



National Institute of
Neurological Disorders
and Stroke



StrokeNet

PREVENTION | TREATMENT | RECOVERY

NINDS StrokeNet Update

Platform Trials of Thrombectomy in Acute Stroke (OTA) Program

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DCR/NINDS

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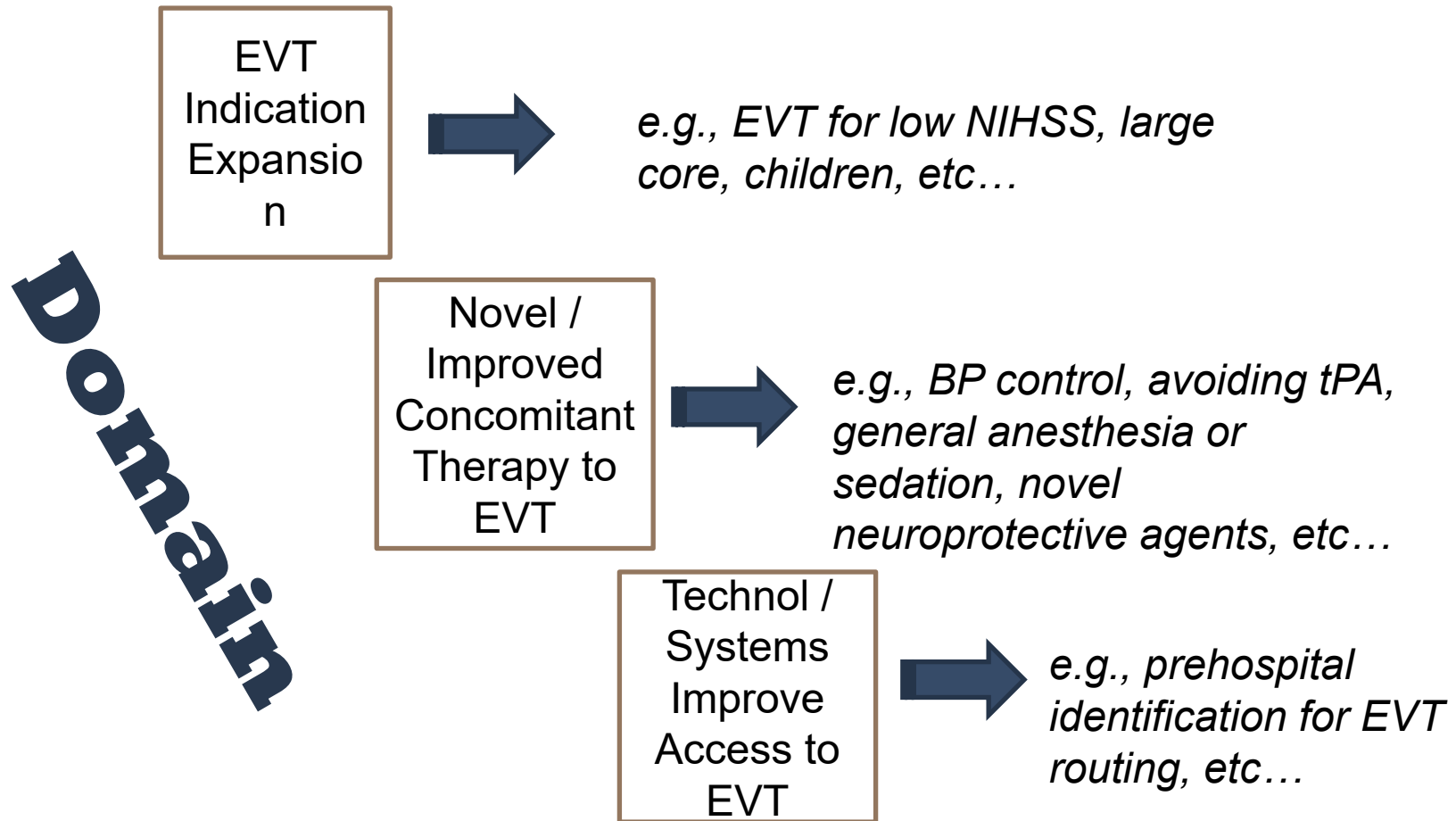
NDMC

Sept 16, 2022

<http://nihstrokenet.org/>



How did we get here?



Deluge of EVT Proposals to NINDS



Following the lead from the FDA

Master Protocols

FDA's Woodcock: The Clinical Trials System is 'Broken'

Posted 20 September 2017



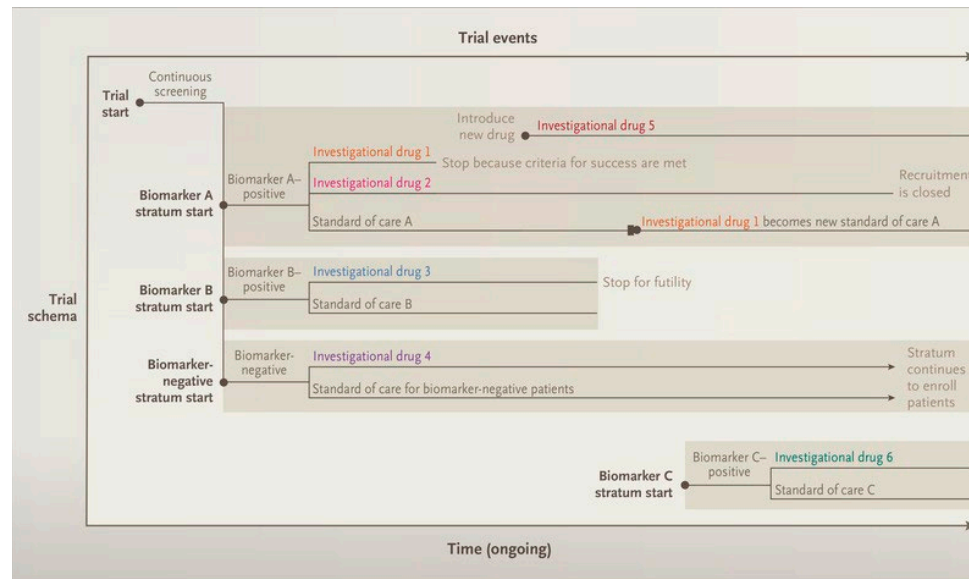
The clinical trials system is "broken" and there needs to be new ways to collect and utilize patient data, Janet Woodcock, director of FDA's Center for Drug Evaluation and Research, told a workshop on real world evidence (RWE) at the National Academies of Sciences, Engineering, and Medicine on Wednesday.

The comment came at the end of Woodcock's talk in which she also noted that use of master protocols (ie. protocols for trials that look at multiple therapies in a single disease or a single treatment in multiple diseases) and the development of new clinical trial networks "need to be the future."



Essential features of a platform

- Able to compare multiple interventions (arms)
- Examine effects across subgroups of patients with distinct but related clinical features
- Minimize downtime between trials
- Share control groups
- Drop arms early when treatments fail
- Combine promising treatment arms
- Share resources





Other Transactional Authorities (OTAs)

What is it?

- Unique type of legal funding instrument other than a contract, grant, or cooperative agreement
- NIH requires authority to enter into an OT and must differentiate OTs from existing grants/ contracts
- Requirements for awards issued under OTAs are generally included in the authorizing language or budgetary appropriation for such awards
- One reason for using an OTA may be:
 - Seeking participation from nontraditional research partners (e.g., pharmaceutical companies, patient advocacy organizations)
- Able to mitigate high risk objectives because OTAs give ability to terminate award if milestones are not met



Research Opportunity Announcements

A Research Opportunity Announcement (ROA) is a public document that announces the availability of an Other Transaction (OT). It provides the initiative's purpose, type of award, instructions on how to apply, due date for proposals or applications, and research opportunity number.

[Platform Trials
of
Thrombectomy
in Acute
Stroke \(OT2\)](#)

OTA-22-
001

NINDS is interested in establishing master protocols to enable platform trials in thrombectomy in acute stroke using a seamless rolling approach to be conducted within the existing NIH StrokeNet infrastructure. Trials that further refine patient groups that do or do not benefit from mechanical thrombectomy, and using which management approaches, will also open the door to testing neuroprotectant strategies in an efficient, timely, and cost-effective manner. This ROA will establish the groundwork to include the master protocol for platform trials with the NIH StrokeNet.

StrokeNET

[Scott
Janis,
PhD](#)

OTA initiated with StrokeNet on Sept 1, 2022



Plans going forward

Research Opportunity Announcements

Expecting a set of ROA's that will allow the full build-out of the platform and a mechanism for accepting platform trial proposals

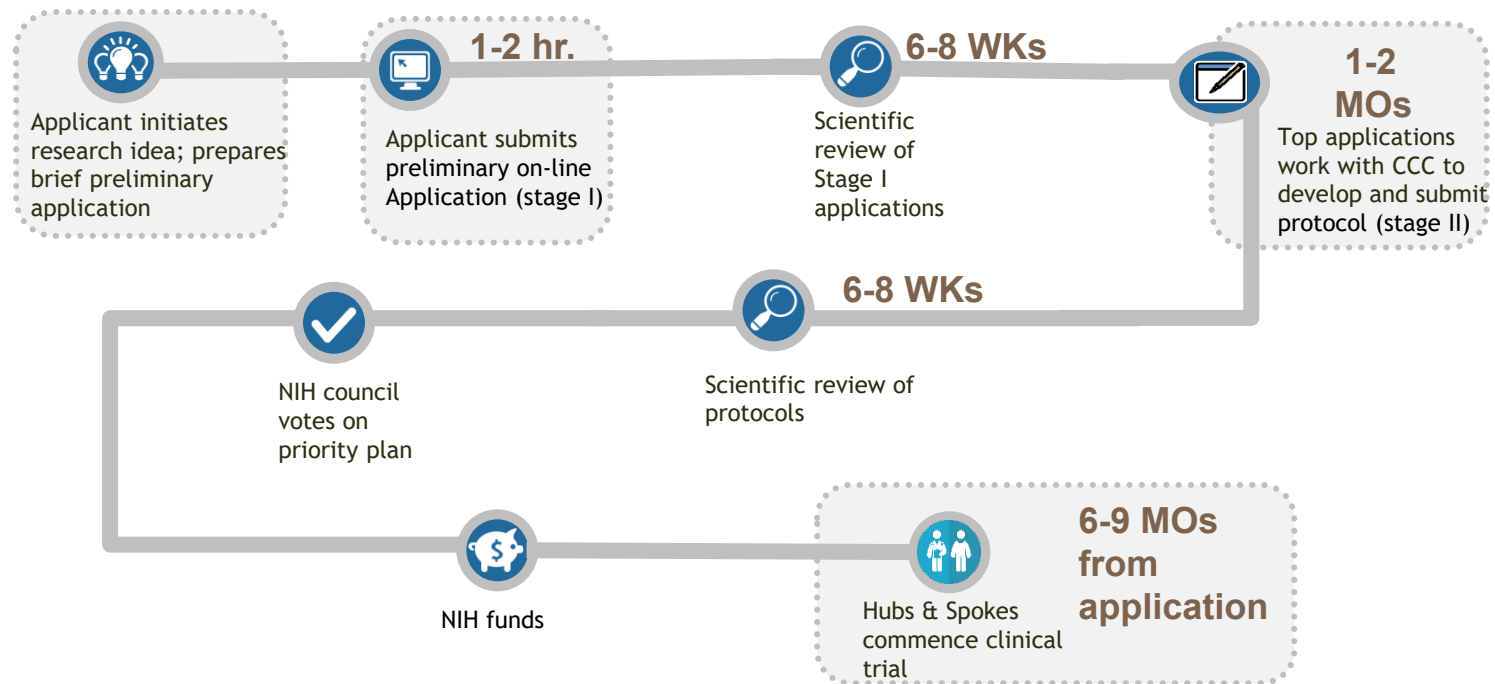
Expected timeline is early next year

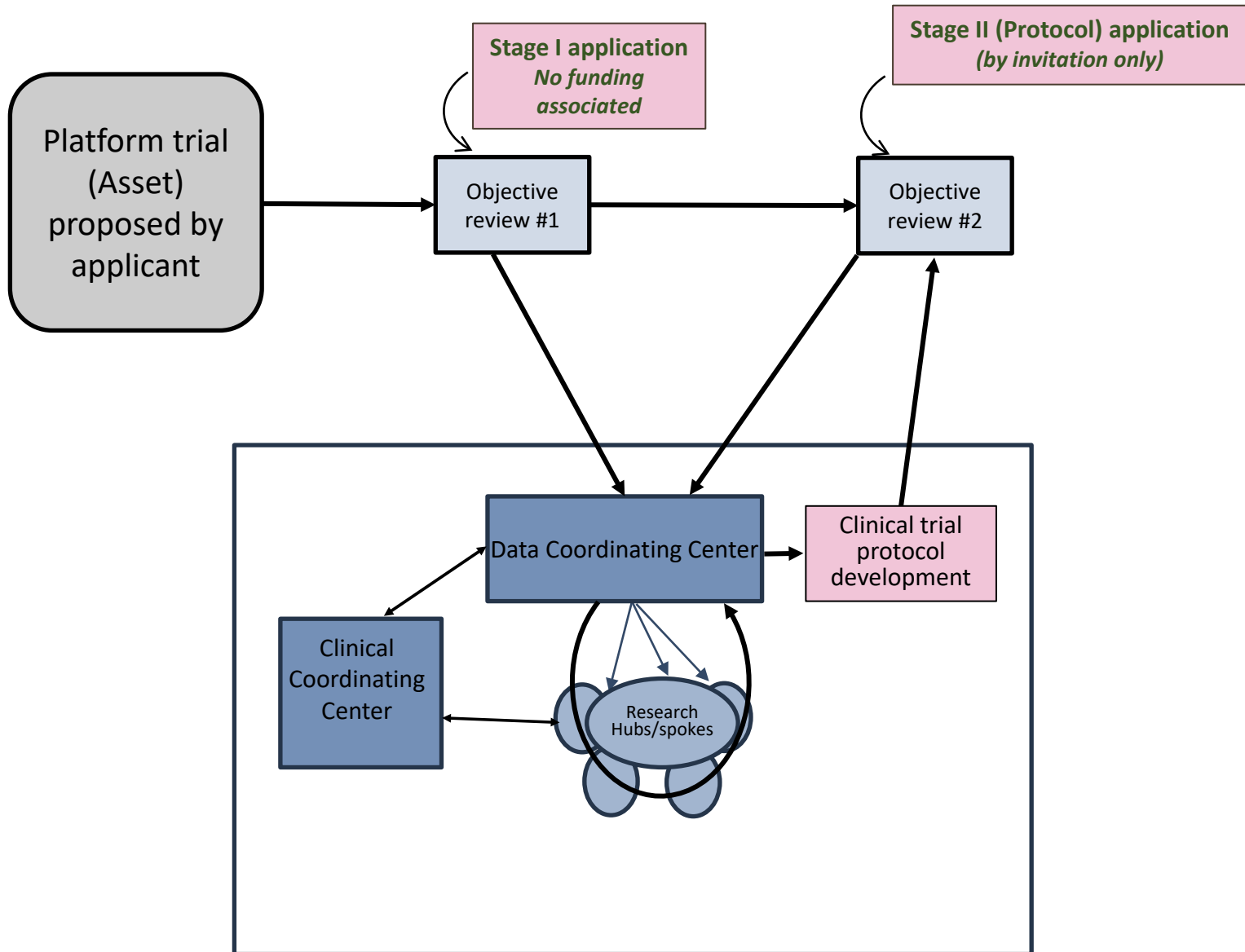
ROA's and instructions will be published on the NINDS website:

<https://www.ninds.nih.gov/funding/find-funding-opportunities/research-opportunity-announcements?search-term=OTA>



How the Application & Review Process will work



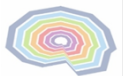




Brief Overview

StrokeNet Thrombectomy Platform (STEP) Trial Design

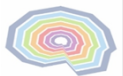
- *Eva Mistry, MBBS, MSCI, FAHA*
- *Jordan Elm, PhD*
- *On behalf of STEP Executive Committee*





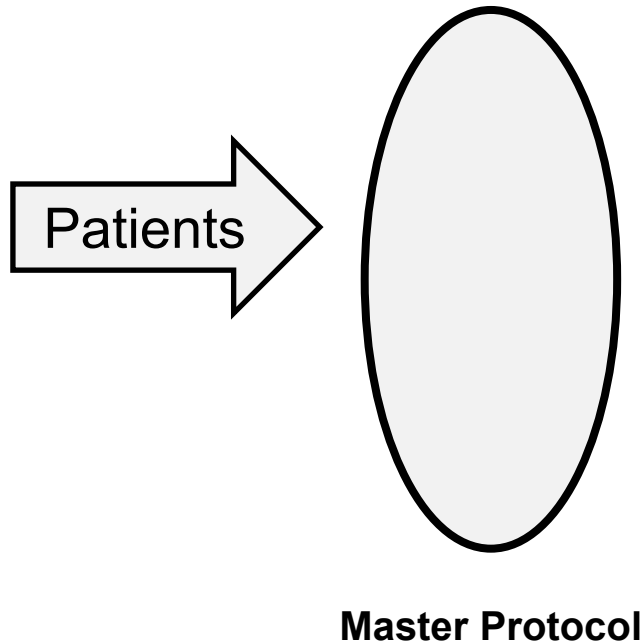
StrokeNet Thrombectomy Platform (STEP)

- Randomized Multifactorial Adaptive Platform (REMAP design)
- Leverages existing registries for data collection





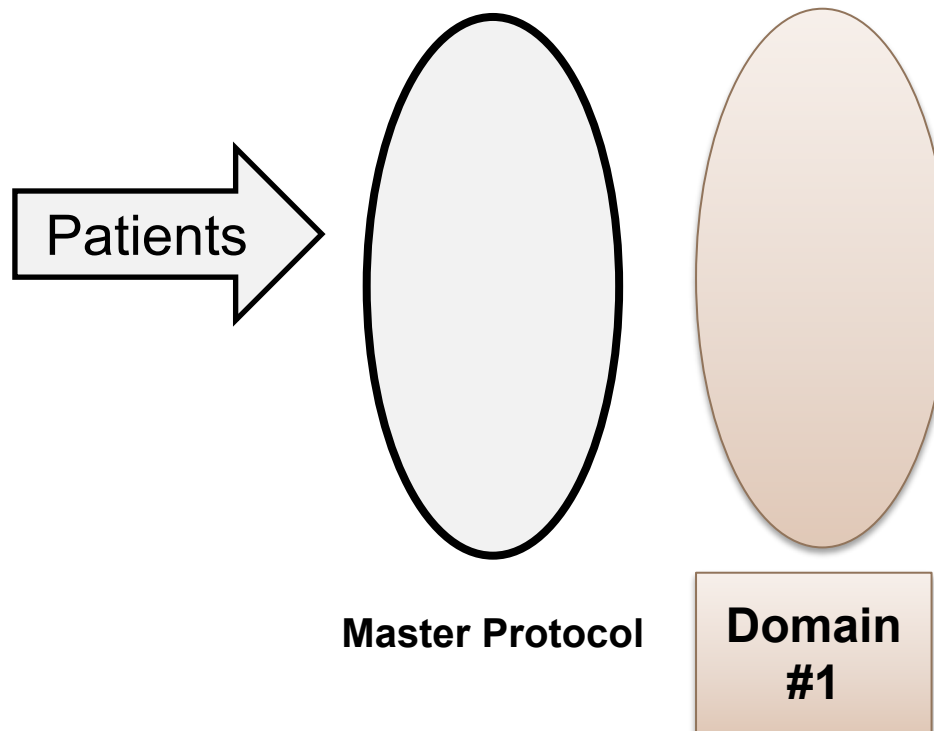
STEP- Master Protocol



- Defines the largest Set of Inclusion/Exclusion Criteria to be studied
 - All acute ischemic stroke patients with a large or medium vessel occlusion
- Broadly defines overall study terminology and procedures
 - Domain specific appendices are referred to for domain specific details
- Specifies a single underlying statistical model



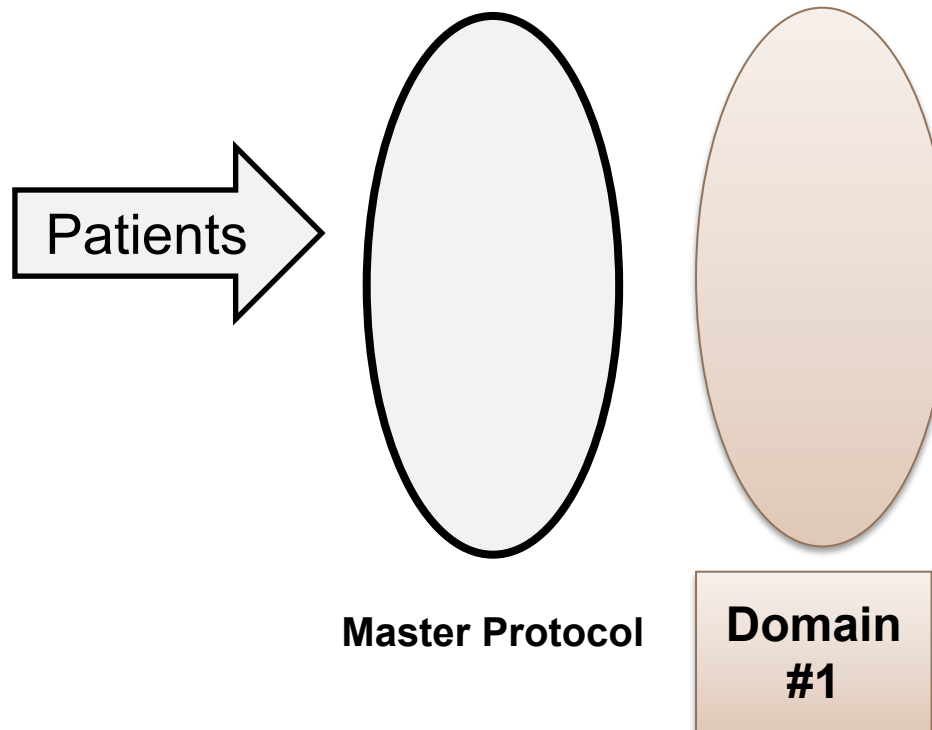
STEP- Domains



- Studies of **mutually exclusive** interventions
 - EVT vs MM
 - Neuroprotectant 1 vs Neuroprotectant 2 vs control
- Patients can be randomized within multiple domains (**multifactorial**)



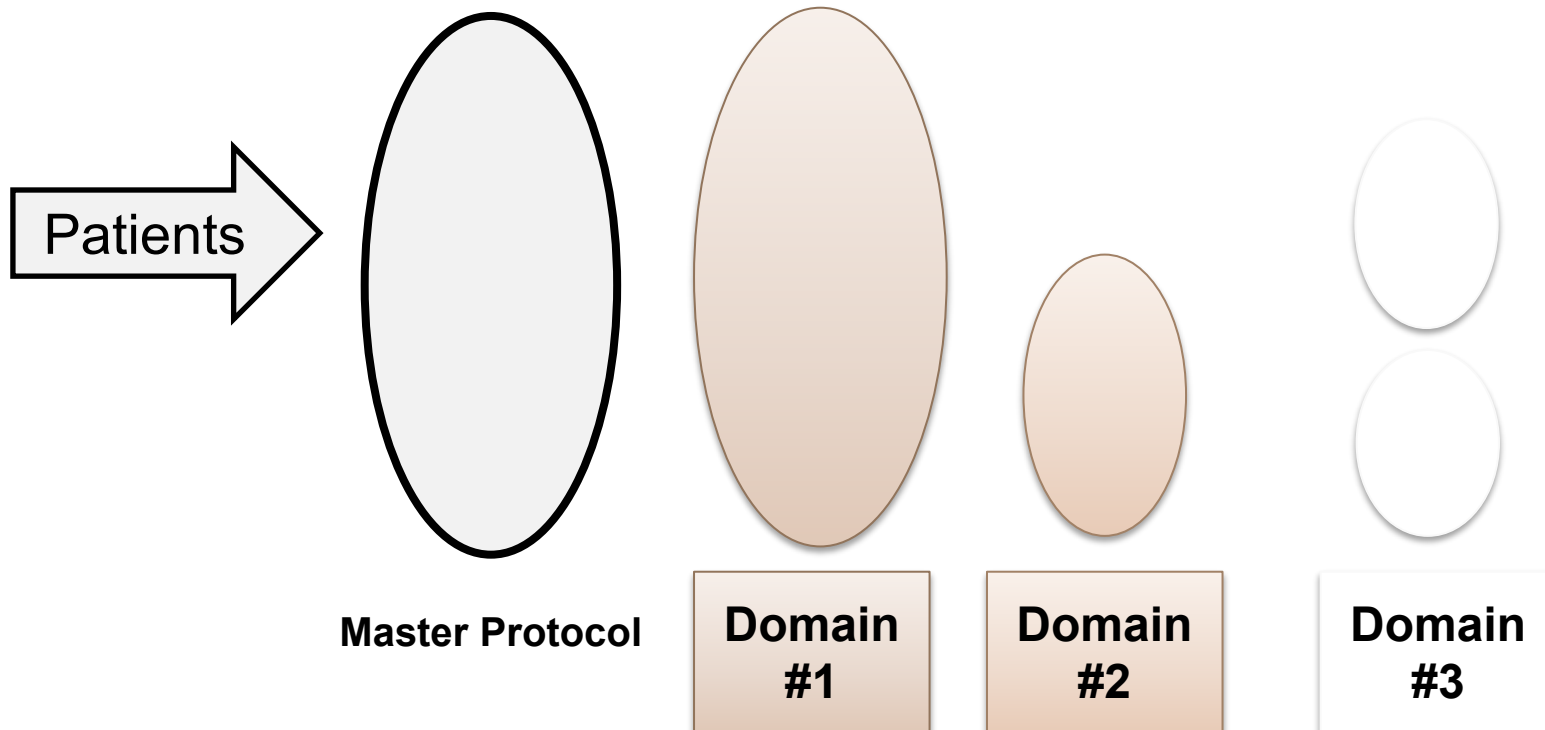
STEP- Domain Specific Appendix



- Defines a set of patients eligible for the domain
 - Must be subset of platform trial I/E population
- Details the type/delivery of intervention(s)
- Defines the rules for **randomization**
- Defines the analysis methods, **adaptations**
- May define how it works with other domains (co-enrollment)



STEP Trial Domains





STEP Data Transfer Procedures

- STEP leverages three major acute stroke/endovascular registries to minimize the burden of data collection through superuser agreements
 - AHA GWTG
 - NVQI-QOD
 - SVIN registry
- Direct data entry is permissible for sites not participating in NVQI-QOD and SVIN registries.
- Direct data entry is required for critical data elements for randomized patients



STEP Organization

