



ASH 2022 abstracts: What's hot in ALL?

To help navigate the exciting content being presented at the 64th ASH Annual Meeting & Exposition, the ALL Hub Steering Committee members have provided their recommendations for the top abstracts to look out for in ALL.



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the abstracts
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Scientific Education Support

Frontline emerging therapies

49	<u>Impact of Additional Intensive L-Asparaginase Therapy during Consolidation Phase for High-Risk Acute Lymphoblastic Leukemia: Results of a Randomized Controlled Trial in the AIEOP-BFM ALL 2009 Protocol</u>
50	<u>In Adults with Ph-Negative Acute Lymphoblastic Leukemia (ALL), Age-Adapted Chemotherapy Intensity and MRD-Driven Transplant Indication Significantly Reduces Treatment-Related Mortality (TRM) and Improves Overall Survival – Results from the Graall-2014 Trial</u>
51	<u>Results of the Risk-Adapted, MRD-Stratified GMALL Trial 08/2013 in 281 T-ALL / T-Lbl Patients: Excellent Outcome of Standard Risk Thymic T-ALL</u>
52	<u>IKZF1plus Confers a Strong Adverse Prognostic Effect in Total Therapy Studies (XV/XVI)</u>
53	<u>Outcome of 841 Older Patients (>55 yrs) with Newly Diagnosed Ph/BCR-ABL Negative ALL Prospectively Treated According to Pediatric-Based, Age-Adapted GMALL Protocols</u>
54	<u>Risk Stratified Therapy with Nelarabine and Intensified Administration of L-Asparaginase for Newly Diagnosed T-Cell Acute Lymphoblastic Leukemia in Adolescents and Young Adults (JPLSG T-11/JALSG T-ALL-211-U): An Intergroup Phase 2 Study</u>
82	<u>Olverembatinib (HQP1351) Overcomes Ponatinib Resistance in Patients with Heavily Pretreated/Refractory Chronic Myeloid Leukemia (CML) and Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia (Ph+ ALL)</u>
150	<u>Novel Drugs to Target JAK2 Rearrangements in Pediatric Acute Lymphoblastic Leukemia</u>
211	<u>Blinatumomab during Consolidation in High-Risk Philadelphia Chromosome (Ph)-Negative B-Cell Precursor (BCP) Acute Lymphoblastic Leukemia (ALL) Adult Patients: A Two-Cohort Comparison within the Graall-2014/B Study</u>



Frontline emerging therapies

212	<u>Inotuzumab Ozogamicin Induction Followed By Standard Chemotherapy Yields High Remission Rates and Promising Survival in Older (>55 Years) Patients with De Novo B-Lymphoblastic Leukemia (GMALL-Initial1 Trial)</u>
213	<u>Ponatinib and Blinatumomab for Patients with Newly Diagnosed Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia: A Subgroup Analysis from a Phase II Study</u>
982	<u>CD22 CAR T Cells Demonstrate Favorable Safety Profile and High Response Rates in Pediatric and Adult B-ALL: Results of a Phase 1b Study</u>
1367	<u>Predictors of Veno-Occlusive Disease (VOD) of the Liver in Patients Treated with Inotuzumab Ozogamicin (InO) Containing Regimen in B-Cell Acute Lymphoblastic Leukemia</u>
1410	<u>Frontline Combination of Hyper-CVAD with Ponatinib for Patients with Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia—6-Year Follow-up Results</u>
2724	<u>Fractionated Inotuzumab Ozogamicin Combined with Low-Intensity Chemotherapy in Older Patients with Newly Diagnosed CD22+ Philadelphia Chromosome (Ph)-Negative B-Cell Precursor (BCP) Acute Lymphoblastic Leukemia (ALL): Results of the EWALL-INO Study</u>
2725	<u>A Phase 2 Study of Ruxolitinib with Chemotherapy in Children with Philadelphia Chromosome-like Acute Lymphoblastic Leukemia (AALL1521/INCB18424-269): Biologic Characteristics and Minimal Residual Disease Response of Patients with Non-CRLF2-Rearranged JAK Pathway Alterations</u>
2729	<u>A Phase II Study of the Sequential Combination of Low-Intensity Chemotherapy (mini-hyper-CVD) and Ponatinib Followed By Blinatumomab and Ponatinib in Patients with Philadelphia Chromosome-Positive (Ph+) Acute Lymphoblastic Leukemia (ALL)</u>



Frontline emerging therapies

2732	<u>Blinatumomab Alternating With Low-Intensity Chemotherapy (CT) Treatment for Older Adults With Newly Diagnosed Philadelphia (Ph)-Negative B-Cell Precursor Acute Lymphoblastic Leukemia (BCP-ALL) is Well Tolerated and Efficacious: Safety Run-In Results for the Phase 3 Randomized Controlled Golden Gate Study</u>
2776	<u>Gimema ALL2418: Interim Analysis of a Phase Iia Study of Feasibility and Effectiveness of Inotuzumab Ozogamicin in Adult Patients with B-Cell Acute Lymphoblastic Leukemia with Positive Minimal Residual Disease before Any Hematopoietic Stem Cell Transplantation</u>
4043	<u>The Addition of Inotuzumab Ozogamicin to Hyper-CVAD Plus Blinatumomab Further Improves Outcomes in Patients with Newly Diagnosed B-Cell Acute Lymphoblastic Leukemia: Updated Results from a Phase II Study</u>
4045	<u>Blinatumomab in Combination with an Intensive Pediatric Protocol Results in High Rates of Day 79 MRD Negativity in Adolescent and Young Adult Acute Lymphoblastic Leukemia - Preliminary Results of the Australasian Leukaemia and Lymphoma Group (ALLG) ALL09 "Sublime" Study</u>
4049	<u>A Phase II Study of Flumatinib with Chemotherapy for Newly Diagnosed Ph/BCR-ABL1-Positive Acute Lymphoblastic Leukemia in Adults : Preliminary Results from RJ-ALL2020.2A Trial</u>
4663	<u>CD19 Chimeric Antigen Receptor (CAR) T-Cell Therapy for Adults with B-Cell Acute Lymphoblastic Leukemia (B-ALL): A Large Real-World Series from Acute Leukemia Working Party of the European Society for Blood and Marrow Transplantation (EBMT)</u>
LBA-1	<u>Consolidation Therapy with Blinatumomab Improves Overall Survival in Newly Diagnosed Adult Patients with B-Lineage Acute Lymphoblastic Leukemia in Measurable Residual Disease Negative Remission: Results from the ECOG-ACRIN E1910 Randomized Phase III National Cooperative Clinical Trials Network Trial</u>



Treatment for relapsed/refractory ALL

778	<u>Multicenter Phase I Study of Post-Transplant Low-Dose Inotuzumab Ozogamicin to Prevent Relapse of Acute Lymphoblastic Leukemia</u>
980	<u>Analysis of 53 Patients with Relapsed or Refractory (R/R) T-Cell Acute Lymphoblastic Leukemia (T-ALL) and T-Cell Lymphoblastic Lymphoma (T-LBL) Treated with CD7-Targeted CAR-T Cell Therapy</u>
1368	<u>Updated Outcomes from the Historical Control Study SCHOLAR-3 Contextualizing ZUMA-3 Results of Brexucabtagene Autoleucel (KTE-X19) in Adult Patients with Relapsed or Refractory B-Cell Acute Lymphoblastic Leukemia (R/R B-ALL)</u>
1414	<u>Venetoclax in Combination with Homoharringtonine and Cytarabine in the Treatment of Relapsed/Refractory Early T-Cell Precursor Acute Lymphoblastic Leukaemia: A Single Arm, Multicenter, Prospective, Phase II, Pilot Trial</u>
1417	<u>The First Report of Third-Generation TKI Olverembatinib in Adult Ph/BCR-ABL1-Positive Acute Lymphoblastic Leukemia with T315I Mutation and Relapsed Disease</u>
1418	<u>Reduced Intensity Reinduction Followed By Blinatumomab Achieves Excellent MRD Clearance with Reduced Toxicity and Facilitates Timely Transplant in Children and Young People with Relapsed B-Precursor Acute Lymphoblastic Leukemia</u>
1995	<u>A Novel Universal CD7-Targeted CAR-T Cell Therapy for Relapsed or Refractory T-Cell Acute Lymphoblastic Leukemia and T-Cell Lymphoblastic Lymphoma</u>
1996	<u>Final Results of Phase I/II Study of Donor-Derived CAR T Cells Engineered with Sleeping Beauty in Pediatric and Adult Patients with B-Cell Acute Lymphoblastic Leukemia Relapsed Post-HSCT</u>
2017	<u>Consolidation with Allogeneic Hematopoietic Cell Transplant Improved Survival Outcomes of Adults with Relapsed / Refractory Acute Lymphoblastic Leukemia Following Response to Memory-Enriched CD19CART Cells</u>



Treatment for relapsed/refractory ALL

2683	Novel Salvage Therapies Are Highly Effective in Adults with Relapsed/Refractory Acute Lymphoblastic Leukemia (ALL) with Philadelphia (Ph)-like Fusions
2684	Veno-Occlusive Disease Risk and Other Outcomes in Patients with B-Cell Precursor Acute Lymphoblastic Leukemia Who Received Inotuzumab Ozogamicin and Proceeded to Hematopoietic Stem Cell Transplantation: A Registry-Based, Observational Study
2727	Safety and Pharmacokinetics of Subcutaneous Blinatumomab (SC blinatumomab) for the Treatment of Adults with Relapsed or Refractory B Cell Precursor Acute Lymphoblastic Leukemia (R/R B-ALL); Results from a Phase 1b Study
3329	An Open-Label, First-in-Human, Dose-Escalation Study of SAR443579 Administered As Single Agent By Intravenous Infusion in Patients with Relapsed or Refractory Acute Myeloid Leukemia (R/R AML), B-Cell Acute Lymphoblastic Leukemia (B-ALL) or High-Risk Myelodysplasia (HR-MDS)
4046	Ponatinib and Blinatumomab for Patients with Relapsed/Refractory Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia or Chronic Myeloid Leukemia in Lymphoid Blast Phase: A Subgroup Analysis from a Phase II Study
4048	BCL-2 and BCL-XL Antagonists for the Treatment of Relapsed and Refractory Adult Acute Lymphoblastic Leukemia/Lymphoblastic Lymphoma. a Campus ALL Real-Life Study

Socioeconomic challenges

381	Access and Treatment Equity across the Comprehensive Cancer Center Catchment Area: Targets for Disparities Remediation in Acute Leukemia Research Participation
903	Poverty during Maintenance and Relapse Risk in Children with Acute Lymphoblastic Leukemia (ALL): A Report from Children's Oncology Group Study (COG-AALL03N1)
994	Geographical Barriers to Accessing Specialty Cancer Care Among Adolescents and Young Adults with Acute Lymphoblastic Leukemia
1379	Outcomes of Elderly Patients with Acute Lymphoblastic Leukemia: Trends of Survival in the Last Two Decades
2233	Addressing Racial Disparities to Advance Quality Care for Adults with Acute Leukemia: A Health Equity-Focused Quality Improvement Program



Mechanism

715	The Clinico-Genomic Landscape of Induction Failure in Childhood and Young Adult T-Cell Acute Lymphoblastic Leukemia (T-ALL)
718	Comprehensive Genome Characterization of Childhood T-ALL Links Oncogene Activation Mechanism and Subtypes to Prognosis
719	Pharmacotypes across the Genomic Landscape of Pediatric Acute Lymphoblastic Leukemia and Impact on Treatment Response
1513	The Prognostic Effect of IKZF1 Deletions in ETV6::RUNX1 and High Hyperdiploid Childhood Acute Lymphoblastic Leukemia
2822	IKZF1 Deletions Are Markers of Treatment Resistance in Adult Ph-Negative B-Cell Acute Lymphoblastic Leukemia Patients Treated within the Ongoing Risk-Adapted Pethema LAL19 Trial
2833	Ph-like and IKZF1plus Features in Children with Down Syndrome and B Cell Precursor Acute Lymphoblastic Leukemia
4136	BCR::ABL1-Positive Acute Lymphoblastic Leukemia: Different Clinical Behavior and Relevance of Prognostic Features in Typical ALL and in CML-like Disease



Others

906	<u>Comparison of Overall Survival Among Adolescents and Young Adults (AYA) with Newly-Diagnosed Acute Lymphoblastic Leukemia (ALL) Treated with Pediatric-Inspired or Non-Pediatric Inspired Regimens: A Real-World Analysis Using Claims Data</u>
1371	<u>Clinical and Biological Characteristics and Outcomes of Therapy-Related Acute Lymphoblastic Leukemia (t-ALL) Following Multiple Myeloma Are Distinct in Comparison to t-ALL Following Other Cancers</u>
2122	<u>Long-Term Data Confirm the Superiority of Total Body Irradiation-Containing Conditioning Regimen in Comparison to a Chemotherapy-Based Preparation in Children with Acute Lymphoblastic Leukemia Above the Age of 4 Years Given an Unmanipulated Allograft. Results of the Forum Randomized Clinical Trial</u>
2270	<u>Patterns of Neuropathy in ALL Patients Treated with Vincristine Based Regimens with and without Tyrosine Kinase Inhibitors</u>
2688	<u>High-Dose Methotrexate-Related Toxicity in Children with Acute Lymphoblastic Leukemia</u>
2824	<u>Dissecting Ph-like ALL: The Role of Genomic Lesion and Minimal Residual Disease in Refining Outcome</u>
2864	<u>Characterization and Clinical Impact of the Tumor Microenvironment of Post-Transplant Large B-Cell Lymphoma</u>





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