# RESEARCH OPERATIONS AND CLINICAL RESEARCH

Marie K Meyer, MA, CCC-SLP Manager - Clinical Research Allina Health, Neuroscience Research

December 11, 2023



#### Disclosures

- Employed by Allina Health Research.
- · No other disclosures.

2

1

#### Introduction

Operating a research program within a healthcare organization takes a village



3

### Research Administration & Operations

- Contracts: Specialized legal team handling agreements between AH Research, Investigators, and Funding Organizations/Industry Sponsors.
- · examples: NDAs, Clinical Trial Agreements, Intellectual property
- · Grants and Finance: Identify federal and state funding opportunities, assist clinical researchers with applications, manages \$ spending and cost reimbursement. Negotiates budgets for the cost of carrying out sponsored clinical trials (cost to healthcare organization and patient compensation).
- Research Billing: clinical trial billing is complex, with some activities standard of care - billed to insurance/payors, some covered by sponsors, some as a cost to the healthcare organization.
- · Clinical Research Informatics and Analytics (CRIA): data analysts assisting with prep-to-research, large scale data pulls, statistical analyses.

4

## Research Integrity

- Human Research Protection Program (HRPP).
   Safeguard and promote the health and welfare of human research subjects by ensuring that their rights, safety and well-being are protected;
   Provide guidance and support to the research community in the conduct of research with human
- subjects;
  Assist the research community in ensuring compliance with relevant regulations;
- To provide timely and high quality review and oversight of human research projects; and
  To facilitate excellence in the conduct of human subjects research.
  Allina Health Institutional Review Board (IRB)
- Appointed by the Institutional Official (IO).

- Appointed by the Institutional Official (IO).
   Prospectively reviews and makes decisions concerning all human research conducted at Allina Health facilities, by its employees or agents, or under its auspices.
   Responsible for the protection of rights and welfare of human research subjects at Allina Health, through review and oversight of safe and ethical research.
   The IRB functions independently of, but in coordination with, other organizational committees and officials. The IRB, however, makes its independent determination whether to approve or disapprove a research plan based upon whether human subjects are adequately protected.

Clinical Research Houses

Partnered with institutes and service lines at Allina Health

- Neurosciences Research ←We are here.
- Mental Health & Addiction Services Research
- · Cancer Research
- · Courage Kenny Rehabilitation Research
- · Orthopedics Research
- Nursing Research
- · Care Delivery Research
- · Mother Baby Research
- · EMS Research
- · Cardiology (through MHIF) & Spine (through TC Spine)

5 6

#### Neurosciences Clinical Research Team

- Director & Manager of Clinical Research: Operational leadership of multiple research houses. Interface with Research Operations and Integrity.
- Project Manager Clinical Research: New study start up through interface with clinical and operational areas, oversight and management of studies/projects throughout the life of the project.
- Regulatory Specialist: all regulatory submissions, communications with IRB, and regulatory documentation management.
- · Research Nurse: specialty patient care in accordance with clinical trial protocols as delegated by the principal investigator, including: assessment, care coordination, education, data collection, chart review. ←more on research nursing to follow!
- · Research Coordinator: manages and conducts the day-to-day activities of a clinical trial in accordance with protocol as delegated by PI. Liaison with the clinical site, recruiting and consenting participants, maintaining study guidelines, and collecting and/or reviewing the data or review before it is entered into a study database.

#### Neurosciences Research Areas

- · Stroke Neurology
- Neurophysiology
- · NeuroOncology & Neuro Pathology
- · Neuro Interventional Radiology
- Neurosurgery

As of November: 21 active studies; 7 pending startup.

Neuro Research Growing with the AHNSP Institute! Looking forward to adding:

- Dementia Neurology
- Epilepsy

8

7

# CLINICAL RESEARCH AND RESEARCH NURSING

Kelsey Jackson, RN, BSN Sr Nurse Researcher

Katrina Stremski, RN, OCN, PHN, MN, MA Nurse Researcher

Allina Health, Neuroscience Research

December 11, 2023



Introduction

Researcher Focus

- Neuro-Oncology Clinical Trials & Registry Studies
- Primary & Recurrent Brain Cancer Glioblastoma, Grade 4 Astrocytoma, Gliosarcoma, Meningioma, Brain Mets · Adult population

10

Disclosures

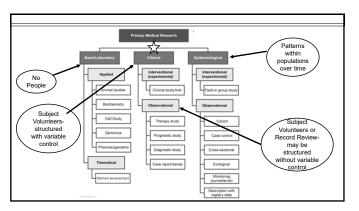
9

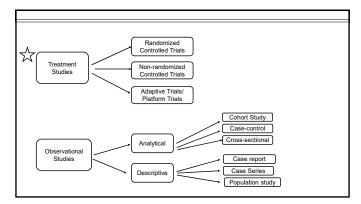
· We have nothing to disclose

Objectives

- Types of Research & Research Studies
- · Clinical Research & Clinical Research Nursing
- · Why is Research Important
- · Barriers and Challenges
- · Diversity and Inclusion
- · Neuro-Oncology Research Trials at Allina

11 12





13 14

### Clinical Trial

- New ways to prevent, detect, or treat disease 2
- New drugs
- · New drug combinations
- New surgical techniques
- New medical devices
- New ways to use existing treatments
- New ways to change behaviors for health improvement
- New ways to improve quality of life for people with acute and chronic illness

**GOAL: Safety and Effectiveness** 

Why is Clinical Research Important?

• Innovation

16

- · Diagnosing, treating, curing, and/orpreventing disease
- Unsuccessful research contributes to knowledge
- · Informs evidence-based practice
- Involves participants in their care
- · All treatments must be fully researched before being adopted in practice

15

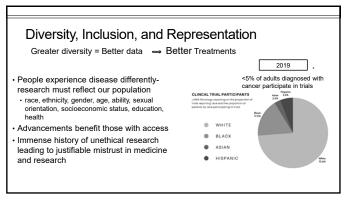
# Why Participate?

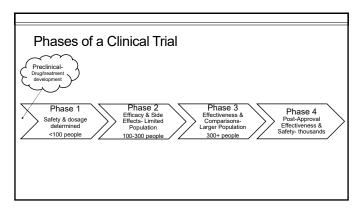
- Hope
- Helping others
- Science
- Personal
- New treatments
- Financial
- · Additional support from research team
- No other treatment options or option preservation

**Barriers and Challenges** 

- Trials take YEARS to complete<sub>3</sub> (March 2022)
- Avg 12 years for drugs
- Avg 7 years for devices
- Drug development-market costs<sub>4 (2020)</sub>
- \$1.3 billion- 1.8 billion for drug development to market
- · Not guaranteed to work as intended
- Unknown risks and side effects
   Location & transportation
- Location & transportatio
   Insurance/ Finances
- Inclusivity
- · Patient support

17 18



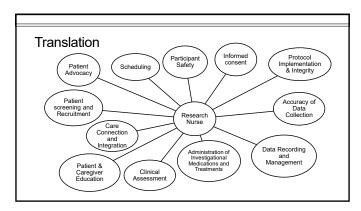


19 20

### What is a Clinical Research Nurse?

National Institute of Health

• "Clinical research nursing is nursing practice with a specialty focus on the care of research participants. In addition to providing and coordinating clinical care, clinical research nurses have a central role in assuring participant safety, ongoing maintenance of informed consent, integrity of protocol implementation, accuracy of data collection, data recording and follow up. Care received by research participants is driven by study requirements and the collection of research data as well as clinical indications. Study procedures may include administration of investigational drugs, performance of an experimental or investigational surgical or radiological procedure, detailed clinical assessment or phenotyping to characterize the natural history and etiology of a disease, or delivery of a psychosocial intervention. Additional nursing care may be necessitated by the response of the participant to the study intervention."



21 22

How Do We Know What To Do?

The Protocol! Detailed plan describing · Background Information & · Safety how the trial will be Rationale · Adverse Events conducted. Objective Discontinuation Study Design Statistics • Drug & Device Information • Quality Control · Subject inclusion and • Ethics Exclusion · Data Management · Treatment of Subjects · Study Visit Calendar · Supplemental Documents · Evaluation Criteria or Appendices · Clinical Assessment Efficacy

23 24

## Eligibility Criteria

Define patient population for reliable, reproducible results, minimizing harm to subjects

- Inclusion Criteria: Objective, consistent, and reliable to target intended study population
- Age Diagnosis & pathology Treatment history

- Labs/ tests Medication interactions
- Chronic
  Conditions/Comorbidities
  Ability to give consent
  Extent of disease

26

Interdisciplinary Team

- Exclusion Criteria: Characteristics for disqualification including comorbidities, concomitant treatment, medications, or

25

Starting a Patient on a Trial · Pre-screening Provider notification Patient discussion · Subject consent Eligibility Criteria · Register patient into the study Screening procedures Subject randomization · Subject consent (treatment) ⇒ Begin treatment trial activities

## Screening Procedures

- Clinic Visit & Vitals
- Physical & Neuro Exam Survey
- Karnofsky Performance Score
- Tumor Pathology
- Labs
- EKG MRI
- Medical History
- Demographics

- Medication List
- Neuro Cognitive Testing
- · Adverse Events Profile
- Insurance Coverage
- Financial Assistance

27 28

# Neuro-Oncology Studies at Allina Health

- Denovo DB-102
- TRIDENT EF-32
- GBM AGILE
- · GammaTiles Registry
- GammaTiles ROADS

Randomized Clinical Trial Outcome Control Group Sample Population Outcome Blinded or Unblinded

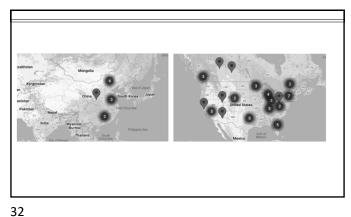
Patient

29 30

# DENOVO Biopharma ENGAGE DB102-01

DB102-01 : A Randomized, Double-Blind, Placebo-Controlled Phase 3 Study of Enzastaurin Added to Temozolomide During and Following Radiation Therapy in Newly Diagnosed Glioblastoma Patients Who Possess the Novel Genomic Biomarker DGM1

- Randomized, Double-Blind
- · Newly Diagnosed Glioblastoma
- Tumor Biomarker: DGM1
- Phase 3
- Treatment: Enzastaurin (oral) or Placebo + Standard Chemoradiation
- · Study Length: 2 years

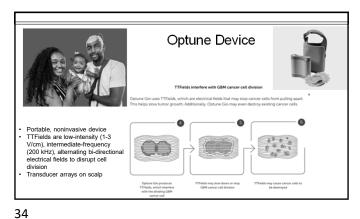


31

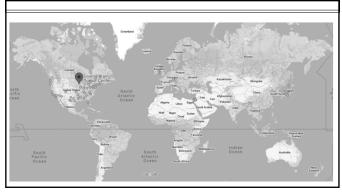
#### Novocure TRIDENT EF-32

A Pivotal Randomized, Open-Label Study of OPTUNE® (TTFields, 200 kHZ) Concomitant with Radiation Therapy and Temozolomide For the Treatment of Newly Diagnosed Glioblastoma

- · Randomized, Unblinded
- Newly Diagnosed Glioblastoma
- Phase 3
- Treatment: Optune Device (standard or experimental) + Standard Chemoradiation
- Study Length: 24 months



33



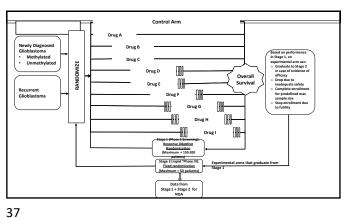
35 36

# GBM AGILE- Adaptive Global Innovative Learning Environment

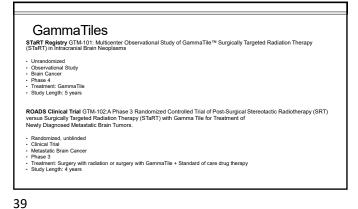
GBM AGILE Global Adaptive Trial Master Protocol: An International, Seamless Phase II/III Response Adaptive Randomization Platform Trial Designed To Evaluate Multiple Regimens In Newly Diagnosed and Recurrent Glioblastoma (GBM)

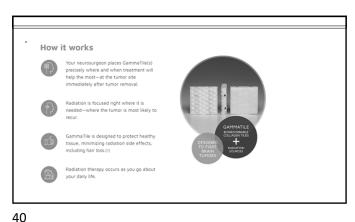
- · Randomized, Unblinded
- · Adaptive/Platform Trial
- Newly Diagnosed OR Recurrent Glioblastoma
- Seamless Phase 2/3
- Treatment: Experimental or Control- depends on treatment available at time of
- Study Length: 24 months

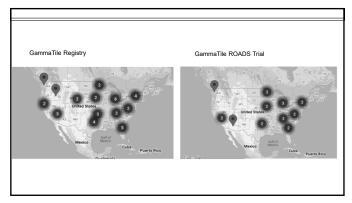
Treatments: Regorafenib (Oral), Paxalisib (Oral), VAL-083 (IV), VT-1021 (IV), Troriluzole (Oral), ADI-PEG20 (IM)











**REFERENCES** 1. https://openmd.com/guide/medical-research 6. Allina Health Research | Improving patient outcomes https://www.allinahealth.org/research
7. Clinical Research Nursing | Clinical Center Home Page (nih.gov) https://clinicalcenter.nih.gov/nursing/crn/crn\_2010.html
8. https://novocuretrais.come/cancer-clinical-trials/glioblastoma-clinical-trial-trident/
9. https://gammatile.com/

41 42

#### TO CONTACT US

Kelsey Jackson, RN, BSN Senior Nurse Researcher Neuroscience Institute Kelsey.Jackson@allina.com Phone: 612-863-3452

Katrina Stremski, RN, OCN, PHN, MN, MA Nurse Researcher Neuroscience Institute Katrina.Stremski@allina.com Phone: 612-863-3308



## NIH STROKENET RESEARCH

Max Klaiman, Project Manager December 11th 2023

43

#### What is StrokeNet?

- · Trial Network created by the NIH
- Designed to conduct clinical trials in three main Stroke areas:
- Acute Treatment
- Stroke Prevention
- Rehabilitation
- Over 500 hospitals in the US participate in StrokeNet Trials

StrokeNet within Allina Health

- · Allina Health's participation in StrokeNet began in 2018
- · StrokeNet has a multi-layered structure:
- · Funded centrally through the University of Cincinnati
- There are 27 Regional Coordinating Centers (RCCs) which can interact with more local healthcare systems
- Each of the 500 hospitals participating in StrokeNet studies are part of one of the 27 RCCs
- · We are part of the UMN RCC
- · Historically alongside Fairview, Regions, Essentia, MPLS Childrens, KU Medical Center\*, and St. Louis University\*

45

46

44

# StrokeNet Trials at Allina Health

- · Neuroscience Research has participated in 9 StrokeNet trials since joining the network in 2018, at all three Metro Hospitals
- ARCADIA
- · ARCADIA-CSI
- ASPIRE
- · CAPTIVA
- FASTEST
- RHAPSODY-2
- SATURN • SISTER
- · SLEEP-SMART

Trial Highlight: ARCADIA

- · ARCADIA was a trial looking at aspirin vs. apixaban for secondary stroke prevention in patients with ESUS and evidence of Atrial Cardiopathy
- · More than 1000 patients were randomized over 5 years into the trial
- The study completed in early 2023, and it was determined that Eliquis was not more effective at preventing secondary stroke in this patient population
- · United Hospital was a top-enrolling site, with over 50 enrolled patients over the life of the trial

47 48

# Trial Highlight: FASTEST

- The FASTEST Trial is seeking to establish the first treatment for acute spontaneous ICH, within 120 minutes from stroke onset
- Patients are randomized to rFVIIa infusion vs. placebo and standard therapy for their ICH
- Study-wide, FASTEST is looking to enroll 860 participants across 100 hospitals
- We look forward to opening this trial in early 2024, and offering this treatment to our patients!

Summary

- StrokeNet continues to grow, and we are expecting to qualify for and open additional studies into 2024 and beyond
- The work done by the NIH-funded research network is the start of offering ground-breaking treatment options to our patients
- Allina Health remains a key contributor in our UMN RCC, and we hope to expand our participation in the network in the years to come

49 50

### Questions?

StrokeNet's Website: <a href="https://www.nihstrokenet.org/">https://www.nihstrokenet.org/</a>

**THANK YOU** 

51 52