

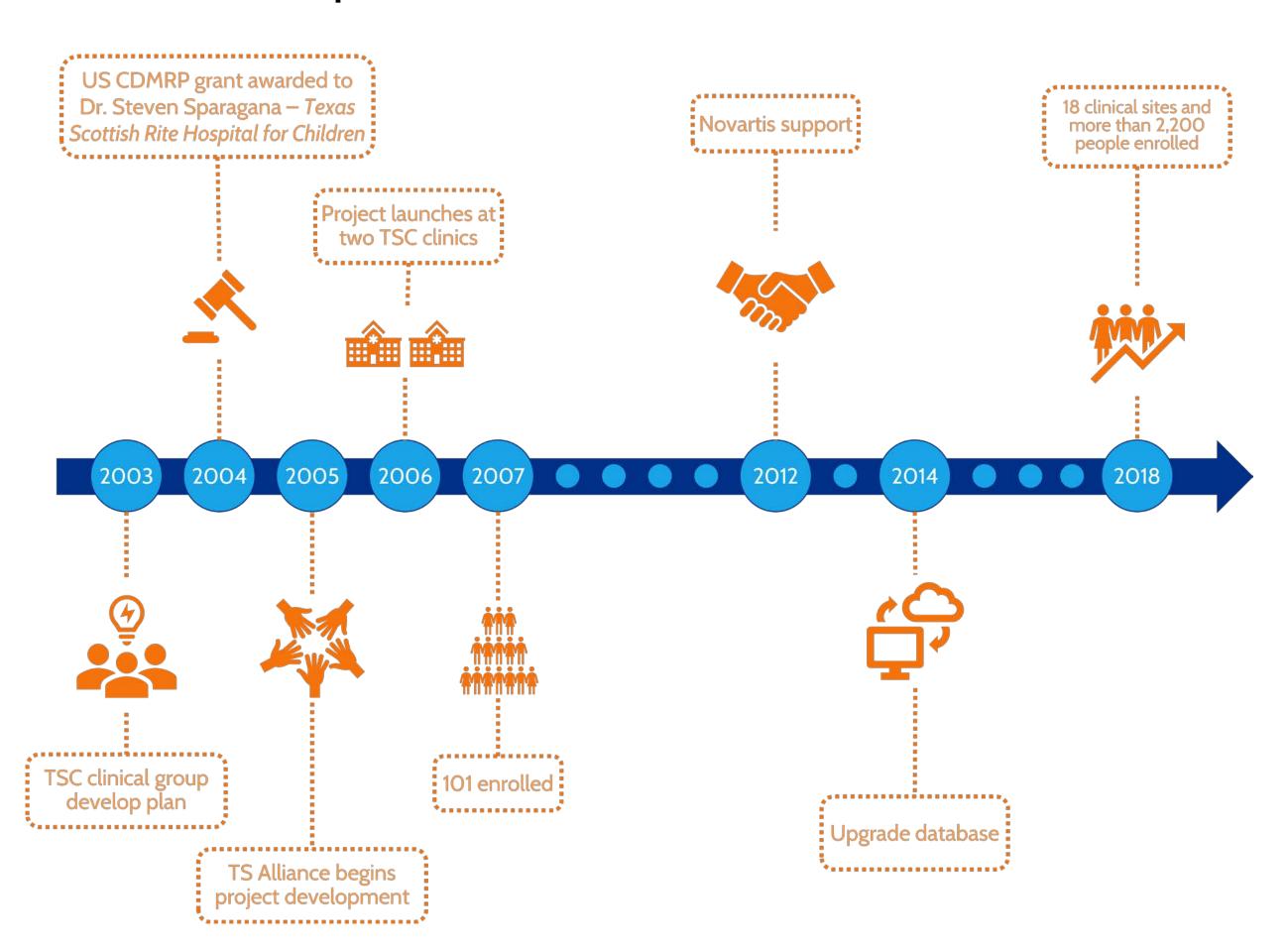


# Overview

The TS Alliance supports initiatives to establish clinical resources for researchers in the pursuit of drug development and clinical care:

## Natural History Database (NHD):

- Captures clinical data documenting the impact of TSC on the health of those affected over their lifetime
- 18 participating TSC clinics collect data, ensure quality in the data, and provide data distribution



# **Biosample Repository (BSR):**

- A biobank of tissues, blood, and DNA with corresponding patient clinical data
- Repository currently has 867 biosamples from 639 TSC patients and 166 biological parents
  - 579 linked to entries in the NHD
  - Additional 263 from the Rare Diseases Clinical Research Network (RDCRN) Synaptopathies Consortium and PREVeNT clinical trial

# **Footprint of Clinical Resources in the US**

- 18 TSC clinics recognized by the TS Alliance participate in NHD and BSR
- We continually seek new participation for the collection of biosamples and clinical data



For more information contact Jo Anne Nakagawa, jnakagawa@tsalliance.org.

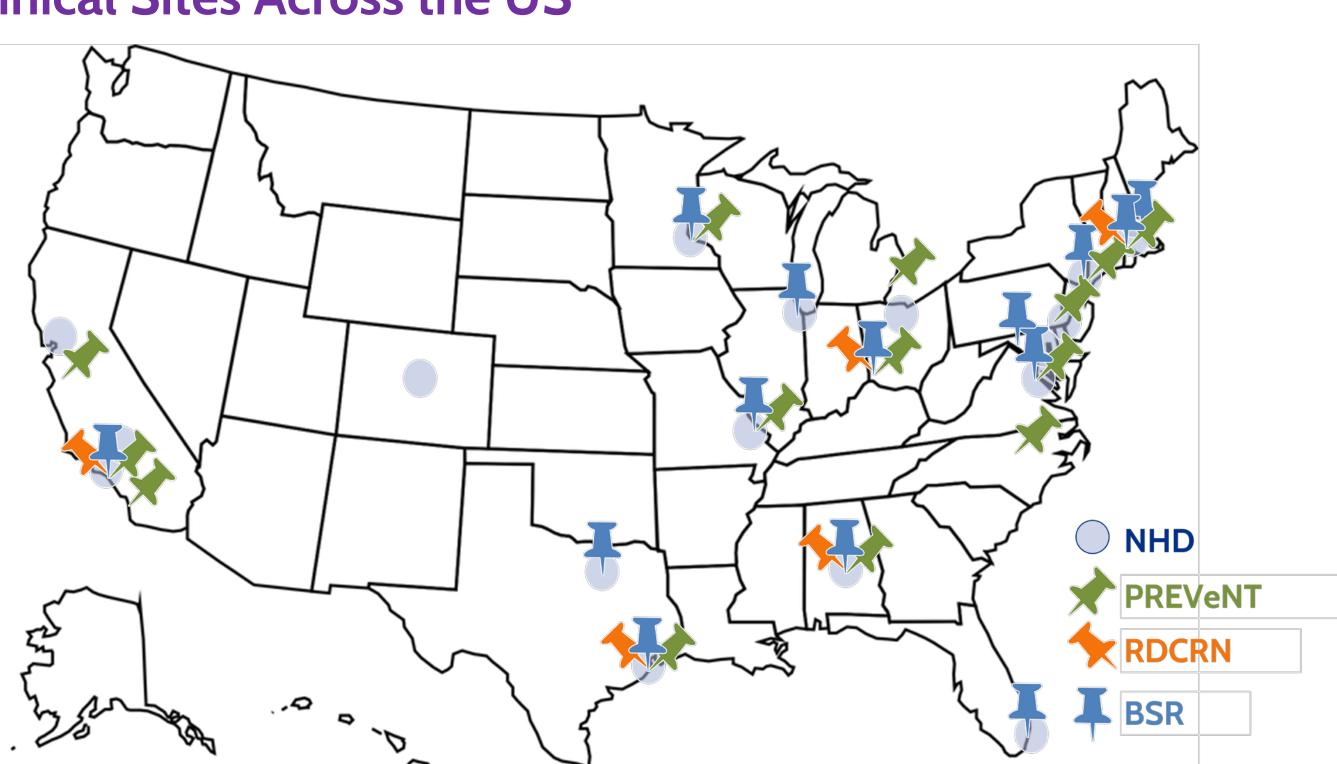
# **TSC Natural History Database and**

# **Biosample Repository**

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### **Clinical Sites Across the US**





# **TSC Clinical Sites**

Clinical Site (Principal Investigator)	NHD	BSR	RDCRN	PREVeN1
	# enrolled			
Minnesota Epilepsy Group, PA (Michael Frost, MD)	178			
Texas Scottish Rite Hospital for Children (Steven Sparagana, MD)	206			
NYU Langone Medical Center (Josiane LaJoie, MD)	93			
Herscot Center for TSC at MGH (Elizabeth Thiele, MD, PhD)	205			
Children's National Medical Center, DC (Wm. McClintock, MD)	111			
University of Chicago (Patti Ogden, APN FNP NP-C)	95			
UCSF Benioff Children's Hospital Oakland (Ali Mostajelean, MD)	112			
UCLA (Joyce Wu, MD)	87			
University of Texas Health Science Center (Hope Northrup, MD)	111			
University of Alabama Birmingham (Martina Bebin, MD, MPA)	79			
The Cleveland Clinic (Ajay Gupta, MD)	91			
Children's Hospital Colorado (Susan Koh, MD)	114			
Nicklaus Children's Hospital Miami (Ian O'Neil Miller, MD)	79			
Loma Linda University Medical Center (Stephen Ashwal, MD)	82			
Univ. of Pennsylvania Medical Ctr . (Katherine Nathanson, MD)	67			
Boston Children's Hospital (Mustafa Sahin, MD, PhD)	85			
Cincinnati Children's Hospital (Darcy Krueger, MD, PhD)	309			
Washington University St. Louis (Michael Wong, MD, PhD)	81			
TS Alliance (Jo Anne Nakagawa)	37			
Duke University (Klaus Werner, MD, PhD)				
Children's Hospital Orange County (Mary Zupanc, MD)				
Children's Hospital Philadelphia (Katherine Taub, MD)				
Lucille Packard Children's Stanford (Brenda Porter, MD, PhD)				
Beaumont Children's Hospital (Danielle Nolan, MD)				
Research Category Number of Most re			data from NF	

Research Category	Number of papers	Most recent pub
CNS and TAND	7	CNS: Song J, et al patients with tub <i>Sci.</i> 2018;391:104
Ophthalmology	1	The authors foun database who we three or more an epilepsy surgery a
Urology	1	had additional su

# **TSC Associated Neuropsychiatric Disorders (TAND)** in the NHD

128 depression 328 severe aggression 230 anxiety 310 ADHD 452 autism

count [individuals]



l. Epilepsy treatment patterns among perous sclerosis complex. J Neurol 4-108. doi: <u>10.1016/j.jns.2018.06.011</u>.

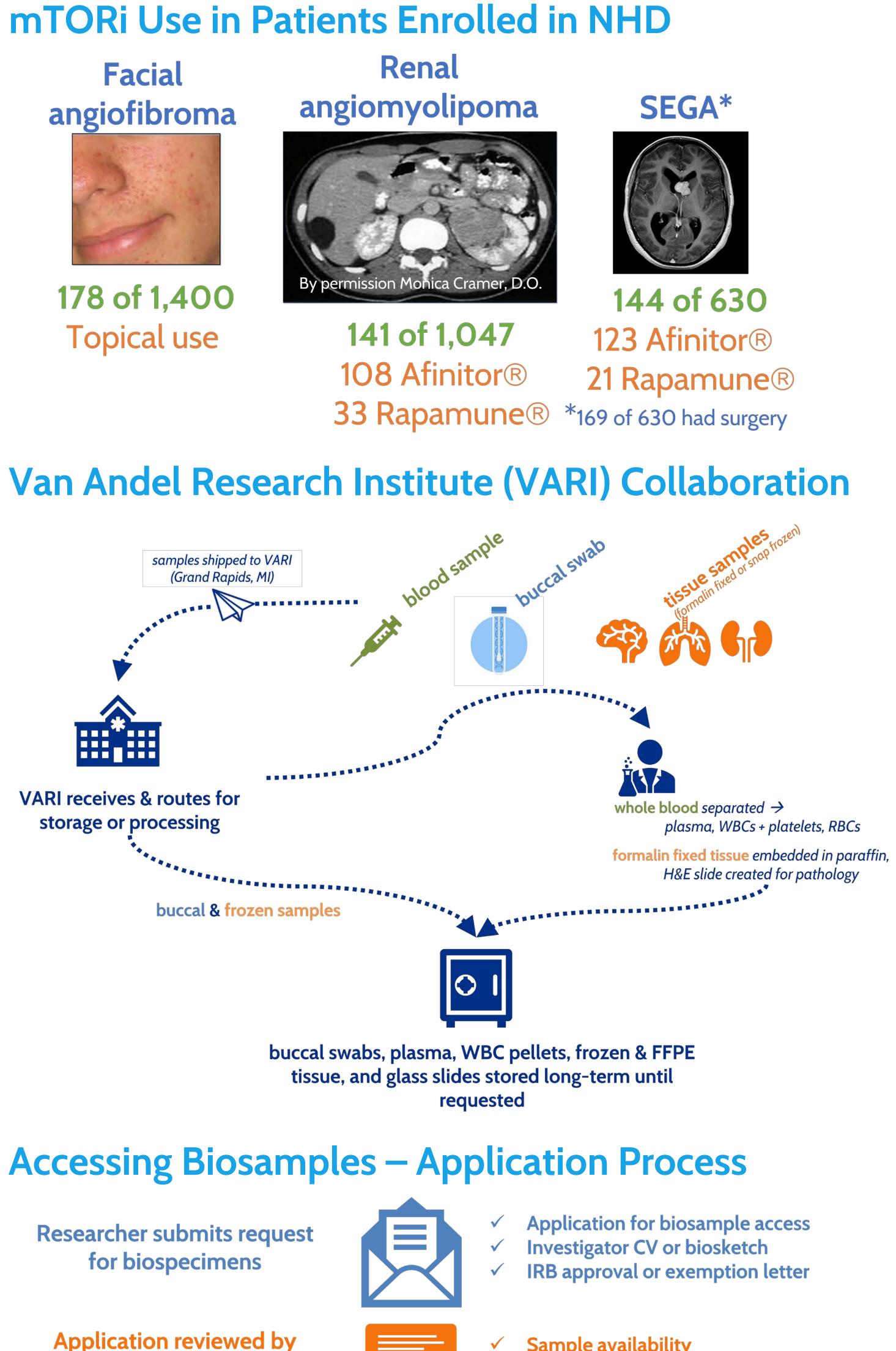
nd that over 64% of individuals in the ere prescribed drugs for epilepsy used tiepileptic drugs. Over 22% had after trying antiepileptic drugs, and 35% urgery after the first epilepsy surgery.





Topical use





Application reviewed by steering committee

**Request approved** 

Samples processed by VARI in accordance with request



# VAN ANDEL INSTITUTE®

- Scientific merit
- **Benefits of proposal**
- **Requested modifications made (if** necessary due to sample availability) Pi's institution completes MTA with TS alliance
- Plasma, WBC pellets, DNA, or RNA RNA paxgene fixed blood samples FFPE tissue sections, cores, or curls Frozen tissue sections, cores, or curls

