Developmental Therapeutics



BMT developmental therapy treatment protocols			
Study	Clinical trial name	Phase	Age
STAR Aba GvHD SCD	Abatacept for Graft Versus Host Disease Prophylaxis after Hematopoietic Stem Cell Transplantation for Pediatric Sickle Cell Disease: A Sickle Transplant Alliance for Research Trial https://clinicaltrials.gov/ct2/show/NCT02867800	Pilot	3 to <21 yr
Abatacept NMD	Abatacept for Post-Transplant Immune Suppression in Children and Adolescents Receiving Allogeneic Hematopoietic Stem Cell Transplants for Non-Malignant Diseases https://clinicaltrials.gov/ct2/show/NCT01917708	Pilot	1 to 21 yr
HGB-206	Clinical Study Protocol HGB-206: A Phase 1 Study Evaluating Gene Therapy by Transplantation of Autologous CD34+ Stem Cells Transduced Ex Vivo with the LentiGlobin BB305 Lentiviral Vector in Subjects with Severe Sickle Cell https://clinicaltrials.gov/ct2/show/NCT02140554	I	≥18 yr
Autologous MSCs for GvHD	A Phase I Study of Mesenchymal Stromal Cells for the Treatment of Acute and Chronic Graft versus Host Disease https://clinicaltrials.gov/ct2/show/NCT02359929	I	>12 yr
BP-U-004	Phase 1/2 Study of CaspaCide T cells from an HLA-partially Matched Family Donor after Negative Selection of TCR αβ+ T cells in Pediatric Patients Affected by Hematological Disorders https://clinicaltrials.gov/ct2/show/NCT03301168	1/11	≥1 mo to ≤26 yr
ST-400-01	A Phase 1/2, Open-label, Single-arm Study to Assess the Safety, Tolerability, and Efficacy of ST-400 Autologous Hematopoietic Stem Cell Transplant for Treatment of Transfusion-dependent β-thalassemia (TDT) https://clinicaltrials.gov/ct2/show/NCT03432364	1/11	≥18 yr
BIV003	A Phase 1/2, Open-Label, Multicenter, Single-Arm Study to Assess the Safety, Tolerability, and Efficacy of BIVV003 for Autologous Hematopoietic Stem Cell Transplantation in Patients with Severe Sickle Cell Disease	1/11	18 to 35 yr
Novartis CART FU	Protocol No.CCTL019A2205B: Long Term Follow-up of Patients Exposed to Lentiviral-Based CD19 directed CART Cell Therapy https://clinicaltrials.gov/ct2/show/NCT02445222	NA	any age (received anti- CD19 directed CART therapy)

CNS developmental	therapy treatment protocols		
APEC1621SC	APEC1621SC: NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) Screening Protocol https://clinicaltrials.gov/ct2/show/NCT03155620	NA	≥12 mo to <u><</u> 21 yr
AflacST1501	Aflac ST1501, A Phase I Study of Abemaciclib in Children with Newly Diagnosed Diffuse Intrinsic Pontine Glioma and in Children with Recurrent and Refractory Solid Tumors Including Malignant Brain Tumors https://clinicaltrials.gov/ct2/show/NCT02644460	I	≥2 to <u><</u> 25 yr
AflacST1601	Aflac ST1601: A Phase I Trial of Temozolomide and Everolimus in Children with Recurrent or Refractory Brain Tumors	I	>3 to <22 yr
COG ADVL1414	ADVL1414, A Phase 1 Study of Selinexor (KPT-330, IND# 125052), a Selective XPO1 Inhibitor, in Recurrent and Refractory Pediatric Solid Tumors, including CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02323880	I	≥12 mo to <u><</u> 21 yr
COG ADVL1514	ADVL1514, A Phase I Study of ABI-009 (nab-rapamycin) in Pediatric Patients with Recurrent or Refractory Solid Tumors, including CNS Tumors as a Single Agent and in Combination with Temozolomide and Irinotecan https://clinicaltrials.gov/ct2/show/NCT02975882	ı	≥12 mo to <u><</u> 21 yr

COG ADVL1615	ADVL1615, A Phase 1 Study of Pevonedistat (MLN4924 IND# 136078), a NEDD8 Activating Enzyme (NAE) Inhibitor, in Combination with Temozolomide and Irinotecan in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03323034	ı	Part A1: ≥12 mo to ≤21 yr Part A2: ≥6 mo to <12 mo
COG ADVL1921	Phase 1 Study to Evaluate the Safety and Pharmacokinetics of Palbociclib (Ibrance®) in Combination with Irinotecan and Temozolomide in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03709680	I	≥2 to <21 yr
LOXO-EXT-17005	LOXO-EXT-17005: A Phase 1/2 Study of the TRK Inhibitor LOXO-195 in Adult and Pediatric Subjects with Previously Treated NTRK Fusion Cancers https://clinicaltrials.gov/ct2/show/NCT03215511	1/11	<u>≥</u> 1 mo
PBTC-029B	PBTC-029B: A Phase 1 and Phase II and Re-Treatment Study of AZD6244 for Recurrent or Refractory Low Grade Glioma https://clinicaltrials.gov/ct2/show/NCT01089101	1/11	≥3 to <21 yr
PBTC-045	PBTC-045: A Safety and Preliminary Efficacy trial of MK-3475 (pembrolizumab; anti-PD-1) in Children with Recurrent, Progressive or Refractory Diffuse Intrinsic Pontine Glioma (DIPG), Non-brainstem High-grade Gliomas (NB-HGG), Ependymoma, Medullo-blastoma and Hypermutated Brain Tumors https://clinicaltrials.gov/ct2/show/NCT02359565	I	≥1 to ≤18 yr
PBTC-048	PBTC-048: Feasibility Trial of Optune for Children with Recurrent or Progressive Supratentorial High-grade Glioma and Ependymoma	ı	≥5 to ≤21 yr

PBTC-050	PBTC-050: A Phase I and Surgical Study of Ribociclib and Everolimus (RAD001) in Children with Recurrent or Refractory Malignant Brain Tumors https://clinicaltrials.gov/ct2/show/NCT03387020	I	≥1 to <u><</u> 21 yr
PBTC-051	Phase I Study to Evaluate the Safety and Tolerability of the CD40 Agonistic Monoclonal Antibody APX005M in Pediatric Subjects with Recurrent/ Refractory Brain Tumors and Newly Diagnosed Brain Stem Glioma https://clinicaltrials.gov/ct2/show/NCT03389802	ı	≥1 to ≤21 yr
PBTC-053	A Pediatric Brain Tumor Consortium Phase I/II and Surgical Study of CX-4945 in Patients with Recurrent SHH Medulloblastoma https://clinicaltrials.gov/ct2/show/NCT03904862	1/11	≥3 to ≤18 yr
PBTC-055	PBTC-055: Phase I/II Trial of Dabrafenib, Trametinib, and Hydroxychloroquine (HCQ) for BRAF V600E-mutant or Trametinib and HCQ for BRAF Fusion/Duplication Positive or NF1-associated Recurrent or Refractory Gliomas in Children and Young Adults https://clinicaltrials.gov/ct2/show/NCT04201457	1/11	≥1 to ≤30 yr
EZH-102	A Phase 1 Study of the EZH2 Inhibitor Tazemetostat in Pediatric Subjects with Relapsed or Refractory INI1-Negative Tumors or Synovial Sarcoma https://clinicaltrials.gov/ct2/show/NCT02601937	ı	≥6 mo to ≤21 yr
ONC014	ONC201 in Newly Diagnosed Diffuse Intrinsic Pontine Glioma and Recurrent Pediatric H3 K27M Gliomas https://clinicaltrials.gov/ct2/show/NCT03416530	ı	≥2 to <19 yr

lgnyta RXDX-101-03	A Phase 1/1b, Open-Label, Dose-Escalation and Expansion Study of Entrectinib (RXDX-101) in Children and Adolescents with Recurrent or Refractory Solid Tumors and Primary CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02650401	l/lb	≥2 to <22 yr
COG ADVL1312	A Phase 1/2 Study of MK-1775 (AZD1775, IND# 121422) in Combination with Oral Irinotecan in Children, Adolescents, and Young Adults with Relapsed or Refractory https://clinicaltrials.gov/ct2/show/NCT02095132	1/11	>12 mo to <u><</u> 21 yr
CHLA MEK162	Phase I-II Study of MEK 162 for Children with Low-Grade Gliomas and Other Ras/Raf/ERK Pathway Activated Tumors https://clinicaltrials.gov/ct2/show/NCT02285439	1/11	≥1 to <18 yr
PBTC-029B	A Phase I and Phase II and Re-treatment Study of AZD6244 for Recurrent or Refractory Pediatric Low Grade Glioma https://clinicaltrials.gov/ct2/show/NCT01089101	1/11	≥3 to <21 yr
COG APEC1621D ^{REQ}	APEC1621D NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of LY3023414 in Patients with Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03213678	II	≥12 mo to <u><</u> 21 yr
COG APEC1621H ^{REQ}	APEC1621H NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of Olaparib in Patients with Tumors Harboring Defects in DNA Damage Repair Genes https://clinicaltrials.gov/ct2/show/NCT03233204	II	≥12 mo to <u><</u> 21 yr
COG APEC1621J ^{REQ}	APEC1621J NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of BVD- 523FB (Ulixertinib) in Patients with Tumors Harboring Activating MAPK Pathway Mutations	II	≥12 mo to <u><</u> 21 yr
COG ADVL1622	ADVL1622, Phase 2 Trial of XL184 (Cabozantinib), an Oral Small-Molecule Inhibitor of Multiple Kinases, in Children and Young Adults with Refractory Sarcomas, Wilms Tumor, and Other Rare Tumors https://clinicaltrials.gov/ct2/show/NCT02867592	II	≥2 to ≤30 yr except ≤18 yr for MTC, RCC, and HCC

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COG ADVL1823	ADVL1823, Larotrectinib (LOXO-101, NSC# 788607, IND# 141824) for Previously Untreated TRK Fusion Pediatric Solid Tumors and TRK Fusion Relapsed Pediatric Acute Leukemias https://clinicaltrials.gov/ct2/show/NCT03834961	II	<u><</u> 30 yr
Aflac ST1502 CHOANOME II	AflacST1502: A Phase II Study of Sirolimus in Combination with Metronomic Chemotherapy in Children with Recurrent and/or Refractory Solid and CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02574728	II	>12 mo to <u><</u> 30 yr
SJATRT	Phase 2 Study of Alisertib as a Single Agent in Recurrent or Progressive Central Nervous System (CNS) Atypical Teratoid Rhabdoid Tumors (AT/RT) and Extra-CNS Malignant Rhabdoid Tumors (MRT) and in Combination Therapy in Newly Diagnosed AT/RT (SJATRT) https://clinicaltrials.gov/ct2/show/NCT02114229	II	<22 yr
Leukemia developm	nental therapy treatment protocols		
ADVL1712	ADVL1712, A Feasibility Trial of MLN4924 (Pevonedistat, TAK 924, IND#142772) Given in Combination with Azacitidine, Fludarabine, and Cytarabine, in Children, Adolescents, and Young Adults with Relapsed or Refractory Acute Myeloid Leukemia or Relapsed Myelodysplastic Syndrome https://clinicaltrials.gov/ct2/show/NCT03813147	I	≥1 mo to ≤21 yr
AINV18P1	A Phase 1 Study of Palbociclib (IND# 141416), A CDK 4/6 Inhibitor, in Combination with Chemotherapy in Children with Relapsed Acute Lymphoblastic Leukemia (ALL) or Lymphoblastic Lymphoma (LL) https://clinicaltrials.gov/ct2/show/NCT03792256	I	≥12 mo to ≤31 yr
LEAP MTT	Matched Targeted Therapy (MTT) Recommendation for Patients with Recurrent, Refractory, or High Risk Leukemias https://clinicaltrials.gov/ct2/show/NCT02670525	Feasi- bility	<u><</u> 30 yr
AbbVie M13-833	A Phase 1 Study of the Safety and Pharmacokinetics of Venetoclax in Pediatric and Young Adult Patients with Relapsed or Refractory Malignancies https://clinicaltrials.gov/ct2/show/NCT03236857	I	<25 yr
TACL 2016-003	Epigenetic Reprogramming in Relapse AML: A Phase 1 Study of Decitabine and Vorinostat Followed by Fludarabine, Cytarabine and G-CSF (FLAG) in Children and Young Adults with Relapsed/Refractory AML https://clinicaltrials.gov/ct2/show/NCT03263936	I	≥1 to ≤25 yr
AflacLL1602 ENCERT	ENCERT: A Phase 1 Trial using Everolimus in combination with Nelarabine, Cyclophosphamide and Etoposide in Relapsed T cell Lymphoblastic Leukemia/ Lymphoma https://clinicaltrials.gov/ct2/show/NCT03328104	I	>1 to <30 yr

TACL 2012-002	A Pilot Study of Vincristine Sulfate Liposome Injection (Marqibo®) in Combination with UK ALL R3 Induction Chemotherapy for Children, Adolescents, and Young Adults with Relapse of Acute Lymphoblastic Leukemia https://clinicaltrials.gov/ct2/show/NCT02879643	Pilot	≥1 to <21 yr
20140106 (formerly ONYX CFZ008)	Phase 1b Study of Carfilzomib in Combination with Induction Chemotherapy in Children with Relapsed or Refractory Acute Lymphoblastic Leukemia https://clinicaltrials.gov/ct2/show/NCT02303821	lb/II	<u><</u> 18 yr
AC220-A-U202 (ADVL1822)	A Phase 1/2, Multi-center, Dose-escalating Study to Evaluate the Safety, Pharmacokinetics, Pharmaconynamics, and Efficacy of Quizartinib Administered in Combination with Re-induction Chemotherapy, and as a Single-agent Continuation Therapy, in Pediatric Relapsed/Refractory AML Subjects Aged 1 Month to <18 Years (and Young Adults Aged up to 21 Years) with FLT3-ITD Mutations https://clinicaltrials.gov/ct2/show/NCT03793478	1/11	≥1 mo to <21 yr
TACL 2016-002	TACL2016-002: A (BMS reference CA209-9JY) TACL Phase 1/2 Study of Nivolumab in Combination with 5- azacytidine in pediatric patients with relapsed/refractory acute myeloid leukemia	1/11	>1 to <u><</u> 30 yr
COG AALL1521 [Incyte]	INCB 18424-269: A Phase 2 Study of JAK1/JAK2 Inhibitor Ruxolitinib with Chemotherapy in Children with <i>De Novo</i> High-Risk CRLF2-rearranged and/or JAK Pathway-mutant Acute Lymphoblastic Leukemia https://clinicaltrials.gov/ct2/show/NCT02723994	II	>1 to <21 yr
JNJ Darutumumab	An Open-label, Multicenter, Phase 2 Study Evaluating the Efficacy and Safety of Daratumumab in Pediatric and Young Adult Subjects ≥1 and ≤30 Years of Age With Relapsed/ Refractory Precursor B-cell or T-cell Acute Lymphoblastic Leukemia or Lymphoblastic Lymphoma https://clinicaltrials.gov/ct2/show/NCT03384654	II	≥1 to <u>≤</u> 30 yr
COG ADVL1521	ADVL1521: A Phase 2 Study of the MEK inhibitor Trametinib (IND #119346, NSC# 763093) in Children with Relapsed or Refractory Juvenile Myelomonocytic Leukemia https://clinicaltrials.gov/ct2/show/NCT03190915	II	≥2 to <22 yr
COG ADVL1823	ADVL1823, Larotrectinib (LOXO-101, NSC# 788607, IND# 141824) for Previously Untreated TRK Fusion Pediatric Solid Tumors and TRK Fusion Relapsed Pediatric Acute Leukemias https://clinicaltrials.gov/ct2/show/NCT03834961	II	<u><</u> 30 yr

Lymphoma developmental therapy treatment protocols

AINV18P1	A Phase 1 Study of Palbociclib (IND# 141416), A CDK 4/6 Inhibitor, in Combination with Chemotherapy in Children with Relapsed Acute Lymphoblastic Leukemia (ALL) or Lymphoblastic Lymphoma (LL) https://clinicaltrials.gov/ct2/show/NCT03792256	I	≥12 mo to ≤31 yr
AflacLL1602 ENCERT	ENCERT: A Phase 1 Trial using Everolimus in combination with Nelarabine, Cyclophosphamide and Etoposide in Relapsed T cell Lymphoblastic Leukemia/ Lymphoma https://clinicaltrials.gov/ct2/show/NCT03328104	ı	>1 to <30 yr
COG ADVL1414	ADVL1414, A Phase 1 Study of Selinexor (KPT-330, IND# 125052), A Selective XPO1 Inhibitor, in Recurrent and Refractory Pediatric Solid Tumors, including CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02323880	ı	≥12 mo to ≤21 yr
COG ADVL1615	ADVL1615, A Phase 1 Study of Pevonedistat (MLN4924 IND# 136078), a NEDD8 Activating Enzyme (NAE) Inhibitor, in Combination with Temozolomide and Irinotecan in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03323034	ı	Part A1: ≥12 mo to ≤21 yr Part A2: ≥6 mo to <12 mo
COG ADVL1721	A Non-randomized, Open-label, Multi-center, Phase I/II Study of Pl3K Inhibitor Copanlisib in Pediatric Patients with Relapsed/Refractory Solid Tumors or Lymphoma https://clinicaltrials.gov/ct2/show/NCT03458728	1/11	≥6 mo to ≤21 yr
JNJ Darutumumab	An Open-label, Multicenter, Phase 2 Study Evaluating the Efficacy and Safety of Daratumumab in Pediatric and Young Adult Subjects ≥1 and ≤30 Years of Age With Relapsed/ Refractory Precursor B-cell or T-cell Acute Lymphoblastic Leukemia or Lymphoblastic Lymphoma https://clinicaltrials.gov/ct2/show/NCT03384654	II	≥1 to ≤30 yr
APEC1621SC	APEC1621SC: NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) Screening Protocol https://clinicaltrials.gov/ct2/show/NCT03155620	NA	≥12 mo to ≤21 yr

COG APEC1621D ^{REQ}	APEC1621D NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) – Phase 2 Subprotocol of LY3023414 in Patients with Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03213678	II	≥12 mo to ≤21 yr
COG APEC1621H ^{REQ}	APEC1621H NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of Olaparib in Patients with Tumors Harboring Defects in DNA Damage Repair Genes https://clinicaltrials.gov/ct2/show/NCT03233204	II	≥12 mo to <u><</u> 21 yr
COG APEC1621J ^{REQ}	APEC1621J NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of BVD-523FB (Ulixertinib) in Patients with Tumors Harboring Activating MAPK Pathway Mutations	II	≥12 mo to <u><</u> 21 yr
AbbVie M13-833	A Phase 1 Study of the Safety and Pharmacokinetics of Venetoclax in Pediatric and Young Adult Patients with Relapsed or Refractory Malignancies https://clinicaltrials.gov/ct2/show/NCT03236857	I	<25 yr

Neuroblastoma developmental therapy treatment protocols			
APEC1621SC	APEC1621SC: NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) Screening Protocol https://clinicaltrials.gov/ct2/show/NCT03155620	NA	≥12 mo to <u><</u> 21 yr
AflacST1501	Aflac ST1501, A Phase I Study of Abemaciclib in Children with Newly Diagnosed Diffuse Intrinsic Pontine Glioma and in Children with Recurrent and Refractory Solid Tumors Including Malignant Brain Tumors https://clinicaltrials.gov/ct2/show/NCT02644460	I	≥2 to <25 yr
AflacST1603 GemAbrax	AflacST1603: A Phase 1 Study Using Nab-paclitaxel (Abraxane®) in Combination with Gemcitabine for Pediatric Relapsed and Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03507491	I	≥6 mo to ≤30 yr
AbbVie M13-833	A Phase 1 Study of the Safety and Pharmacokinetics of Venetoclax in Pediatric and Young Adult Patients with Relapsed or Refractory Malignancies	1	<25 yr

	https://clinicaltrials.gov/ct2/show/NCT03236857		
lgnyta RXDX-101-03	A Phase 1/1b, Open-Label, Dose-Escalation and Expansion Study of Entrectinib (RXDX-101) in Children and Adolescents with Recurrent or Refractory Solid Tumors and Primary CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02650401	I/lb	≥2 to <22 yr
COG ADVL1514	ADVL1514, A Phase I Study of ABI-009 (nab-rapamycin) in Pediatric Patients with Recurrent or Refractory Solid Tumors, including CNS Tumors as a Single Agent and in Combination with Temozolomide and Irinotecan https://clinicaltrials.gov/ct2/show/NCT02975882	-	≥12 mo to ≤21 yr
COG ADVL1615	ADVL1615, A Phase 1 Study of Pevonedistat (MLN4924 IND# 136078), a NEDD8 Activating Enzyme (NAE) Inhibitor, in Combination with Temozolomide and Irinotecan in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03323034	-	Part A1: ≥12 mo to ≤21 yr Part A2: ≥6 mo to <12 mo
COG ADVL1921	Phase 1 Study to Evaluate the Safety and Phrmacokinetics of Palbociclib (Ibrance®) in Combination with Irinotecan and Temozolomide in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03709680	-	≥2 to <21 yr
COG ADVL1614	ADVL1614: A Phase 1/2 Study of VX15/2503 (IND# 136181) in Children, Adolescents, or Young Adults with Recurrent or Relapsed Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03320330	I/II	≥12 mo to ≤30 yr
COG ADVL1721	A Non-randomized, Open-label, Multi-center, Phase I/II Study of PI3K Inhibitor Copanlisib in Pediatric Patients with Relapsed/Refractory Solid Tumors or Lymphoma https://clinicaltrials.gov/ct2/show/NCT03458728	I/II	≥ 6 mo to <u><</u> 21 yr
LOXO-EXT- 17005	LOXO-EXT-17005: A Phase 1/2 Study of the TRK Inhibitor LOXO-195 in Adult and Pediatric Subjects with Previously Treated NTRK Fusion Cancers https://clinicaltrials.gov/ct2/show/NCT03215511	I/II	<u>≥</u> 1 mo
COG APEC1621DREQ	APEC1621D NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) – Phase 2 Subprotocol of LY3023414 in Patients with Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03213678	II	≥12 mo to ≤21 yr

COG APEC1621HREQ	APEC1621H NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of Olaparib in Patients with Tumors Harboring Defects in DNA Damage Repair Genes https://clinicaltrials.gov/ct2/show/NCT03233204	Ш	≥12 mo to <u><</u> 21 yr
COG APEC1621J ^{REQ}	APEC1621J NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of BVD-523FB (Ulixertinib) in Patients with Tumors Harboring Activating MAPK Pathway Mutations	II	≥12 mo to <u><</u> 21 yr
Aflac ST1502 CHOANOME II	AflacST1502: A Phase II Study of Sirolimus in Combination with Metronomic Chemotherapy in Children with Recurrent and/or Refractory Solid and CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02574728	II	>12 mo to ≤30 yr
COG ADVL1622	ADVL1622, Phase 2 Trial of XL184 (Cabozantinib), an Oral Small-Molecule Inhibitor of Multiple Kinases, in Children and Young Adults with Refractory Sarcomas, Wilms Tumor, and Other Rare Tumors https://clinicaltrials.gov/ct2/show/NCT02867592	II	≥2 to ≤30 yr except ≤18 yr for MTC, RCC, and HCC
COG ADVL1823	ADVL1823, Larotrectinib (LOXO-101, NSC# 788607, IND# 141824) for Previously Untreated TRK Fusion Pediatric Solid Tumors and TRK Fusion Relapsed Pediatric Acute Leukemias https://clinicaltrials.gov/ct2/show/NCT03834961	II	≤30 yr
NANT 2013-01	NANT 2013-01: A Phase I Dose Escalation Study of Autologous Expanded Natural Killer (NK) Cells for Immunotherapy of Relapsed Refractory Neuroblastoma with Dinutuximab +/- Lenalidomide https://clinicaltrials.gov/ct2/show/NCT02573896	I	<u>≤</u> 30 yr
NANT 2015-02 ^{REQ}	NANT 2015-02: Phase 1 Study of Lorlatinib (PF-06463922), an Oral Small Molecule Inhibitor of ALK/ROS1, for Patients with ALK-driven Relapsed or Refractory Neuroblastoma https://clinicaltrials.gov/ct2/show/NCT03107988	I	≥12 mo

NANT 2017-01 ^{REQ}	NANT 2017-01: A Phase I Study of 131I-MIBG with Dinutuximab for Relapsed/Refractory Neuroblastoma (IND# 137554) https://clinicaltrials.gov/ct2/show/NCT03332667	-	≥1 to <30 yr
NANT 2004-05	Neuroblastoma Biology Study (Any patient with high risk neuroblastoma who is not enrolled on a COG frontline therapeutic study is eligible if undergoing a disease eval.)	Biology	≥31 days
NANT 2015-01	Neuroblastoma Precision Trial	Biology	≥1 to ≤30 yr
MIBG Access	An Open Label, Expanded Access Protocol Using 131I-Metaiodobenzylguanidine (131I-MIBG) Therapy in Patients with Refractory Neuroblastoma, Pheochromocytoma, or Paragangioma	Access to MIBG therapy	≥12 mo
AflacST17B1	AflacST17B1: Immunophenotyping and Cytokine Profiling of Patients Receiving Therapeutic 131I-MIBG for Relapsed/Refractory Neuroblastoma	Biology	≥1 to ≤30 yr
Solid tumor dev	relopmental therapy treatment protocols		
APEC1621SC	APEC1621SC: NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) Screening Protocol https://clinicaltrials.gov/ct2/show/NCT03155620	NA	≥12 mo to ≤21 yr
AflacST1501	Aflac ST1501, A Phase I Study of Abemaciclib in Children with Newly Diagnosed Diffuse Intrinsic Pontine Glioma and in Children with Recurrent and Refractory Solid Tumors Including Malignant Brain Tumors https://clinicaltrials.gov/ct2/show/NCT02644460	ı	≥2 to ≤25 yr

AflacST1603 GemAbrax	AflacST1603: A Phase 1 Study Using Nab-paclitaxel (Abraxane®) in Combination with Gemcitabine for Pediatric Relapsed and Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03507491	ı	≥6 mo to ≤30 yr
AbbVie M13-833	A Phase 1 Study of the Safety and Pharmacokinetics of Venetoclax in Pediatric and Young Adult Patients with Relapsed or Refractory Malignancies https://clinicaltrials.gov/ct2/show/NCT03236857	-	<25 yr
COG ADVL1615	ADVL1615, A Phase 1 Study of Pevonedistat (MLN4924 IND# 136078), a NEDD8 Activating Enzyme (NAE) Inhibitor, in Combination with Temozolomide and Irinotecan in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03323034	ı	Part A1: ≥12 mo to ≤21 yr Part A2: ≥6 mo to <12 mo
Ignyta RXDX-101-03	A Phase 1/1b, Open-Label, Dose-Escalation and Expansion Study of Entrectinib (RXDX-101) in Children and Adolescents with Recurrent or Refractory Solid Tumors and Primary CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02650401	I/Ib	≥2 to <22 yr
LOXO-EXT- 17005	LOXO-EXT-17005: A Phase 1/2 Study of the TRK Inhibitor LOXO-195 in Adult and Pediatric Subjects with Previously Treated NTRK Fusion Cancers https://clinicaltrials.gov/ct2/show/NCT03215511	I/II	≥1 mo
COG ADVL1312	A Phase 1/2 Study of MK-1775 (AZD1775, IND# 121422) in Combination with Oral Irinotecan in Children, Adolescents, and Young Adults with Relapsed or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT02095132	1/11	>12 mo to <u><</u> 21 yr
COG ADVL1414	ADVL1414, A Phase 1 Study of Selinexor (ad-330, IND# 125052), A Selective XPO1 Inhibitor, in Recurrent and Refractory Pediatric Solid Tumors, including CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02323880	-	≥12 mo to <u><</u> 21 yr
COG ADVL1514	ADVL1514, A Phase I Study of ABI-009 (nab-rapamycin) in Pediatric Patients with Recurrent or Refractory Solid Tumors, including CNS Tumors as a Single Agent and in Combination with Temozolomide and Irinotecan https://clinicaltrials.gov/ct2/show/NCT02975882	-	≥12 mo to <u><</u> 21 yr

COG ADVL1921	Phase 1 Study to Evaluate the Safety and Phrmacokinetics of Palbociclib (Ibrance®) in Combination with Irinotecan and Temozolomide in Pediatric Patients with Recurrent or Refractory Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03709680	ſ	≥2 to <21 yr
COG ADVL1614	ADVL1614: A Phase 1/2 Study of VX15/2503 (IND# 136181) in Children, Adolescents, or Young Adults with Recurrent or Relapsed Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03320330	1/11	≥12 mo to ≤30 yr
COG ADVL1721	A Non-randomized, Open-label, Multi-center, Phase I/II Study of PI3K Inhibitor Copanlisib in Pediatric Patients with Relapsed/Refractory Solid Tumors or Lymphoma https://clinicaltrials.gov/ct2/show/NCT03458728	I/II	≥ 6 mo to <u><</u> 21 yr
EZH-102	A Phase 1 Study of the EZH2 Inhibitor Tazemetostat in Pediatric Subjects with Relapsed or Refractory INI1-Negative Tumors or Synovial Sarcoma https://clinicaltrials.gov/ct2/show/NCT02601937	ı	≥6 mo to ≤21 yr
COG APEC1621DREQ	APEC1621D NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice) – Phase 2 Subprotocol of LY3023414 in Patients with Solid Tumors https://clinicaltrials.gov/ct2/show/NCT03213678	Ш	≥12 mo to <u><</u> 21 yr
COG APEC1621H ^{REQ}	APEC1621H NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of Olaparib in Patients with Tumors Harboring Defects in DNA Damage Repair Genes https://clinicaltrials.gov/ct2/show/NCT03233204	II	≥12 mo to <u><</u> 21 yr
COG APEC1621J ^{REQ}	APEC1621J NCI-COG Pediatric MATCH (Molecular Analysis for Therapy Choice)—Phase 2 Subprotocol of BVD-523FB (Ulixertinib) in Patients with Tumors Harboring Activating MAPK Pathway Mutations	Ш	≥12 mo to <u><</u> 21 yr

Aflac ST1502 CHOANOME II	AflacST1502: A Phase II Study of Sirolimus in Combination with Metronomic Chemotherapy in Children with Recurrent and/or Refractory Solid and CNS Tumors https://clinicaltrials.gov/ct2/show/NCT02574728	Ш	>12 mo to <u>≤</u> 30 yr
COG ADVL1622	ADVL1622, Phase 2 Trial of XL184 (Cabozantinib), an Oral Small-Molecule Inhibitor of Multiple Kinases, in Children and Young Adults with Refractory Sarcomas, Wilms Tumor, and Other Rare Tumors https://clinicaltrials.gov/ct2/show/NCT02867592	=	≥2 to ≤30 yr except ≤18 yr for MTC, RCC, and HCC
COG ADVL1823	ADVL1823, Larotrectinib (LOXO-101, NSC# 788607, IND# 141824) for Previously Untreated TRK Fusion Pediatric Solid Tumors and TRK Fusion Relapsed Pediatric Acute Leukemias https://clinicaltrials.gov/ct2/show/NCT03834961	=	≤30 yr
SJATRT	Phase 2 Study of Alisertib as a Single Agent in Recurrent or Progressive Central Nervous System (CNS) Atypical Teratoid Rhabdoid Tumors (AT/RT) and Extra-CNS Malignant Rhabdoid Tumors (MRT) and in Combination Therapy in Newly Diagnosed AT/RT (SJATRT) https://clinicaltrials.gov/ct2/show/NCT02114229	II	<22 yr