


**TREATMENT ADVANCEMENTS
FOR ACUTE LYMPHOBLASTIC
LEUKEMIA (ALL) IN
CHILDREN AND ADULTS**

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WELCOMING REMARKS
TREATMENT ADVANCEMENTS FOR ACUTE LYMPHOBLASTIC LEUKEMIA (ALL) IN CHILDREN AND ADULTS

Lizette Figueroa-Rivera, MA
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DISCLOSURES

TREATMENT ADVANCEMENTS FOR ACUTE LYMPHOBLASTIC LEUKEMIA (ALL) IN CHILDREN AND ADULTS



Branko Cuglievan, MD

No Financial Disclosures to report.



Nicholas Short, MD

Honoraria/Consultation Fee: Adaptive Biotechnologies, Amgen, Astellas Pharma, Inc., BeiGene, GSK, Jazz Pharmaceuticals, Nkarta, Novartis, Pfizer, Inc., and Sanofi.



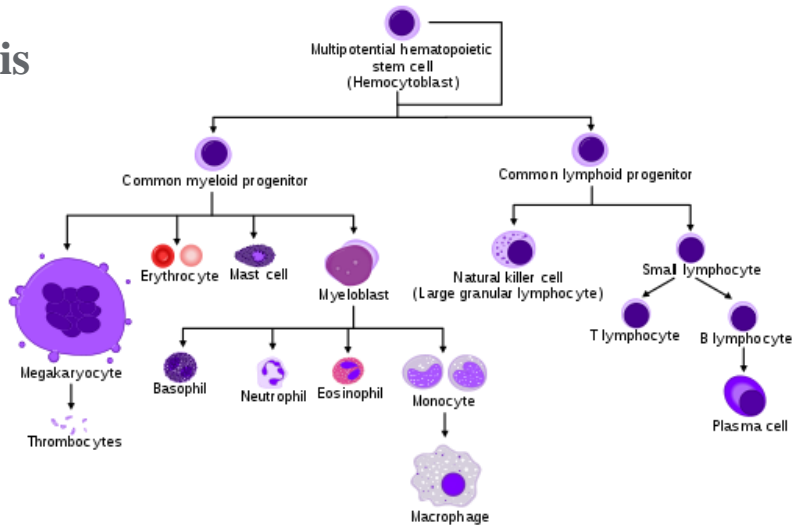
Introduction

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Therapeutic Advancements

Panel Q&A / Close

Hematopoiesis



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Mortality Rates

Age 0 -19
Pediatric Cancer Five-year
Observed Survival Rates For
Two Time Periods

Table 4. Pediatric Cancer Five-year Observed Survival Rates for Two Time Periods, Ages 0-19

	Year of Diagnosis	
	1975-79 %	2003-09* %
All ICCC sites	63	83
Leukemia	48	84
Acute lymphocytic leukemia	57	90
Acute myeloid leukemia	21	64
Lymphomas and reticuloendothelial neoplasms	72	91
Hodgkin lymphoma	87	97
Non-Hodgkin lymphoma	47	85
Brain and CNS	59	75
Ependymoma	37	81
Astrocytoma	69	85
Medulloblastoma	47	70
Neuroblastoma and ganglioneuroblastoma	54	79
Retinoblastoma	92	99
Wilms tumor	75	90
Hepatic tumors	25	74
Bone tumors	49	73
Osteosarcoma	45	71
Ewing sarcoma	42	72
Rhabdomyosarcoma	49	64
Testicular germ cell tumors	74	96
Ovarian germ cell tumors	75	94
Thyroid carcinoma	99	98
Melanoma	83	95

ICCC=International classification of childhood cancers.
 CNS=Central nervous system.
 *Cases were followed through 2010.
 Note: Does not include benign and borderline brain tumors.
 Source: Surveillance, Epidemiology, and End Results (SEER) program, 9 SEER registries, National Cancer Institute.
 American Cancer Society, Surveillance Research, 2014

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ALL Epidemiology and Success

Universally fatal disease in the 1960s.

Now with an event-free survival (EFS) of approximately 90%.

Incidence peaks at 2-4 years

Most ALL cases have no identified underlying genetic predisposition

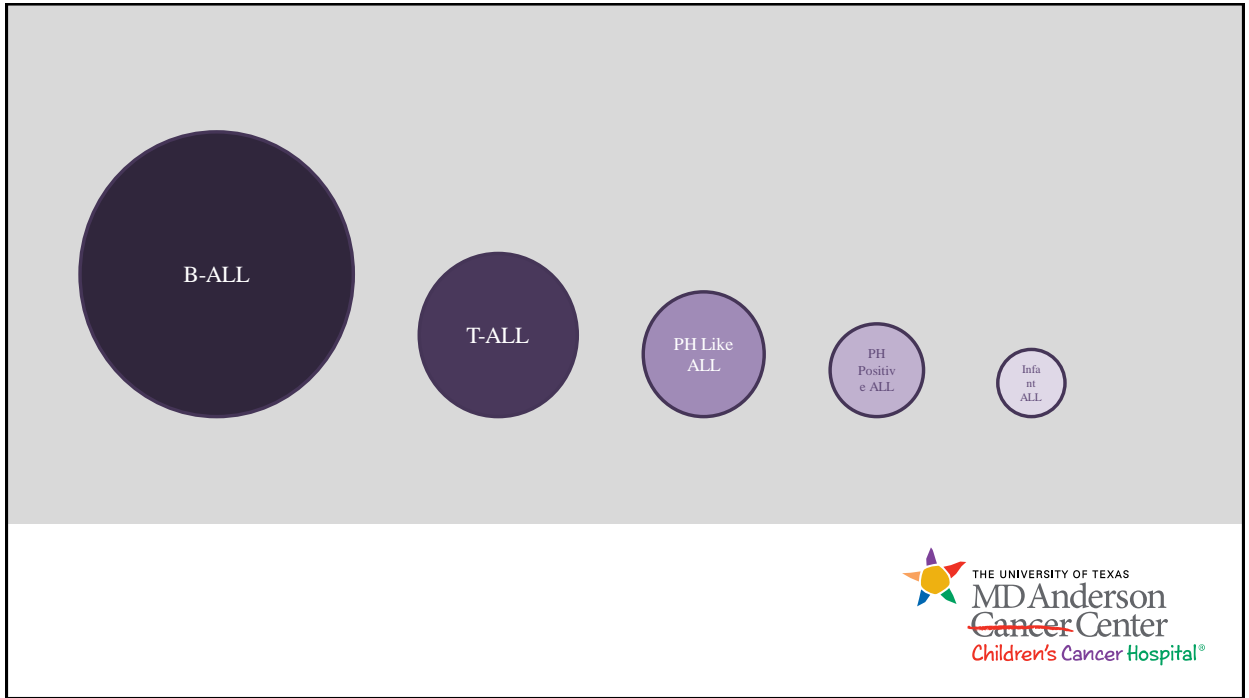
Attributed to the success of:

- A) Cooperative group trials
- B) IT Chemotherapy
- C) Stratification and intensification
- D) Better Drugs

Year Period (N)	0 Years	2 Years	4 Years	6 Years	8 Years	10 Years
2006-2009 (N=6530)	100	98	95	92	90	88
2000-2005 (N=7835)	100	95	90	85	82	80
1995-1999 (N=7287)	100	92	85	80	78	76
1989-1994 (N=8200)	100	88	80	75	73	71
1983-1988 (N=3711)	100	85	75	70	68	66
1978-1983 (N=2984)	100	80	70	65	63	61
1975-1977 (N=1313)	100	75	65	60	58	56
1972-1975 (N=936)	100	70	60	55	53	51
1970-1972 (N=499)	100	60	50	45	43	41
1968-1970 (N=402)	100	45	30	25	23	21

Hunger SP. Acute lymphoblastic leukemia in children. N Engl J Med.

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Phase III Study of Blinatumomab in Pediatric Relapsed B-ALL

Parameter	Blina	Chemo	p
%2-yr DFS	59	41	.05
%2-yr OS	79	59	.005
% SCT	73	49	<.001
% MRD clearance	79	21	<.001

Brown et al. JAMA. 2021

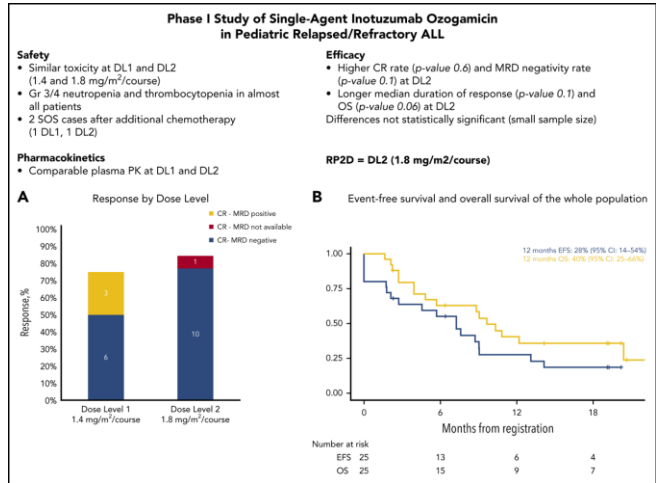
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Phase II Study of Inotuzumab in R-R Pediatric ALL

The recommended phase 2 dose established at 1.8 mg/m² per course.

85% reached CR after 1 course, 100% of whom had MRD negativity.

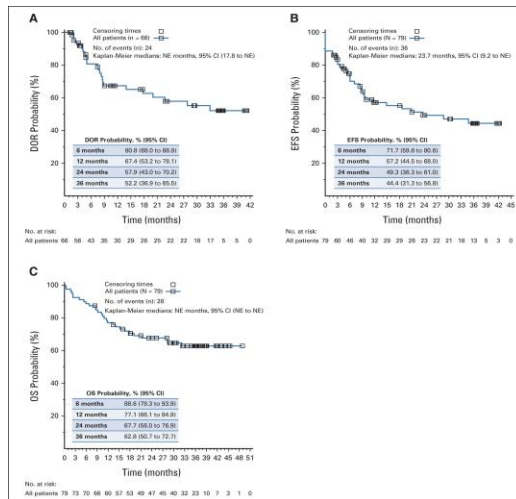


Brivio et al. Blood. 2021

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Tisagenlecleucel in Children and Young Adults with B-Cell Lymphoblastic Leukemia

- 255 patients
- Complete remission rate: 85.5%
- 12 month DOR: 60.9%
- EFS: 52.4% OS 77.2%
- CRS 73% and ICANS 40%



Pasquini et al. Blood Advances 2020



Laetsch et al. JCO 2022

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Real World CAR Consortium and Disease Burden

- 200 pts (185 pts infused); median age 12 yrs (0-26 yrs); CR=85%
- HBD n=94 (47%); LBD n=60 (30%); ND n=46 (23%)
- 12-mos EFS=50%, 12 mos OS=72%
- G3 CRS=21% (35% in HBD); G3 NE=7% (9% in HBD)

OS **EFS**

DOR **DBA**

Log rank P < .0001

Log rank P < .0001

Log rank P < .0001

Log rank P < .0001

— No detectable disease
— Low-disease burden
— High-disease burden

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Schultz. J Clin Oncol. 2022

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B-ALL Treatment: New Therapies COG

Tisagenlecleucel (CD19 CART-T) AALL1721

Inotuzumab AALL1732

Blinatumomab AALL1731

Induction
Consolidation
Interim Maintenance
Delayed Intensification
Interim Maintenance II
Maintenance

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T-ALL Treatment: New Therapies COG

Nelarabine
AALL0434

Bortezomib
AALL1231

Induction
Consolidation
Interim Maintenance
Delayed Intensification
Interim Maintenance II
Maintenance

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Philadelphia chromosome-like B-ALL in Pediatrics

Very high-risk subtype of B ALL in children and young adults and accounts for 15% to 25% of B ALL in this age group

B-other 30% (53/148)
 Ph-like ALL 33% (49/148)
 Ph+ ALL 31% (40/148)
 Ph-like GRLF2 61% (30/49)
 Ph-like non-GRLF2 30% (19/49)

Event-free Survival

Overall Survival

Children, high risk
 Adolescents
 Young adults

$P < 0.001$

	0	2	4	6	8	10
Children, high risk	105	93	71	49	27	9
Adolescents	76	63	42	17	6	3
Young adults	41	18	10	3		

Children, high risk
 Adolescents
 Young adults

$P < 0.001$

	0	2	4	6	8	10
Children, high risk	105	101	85	61	37	13
Adolescents	76	63	53	28	11	4
Young adults	41	20	12	4		

Children, high risk
 Adolescents
 Young adults

Median event-free survival for young adults (24.1%), adolescents (41%), and high-risk children (58%) with Ph-like ALL

Overall survival for young adults (25.8%), adolescents (65.8%), and high-risk children (72.8%) with Ph-like ALL

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Roberts et al. NEJM 2014

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Mini-HCVD + INO + Blinatumomab in adults with ALL

	Total	Events	Median	3-year Rate
Dip, HeH, Misc, IM/ND	51	21	NR	64%
Ho-Tr, Tt, MLL, Complex	19	13	20 mos	35%

p=0.02

No impact of *TP53* mutation or CRLF2+ by flow on OS

Short. Blood 136: abst 1014; 2020

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CCG-ALL-2015: Dasatinib v. Imatinib in Ph+ ALL

A Event-free survival

No. at risk	0	1	2	3	4
Dasatinib	92	73	46	22	6
Imatinib	97	60	40	10	0

B Overall survival

No. at risk	0	1	2	3	4
Dasatinib	92	77	51	23	7
Imatinib	97	72	47	13	0

Schultz et al. Leukemia 2014

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Outcome of 3-month CMR by TKI

1A) PFS

TKI	Total	Event	Median	5-y OS
Imatinib	11	6	124 months	64%
Dasatinib	29	15	80 months	54%
Ponatinib	44	8	Not reached	81%

P=0.630 (Imatinib vs Ponatinib), P=0.036 (Dasatinib vs Ponatinib)

1B) OS

TKI	Total	Event	Median	5-y OS
Imatinib	11	6	125 months	64%
Dasatinib	29	14	80 months	62%
Ponatinib	44	6	Not reached	84%

P=0.651 (Imatinib vs Ponatinib), P=0.030 (Dasatinib vs Ponatinib)

MVA for Outcome
 Ponatinib only predictive factor for PFS (HR=0.39; P=0.03) and OS (HR=0.38; P=0.04)

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Sasaki. Blood 134 : Abst 1296; 2019

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Blinatumomab - ponatinib in Ph+ ALL

Induction phase **Consolidation phase: C2-C5**

30 mg

15 mg in CMR

1

2

4 wk 2 wk 4 wk 2 wk

Maintenance phase

15 mg for 5 years

A

Total	Events	Median event-free survival	1-year event-free survival (95% CI)
40	2	Not reached	95% (80-99)

Number at risk (number censored): 40 (0), 31 (7), 23 (15), 14 (24), 8 (30), 7 (31), 5 (33), 3 (35), 1 (37), 0 (38)

B

Total	Events	Median overall survival	1-year overall survival (95% CI)
40	2	Not reached	95% (80-99)

Number at risk (number censored): 40 (0), 31 (7), 23 (15), 14 (24), 8 (30), 7 (31), 5 (33), 3 (35), 1 (37), 0 (38)

Blinatumomab
 IT MTX, Ara-C
 Ponatinib 30 mg

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Elias Jabbour, Lancet Hematology 2022

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Infant Acute Lymphoblastic Leukemia

- Diagnosed <12 months of age
- Treatment includes intensive chemotherapy and often HSCT
- Majority have KMT2A or MLL gene rearrangement (KMT2Ar)
- 3yr EFS-37% in KMT2Ar

MA et al. Scientific Reports 2014

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KMT2Ar, NPM1m, NUP98r Leukemias

- **SNDX-5613 Menin usage in Adult+Pedi**

616 ACUTE MYELOID LEUKEMIAS: INVESTIGATIONAL THERAPIES, EXCLUDING TRANSPLANTATION AND CELLULAR IMMUNOTHERAPIES | NOVEMBER 9, 2021

Safety and Efficacy of Menin Inhibition in Patients (Pts) with MLL-Rearranged and NPM1 Mutant Acute Leukemia: A Phase (Ph) 1, First-in-Human Study of SNDX-5613 (AUGMENT 101)

Eytan M. Stein, Ibrahim Abdou, John F. DiPersio, Richard M. Stone, Maritza L. Arellano, Galit Rozan, Michael L. Meyers, Yifan Huang, Steve Smith, Rebecca G. Bagley, Michael Thirman, Manish R. Patel, Ghayas C. Issa

The Menin Inhibitor Revumenib (SNDX-5613) Leads to Durable Responses in Patients with KMT2A-Rearranged or NPM1-Mutant AML: Updated Results of a Phase 1 Study

Ghayas C. Issa, MD¹; Ibrahim Abdou, MD²; John F. DiPersio, MD, PhD³; Branko Cugicvan, MD⁴; Richard M. Stone, MD⁵; Maritza L. Arellano, MD⁶; Michael Thirman, MD⁷; Manish R. Patel, MD⁸; Daniel O'Brien, MD⁹; Shari Drennon, MD¹⁰; Naveen Shukla, MD¹¹; Gadi Rosen, MD¹²; Rebecca G. Bagley, MA¹³; Michael L. Meyers, MD, PhD¹⁴; Kate McGaughey, MD¹⁵; Peter D'Amico, PhD¹⁶; Yifan Guo, PhD¹⁷; Steven Smith, PhD¹⁸; Gerard M. McCarroll, PhD¹⁹; and Eytan M. Stein, MD²⁰

¹The University of Texas MD Anderson Cancer Center, Houston, TX; ²City of Hope, Duarte, CA; ³Washington University School of Medicine, St. Louis, MO; ⁴Harvard Cancer Institute, Boston, MA; ⁵Texas A&M University School of Medicine, Houston, TX; ⁶University of Chicago, Chicago, IL; ⁷Florida Cancer Specialists/Leukemia Cancer Research Institute, Sarasota, FL; ⁸University of Iowa, Iowa City, IA; ⁹National Cancer Institute Cancer Center, New York, NY; ¹⁰Novartis Pharmaceuticals Inc., Wallingford, MA

Best Response	Efficacy Population n = 60 (%)
ORR*	32/60 (53%)
Best Response	
CR	12 (20%)
CRh	6 (10%)
CRp	5 (8%)
MLFS	9 (15%)
CR/CRh MRD ^{POS}	14/18 (78%)
CR/CRh/CRp MRD ^{POS}	18/23 (78%)
ORR – KMT2Ar	27/46 (59%)
CR/CRh	15/46 (33%)
CCyR – KMT2Ar [±]	16/25 (64%)
CCyR – KMT2Ar ⁻	16/25 (64%)
ORR – mNPM1	5/14 (36%)
CR/CRh	3/14 (21%)

30% (18/60) CR/CRh with a median duration of CR/CRh of 9.1 months

78% of patients with CR/CRh attained MRD negativity

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Treatment Advances for Acute Lymphoblastic Leukemia in Adults

Nicholas Short MD

Assistant Professor, Department of Leukemia
The University of Texas MD Anderson Cancer Center
February 16, 2023

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Historical Outcomes in Adult ALL

- Younger adults (e.g. age 18-60 years)
 - Complete remission (CR) rate: >90%
 - Cure rate: ~40%
- Older adults (e.g. age ≥60 years)
 - High early mortality rates (due to chemotherapy-related toxicity)
 - Cure rate: ~20%
 - Many patients did not receive therapy

Kantarjian H et al. *Cancer* 2004;101(12):2788-801
O'Brien S et al. *Cancer* 2008; 113(8):2097-101
Li S et al. *Blood* 2016;128(22):3981

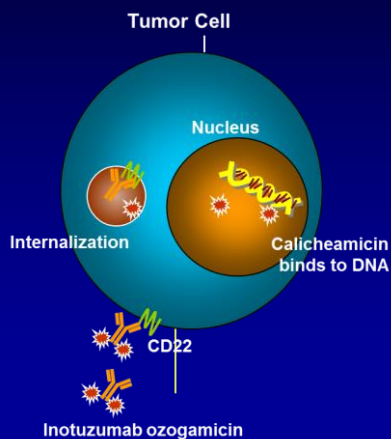
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Reasons for Recent Success in Adult ALL

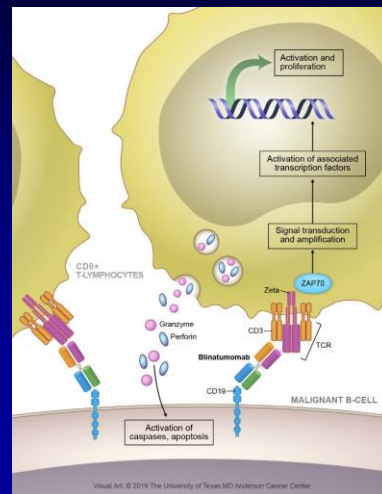
- Identification of high-risk subtypes where transplant in first remission should be considered (when standard therapies are given)
 - Poor-risk cytogenetics
 - Philadelphia chromosome-like ALL
 - Early T-cell precursor ALL
 - Poor MRD clearance
- Introduction of novel agents
 - Addition of potent TKIs to chemotherapy in Ph+ ALL
 - Addition of anti-CD20 antibody to chemotherapy in Burkitt and pre-B ALL
 - Blinatumomab, inotuzumab ozogamicin and CAR T-cells for R/R disease
 - Use of these novel agents in the frontline setting and in combination

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Inotuzumab Ozogamicin (CD22 antibody-drug conjugate)

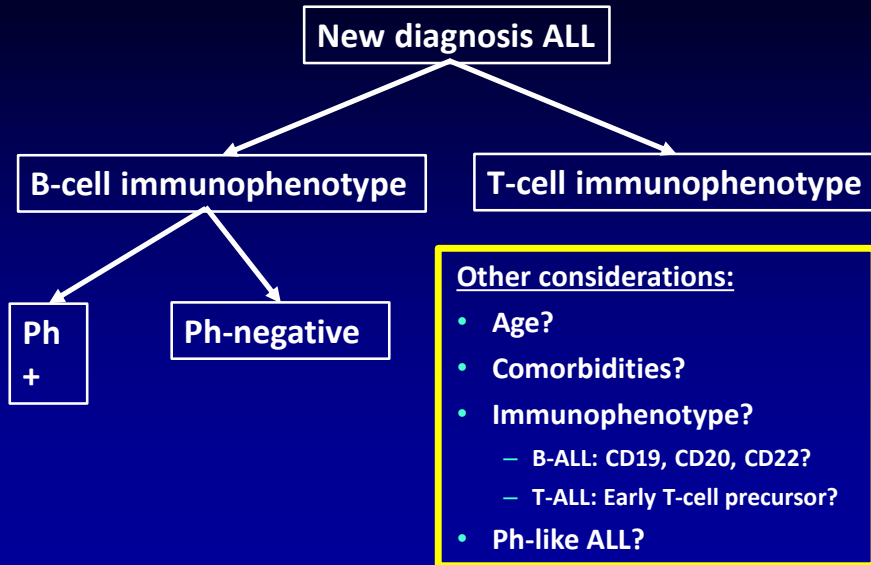


Blinatumomab (CD3-CD19 bispecific engager)



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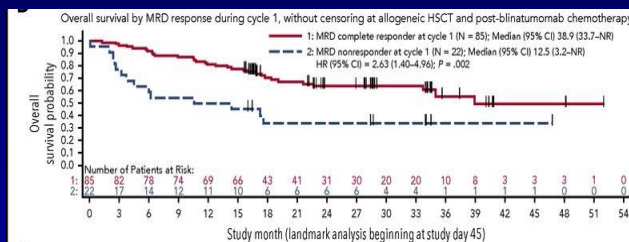
Simplified Diagnostic Algorithm for Newly Diagnosed ALL



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Blinatumomab for MRD in B-Cell ALL

- 116 adults with B-cell ALL in CR with persistent or recurrent MRD ($\geq 0.1\%$) after at least 3 courses of chemotherapy
- Blinatumomab given up to 4 cycles
- **Rate of MRD negativity after 1 cycle = 78%**



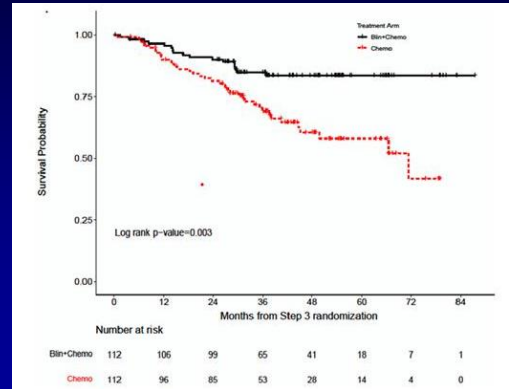
- Unclear benefit of transplant after MRD clearance
- FDA approval in March 2018 for MRD-positive B-ALL ($\geq 0.1\%$)

Gokbuget N et al. *Blood* 2018;131(14):1522-31

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E1910: Randomized Phase 3 Trial: BlinA vs SOC as Consolidation in MRD-Negative CR

- 224 patients in MRD-negative CR after pediatric-inspired regimen randomized 1:1 to consolidation with chemotherapy vs. chemotherapy + blinatumomab
- 20% in each arm underwent allogeneic SCT
- OS improved with blinatumomab vs. chemotherapy alone (median OS: not reached vs. 71.4 months; $P=0.0003$)



Litzow MR et al. Blood (2022) 140 (Supplement 2): LBA-1

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Basic Hyper-CVAD Schema

Intensive phase*

*Plus IT chemotherapy and rituximab (if CD20+)



Maintenance phase



■ Hyper-CVAD
 ■ MTX-cytarabine
 ■ POMP Maintenance

Hyper-CVAD

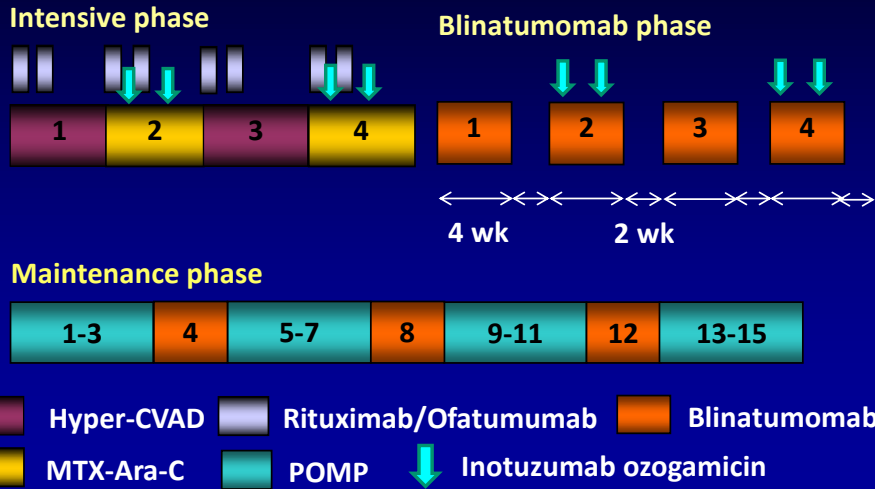
- Cyclophosphamide (hyper-fractionated)
- Vincristine
- Adriamycin (doxorubicin)
- Dexamethasone

POMP

- Purinethol (6-MP)
- Oncovin (vincristine)
- Methotrexate
- Prednisone

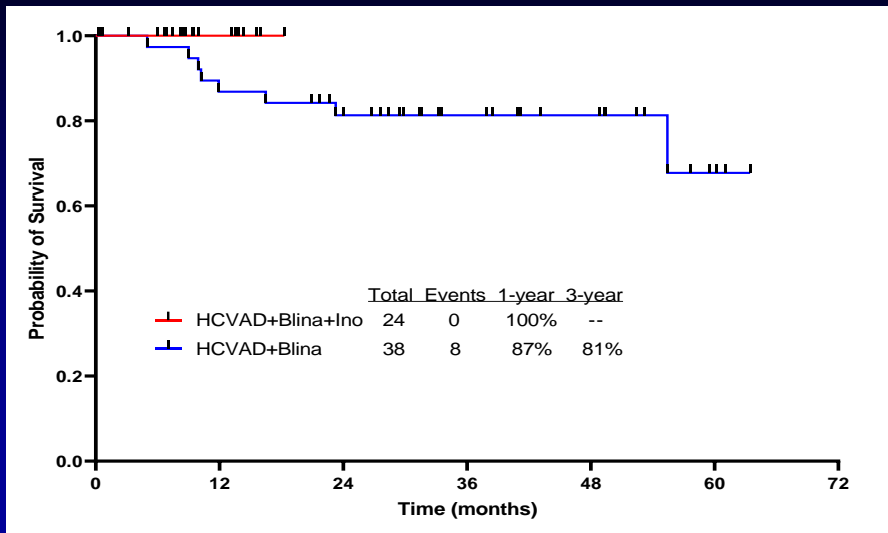
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Optimizing Frontline ALL Therapy: Hyper-CVAD + inotuzumab ozogamicin + blinatumomab (<60 years of age)



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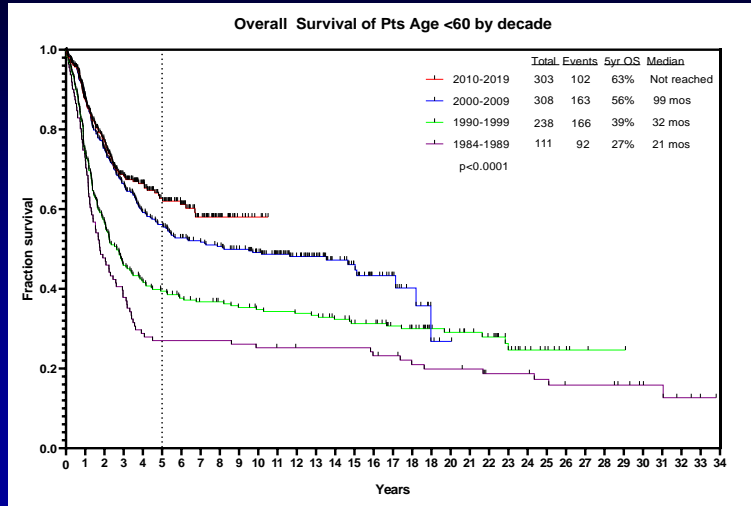
Hyper-CVAD + Blina + INO in B-ALL: Outcome by Cohort



Short NJ et al. Blood (2022) 140 (Supplement 1): 8966-8968

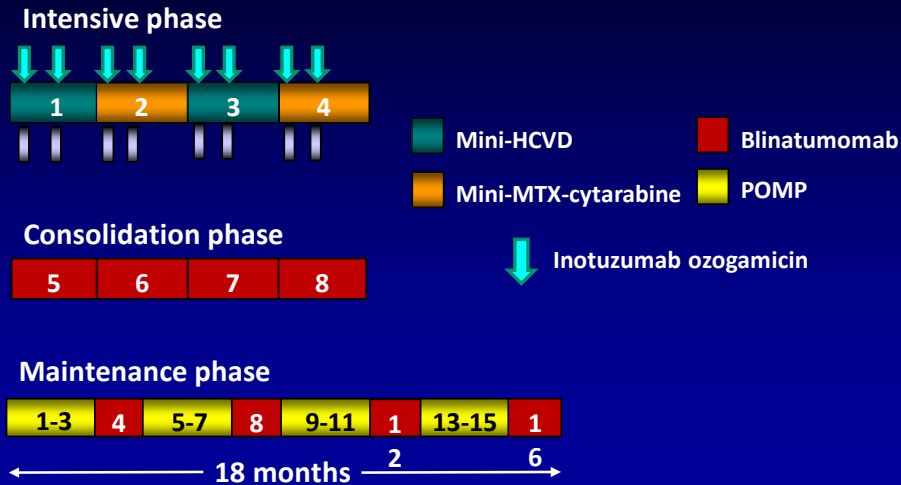
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Survival of ALL at MDACC by Decade (Age 18-60 years)



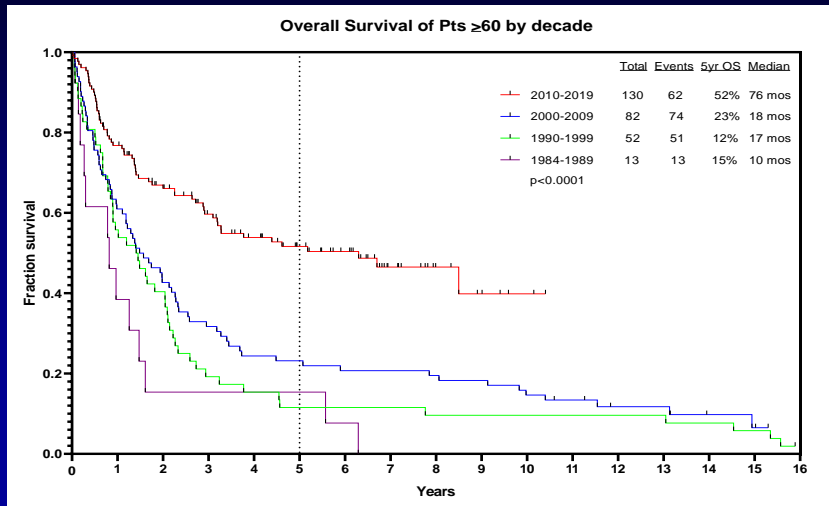
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Optimizing Frontline ALL Therapy: Mini-hyper-CVD + inotuzumab ozogamicin + blinatumomab (≥60 years of age)



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Survival of ALL at MDACC by Decade (Age ≥ 60 years)



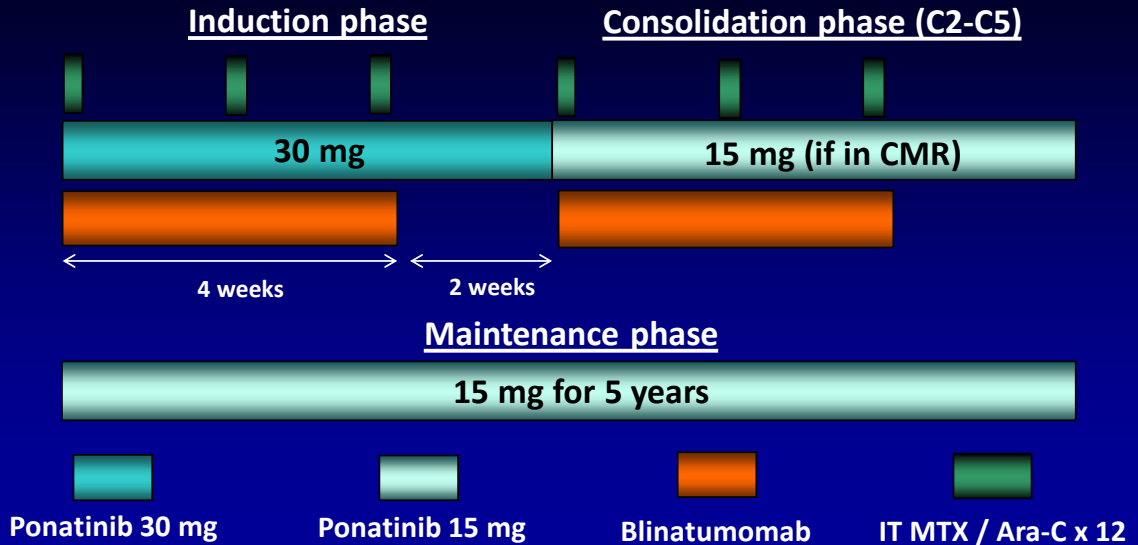
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Treatment of Ph+ ALL: General Principles

- BCR::ABL TKI added to chemotherapy improves survival
- TKI options
 - First-generation (imatinib)
 - Second-generation (dasatinib or nilotinib)
 - Third-generation (ponatinib)
- Increased molecular response rates and survival with successive generation of TKIs
- ? Role of intensive chemotherapy vs. low-intensity regimens vs. chemotherapy-free regimens
- ? Role of HSCT in first remission with later-generation TKIs

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Ponatinib + Blinatumomab in Ph+ ALL: Regimen



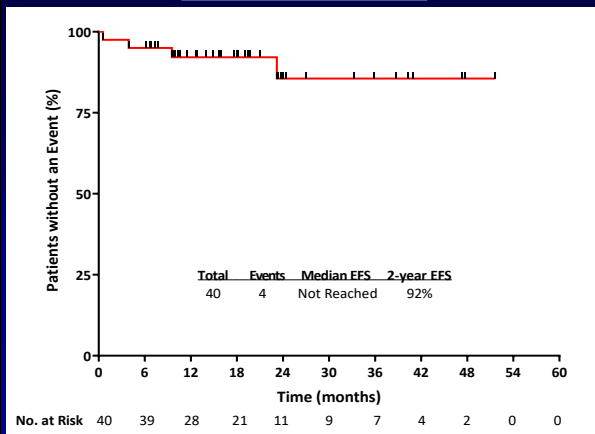
Short NJ et al. Blood (2022) 140 (Supplement 1): 513-515

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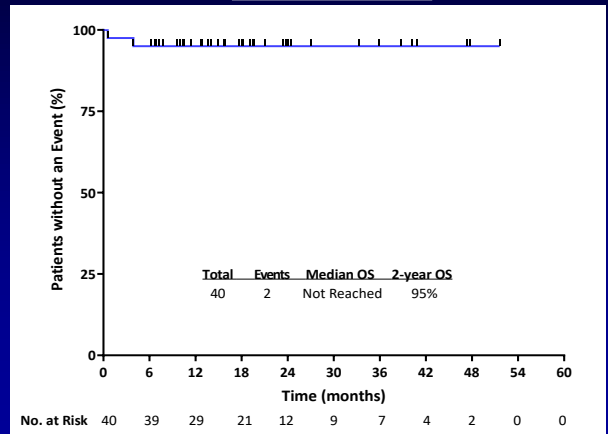
Ponatinib + Blinatumomab in Ph+ ALL: Survival Outcomes

Median follow-up: 18 months (range, 6-52+)

Event-Free Survival



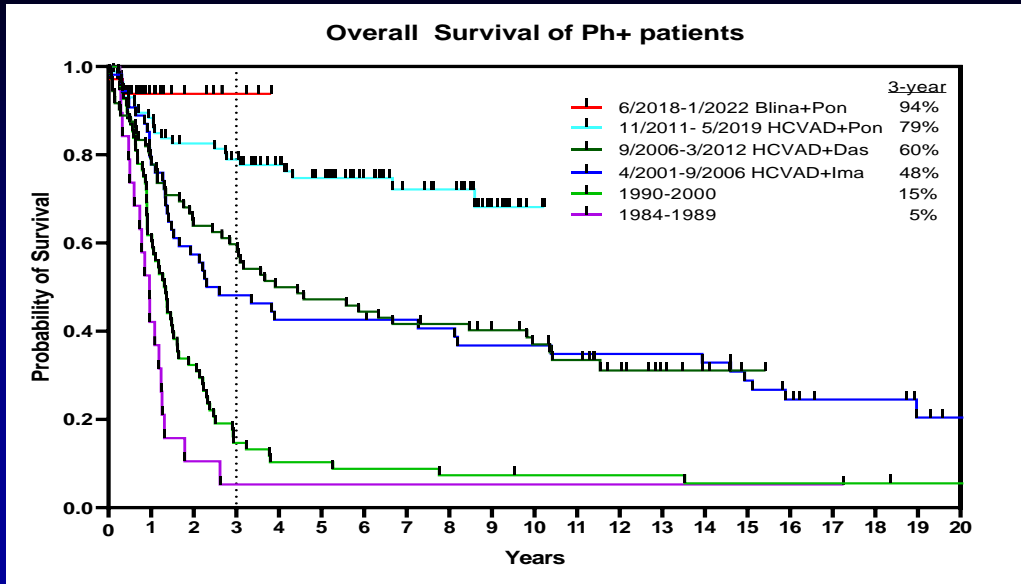
Overall Survival



Short NJ et al. Blood (2022) 140 (Supplement 1): 513-515

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Survival of Ph+ ALL by Decade at MDACC (1985-2022)



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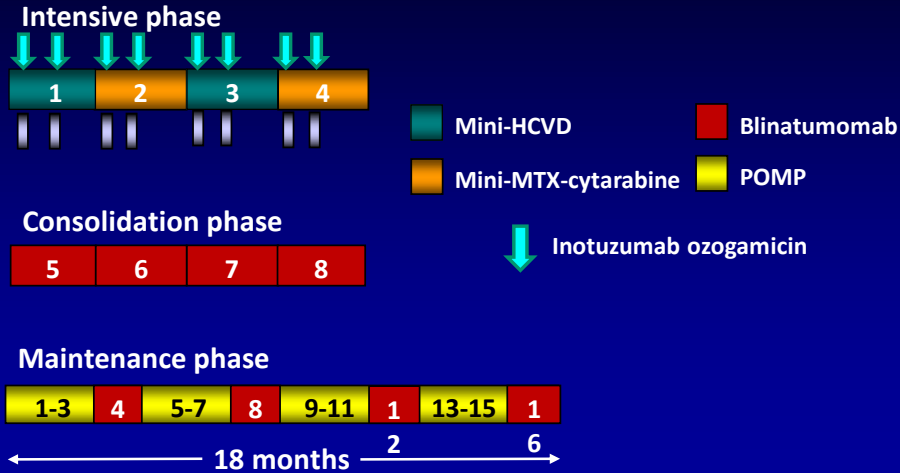
Novel Agents Recently Approved for Relapsed/Refractory B-Cell ALL (in U.S.)

Agent	Mechanism of Action	Year of Approval
Blinatumomab	CD3-CD19 bispecific antibody	2014 (R/R B-cell ALL) 2018 (MRD+ B-cell ALL)
Inotuzumab ozogamicin (INO)	Anti-CD22 antibody-drug conjugate	2017
Tisagenlecleucel	CD19-directed autologous CAR T-cell	2017
Brexucabtagene autoleucel	CD19-directed autologous CAR T-cell	2021

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Optimizing Therapy for Relapsed/Refractory ALL

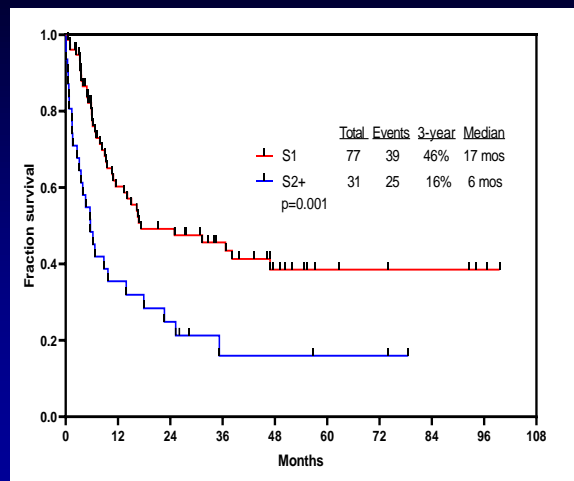
Mini-hyper-CVD + inotuzumab ozogamicin + blinatumomab



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Mini-Hyper-CVD + INO ± Blina in R/R ALL: Outcomes

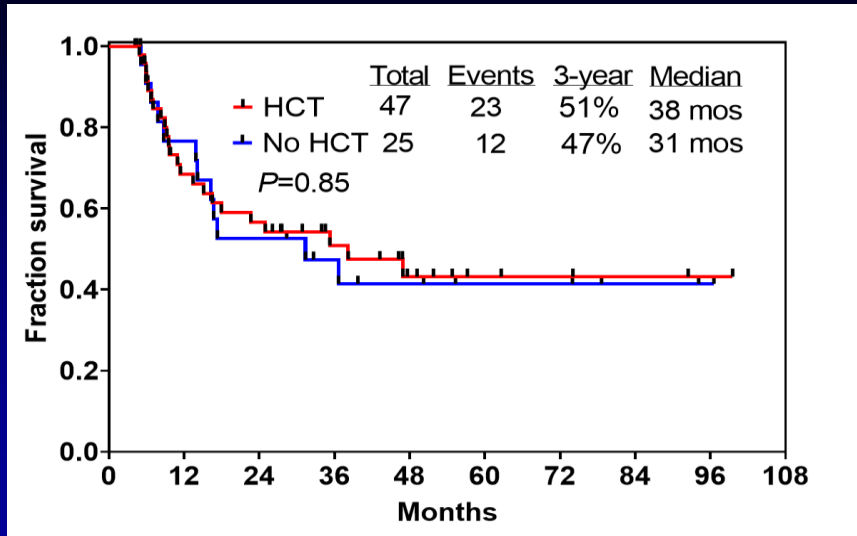
Response	N (%)
Salvage 1	71/77 (93)
Salvage 2	10 (59)
≥ Salvage 3	8 (57)
MRD negativity	71/87 (82)
Salvage 1	59/69 (86)
≥ Salvage 2	12/18 (67)
Early death	7 (6)



Jabbour E et al. *Cancer* 2021;127(12):2025-38

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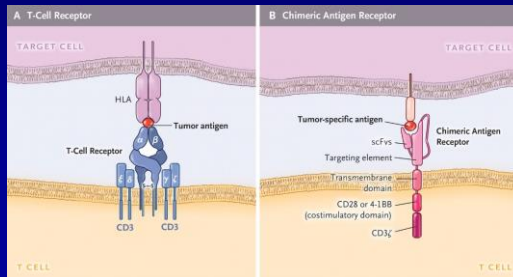
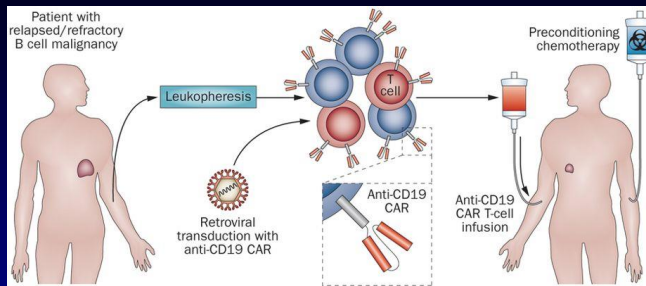
Mini-HCVD + INO ± Blina in R/R ALL: Survival by Transplant



Jabbour E et al. *Cancer* 2021;127(12):2025-38

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CAR T-cell Therapy



Klebanoff CA et al. *Nat Rev Clin Oncol* 2014;11(12):685-6

June CH, *N Engl J Med* 2018;379:64-73

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Conclusions

- There has been great progress in the treatment of adults with ALL, particularly in older adults, B-cell ALL, and Ph+ ALL
- Optimal frontline therapy is rapidly evolving but moving towards:
 - Incorporation of most active agents early in disease course
 - Less chemotherapy (no chemotherapy in some cases)
 - Less need for stem cell transplantation
 - Shorter duration of therapy
 - Higher response rates, higher MRD negativity rates, and higher cure rates
- Enrollment in a clinical trial remains the best option for most patients

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ASK A QUESTION

TREATMENT ADVANCEMENTS FOR ACUTE LYMPHOBLASTIC LEUKEMIA (ALL) IN CHILDREN AND ADULTS

Ask a question by **phone**:

Press star (*) then the number 1 on your keypad.

Ask a question by **web**:

Click "Ask a question"

Type your question

Click "Submit"

Due to time constraints, we can only take one question per person. Once you've asked your question, the operator will transfer you back into the audience line.



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To contact an **Information Specialist** about disease, treatment and support information, resources and clinical trials:

Call: (800) 955-4572

Monday to Friday, 9 a.m. to 9 p.m. ET

Chat live online: www.LLS.org/InformationSpecialists

Monday to Friday, 10 a.m. to 7 p.m. ET

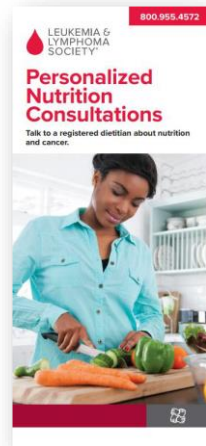
Email: www.LLS.org/ContactUs

All email messages are answered within one business day.

CLINICAL TRIAL SUPPORT CENTER

Work one-on-one with an LLS Clinical Trial Nurse Navigator who will help you find clinical trials and personally assist you throughout the entire clinical-trial process.

www.LLS.org/Navigation



NUTRITION CONSULTATIONS

Our registered dietitian has expertise in oncology nutrition and provides free one-on-one consultations by phone or email. www.LLS.org/Consult.



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LLS EDUCATION & SUPPORT RESOURCES



Online Chats

Online Chats are free, live sessions, moderated by oncology social workers. To register for one of the chats below, or for more information, please visit www.LLS.org/Chat



Education Videos

View our free education videos on disease, treatment, and survivorship. To view all patient videos, please visit www.LLS.org/EducationVideos



Patient Podcast

The Bloodline with LLS is here to remind you that after a diagnosis comes hope. To listen to an episode, please visit www.TheBloodline.org



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LLS EDUCATION & SUPPORT RESOURCES

877.557.2672

LEUKEMIA & LYMPHOMA SOCIETY™

Help With Finances

The Leukemia & Lymphoma Society (LLS) offers financial assistance* to help individuals with blood cancer.

The **LLS Patient Aid** Program provides financial assistance to blood cancer patients in active treatment. Eligible patients will receive a \$100 stipend. Visit www.LLS.org/PatientAid

The **Urgent Need** Program, established in partnership with Mopple's Love, helps pediatric and young adult blood cancer patients, or adult blood cancer patients who are enrolled in clinical trials, with acute financial need. The program provides a \$500 grant to assist with non-medical expenses, including utilities, rent, mortgage, food, lodging, dental care, child care, elder care, and other essential needs. Visit www.LLS.org/UrgentNeed

The **Susan Lang Pay-It-Forward Patient Travel Assistance** Program provides blood cancer patients a \$500 grant to assist with transportation and lodging-related expenses. Visit www.LLS.org/Travel

The **Co-Pay Assistance** Program offers financial support toward the cost of insurance co-payments and/or insurance premiums for prescription drugs. Visit www.LLS.org/Copay

*Funding for LLS's Co-Pay Assistance Program is provided by pharmaceutical companies. Funding for other LLS financial assistance programs is provided by donations from individual donors, companies, and LLS members.

The Leukemia & Lymphoma Society (LLS) offers the following financial assistance programs to help individuals with blood cancers: www.LLS.org/Finances



To order free materials: www.LLS.org/Booklets



THANK YOU

We have one goal: A world without blood cancers

LEUKEMIA & LYMPHOMA SOCIETY™