

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES

Matthew Lunning, DO

Associate Professor (Lymphoma, BMT, CAR-T/ Cellular Therapy) Internal Medicine, Hematology/Oncology Medical Director, Cellular Therapy Assistant Vice Chair Research, Internal Medicine Department Assistant Vice Chancellor for Clinical Research University of Nebraska Medical Center Omaha, NE

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WELCOMING REMARKS

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES



Lizette Figueroa-Rivera, MA Senior Director, Education & Support The Leukemia & Lymphoma Society Rye Brook, NY



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WELCOMING REMARKS

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES



Leah Szumita, MS, RN, ACNS-BC Director, Clinical Trial Support Center The Leukemia & Lymphoma Society Rye Brook, NY



PRESENTATION

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES



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DISCLOSURES

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES

Updated 3/2023	
Research Support	BMS, Curis
Consultancy	AbbVie, Acrotech, Astellas, AZ, BMS, Caribou, CRISPR, Diiachi Sankyo, Fate Therapeutics, Genentech, Genmab, Ipsen, Janssen, Kite, Loxo, Miltenyi, Morphosys, Nurix, Pharmacyclics, Regeneron, Sanofi, Seagen, Takeda
Employment	NONE
Stock/Equity	NONE
Speakers Bureau	NONE

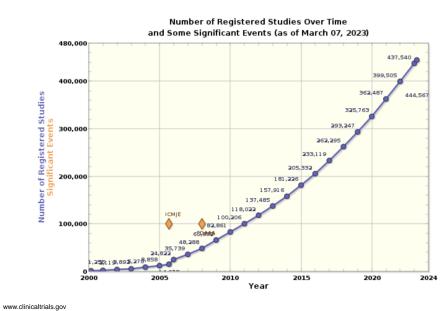
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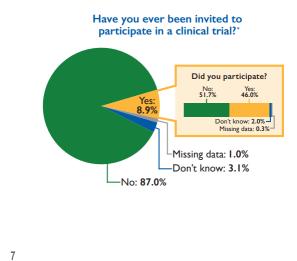
THE RISE OF CLINICAL RESEARCH





LEUKEMIA & LYMPHOMA SOCIETY°

THE MYSTERY OF CLINICAL RESEARCH

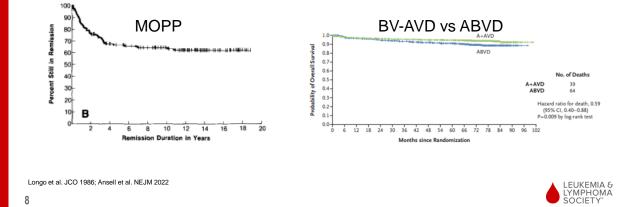


- 41% of US public never heard of a clinical trial
- In the USA, only <u>≈4%</u> patients participate in cancer clinical trials
- How can we improve this?
 - Education
 - Partnerships
 - Understanding and Eliminating Barriers



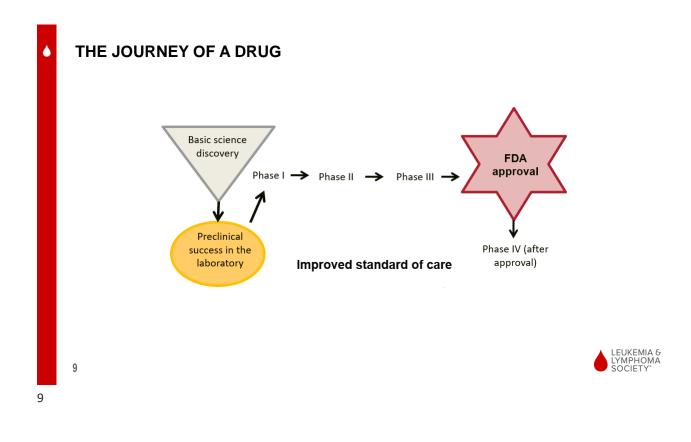
WHY CLINICAL TRIALS MATTER

• Virtually every cancer treatment available today is the direct result of clinical research



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BEFORE YOU START YOUR JOURNEY ON A CLINICAL TRIAL

- · Subject safety is the highest priority in clinical trials
- Cancer clinical trials are conducted under rigorous scientific and ethical safeguards
- Many safeguards are in place to ensure patient safety:

Institutional Review Board (IRB) Scientific Review Committee (SRC) Data Safety Monitoring Board (DSMB)





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YOUR JOURNEY IN A CLINICAL TRIAL: PHASE I

Phase I

- Subject who may have failed multiple therapies
 - Healthy volunteers <u>not</u> used for cancer research
- Goal Identify the maximum tolerated dose
- Often low subject numbers
- May be no direct subject benefit but benefit to society



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YOUR JOURNEY IN A CLINICAL TRIAL: PHASE II

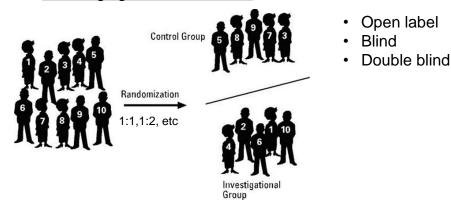
- Determine biologic activity
 - Overall response rate, complete response
- Expand safety & toxicity profile
 - Adverse events over time
- Narrow disease activity
 - Expansion cohorts
- Two-stage design
 - Stage I exclude drugs with minimal or no activity
 - Stage II size depends on the precision required
- Randomized phase II trials
 - · Pick the winner to move to phase III





YOUR JOURNEY IN A CLINICAL TRIAL: PHASE III

Challenging Standard of Care

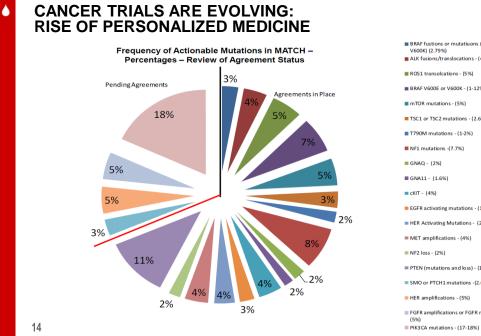




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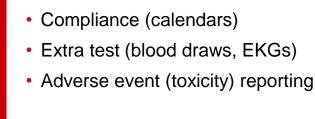
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 BRAF fustions or mutatiuons (non-V600E or V600K) (2.79%) ALK fusions/translocations - (4%) ROS1 transolcations - (5%) BRAF V600E or V600K - (1-12%) mTOR mutations - (5%) TSC1 or TSC2 mutations - (2.6-3.5%) T790M mutations - (1-2%) NF1 mutations -(7,7%) ■ GNAQ - (2%) ■ GNA11 - (1.6%) 🔳 cKIT - (4%) EGFR activating mutations - (1-4%) HER Activating Mutations - (2-5%) MET amplifications - (4%) NF2 loss - (2%) PTEN (mutations and loss) - (11%) SMO or PTCH1 mutations -(2.63 and 3.76%) HER amplifications - (5%) FGFR amplifications or FGFR mutations -(5%)





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WHEN IT'S TIME FOR A CLINICAL TRIAL

SAFETY IN A CLINICAL TRIAL

Dosing (food or no food)

Inclusion and exclusion criteria







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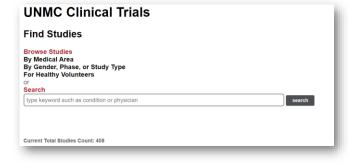


215 million pages view

145,000 individuals daily



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ASK A QUESTION

CLINICAL TRIALS & BLOOD CANCERS: SEARCHING FOR CURES

Ask a question by phone:

Press star (*) 1 on your keypad to ask a question To remove your question press star (*) 2 on your keypad

Ask a question by web:

Type your question in the "Ask a question" box under the speaker video window

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.



LLS EDUCATION & SUPPORT RESOURCES



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HOW TO CONTACT US:

To contact an **Information Specialist** about disease, treatment and support information, resources and clinical trials: www.LLS.org/InformationSpecialists

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



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

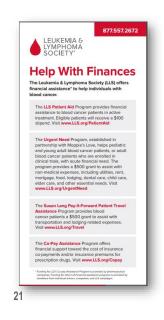
View our free education videos on disease, treatment, and survivorship. To view all patient videos, please visit www.LLS.org/EducationVideos.

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.



LLS EDUCATION & SUPPORT RESOURCES



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



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THANK YOU

This program is supported by





We have one goal: A world without blood cancers