First Report of Outcomes in the TRILUMINATE[™] Pivotal Clinical Trial of TriClip[™] in Patients with Tricuspid Regurgitation Insights From the Roll-In Cohort

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Study Design

The TRILUMINATE[™] Pivotal trial is the first randomized, controlled clinical trial to evaluate the safety and BACKGROUND effectiveness of transcatheter edge-to-edge repair (TEER) in patients with tricuspid regurgitation (TR) SCIENTIFIC To evaluate the safety and effectiveness of TriClip[™] TEER System in improving clinical outcomes in **OBJECTIVE** symptomatic patients with severe TR Prospective, multicenter, randomized, controlled, clinical trial TRIAL Randomized cohort (450+), single-arm cohort (200), and roll-in cohort (up to 3 per site) DESIGN Principal Investigators: Dr. David Adams, Dr. Paul Sorajja Randomized Cohort: Hierarchical composite of all-cause mortality or tricuspid valve surgery, heart PRIMARY **ENDPOINTS** failure (HF) hospitalizations, and guality of life (QoL) improvement assessed using the Kansas City Cardiomyopathy Questionnaire (KCCQ) at 12 months **Single-Arm Cohort:** Survival at 12 months with KCCQ QoL increase ≥ 10 points compared to baseline. KFY **Key Inclusion Criteria: Key Exclusion Criteria:** INCLUSION/ • Symptomatic with severe TR despite medical Severe pulmonary hypertension or left-sided **EXCLUSION** heart failure therapy **CRITERIA** Intermediate or greater risk for tricuspid valve Untreated severe CV disease (e.g., MR, AS, CAD)

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55 US Study Sites

- Abbott Northwestern Hospital
- Allegheny General Hospital-ASRI
- Arizona Cardiovascular Research Center
- Aurora Medical Group
- Austin Heart
- Baptist Hospital of Miami
- Baylor Scott & White Heart & Vascular Hospital
- Beth Israel Deaconess Medical Center
- Brigham & Women's Hospital
- Buffalo General Hospital
- California Pacific Medical Center - Van Ness Campus
- Cardiovascular Institute of the South
- Cardiovascular Research Institute of Kansas
- Carolinas Medical Center

- Cedars-Sinai Medical Center
- Centennial Heart Cardiovascular Consultants
- Christ Hospital
- El Camino Hospital
- Hospital of the University of Pennsylvania
- Inova Fairfax Hospital
- Intermountain Medical Center
- JFK Medical Center
- Kansas University Medical Center
- Los Robles Regional Medical Center
- Manatee Memorial Hospital
- MedStar Health Research Institute
- Methodist Hospital of San Antonio
- Montefiore Medical Center -Moses Division

- Morton Plant Valve Clinic
- Mount Sinai Hospital
- New York-Presbyterian/Columbia University Medical Center
- North Shore University Hospital
- Northshore University HealthSystem
- Novant Health Heart and Vascular Research Institute
- Ohio Health Research Institute
- Phoenix Cardiovascular Research Group
- Piedmont Heart Institute
- Providence Heart & Vascular Institute
- Providence Medical Foundation
- Rush University Medical Center
- Scripps Health
- Sentara Norfolk General Hospital

- St. Thomas Hospital
- Sutter Medical Center, Sacramento
- Swedish Medical Center
- Tallahassee Research Institute
- The Cleveland Clinic Foundation
- The Methodist Hospital
- Tucson Medical Center
- University Hospital Univ. of Alabama at Birmingham (UAB)
- University of California Davis Medical Center
- University of Colorado Hospital
- University of Pittsburgh Medical Center
- University of Virginia Medical Center
- Yale New Haven Hospital

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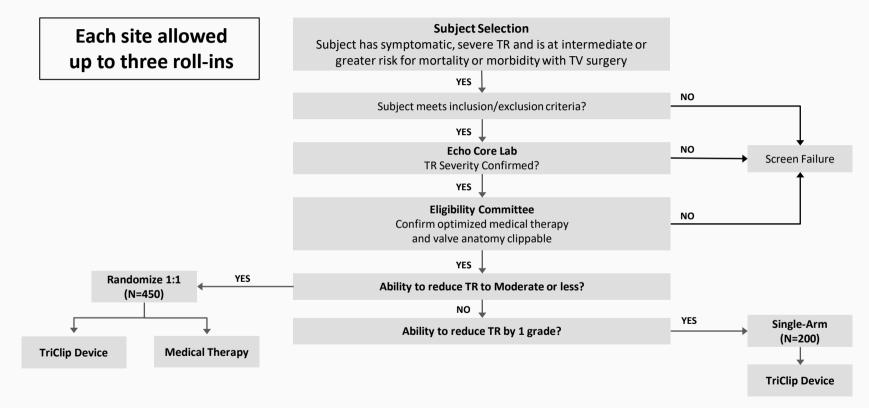
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12 International Study Sites

- Hamilton Health Science Centre
- Herzzentrum Leipzig GmbH
- Hospital Clinic de Barcelona
- Institut de Cardiologie de Montreal (Montreal Heart Inst.)
- Munchen Grosshadern
- Ospedale San Raffaele Cardiac
- Ottawa Heart Institute
- St. Michael's Hospital
- St. Paul's Hospital
- Sunnybrook Health Sciences Centre
- Universitatsklinikum Bonn AdoR
- Universitatsmedizin der Johannes Gutenberg-Universitat Mainz

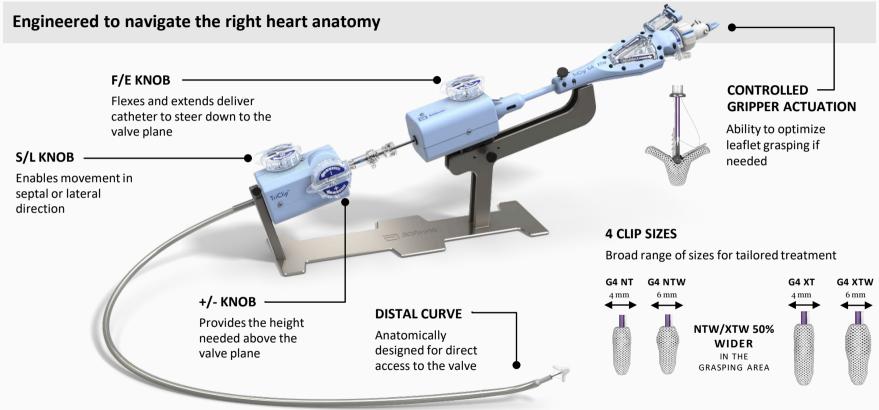
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Enrollment Pathway



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TriClip[™] G4 TEER Delivery System



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Baseline Characteristics

VARIABLE	n=97
Age, mean (years)	79 ± 9
Male/Female	62 %/38 %
NYHA Class III/IV	68 %
KCCQ score	55.3 ± 21.5
6MWD (m)	234 ± 116
Left Ventricular Ejection Fraction	59.8 ± 10.2
Functional Tricuspid Regurgitation	91 %
Baseline TR Severity	
Grade 2 (moderate)	2%
Grade 3 (severe)	37 %
Grade 4 (massive)	24 %
Grade 5 (torrential)	37 %

VARIABLE	n=97
Hypertension	80 %
Atrial Fibrillation	90 %
Prior Left-sided Intervention	39 %
Prior CABG	21 %
Diabetes	25 %
Chronic Renal Disease	27 %
Chronic Obstructive Pulmonary Disease	19 %
Peripheral Vascular Disease	14%
Prior Stroke	6 %
Permanent Pacemaker/ICD	9 %
Prior Myocardial Infarction	7 %

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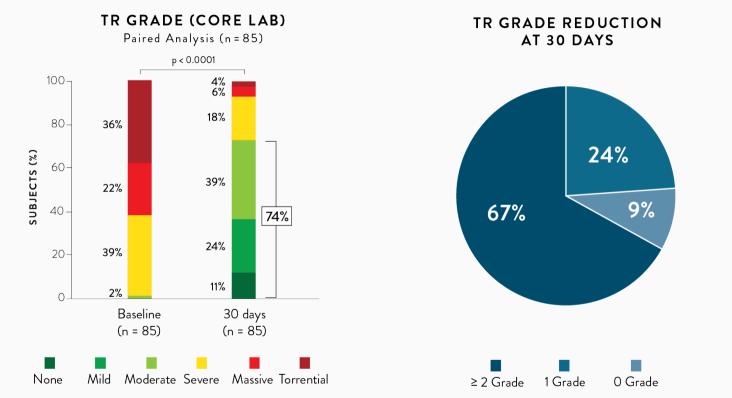
Acute Procedural Outcomes

PARAMETER	(N=97)
Implant Success (at least 1 clip placed)	99 %
Mean Device Time (min)	105 ± 67
Median Device Time (min)	89 (50, 146)
# of clips per patient	2.3 ± 0.7
Devices Implanted*	
NT	21%
ХТ	79%
* All roll=ins completed prior to G4	

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30-day TR Reduction



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Safety Outcomes at 30-days

EVENT	n=97
MAEs	1.0% (1)
Cardiovascular Mortality	1.0% (1)
New Onset Renal Failure	1.0% (1)
Endocarditis Requiring Surgery	0
Non-Elective Cardiovascular Surgery for Device-Related AE	0

EVENT	n=97
Other Clinical Safety Endpoints	15.5 % (15)
All-cause Mortality	1.0% (1)
Stroke/TIA	0
TV Surgery	1.0% (1)
TV re-intervention	1.0% (1)
Major Bleeding*	7.2% (7)
Device Embolization	0
Single Leaflet Device Attachment (SLDA)	7.2% (7)
* Major defined as blooding BARC Type 24	

* Major defined as bleeding BARC Type 3A.

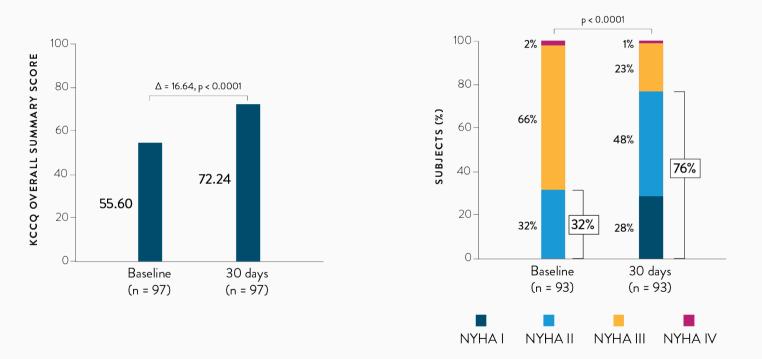
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Functional and Quality of Life Measures

KCCQ-OS

NYHA FUNCTIONAL CLASS



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- TRILUMINATE[™] Pivotal Trial is a landmark randomized, controlled clinical trial to evaluate the safety and effectiveness of TriClip[™] across a broad range of tricuspid anatomies
- Early TriClip[™] experience in the roll-in cohort demonstrated successful TR reduction in most patients, despite the majority having massive and torrential TR severity at baseline.
- Few subjects experienced a major adverse event within 30 days.
- Most experienced a clinically meaningful improvement in functional status and quality of life at 30-day follow-up, with an average increase in KCCQ score of ~17 pts at 30-day follow-up.
- Results from the ongoing TRILUMINATE Pivotal Trial randomized cohort will provide insight into the impact of TriClip[™] TEER on clinical outcomes in symptomatic patients with severe TR

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SOURCE: ESC 2022, August 26-29

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