase II	May 2023
eCLEAR : romidepsin + 3BNC117	NCT03041012 (closed to enrollment)	Aarhus University Hospital	Phase II	December 2021

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COMBINATIONS (Cont.)				
MVA HIV-B +/- vedolizumab (viral vector vaccine +/- anti- $\alpha_4\beta_7$ integrin antibody)	NCT04120415 (not yet open for enrollment)	French National Agency for Research on AIDS and Viral Hepatitis (Inserm/ANRS)	Phase II	December 2022
Research in Viral Eradication of HIV Reservoirs (RIVER): ART, ChAdV63.HIVconsv & MVA.HIVconsv vaccines, vorinostat	NCT02336074 UK CPMS18010 (closed to enrollment)	Imperial College London	Phase II	November 2022 J Virus Erad. 2021 Sep 14; 7(3):100056. Lancet. 2020 Mar 14;395(10227):888-898 AIDS 2018, Abstract TUAA0202LB (slides , video)
UB-421 + chidamide (antibody inhibitor of HIV binding to CD4 receptors + HDAC inhibitor)	NCT04985890 (not yet open for enrollment)	UBP Greater China (Shanghai) Co., Ltd	Phase II	December 2025
UB-421 + chidamide	NCT05056974 (not yet open for enrollment)	United BioPharma	Phase II	December 2023
vorinostat +/- tamoxifen in postmenopausal women	NCT03382834 (closed to enrollment)	NIAID	Phase II	June 2023 CROI 2020, Abstract 333 , Webcast HIV Persistence Workshop 2019, Abstract OP 3.2 (see abstract book)
Ad26.Mos4.HIV, MVA-BN-HIV, PGT121, PGDM1400, VRC07-523LS (therapeutic vaccines, broadly neutralizing antibodies)	NCT04983030 (not yet open for enrollment)	Boris Juelg, MD PhD	Phase I/IIa	March 2024

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COMBINATIONS (Cont.)				
HIVARNA01.3, MVA vector HIV vaccine, 10-1074, romidepsin, HIVACAR01 (HIV RNA vaccine)	NCT03619278 (not yet open for enrollment)	David Garcia Cinca	Phase I/IIa	July 2021
IMPAACT P1115 v2.0: Very early intensive treatment of HIV-infected infants to achieve HIV remission (ART +/- VRC01)	NCT02140255	IMPAACT	Phase I/II	December 2031
panobinostat + pegylated interferon-alpha2a	NCT02471430	Massachusetts General Hospital	Phase I/II	December 2021 CROI 2020, Abstract 341
Therapeutic conserved element DNA vaccine (IL-12 adjuvanted p24CE), MVA vaccine boost (MVA/HIV62B), TLR9 agonist (lefitolimod) and broadly neutralizing antibodies (VRC07-523LS + 10-1074)	NCT04357821	UCSF	Phase I/II	December 2024
elipovimab (formerly GS-9722) +/- vesatolimod	GS-US-420-3902 (no clinicaltrials.gov entry)	Gilead Sciences	Phase Ib	N/A
CD4-ZETA gene-modified T cells +/- interleukin-2 (IL-2)	NCT01013415 (closed to enrollment)	University of Pennsylvania	Phase I	March 2022 CROI 2020, Abstract 337 , Webcast Mol Ther. 2002 Jun;5(6):788-97
HVRRICANE: HIVIS DNA + MVA-CMDR vaccines +/- TLR4 agonist	NCT04301154 (not yet open for enrollment)	PENTA Foundation	Phase I	September 2021
N-803 (recombinant human super agonist interleukin-15 complex) +/- VRC07-523LS + 10-1074	NCT04340596	NIAID	Phase I	November 2024
peginterferon alfa-2b + 3BNC117 + 10-1074 (BEAT-2)	NCT03588715 (closed to enrollment)	Wistar Institute	Phase I	October 2022
vorinostat + HXTC: HIV 1 antigen expanded specific T cell therapy	NCT03212989	Julia Sung, MD, University of North Carolina, Chapel Hill	Phase I	June 2022

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CYTOKINES				
N-803 in acute HIV infection	NCT04505501	Thai Red Cross AIDS Research Centre	Phase II	August 2022
Effect of N-803 on B cell follicles	NCT04808908	University of Minnesota	Phase I	February 2023
GENE THERAPIES				
EBT-101 (CRISPR/Cas9 targeting HIV provirus)	NCT05144386 (not yet open for enrollment)	Excision BioTherapeutics	Phase I/IIa	March 2025
LVgp120duoCAR-T cells	NCT04648046	Steven Deeks, UCSF	Phase I/IIa	December 2024
Cal-1 : Dual anti-HIV gene transfer construct	NCT02390297 (closed to enrollment)	Calimmune	Phase I/II	October 2031 CROI 2020, Abstract 338
SB-728-T (autologous T cells gene-modified to disrupt CCR5 receptor expression)	NCT03666871 (closed to enrollment)	Case Western Reserve University	Phase I/II	February 2024
AGT103-T (gene-modified HIV-specific CD4 T cells)	NCT04561258	American Gene Technologies International Inc.	Phase I	September 2022
CD4 CAR + SB-728mR modified T cells	NCT03617198 (closed to enrollment)	University of Pennsylvania	Phase I	December 2025
Chimeric Antigen Receptor (CAR)-T cell therapy	NCT03240328	Guangzhou 8th People's Hospital	Phase I	December 2022 J Clin Invest. 2021 Aug 10;150211.
EBT-101 (long-term follow-up study)	NCT05143307 (not yet open for enrollment)	Excision BioTherapeutics	Phase I	April 2037
Long-term follow-up of HIV+ participants exposed to SB-728-T or SB-728mR-T	NCT04201782 (enrolling by invitation only)	Sangamo Therapeutics	Phase I	December 2033
SB-728mR-HSPC (autologous hematopoietic stem/progenitor cells modified at the CCR5 gene)	NCT02500849 (closed to enrollment)	City of Hope Medical Center	Phase I	December 2022
shRNA-modified CD34+ cells	NCT03517631	Shanghai Public Health Clinical Center	Phase I	December 2020
TCTIWHI : Third-generation CAR-T-cell therapy	NCT04863066 (not yet open for enrollment)	Beijing 302 Hospital	Phase I	October 2022

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GENE THERAPIES FOR HIV-POSITIVE PEOPLE WITH CANCERS				
CRISPR CCR5 modified CD34+ cells	NCT03164135	307 Hospital of PLA (Affiliated Hospital of Academy to Military Medical Sciences)	Not listed	May 2021 N Engl J Med. 2019 Sep 11
Stem cells gene-modified with Cal-1	NCT03593187	Assistance Publique - Hôpitaux de Paris	Phase I/II	January 2024 Mol Ther Methods Clin Dev. 2019 Feb 26;13:303-309
Stem cells gene-modified with CCR5 shRNA/TRIM5alpha/TAR decoy	NCT02797470	AIDS Malignancy Consortium	Phase I/II	September 2024
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ)	NCT02337985 (closed to enrollment)	City of Hope Medical Center	Phase I	December 2021
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ) + busulfan	NCT01961063 (closed to enrollment)	City of Hope Medical Center	Phase I	December 2021
GONADOTROPIN-RELEASING HORMONE (GnRH) AGONISTS				
triptorelin acetate depot	NCT03536234	Immune System Regulation AB	Phase II	December 2021
IMAGING STUDIES				
Imaging immune activation in HIV by PET-MR	NCT03684655	University of California, San Francisco	Phase I	October 2021
Radiolabeled VRC01	NCT03729752	University of California, San Francisco	Phase I	October 2021 CROI 2020, Abstract 72 , Webcast

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IMMUNE CHECKPOINT INHIBITORS				
durvalumab (anti-PD-L1 antibody) in solid tumors	NCT03094286 (closed to enrollment)	Spanish Lung Cancer Group	Phase II	April 2022 JAMA Oncol. 2020 Jul 1;6(7):1063-1067
budigalimab (anti-PD-1 antibody)	NCT04223804	AbbVie	Phase Ib	February 2023
budigalimab (anti-PD-1 antibody)	NCT04799353	AbbVie	Phase I	October 2022
NIVO-LD: Low dose nivolumab in adults living with HIV on antiretroviral therapy	NCT05187429 (not yet open for enrollment)	University of Melbourne	Phase I/II	January 2024
nivolumab (anti-PD-1 antibody) + ipilimumab (anti-CTLA-4 antibody) in treating patients with advanced HIV associated solid tumors	NCT02408861	National Cancer Institute (NCI)	Phase I	July 2022 Clin Infect Dis. 2021 ciaa1530 HIV Persistence Workshop 2019, Abstract OP 5.5 Journal of Clinical Oncology 36, no. 15 suppl
pembrolizumab (anti-PD-1 antibody) in treating patients with HIV and relapsed, refractory, or disseminated malignant neoplasms	NCT02595866	National Cancer Institute (NCI)	Phase I	November 2024 JAMA Oncol. 2019 Jun 2 CROI 2019, Abstract 27 , Webcast CROI 2018, Poster abstract 656LB
pembrolizumab (anti-PD-1 antibody) single dose	NCT03239899	National Institute of Neurological Disorders and Stroke (NINDS)	Phase I	December 2024
LATENCY-REVERSING AGENTS				
arsenic trioxide	NCT03980665	Guangzhou 8th People's Hospital	Phase I	December 2022

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LATENCY-REVERSING AGENTS (Cont.)				
Euphorbia kansui	NCT04503928 (not yet open for enrollment)	Shanghai Public Health Clinical Center	Phase I	December 2022
Kansui (traditional Chinese medicine containing ingenols)	NCT02531295 (Suspended - temporary pause on non-COVID clinical trial recruitment at study site)	UCSF	Phase I	June 2022
mTOR INHIBITORS				
metformin	NCT04500678	University of Hawaii	Phase II/III	December 2022 AIDS Res Hum Retroviruses. 2020 Nov 5.
STEM CELL TRANSPLANTATION				
IMPAACT P1107 : Cord blood transplantation using CCR5-Δ32 donor cells for the treatment of HIV and underlying disease	NCT02140944 (closed to enrollment)	International Maternal Pediatric Adolescent AIDS Clinical Trials Group (IMPAACT)	N/A	April 2022 ASH 2018, Abstract 2184
Cord blood transplant with OTS for the treatment of HIV+ hematologic cancers	NCT04083170	Fred Hutchinson Cancer Research Center	Phase II	December 2025
STIMULANTS				
EMRLHD : Effect of methamphetamine on residual latent HIV disease study	NCT03825536	University of California, San Francisco	Phase IV	June 2022
THERAPEUTIC VACCINES				
BELIEVE : BCG vaccination effect on latent reservoir size in treated HIV-1 infection	NCT05004038 (not yet open for enrollment)	University of Zurich	Phase IIa	January 2024
Ad26.Mos4.HIV + MVA-Mosaic or clade C gp140 + mosaic gp140 (viral vector vaccines + proteins)	NCT03307915 (closed to enrollment)	Janssen Vaccines & Prevention B.V.	Phase I	November 2021
DC-HIV04 : a1DC + inactivated whole autologous HIV, a1DC + conserved HIV peptides	NCT03758625	Sharon Riddler, University of Pittsburgh	Phase I	May 2023

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THERAPEUTIC VACCINES (Cont.)				
DNA.HTI + MVA.HTI + ChAdOx1.HTI (DNA + viral vector vaccines) (ATI extension)	NCT04385875 (closed to enrollment)	Fundacio Lluita Contra la SIDA	Phase I	February 2022
MVA.tHIVconsv3 +/- MVA.tHIVconsv4 (viral vectors)	NCT03844386	University of North Carolina, Chapel Hill	Phase I	June 2022
NETI: Trimer 4571 therapeutic vaccination	NCT04985760	Madhuchhanda Choudhary	Phase I	September 2024
TREATMENT INTENSIFICATION/EARLY TREATMENT				
P25-INACTION: Implication for strategies of long term control of viral replication in patients with primary HIV infection	NCT04225325	Adriano Lazzarin, MD	Phase IV	June 2021 EACS 2021 , Abstract BPD4/3
Antiretroviral regime for viral eradication in newborns	NCT02712801 (closed to enrollment)	National Center for Women and Children's Health, China CDC	Phase IV	December 2022
DGVTAF: Immediate initiation of antiretroviral therapy during "hyperacute" HIV infection	NCT02656511 (closed to enrollment)	UCSF	Phase IV	April 2023
AAHIV: Antiretroviral therapy for acute HIV infection	NCT00796263	South East Asia Research Collaboration with Hawaii	Phase III	June 2033 See supplemental references page
EIT: Early infant HIV treatment in Botswana	NCT02369406 (closed to enrollment)	Harvard School of Public Health	Phase II/III	May 2022 Clin Infect Dis. 2021 ciab143 Clin Infect Dis. 2020 Jan 12. Sci Transl Med. 2019 Nov 27;11(520). pii: eaax7350 CROI 2019, Poster abstract 826 CROI 2018, Abstract 136 , Webcast

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TREATMENT INTENSIFICATION/EARLY TREATMENT (Cont.)				
EARLIER: Early ART to limit infection and establishment of reservoir	NCT02859558 (closed to enrollment)	AIDS Clinical Trials Group	Phase II	September 2023

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Table 2. Observational Studies

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
2000HIV: 2000 HIV human functional genomics partnership program	NCT03994835 (closed to enrollment)	Radboud University	N/A	December 2023
2000HIVTrained: 2000 HIV trained innate immunity in HIV elite controllers	NCT04968717 (closed to enrollment)	Radboud University	N/A	December 2022
Accurate staging of immuno-virological dynamics during acute HIV infection (ACS)	NCT03449706	University Hospital, Ghent	N/A	January 2023
Analytic treatment interruption (ATI) to assess HIV cure	NCT02437526 (enrolling by invitation only)	Mayo Clinic	N/A	May 2025 PLoS Med. 2017 Nov 28;14(11):e1002461.
ANRS CO24 OncoVIHAC: Immune checkpoint inhibitors in HIV+ individuals with cancers	NCT03354936	Inserm-ANRS	N/A	June 2022
ATGALIG-HIV: Study of autophagy and the effects of GALIG gene products in HIV-1+ patients on antiretroviral therapy since primary infection, chronic phase, or never treated	NCT04160455	Centre Hospitalier Régional d'Orléans	N/A	November 2029
CHRONO: A prospective cohort for ex vivo cure studies with chronic HIV+ patients in the Netherlands	NCT04888754	Erasmus Medical Center	N/A	January 2034
CODEX (the "Extreme" cohort, ANRS CO21)	NCT01520844	Inserm-ANRS	N/A	September 2023 See supplemental references page
Developing a functional cure for HIV disease: Clinical specimen collection from HIV+ individuals	NCT03215004	American Gene Technologies International Inc.	N/A	February 2021
DOLUVOIR: Cartography of virologic reservoir related to antiretroviral concentrations in HIV-1+ patients on first line treatment containing dolutegravir and associated nucleoside/nucleotide reverse transcriptase inhibitors backbone	NCT04133012	Inserm-ANRS	N/A	November 2023
Establish and characterize an acute HIV infection cohort in a high-risk population	NCT00796146	Southeast Asia Research Collaboration with Hawaii	N/A	July 2033 See supplemental references page

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Evaluation of the role of HIV-1 Tat protein and anti-Tat immune response in HIV reservoir (ISS OBS T-005)	NCT04263207	Barbara Ensoli, MD, PhD, Istituto Superiore di Sanità	N/A	December 2023
FRESH (Females rising through education, support, and health)	Ragon Institute webpage (no clinicaltrials.gov entry)	Ragon Institute of MGH, MIT and Harvard	N/A	N/A See supplemental references page
HEATHER : HIV reservoir targeting with early antiretroviral therapy	UK CPMS17589	University of Oxford/Medical Research Council/British HIV Association	N/A	September 2019 Front Immunol. 2021; 12: 647688. J Infect Dis. 2019 Nov 28. pii: jiz563 Mucosal Immunol. 2019 Sep;12(5):1212-1219.
HIV-Mercuri : HIV study on measuring the reservoir on cellular level to cure infection	NCT04305665	University Hospital, Ghent	N/A	December 2025
Host & viral factors associated with HIV elite control	UK CPMS16146	University College London Hospitals NHS Foundation Trust	N/A	May 2021
HUSH restriction in HIV+ patients	NCT04172480	Inserm-ANRS	N/A	September 2022
iCHIP : Effect of immune checkpoint inhibitors on HIV persistence	hivcure.com.au (no registry entry)	University of Melbourne	N/A	N/A J Immunol Methods. 2021 Dec 1;113198 AIDS. 2021 Apr 15. CROI 2020, Abstract 334

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
IciStem: Collaborative project to guide and investigate the potential for HIV cure in HIV+ patients requiring allogeneic stem cell transplantation for hematological disorders	IciStem website (no clinicaltrials.gov entry)	amfAR	N/A	N/A CROI 2020, Abstract 339 , Abstract 348LB Lancet HIV 2020 Mar 9 . HIV Persistence Workshop 2019, Abstract OP 4.5 Nature. 2019 Apr;568(7751):244-248 . CROI 2019, Poster abstract 394 Ann Intern Med. 2018;169(10):674-683 .
Identification and quantification of HIV CNS latency biomarkers	NCT02989285	St Vincent's Hospital, Sydney	N/A	December 2020
Impact of ART adherence on HIV persistence and inflammation	NCT02797093 (closed to enrollment)	University of Colorado, Denver	N/A	October 2021
Investigation of the impact of inducible, replication-competent latent HIV-1 as an impediment to HIV/AIDS cure in the context of sustained viral suppression	NCT04938518	Kenya Medical Research Institute	N/A	April 2022
Long-term clinical, immunologic, and virologic profiles of children who received early treatment for HIV	NCT05154513	IMPAACT	N/A	November 2027
Long-term effects of ART in acute HIV infection	ChiCTR1800015006	Key Laboratory of AIDS Immunology of National Health and Family Planning Commission, Department of Laboratory Medicine, The First Affiliated Hospital, China Medical University	N/A	June 2021
Measurement for viral reservoir and immune function in HIV-1+ patients under antiretroviral therapy	NCT04068441	National Taiwan University Hospital	N/A	December 2021 J Acquir Immune Defic Syndr. 2021 Apr 1;86(4):500-508

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PITCH: Prospective interruption of therapy towards a cure for HIV pilot study	NHS Health Research Authority approval (not entered into any online registry yet)	University of Oxford	N/A	N/A Abstract P22 , BHIVA Digital Conference, Nov 22–24, 2020
Post analytic treatment interruption study	NCT02761200	South East Asia Research Collaboration with Hawaii	N/A	March 2031
PRIMO (ANRS CO6): Primary infection cohort	NCT03148964	Inserm-ANRS	N/A	December 2022 See supplemental references page
RESERVIH32: Bioclinical evaluation of two biomarkers of aviremic HIV-1 in CD4 T cells of adults undergoing treatment	NCT03940521	Centre Hospitalier Universitaire de Nîmes	N/A	September 2022
Role of the IL-33/amphiregulin pathway as a potential therapeutic target in HIV infection	NCT03622177	Inserm-ANRS	N/A	September 2023
Saturne-HIV: Sequential analysis before and after treatment initiation to unravel the role of naturally occurring extracellular vesicles in HIV infection	NCT04653610	University Hospital, Ghent	N/A	January 2025
SCOPE-ATI: SCOPE analytic treatment interruption protocol	NCT04359186 (enrolling by invitation)	UCSF	N/A	June 2024
TESOVIR: Tracking and exploring the source of viral rebound (ART interruption)	NCT03117985	Centre Hospitalier Régional d'Orléans	N/A	September 2022
The Gemini Study: Safety and survival of genetically modified white blood cells in HIV+ twins	NCT04799483 (closed to enrollment)	NIAID	N/A	January 2030
The Last Gift Study (for people with HIV and less than 6 months life expectancy due to terminal illness)	UCSD study website	University of California, San Diego (UCSD)	N/A	N/A PLoS One. 2021 May 7;16(5):e0250882. J Clin Invest. 2020 Jan 7 HIV Persistence Workshop 2019, Abstract PP 5.7.5 (see abstract book)

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Research Toward a Cure January 14, 2022

Table 2. Observational Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Estimated End Date/Interim Results
The use of leukapheresis to support HIV pathogenesis studies	NCT01161199	University of California, San Francisco	N/A	December 2022
Thinking and memory problems in people with HIV	NCT01875588	National Institute of Neurological Disorders and Stroke (NINDS)	N/A	February 2037
TRESAX: T follicular helper reservoir in axillary lymph nodes study	hivcure.com.au (no registry entry)	Kirby Institute	N/A	N/A

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Table 3. Completed Studies

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
ADOPTIVE IMMUNOTHERAPY				
Early ART in combination with autologous HIV-specific cytotoxic T lymphocyte (CTL) infusion	NCT02231281	Yongtao Sun, MD, PhD, Tangdu Hospital, the Fourth Military Medical University	Phase III	N/A
Reconstitution of HIV-specific immunity against HIV	NCT02563509	Guangzhou 8th People's Hospital	Phase I/II	N/A
HIV-specific memory CD8 T cells adoptive immunotherapy	ChiCTR-ICR-15005775	Beijing You'an Hospital, Capital Medical University	Phase I	Front Immunol. 2019 Mar 18;10:437
HXTC : HIV 1 antigen expanded specific T cell therapy	NCT02208167	University of North Carolina, Chapel Hill	Phase I	Mol Ther. 2018 Oct 3;26(10):2496-2506.
ANTIBODIES				
3BNC117 (broadly neutralizing monoclonal antibody)	NCT02446847	Rockefeller University	Phase II	Nature. 2016 Jul 28; 535(7613):556–560
3BNC117	NCT02588586	Rockefeller University	Phase II	N/A
UB-421 (antibody inhibitor of HIV binding to CD4 receptors)	NCT02369146	United BioPharma	Phase II	N Engl J Med. 2019 Apr 18;380(16):1535-1545
vedolizumab (anti- $\alpha_4\beta_7$ integrin antibody)	NCT03577782	Hospitales Universitarios Virgen del Rocío	Phase II	XI Congreso Nacional GeSIDA, Abstract PO-48 (slides , video)
VRC01 (broadly neutralizing monoclonal antibody)	NCT02664415	National Institute of Allergy and Infectious Diseases (NIAID)	Phase II	J Clin Invest. 2020 Jun 1;130(6):3299-3304. Lancet HIV. 2019 May;6(5):e297-e306. IAS 2017, Abstract TUAB0106LB (slides , video)
VRC01 (broadly neutralizing antibody) in infants	NCT03208231	NIAID	Phase I/II	N/A
10-1074 (broadly neutralizing monoclonal antibody)	NCT02511990	Rockefeller University	Phase I	Nat Med. 2017 Feb;23(2):185-191

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
ANTIBODIES (Cont.)				
10-1074-LS + 3BNC117-LS (long-acting broadly neutralizing antibodies)	NCT03554408	Rockefeller University	Phase I	N/A
3BNC117	NCT02018510	Rockefeller University	Phase I	Nature. 2015 Jun 25;522(7557):487-91
3BNC117 + 10-1074	NCT03571204	NIAID	Phase I	N/A
3BNC117 + 10-1074	NCT02825797	Rockefeller University	Phase I	Nature. 2018 Sep;561(7724):479-484. Nat Med. 2018 Sep 26.
3BNC117-LS	NCT03254277	Rockefeller University	Phase I	N/A
CHERUB 001 Intravenous immunoglobulin in primary HIV infection	No clinicaltrials.gov entry	CHERUB (Collaborative HIV Eradication of viral Reservoirs: UK BRC)	N/A	HIV Med. 2017 Jul 18. doi: 10.1111/hiv.12524.
elipovimab (formerly GS-9722; PGT121-derived broadly neutralizing antibody)	GS-US-420-3902 Adisinsight entry	Gilead Sciences	Phase I	CROI 2020, Abstract 39 , Webcast
PGDM1400 +/- PGT121 +/- VRC07-523LS (broadly neutralizing antibodies)	NCT03205917	International AIDS Vaccine Initiative	Phase I	N/A
PGT121	NCT02960581	International AIDS Vaccine Initiative	Phase I	Nat Med. 2021 Oct 7. CROI 2019, Abstract 145 , Webcast
vedolizumab	NCT02788175	NIAID	Phase I	AIDS 2018, WESS0102
VRC01 + 10-1074	NCT03831945	NIAID	Phase I	N/A
VRC01 in acute HIV infection	NCT02591420	NIAID	Phase I	N/A
VRC01	NCT02411539	NIAID	Phase I	N/A
VRC01	NCT02471326	NIAID	Phase I	N Engl J Med. 2016 Nov 24;375(21):2037-2050

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
ANTIBODIES (Cont.)				
VRC01	NCT02463227	NIAID	Phase I	N Engl J Med. 2016 Nov 24;375(21):2037-2050 CROI 2016, Abstract 32LB, Webcast
VRC01	NCT01950325	NIAID	Phase I	Sci Transl Med. 2015 Dec 23;7(319):319ra206
VRC01LS, VRC07-523LS (long-acting broadly neutralizing antibodies)	NCT02840474	NIAID	Phase I	IAS 2019, Abstract WEEA0305LB (video, at 45:36)
ANTI-FIBROTIC				
ACE inhibitors	NCT01535235	UCSF/amfAR	Phase IV	Pathogens and Immunity. 2017;2(3):310-34.
losartan	NCT01852942	University of Minnesota	Phase II	CROI 2020, Abstract 277
telmisartan	NCT01928927	AIDS Clinical Trials Group	Phase II	CROI 2019, Abstract 395 J Infect Dis. 2018 217(11):1770-1781
telmisartan	NCT02170246	Yale University	Phase I	CROI 2019, Abstract 300
ANTI-INFLAMMATORY				
CD24Fc (human CD24 extracellular domain and human IgG1 Fc fusion protein)	NCT03960541	Oncolmmune, Inc.	Phase II	"Terminated (Business Reasons)"
High dose vitamin D supplementation	NCT03426592	University of Melbourne	Phase II	N/A
CC-11050 (phosphodiesterase-4 inhibitor)	NCT02652546	NIAID	Phase I	AIDS 2018, Poster abstract LBPEB021
ANTI-PROLIFERATIVE				
mycophenolate mofetil (MMF)	NCT03262441	Fred Hutchinson Cancer Research Ctr	Phase I	CROI 2020, Abstract 340

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
ANTIRETROVIRAL THERAPY				
dolutegravir in reservoirs	NCT02924389	Emory University	Phase IV	AIDS. 2018 Sep 24;32(15):2151-2159.
HIV reservoir dynamics after switching to dolutegravir in patients on a PI/r based regimen	NCT02513147	Hospital Universitari Vall d'Hebron Research Institute	Phase IV	N/A
raltegravir or efavirenz + tenofovir + emtricitabine	NCT00734344	University of Alabama at Birmingham	Phase IV	N/A
ABX464	NCT02735863	Abivax S.A.	Phase II	J. Virus Eradication 2019;5:10–22
ABX464	NCT02990325	Abivax S.A.	Phase I/II	Clin Infect Dis. 2021 Aug 26:ciab733. CROI 2020, Abstract 335 HIV Persistence Workshop 2019, Abstract OP 8.3 (see abstract book) 16th European Meeting on HIV & Hepatitis 2018, presentation
ANTIRETROVIRAL THERAPY IN HIV CONTROLLERS				
emtricitabine + rilpivirine + tenofovir	NCT01777997	AIDS Clinical Trials Group/NIAID	Phase IV	J Infect Dis. 2020 June 4:jiaa294 Clin Infect Dis. 2019 May 25. CROI 2019, Poster abstract 508 CROI 2018, Poster abstract 229
raltegravir + tenofovir + emtricitabine	NCT01025427	University of California, San Francisco	Phase IV	PLoS Pathog. 2013;9(10):e1003691

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
ASSEMBLY INHIBITORS				
BIT225	ACTRN12617000025336	Biotron Limited	Phase II	J Infect Dis. 2021 Jun 4;223(11):1914-1922. CROI 2020, Abstract 506 HIV DART 2018
BIT225	ACTRN12612000696897	Biotron Limited	Phase I	J Antimicrob Chemother. 2016 Mar;71(3):731-8
COMBINATIONS				
maraviroc, dolutegravir, dendritic cell vaccine, auranofin, nicotinamide	NCT02961829	Federal University of São Paulo	Not listed	AIDS Res Ther. 2022 Jan 12;19(1):2. AIDS 2020, Abstract OAXLB0105 HIV Persistence Workshop 2019, Abstract OP 8.6 (see abstract book) Int J Antimicrob Agents. 2019 Aug 5. pii: S0924-8579(19)30212-2. CROI 2019, Poster abstract 399 AIDS 2018, Abstract WEPDB0105 (slides, video)
ROADMAP: romidepsin + 3BNC117	NCT02850016	Rockefeller University	Phase IIa	CROI 2020, Abstract 38, Webcast
Adoptive transfer of haploidentical natural killer cells and IL-2	NCT03346499	University of Minnesota - Clinical and Translational Science Institute	Phase II	N/A
ERAMUNE-01 (antiretroviral intensification +/- interleukin-7)	NCT01019551	ORVACS/Cytheris SA/Merck Sharp & Dohme Corp./Pfizer	Phase II	AIDS. 2016 Jan;30(2):221-30

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
COMBINATIONS (Cont.)				
ERAMUNE-02 (DNA/Ad5 vaccine, ART intensification)	NCT00976404	Vical/GenVec/CHERUB/NIH Vaccine Research Center/ORVACS	Phase II	Lancet HIV. 2015 Mar;2(3):e82-91 CROI 2014, Poster abstract 422
disulfiram + vorinostat	NCT03198559 (suspended due to neurotoxicity)	The Peter Doherty Institute for Infection and Immunity	Phase I/II	AIDS. 2021 Sep 29. CROI 2019, Abstract 401
GTU-MultiHIV B-clade + MVA HIV-B +/- vedolizumab (DNA + viral vector vaccines +/- anti- $\alpha_4\beta_7$ integrin antibody)	NCT02972450	Inserm-ANRS	Phase I/II	Terminated due to the bankruptcy of FITBiotech
Vacc-4x (peptide-based therapeutic vaccine) + romidepsin	NCT02092116	Bionor Immuno AS/Celgene	Phase I/II	CROI 2019, Abstract 397 Lancet HIV 2016, July 7, 2016
Vacc-4x + lenalidomide	NCT01704781	Bionor Immuno AS	Phase I/II	IAS 2015 Towards an HIV Cure Symposium, Poster Abstract PE61
vorinostat + hydroxychloroquine + maraviroc (VHM)	NCT02475915 NCT02470351 (CNS substudy)	South East Asia Research Collaboration with Hawaii	Phase I/II	J Virus Erad. 2020 (6) 100004 AIDS 2016, Abstract TUAX0101LB
Adoptive transfer of haploidentical NK cells and N-803	NCT03899480	University of Minnesota - Clinical and Translational Science Institute	Phase I	N/A
AGS-004 + vorinostat	NCT02707900	NIAID	Phase I	Sci Rep. 2020 Mar 20;10(1):5134. IAS 2019, Poster abstract MOPEB272
chemotherapy + maraviroc in people with non-Hodgkin lymphoma	NCT02486510	Fundacion para la Investigacion Biomedica del Hospital Universitario Ramon y Cajal	Phase I	Terminated due to futility criteria
Chidamide + CAR-T or TCR-T cell therapy	NCT03980691	Guangzhou 8th People's Hospital	Phase I	N/A

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
COMBINATIONS (Cont.)				
DCV3 (dendritic cell-based vaccine pulsed with autologous inactivated HIV) + pegylated interferon	NCT02767193	Judit Pich Martínez, Fundació Clínic per la Recerca Biomèdica	Phase I	Front Immunol. 2021 Nov 11;12:767370. CROI 2020, Abstract 282 J Infect Dis. 2020 Apr 27;221(10):1740-1742.
MVA-B (viral vector vaccine) +/- disulfiram	NCT01571466	Hospital Clinic of Barcelona/HIVACAT	Phase I	PLoS One. 2015 Nov 6;10(11):e0141456. J Antimicrob Chemother. 2015 Feb 26. pii: dkv046.
MVA.HIVconsv + romidepsin	NCT02616874	IrsiCaixa	Phase I	AIDS. 2021 Nov 3 J Antimicrob Chemother. 2020 Dec 22;dkaa523. Front Immunol. 2020 May 6;11:823. CROI 2019, Abstract 438 CROI 2017, Abstract 119LB , Webcast
VRC07-523LS + vorinostat	NCT03803605	University of North Carolina, Chapel Hill	Phase I	J Infect Dis. 2021 Sep 25;jiab487. IAS 2021, Abstract OALA01LB03 (video)
CYTOKINES				
interleukin-2 (IL-2)	NCT03308786	Case Western Reserve University	Phase II	N/A
N-803	NCT02191098	University of Minnesota - Clinical and Translational Science Institute	Phase I	CROI 2018, Poster abstract 356
DUAL-AFFINITY RE-TARGETING (DART) MOLECULES				
MGD014	NCT03570918	MacroGenics	Phase I	N/A
GENE THERAPIES				
OZ1	NCT00074997	Janssen-Cilag Pty Ltd	Phase II	Nat Med. 2009 Mar; 15(3): 285–292.

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
GENE THERAPIES (Cont.)				
Cal-1: Dual anti-HIV gene transfer construct	NCT01734850	Calimmune	Phase I/II	Results posted in clinicaltrials.gov
SB-728mR-T (autologous CD4 T cells genetically modified at the CCR5 gene) + cyclophosphamide	NCT02225665	Sangamo BioSciences	Phase I/II	N/A
SB-728-T + cyclophosphamide	NCT01543152	Sangamo BioSciences	Phase I/II	bioRxiv 2021.02.28.433290 CROI 2016, Poster abstract 358LB CROI 2015, Poster abstract 434 CROI 2014, Abstract 141 , Webcast
SB-728-T	NCT01252641	Sangamo BioSciences	Phase I/II	N/A
VRX496 (gene-modified autologous CD4 T cells)	NCT00295477	University of Pennsylvania	Phase I/II	Blood. 2013 Feb 28; 121(9): 1524–1533
C34-CXCR4 (autologous CD4 T cells gene-modified to express HIV-inhibiting C34 peptide)	NCT03020524	University of Pennsylvania	Phase I	N/A
HGTV43	No clinicaltrials.gov entry	Enzo Biochem	Phase I	AIDS 2006, Abstract MOPDA06
MazF-T (redirected MazF-CD4 autologous T cells)	NCT01787994	Takara Bio/University of Pennsylvania	Phase I	Molecular Therapy, November 10, 2020 CROI 2015, Poster abstract 402
Redirected high affinity Gag-specific T cells	NCT00991224	University of Pennsylvania/Adaptimmune	Phase I	Study closed (safety): Mol Ther. 2015 Jul; 23(7): 1149–1159.
SB-728mR-T + cyclophosphamide	NCT02388594	University of Pennsylvania	Phase I	J Clin Invest. 2021. CROI 2019, Abstract 25 , Webcast
SB-728-T	NCT01044654	Sangamo BioSciences	Phase I	bioRxiv 2021.02.28.433290 ICAAC 2014, Abstract H-643; ICAAC 2013, Abstract H-1464c

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Research Toward a Cure January 14, 2022

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
GENE THERAPIES (Cont.)				
SB-728-T	NCT00842634	Sangamo Biosciences/University of Pennsylvania	Phase I	N Engl J Med. 2014 Mar 6;370(10):901-10
GENE THERAPIES FOR HIV-POSITIVE PEOPLE WITH CANCERS				
Stem cells gene-modified with M87o vector encoding HIV-inhibiting C46 peptide	NCT00858793	Universitätsklinikum Hamburg-Eppendorf	Phase I/II	N/A
Stem cells gene-modified to encode multiple anti-HIV RNAs (rHIV7-shI-TAR-CCR5RZ)	NCT00569985	City of Hope Medical Center	Phase I	Sci Transl Med. 2010 Jun 16; 2(36): 36ra43.
HORMONES				
somatotropin (human growth hormone)	NCT03091374	McGill University Health Center	Phase II	CROI 2021, Abstract 298, Webcast
IMAGING STUDIES				
123I radiolabeled 3BNC117	NCT03468582	University of Lausanne Hospitals	Phase I	N/A
Radiolabeled 3BNC117 + Copper-64 radio isotope followed by MRI/PET scanning to detect HIV in vivo	NCT03063788	Bayside Health	Phase I	EBioMedicine. 2021 Feb 25;65:103252. AIDS 2020, Abstract PEA0060
IMMUNE CHECKPOINT INHIBITORS				
cemiplimab (anti-PD-1 antibody)	NCT03787095	NIAID	Phase I/II	Pre-CROI Community HIV Cure Research Workshop 2020 (slides , video) ACTG announcement
BMS-936559 (anti-PD-L1 antibody)	NCT02028403	National Institute of Allergy and Infectious Diseases (NIAID)	Phase I	J Infect Dis. 2017 Jun 1;215(11):1725-1733 CROI 2016, Abstract 25 , Webcast
ipilimumab (anti-CTLA-4 antibody)	NCT03407105	Medarex	Phase I	PLoS One. 2018 Jun 7;13(6):e0198158
IRON CHELATORS				
deferiprone	NCT02456558	ApoPharma	Phase I	N/A

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
JANUS KINASE INHIBITORS				
ruxolitinib	NCT02475655	NIAID	Phase II	J Clin Pharmacol. 2021 Jun 24. Clin Infect Dis. 2021 CROI 2019, Abstract 37, Webcast
LATENCY-REVERSING AGENTS				
disulfiram (acetaldehyde dehydrogenase inhibitor)	NCT01286259	University of California, San Francisco/ Johns Hopkins University/amfAR	Not specified	Clin Infect Dis. 2014 58 (6): 883–90
Chidamide	NCT02902185	Tang-Du Hospital	Phase II/III	N/A
vorinostat (HDAC inhibitor)	NCT01365065	Bayside Health/Merck	Phase II	PLoS Pathog. 2014;10(10):e1004473
valproic acid (HDAC inhibitor)	NCT00289952	McGill University/Canadian Foundation for AIDS Research/CIHR Canadian HIV Trials Network	Phase II	HIV Med. 2012 May;13(5):291–6
valproic acid	NCT00614458	University of North Carolina at Chapel Hill/NIAID/Abbott/Merck Sharp & Dohme	Phase II	PLoS One. 2010 5(2): e9390
Chidamide (HDAC inhibitor)	NCT02513901	Tang-Du Hospital	Phase I/II	HIV Med. 2020 Dec;21(11):747-757. AIDS 2018, Abstract WEAA0101 (slides , video)
disulfiram	NCT01944371	University of California, San Francisco/Monash University/amfAR	Phase I/II	CROI 2015, Poster abstract 428LB
panobinostat (HDAC inhibitor)	NCT01680094	University of Aarhus/Massachusetts General Hospital/Monash University/Karolinska Institutet/Novartis/amfAR	Phase I/II	CROI 2015, Abstract 109, Webcast The Lancet HIV. 2014 Oct; 1(1): e13–e21
romidepsin (HDAC inhibitor)	NCT01933594	AIDS Clinical Trials Group/NIAID/Gilead	Phase I/II	The Journal of Infectious Diseases, jiaa777 CROI 2019, Abstract 26, Webcast CROI 2018, Abstract 72, Webcast

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
LATENCY-REVERSING AGENTS (Cont.)				
valproic acid + pyrimethamine	NCT03525730	Erasmus Medical Center	Phase I/II	N/A
vorinostat	NCT01319383	University of North Carolina at Chapel Hill/NIAID/Merck.	Phase I/II	J Clin Invest. 2017 Aug 1;127(8):3126-3135. J Infect Dis. 2014 Sep 1;210(5):728-35 Nature. 2012 Jul 25;487(7408):482-5
bryostatatin 1 (PKC agonist)	NCT02269605	Fundacion para la Investigacion Biomedica del Hospital Universitario Ramon y Cajal	Phase I	AIDS. 2016 Jun 1;30(9):1385-92.
mTOR INHIBITORS				
Impact of Everolimus on HIV persistence post kidney or liver transplant	NCT02429869	UCSF	Phase IV	Am J Transplant. 2020 Aug 11
Sirolimus	NCT02440789	ACTG	Phase I/II	CROI 2019, Abstract 131 , Webcast
metformin	NCT02659306	McGill University Health Center	Phase I	EBioMedicine 65 (2021) 103270 CROI 2020, Poster abstract 229 CROI 2019, Poster abstract 301
OBSERVATIONAL STUDIES				
ACTG A5321: Decay of HIV-1 reservoirs in subjects on long-term antiretroviral therapy: The ACTG HIV reservoirs cohort (AHRC) study	N/A	AIDS Clinical Trials Group	N/A	medRxiv 2021.11.08.21266096 CROI 2021, Abstract 241 , Webcast HIV Persistence Workshop 2019, Abstracts OP 4.6, 5.6 & PP 4.4 (see abstract book) CROI 2018, Abstract 119 , Webcast Poster abstract 403LB PLoS Pathog. 2017 Apr; 13(4): e1006285

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
OBSERVATIONAL STUDIES (Cont.)				
ANRS EP 44: Residual replication of HIV-1 in the gut associated lymphoid tissue (GALT)	NCT01038401	Inserm-ANRS	N/A	N/A
ANRS EP63: A chronological study of the formation of HIV cellular reservoirs through the expression of surface markers on CD4+ T lymphocytes, including CD32a	NCT03298360	Inserm-ANRS	N/A	N/A
APACHE: Monitored antiretroviral pause in chronically infected HIV+ individuals with long-lasting suppressed viremia	NCT03198325	Ospedale San Raffaele	N/A	Viruses. 2021 Jul 19;13(7):1403. AIDS: May 14, 2021 J Antimicrob Chemother. 2021 Mar 7;dkab060. J Antimicrob Chemother. 2020 Jun 15:dkaa231. HIV Persistence 2019, Abstract PP 5.7.10 (see abstract book) J Antimicrob Chemother. 2019 April 23. pii: dkz138
Biomarkers to predict time to plasma HIV RNA rebound (ACTG A5345)	NCT03001128	AIDS Clinical Trials Group	N/A	Clin Infect Dis. 2021 Jun 12;ciab541. CROI 2021, Abstract 311 , Webcast AIDS 2020, Abstract PDB0102
CHERUB 003 (prospective HIV chemotherapy cohort study)	NCT01902693	Imperial College London/CHERUB	N/A	N/A
CLEAC: Comparison of late versus early antiretroviral therapy in HIV-infected children	NCT02674867	Inserm-ANRS	N/A	Front Immunol. 2021 Apr 22;12:662894. Clinical Infectious Diseases, ciaa1931 AIDS 2018, Abstract WEAB0208LB (slides)
Effects of dolutegravir based regimen on HIV-1 reservoir and immune activation	NCT02557997	University Hospital, Strasbourg, France	N/A	J Antimicrob Chemother. 2017 Dec 13.

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Research Toward a Cure January 14, 2022

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
OBSERVATIONAL STUDIES (Cont.)				
EPIC4: Early Pediatric Initiation: Canada Child cure Cohort Study	CTN S 281	Canadian Institutes of Health Research (CIHR)/Canadian Foundation for AIDS Research (CANFAR)/International AIDS Society (IAS)	N/A	AIDS: December 02, 2019 Clin Infect Dis. 2019 Mar 28. pii: ciz251 2015 IAS Towards an HIV Cure Symposium, Abstract PE69LB AIDS 2014, Abstract TUAB0206LB (video) Clin Infect Dis. (2014) 59 (7): 1012-1019.
EURECA: Exploratory study of cellular reservoirs in blood	NCT02858414	Centre Hospitalier Universitaire de Besancon	N/A	Viruses. 2018 Apr 13;10(4).
FXReservoir: Study of the effects of farnesoid X receptor ligands on reactivation of latent provirus	NCT03618862	Hospices Civils de Lyon	N/A	N/A
Genotyping FcγRs genes	NCT03130296	University Hospital, Strasbourg, France	N/A	Genes Immun. 2020 Aug;21(4):263-268
HCURE: Analysis of the impact of HCV direct antiviral agents (DAA) on antiviral Immunity and HIV DNA reservoir in coinfecting HIV-HCV patients	NCT03244371	Assistance Publique Hopitaux De Marseille	N/A	N/A
HIV-PRADA: HIV persistence in lymph node and peripheral blood	NCT03426189	University of Melbourne	N/A	CROI 2021, Abstract 301 , Webcast
HIV resistance and treatment strategies	NCT00581802	NIAID	N/A	N/A
HIV-STAR: HIV sequencing after treatment interruption to identify the clinically relevant anatomical reservoir	NCT02641756	University Hospital, Ghent	N/A	IAS 2021, Abstract PEA036 (poster, video) J Virus Erad. 2021 Jan 23;7(1):100029. CROI 2020, Abstract 324 Cell Host Microbe. 2019 Sep 11;26(3):347-358.e7. AIDS 2018, Abstract WEAA0201 (slides, video) , poster abstract THPEB096
HSCT-HIV: Allogeneic hematopoietic stem cell transplantation in HIV+ patients	NCT02732457	Kirby Institute	N/A	Terminated by Protocol Steering Committee

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Research Toward a Cure January 14, 2022

Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
OBSERVATIONAL STUDIES (Cont.)				
ImmunoCo27: Co-adaptation between HIV and CD8 cellular immunity	NCT02886416	Inserm-ANRS	N/A	N/A
IMPAACT 2015: Evaluation of the HIV-1 reservoir in the CNS of perinatally-infected youth and young adults with cognitive impairment	NCT03416790	IMPAACT	N/A	N/A
Impact of a short-term ATI and re-initiation of antiretroviral therapy on immunologic and virologic parameters in HIV+ individuals	NCT03225118	NIAID	N/A	J Infect Dis. 2020 May 22:jiaa270.
In vitro autologous vaccine development to activate HIV reservoirs	UK CPMS17532	Imperial College London/amfAR	N/A	N/A
ISALA: Analytical treatment interruption in HIV positive patients	NCT02590354	Institute of Tropical Medicine, Belgium	N/A	J Int AIDS Soc. 2020 Feb;23(2):e25453. CROI 2019, Poster abstract 389 , Webcast
LoViReT: Low viral reservoir treated patients	NCT02972931	IrsiCaixa	N/A	EBioMedicine. 2020 Jun 21;57:102830. CROI 2020, Abstract 374 HIV Persistence Workshop 2019, Abstract OP 3.5 (see abstract book) HIV Persistence Workshop 2017, Abstract OP 8.6
MUCOVIR: Exploration of HIV reservoirs	NCT01019044	Objectif Recherche Vaccins SIDA	N/A	JAIDS. 2013 Mar 1;62(3):255-9
PembroHIV: Treatment with immunological checkpoint inhibitors of HIV+ individuals with cancer	NCT03767465	IrsiCaixa	N/A	HIV Persistence Workshop 2019, Abstract PP 4.2 (see abstract book)

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/ Presented Data
OBSERVATIONAL STUDIES (Cont.)				
Quantitative measurement and correlates of the latent HIV reservoir in virally suppressed Ugandans	NCT02154035	NIAID	N/A	JCI Insight. 2020 Jun 16;139287. CROI 2020, Abstract 385 Persistence Workshop 2019, Abstract OP 7.4 Clin Infect Dis. 2017 Oct 15;65(8):1308-1315.
Role of anti-Tat immunity on disease progression in HIV+ asymptomatic adults	NCT01029548	National HIV/AIDS Research Center (CNAIDS), Istituto Superiore di Sanità, Rome, Italy	N/A	Retrovirology. 2014 Jun 24;11:49.
Role of anti-Tat immunity on disease progression in HIV+ cART-treated adults	NCT01024556	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	N/A	EBioMedicine 00 (2021) 103306
Seroprevalence of anti-Tat antibodies in HIV+ South African patients	NCT01359800	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	N/A	N/A
Size of the HIV-1 reservoir and ongoing replication in defined cohorts	UK CPMS16004	University College London/amfAR	N/A	N/A
Specimen repository for HIV immunopathogenesis	NCT03579381	AIDS Healthcare Foundation	N/A	N/A
Tissue drug levels of HIV medications	NCT01490346	University of Minnesota – Clinical and Translational Science Institute/NIAID	N/A	Proc Natl Acad Sci USA. 2014 Feb 11;111(6):2307-12.
ULTRASTOP (Towards HIV Functional Cure) ERAMUNE-03 (antiretroviral treatment interruption)	NCT01876862	Objectif Recherche VACcin Sida (ORVACS)/Fondation Bettencourt Schueller	N/A	AIDS, Published Ahead-of-Print, January 4, 2016
VIRECT : Impact of pre-ART CD4 T cell level on the rectal reservoir in long-term HIV-1 treated men	NCT02526940	Centre Hospitalier Universitaire de Saint Etienne	N/A	N/A
PROTEASOME INHIBITORS				
ixazomib	NCT02946047 (closed to enrollment)	Mayo Clinic	Phase I	EClinicalMedicine 2021 Nov 29;42:101225.
STEM CELL TRANSPLANTATION				
HIVECT : HIV eradication through cord-blood transplantation	NCT02923076	Puerta de Hierro University Hospital	N/A	N/A

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
STEM CELL TRANSPLANTATION (Cont.)				
BMT CTN 0903: Allogeneic transplant in individuals with chemotherapy-sensitive hematologic malignancies and coincident HIV infection	NCT01410344	National Heart, Lung, & Blood Institute/National Cancer Institute/Blood & Marrow Transplant Clinical Trials Network	Phase II	Biol Blood Marrow Transplant. 2019 Jul 4. pii: S1083-8791(19)30417-3. Journal of Clinical Oncology 35, no. 15 suppl (May 2017) 7006-7006.
HLA-mismatched unrelated donor bone marrow transplantation	NCT02793544	Center for International Blood and Marrow Transplant Research	Phase II	HRSA Advisory Council on Blood Stem Cell Transplantation, September 25, 2020
Immune response after stem cell transplant in HIV-positive patients with hematologic cancer	NCT00968630	Fred Hutchinson Cancer Research Center	Phase II	N/A
Optimized antiretroviral therapy during allogeneic hematopoietic stem cell transplantation in HIV-1 individuals	NCT01836068	Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins	Phase I	JAIDS 2021 Nov 8. AIDS Res Hum Retroviruses. 2021 Jun 9. Lancet HIV. 2020 Jul 7: S2352-3018(20)30073-4.
THERAPEUTIC VACCINES				
AGS-004 (personalized therapeutic vaccine utilizing patient-derived dendritic cells and HIV antigens)	NCT00672191	Argos Therapeutics	Phase IIb	J Acquir Immune Defic Syndr. 2016 May 1;72(1):31-8
AGS-004	NCT01069809	Argos Therapeutics	Phase IIb	AIDS Res Hum Retroviruses. 2018 Jan;34(1):111-122 IAS 2015 Towards an HIV Cure Symposium, Combination Therapy Trials Roundtable CROI 2014, Poster abstract 344
iHIVARNA-01 (TriMix & HIV antigen naked messenger RNA)	NCT02888756	Rob Gruters, Erasmus Medical Center	Phase IIa	Vaccines (Basel). 2019 Dec 6;7(4). pii: E209.
DermaVir (topically applied DNA vaccine)	NCT00711230	Genetic Immunity	Phase II	N/A

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
THERAPEUTIC VACCINES (Cont.)				
DermaVir	NCT00918840	Genetic Immunity	Phase II	N/A
GSK Biologicals HIV Vaccine 732462 (p24-RT-Nef-p17 fusion protein vaccine)	NCT01218113	GlaxoSmithKline	Phase II	Medicine (Baltimore). 2016 Feb;95(6):e2673
GTU-multiHIV + LIPO-5 (DNA + lipopeptide vaccines)	NCT01492985	Inserm-ANRS	Phase II	J Infect Dis. 2019 Jul 2;220:S5-S6 AIDS. 2018 Oct 15 HIVR4P 2016, Abstract P27.09
Tat protein vaccine	NCT01513135 NCT02712489 (extended follow-up study)	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	Phase II	Retrovirology. 2016 Jun 9;13(1):34
Tat protein vaccine	NCT00751595 NCT02118168 (extended follow-up study)	Barbara Ensoli, MD, Istituto Superiore di Sanità	Phase II	Front. Immunol. February 13, 2019 Retrovirology. 2015 Apr 29;12(1):33 PLoS One. 2010 Nov 11;5(11):e13540
Vacc-4x (peptide-based vaccine)	NCT01712256	Bionor Immuno AS	Phase II	PLoS One. 2019 Jan 30;14(1):e0210965.
Vacc-4x	NCT00659789	Bionor Immuno AS	Phase II	Lancet Infect Dis. 2014 Apr;14(4):291-300
VAC-3S (peptide-based vaccine)	NCT02041247	InnaVirVax	Phase II	NPJ Vaccines (2019) 4:1 IAS 2017, Abstract MOSY0404 (slides , video)
VAC-3S	NCT02390466	InnaVirVax	Phase I/IIa	N/A

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Table 3. Completed Studies (Cont.)

Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
THERAPEUTIC VACCINES (Cont.)				
VAC-3S (peptide-based vaccine)	NCT01549119	InnaVirVax	Phase I/IIa	IAS 2015 Towards an HIV Cure Symposium, Poster abstract PE67 LB 30 Years of HIV Science, 2013, Poster abstract 145
AGS-004	NCT02042248	University of North Carolina at Chapel Hill/Argos Therapeutics/U.S. National Institutes of Health (NIH)	Phase I/II	N/A
Autologous HIV-1 ApB DC Vaccine	NCT00510497	Sharon Riddler, University of Pittsburgh/NIH	Phase I/II	J Infect Dis. 2016 May 1;213(9):1400-9
Dendritic cells pulsed with chemically inactivated HIV	NCT02766049	University of Sao Paulo General Hospital	Phase I/II	J. Cellular Immunotherapy xx (2016) 1-10 J Int AIDS Soc. 2014 Jan 10;17:18938
Dendritic cell vaccine	NCT00833781	Massachusetts General Hospital	Phase I/II	N/A
Dendritic cell vaccine (DCV-2)	NCT00402142	Hospital Clinic of Barcelona	Phase I/II	Sci Transl Med. 2013 Jan 2;5(166):166ra2
DermaVir	NCT00270205	AIDS Clinical Trials Group	Phase I/II	JAIDS. 2013 Dec 1;64(4):351-9
GTU®-MultiHIV B clade vaccine	NCT02457689	Imperial College London	Phase I/II	Front Immunol. 2019 Dec 13;10:2911.
p24CE1/2 + p55 ^{gag} conserved-element DNA vaccines	NCT03560258	NIH	Phase I/II	N/A
PENNVAX-GP or INO-6145 + IL-12 DNA adjuvant (INO-9012) (DNA vaccines)	NCT03606213	Steven Deeks, UCSF	Phase I/II	N/A
Tat Oyi (protein-based vaccine)	NCT01793818	Biosantech	Phase I/II	Retrovirology. 2016 Apr 1;13:21
THV01 (lentiviral vector-based therapeutic vaccine)	NCT02054286	Theravectys S.A.	Phase I/II	N/A

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Research Toward a Cure January 14, 2022

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
THERAPEUTIC VACCINES (Cont.)				
TUTI-16 (synthetic HIV-1 Tat epitope vaccine)	NCT01335191	Thymon, LLC	Phase I/II	Hum Vaccin Immunother. 2012 Oct;8(10):1425-30
Vacc-C5 (peptide-based vaccine)	NCT01627678	Bionor Immuno AS	Phase I/II	JAIDS April 2018;77:57 BMC Infect Dis. 2017 Mar 24;17(1):228
Ad26.Mos.HIV + MVA-Mosaic	NCT02919306	Janssen Vaccines & Prevention B.V.	Phase I	Nat Med March 23, 2020. IAS 2019 HIV & HBV Cure Forum, FT5-1 Flash Talk
AFO-18 (peptide-based vaccine)	NCT01141205	Statens Serum Institut (SSI)/Ministry of the Interior and Health, Denmark/European and Developing Countries Clinical Trials Partnership (EDCTP)	Phase I	AIDS Res Hum Retroviruses. 2013 Nov;29(11):1504-12
AFO-18 (peptide-based vaccine)	NCT01009762	SSI/Rigshospitalet/Hvidovre University Hosp./Ministry of Interior & Health, Denmark	Phase I	Clin Immunol. 2013 Feb;146(2):120-30
AT20-KLH	MED-AT20-001	Medestea Research & Production SpA, Turin	Phase I	Vaccine. 2014 Feb 19;32(9):1072-8
ChAdV63.HIVcons + MVA.HIVconsv (viral vector vaccines)	NCT01712425	IrsiCaixa/Fundació Lluita contra la SIDA/Hospital Clinic of Barcelona/ HIVACAT/University of Oxford	Phase I	EClinicalMedicine. 2019 Jun 5;11:65-80. IAS 2015, Poster abstract MOPEA036
Dendritic cells loaded with HIV-1 lipopeptides	NCT00796770	Baylor Research Institute/ANRS	Phase I	PLoS Pathog. 2019 Sep 9;15(9):e1008011. Retrovirology 2012, 9(Suppl 2):P328
DermaVir	NCT00712530	Genetic Immunity	Phase I	PLoS One. 2012 7(5): e35416
D-GPE DNA + M-GPE MVA (DNA + viral vector vaccines)	NCT01881581	Centers for Disease Control and Prevention, China	Phase I	N/A
DNA.HTI + MVA.HTI + ChAdOx1.HTI (DNA + viral vector vaccines)	NCT03204617	Aelix Therapeutics	Phase I	CROI 2021, Abstract 161 , Webcast

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
THERAPEUTIC VACCINES (Cont.)				
HIVAX (lentiviral vector-based therapeutic vaccine)	NCT01428596	GeneCure Biotechnologies	Phase I	Vaccine. 2020 May 6;S0264-410X(20)30485-0 Vaccine. 2016 Apr 27;34(19):2225-32
HIV-v (peptide-based vaccine)	NCT01071031	PepTcell Limited	Phase I	Vaccine. 2013 Nov 19;31(48):5680-6
iHIVARNA-01 (TriMix & HIV antigen naked messenger RNA)	NCT02413645	Biomedical Research Institute August Pi i Sunyer (IDIBAPS)	Phase I	AIDS. 2018 Nov 13;32(17):2533-2545.
JS7 DNA + MVA62B (DNA + viral vector vaccines)	NCT01378156	GeoVax, Inc.	Phase I	PLoS One. 2016 Oct 6;11(10):e0163164
MAG pDNA vaccine +/- IL-12	NCT01266616	NIAID	Phase I	J Acquir Immune Defic Syndr. 2016 Feb 1;71(2):163-71.
MAG-pDNA + rVSV _{IN} HIV-1 Gag (DNA + viral vector vaccines)	NCT01859325	NIAID/Profectus Biosciences, Inc.	Phase I	J. Virology May 20, 2020 CROI 2019, Poster abstract 392, Webcast Sci Transl Med. 2017 Dec 6;9(419). pii: eaan8848
MVA.HIVconsv	NCT01024842	University of Oxford/Medical Research Council	Phase I	J Int AIDS Soc. 2017 May 19;20(1):21171.
PENNVAX-B (Gag, Pol, Env) + electroporation	NCT01082692	Inovio Pharmaceuticals	Phase I	Retrovirology 2012, 9(Suppl 2):P276
PENNVAX-B +/- IL-12 or IL-15	NCT00775424	University of Pennsylvania	Phase I	N/A
Recombinant adenovirus type 5 vaccine	NCT02762045	China CDC	Phase I	N/A
rMVA-HIV + rFPV-HIV (viral vector vaccines) in young adults	NCT00107549	NIAID	Phase I	AIDS. 2011 Nov 28; 25(18): 2227-2234

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Trial	Trial Registry Identifier(s)	Manufacturer/ Sponsor(s)	Phase	Published/Presented Data
THERAPEUTIC VACCINES (Cont.)				
Tat protein vaccine	NCT00505401 NCT01024595 (extended follow-up study)	CNAIDS, Istituto Superiore di Sanità, Rome, Italy	Phase I	Rev Recent Clin Trials. 2009 Sep;4(3):195-204 Vaccine. 2009 May 26;27(25-26):3306-12 AIDS. 2008 Oct 18;22(16):2207-9
TOLL-LIKE RECEPTOR AGONISTS				
MGN1703 toll-like receptor 9 (TLR-9) agonist	NCT02443935	University of Aarhus	Phase Ib/IIa	EBioMedicine. 2019 Jul 9. pii: S2352-3964(19)30440-2. AIDS. 2019 Mar 29 Clin Infect Dis. 2017 Mar 9
Poly-ICLC (TLR-3 agonist)	NCT02071095	Nina Bhardwaj, MD/Campbell Foundation/Oncovir, Inc.	Phase I/II	Front Immunol. 2019 Apr 9;10:725.
vesatolimod (TLR-7 agonist) in ART-treated HIV controllers	NCT03060447	Gilead Sciences	Phase Ib	EACS 2021, Abstract PE2/1 IAS 2021, Abstract OAA0304 (video) Sci Transl Med. 2021 Jun 23;13(599): eabg3071. CROI 2020, Abstract 40, Webcast
vesatolimod (formerly GS-9620) (TLR-7 agonist)	NCT02858401	Gilead Sciences	Phase Ib	Clinical Infectious Diseases, ciaa1534 IAS 2019, Abstract WEAA0304 (slides)
TRADITIONAL CHINESE MEDICINE				
Triptolide wilfordii	NCT02219672	Peking Union Medical College	Phase III	N/A
TREATMENT INTENSIFICATION/EARLY TREATMENT				
enfuvirtide	NCT00051831	NIAID	Not listed	J Infect Dis. 2010 Jan 15;201(2):293-6

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TREATMENT INTENSIFICATION/EARLY TREATMENT (Cont.)				
enfuvirtide	NCT00334022	Canadian Immunodeficiency Research Collaborative	Not listed	N/A
New Era Study: Treatment with multi-drug class (MDC) HAART	NCT00908544	MUC Research GmbH	Not listed	Front Immunol. 2018 Apr 30;9:811
PLUS: Pilot study on the effect of adding raltegravir +/- a second drug on HIV levels in the gut	NCT00884793	University of California, San Francisco	Not listed	J Infect Dis. 2010 Nov 15;202(10):1553-61 AIDS. 2010 Oct 23;24(16):2451-60
Anti-HIV medications for people recently infected with HIV	NCT00106171	NIAID	Phase IV	PLoS One. 2015 10(11):e0143259
DIORR: Dolutegravir impact on residual replication	NCT02500446	University of Melbourne	Phase IV	The Lancet HIV, Online First, April 8, 2018 CROI 2018, Abstract 71, Webcast
DRONE: Impact of starting a dolutegravir-based regimen on HIV-1 proviral DNA reservoir of treatment naïve and experienced patients	NCT02370979	University Hospital, Strasbourg, France	Phase IV	N/A
LEOPARD: Latency and early neonatal provision of antiretroviral drugs clinical trial	NCT02431975	Columbia University	Phase IV	Clinical Infectious Diseases, ciab586 J Clin Med. 2021 May 12;10(10):2074. EClinicalMedicine 18 (2020) 100241
ANRS 147 OPTIPRIM: Optimization of primary HIV-1 infection treatment	NCT01033760	Inserm-ANRS	Phase III	PLoS One. 2013; 8(5): e64219. PLoS One. 2013; 8(3): e59767 IAS 2013, Abstract WEAB0101 IAS Cure Symposium 2013, Presentation
maraviroc	NCT00808002	Germans Trias i Pujol Hospital	Phase III	AIDS. 2014 Jan 28;28(3):325-34

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TREATMENT INTENSIFICATION/EARLY TREATMENT (Cont.)				
raltegravir + maraviroc	NCT00935480	Centre Hospitalier Intercommunal de Toulon La Seyne sur Mer	Phase III	N/A
raltegravir	NCT00554398	Germans Trias i Pujol Hospital	Phase III	Antivir Ther. 2012;17(2):355–64
tenofovir/emtricitabine + dolutegravir or tenofovir/emtricitabine + darunavir/cobicistat	NCT02987530	Inserm/ANRS	Phase III	N/A
VIRECURE: Impact of extremely early ART to reduce viral reservoir & induce functional cure of HIV infection	NCT02588820	David Garcia Cinca, Hospital Clinic of Barcelona	Phase III	N/A
Intense acute infection study	NCT01154673	University of Toronto	Phase II/III	N/A
maraviroc	NCT00795444	Fundación para la Investigación Biomédica del Hospital Universitario Ramón y Cajal/Pfizer	Phase II	AIDS. 2013 Aug 24; 27(13):2081-8. PLoS One. 2011; 6(12):e27864
peginterferon alfa-2a (Pegasys)	NCT00594880	Wistar Institute	Phase II	EBioMedicine. 2020 Aug 19;59:102945. J Infect Dis. 2013 Jan 15; 207(2): 213–222
peginterferon alfa-2b	NCT01935089	University of Pennsylvania/Wistar Institute	Phase II	AIDS Res Hum Retroviruses. 2020 Dec 15. CROI 2017, Poster abstract 326
peginterferon alfa-2b	NCT02227277	Wistar Institute	Phase II	HIV Persistence Workshop 2019, Abstract PP 4.1 (see abstract book) CROI 2019, Abstract 136 , Webcast
raltegravir	NCT00520897	Canadian Immunodeficiency Research Collaborative	Phase II	AIDS. 2012 Jan 14;26(2):167–74
raltegravir	NCT00807443	Fundación para la Investigación Biomédica del Hospital Universitario Ramón y Cajal	Phase II	AIDS. 2012 Sep 24;26(15):1885–94

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TREATMENT INTENSIFICATION/EARLY TREATMENT (Cont.)				
Viral suppression after analytic treatment interruption in Thai patients who initiated HAART during acute HIV infection	NCT02614950	South East Asia Research Collaboration with Hawaii	Phase II	Nat Med. 2018 Jun 11 [Epub ahead of print] , CROI 2017, Abstract 124, Webcast
alpha interferon intensification	NCT01295515	NIAID	Phase I/II	N/A
indinavir + zidovudine + lamivudine + nevirapine	NCT00001644	NIAID	Phase I	N/A

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