Introduction and Overview of the Clinical Network Award

Presented by

Trish Henry, Ph.D.
Program Manager
Judi Sgambato, Ph.D.
Science Officer
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Transforming Healthcare through Innovative and Impactful Research





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About the Congressionally Directed Medical Research Programs



(CDMRP)





https://cdmrp.health.mil

CDMRP FY23 Appropriations



Research Program	FY23 \$M	Research Program	FY23 \$M
Alcohol and Substance Use Disorders	\$4.0	Orthotics and Prosthetics Outcomes	\$15.0
Amyotrophic Lateral Sclerosis	\$40.0	Ovarian Cancer	\$45.0
Autism	\$15.0	Pancreatic Cancer	\$15.0
Bone Marrow Failure	\$7.5	Parkinson's	\$16.0
Breast Cancer	\$150.0	Peer Reviewed Alzheimer's	\$15.0
Chronic Pain Management	\$15.0	Peer Reviewed Cancer (20 Topics)	\$130.0
Combat Readiness Medical	\$5.0	Peer Reviewed Medical (50 Topics)	\$370.0
Duchenne Muscular Dystrophy	\$10.0	Peer Reviewed Orthopaedic	\$30.0
Epilepsy	\$12.0	Prostate Cancer	\$110.0
Hearing Restoration	\$5.0	Rare Cancers	\$17.5
Joint Warfighter Medical	\$25.0	Reconstructive Transplant	\$12.0
Kidney Cancer	\$50.0	Spinal Cord Injury	\$40.0
Lung Cancer	\$25.0	Tick-Borne Disease	\$7.0
Lupus	\$10.0	Toxic Exposures	\$30.0
Melanoma	\$40.0	Traumatic Brain Injury and Psychological Health	\$175.0
Military Burn	\$10.0	Tuberous Sclerosis Complex	\$8.0
Multiple Sclerosis	\$20.0	Vision	\$20.0
Neurofibromatosis	\$25.0	TOTAL = \$1.52B	

RTRP Program Overview



- History The Reconstructive Transplant Research Program (RTRP) was established in fiscal year 2012 (FY12) with a \$15 million (M) appropriation from Congress
 - \$141M total for FY12 FY23
- Vision Reconstructive transplant: an accessible and realistic choice
- Mission Advance science and standardized clinical practice of vascularized composite allotransplantation to improve access, safety, and quality of life for catastrophically injured service members, Veterans, and American civilians.

What is Reconstructive Transplantation?



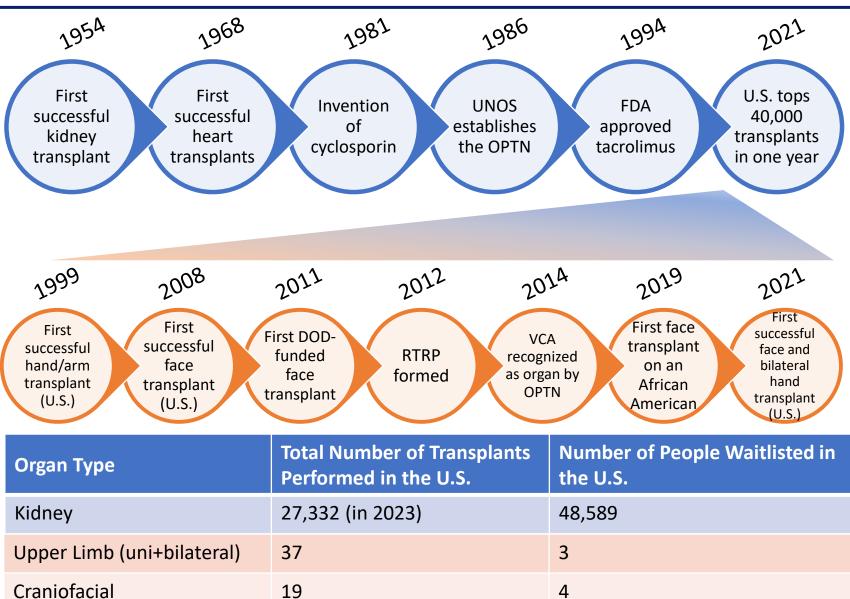
- A treatment option for catastrophic loss of composite tissue (e.g., collection of multiple tissue types integrated to function as a single unit)
- Also known as vascularized composite allotransplantation (VCA)
- Involves the surgical transplantation of composite tissue (e.g., nerve muscle, bone, skin, vasculature) from a deceased donor to a recipient with a catastrophic tissue injury
- Generally considered a life-enhancing procedure, rather than life-saving, though some would argue against this assessment





History of Organ Transplant





Scope of the Problem: Clinical Challenges



- No standardized procedure (each VCA Center has its own guidelines)
- Procedure not covered by third-party payers
- High costs of procedure and lifelong care

Strategic Guidance: Feedback from Stakeholders

- Stakeholders Meeting held November 2019
 - Highlighted a need for more clinical studies and to standardize protocols and clinical practice guidelines for VCA procedures
 - I. OVERVIEW OF THE FUNDING OPPORTUNITY

Program Announcement for the Department of Defense

Defense Health Program

Congressionally Directed Medical Research Programs

Reconstructive Transplant Research Program

Clinical Network Award

Announcement Type: Initial

Funding Opportunity Number: W81XWH-20-RTRP-CNA

Clinical Network Award



Intent

- To promote a major multi-institutional network of VCA centers and associated collaborators for the purpose of standardizing clinical protocols and clinical practice guidelines (CPGs) for face and hand transplantation and assessing those protocols in multi-institutional clinical trials.
- To bring together investigators from as many VCA centers as possible for both face and hand transplantation to establish a consensus in the field of reconstructive transplantation for these protocols and CPGs.
- To ensure a fair and equitable process through which the Clinical Network works together to achieve goals in a logical and unbiased manner, to include avoiding and mitigating conflicts of interest that may arise during the process.

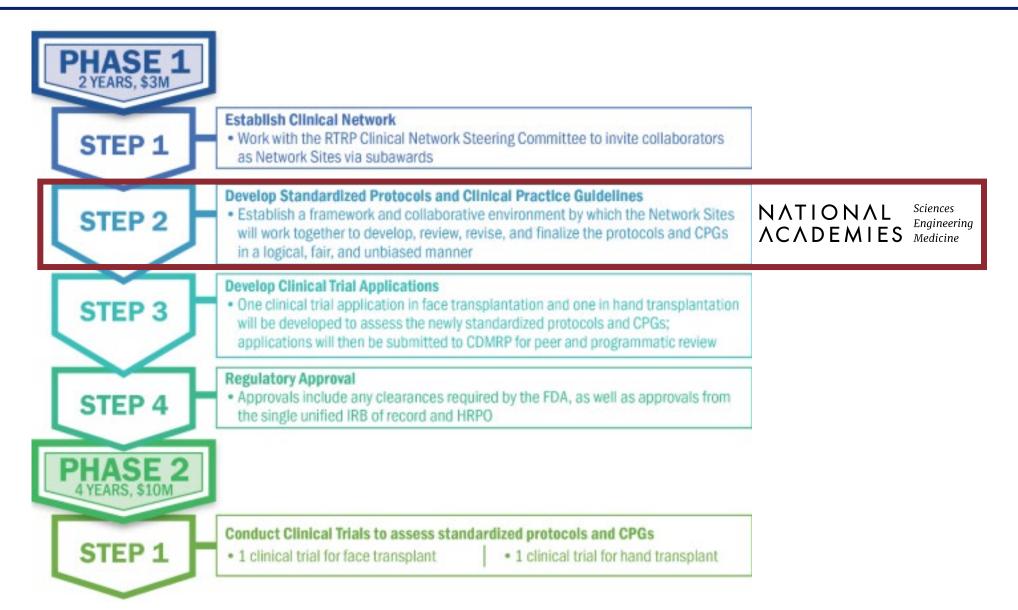
Focus Areas

Applications must specifically address the standardization and assessment of protocols and/or CPGs for <u>ALL</u> of the following Focus Areas for both face and hand transplantation.

- 1. Patient inclusion/exclusion criteria
- 2. Patient education
- 3. Surgical procedures
- 4. Immunosuppression and/or immunoregulation
- 5. Outcome metrics
- 6. Quality of life measures
- 7. Rehabilitation
- 8. Patient reporting (e.g., registry)

Clinical Network Award





NASEM Statement of TASK



- Develop a framework to assist the Clinical Network in achieving consensus and standardization for each of the eight focus areas in both hand and face transplantation.
 - Including processes to ensure consensus is achieved in a nonbiased manner.
- Establish a set of principals and strategies the Clinical Network can utilize to develop, review, revise, and finalize VCA protocols and SOPs for both hand and face transplantation to ensure a fair and equitable process where all participants serve as equal partners.
 - Including considerations for mitigating and resolving conflicts of interest.

Focus Areas

For both face and hand transplantation:

- Patient inclusion/exclusion criteria
- 2. Patient education
- 3. Surgical procedures
- 4. Immunosuppression and/or immunoregulation
- 5. Outcome metrics
- 6. Quality of life measures
- 7. Rehabilitation
- 8. Patient reporting (e.g., registry)

Anticipated Impact



Potential to transform the VCA field

- Unify the VCA field toward a common goal and increase collaboration
- Standardize VCA procedures across VCA Centers
- Advance face and hand transplant from experimental status to standard of care, providing impetus for third-party payer coverage, thereby increasing accessibility for more individuals
- Increase number of face and hand transplant procedures, which in turn provides a greater number of recipients available for study participation
- Success could entice more researchers to join the VCA field, thereby bringing new ideas to revitalize and reinvigorate the field

Questions? For more information, please visit:

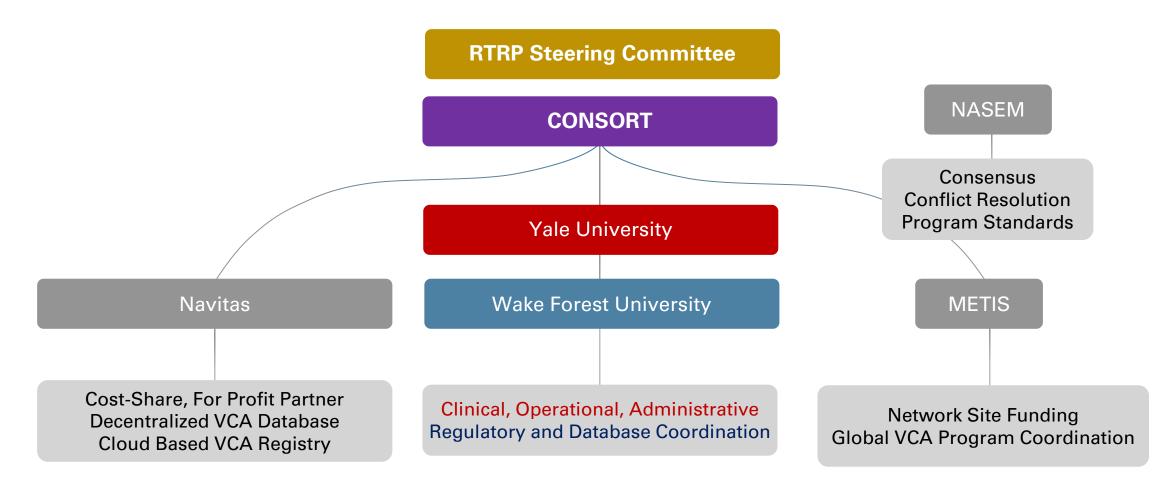






CLINICAL ORGANIZATION NETWORK FOR STANDARDIZATION OF RECONSTRUCTIVE TRANSPLANTATION

Overall Project Organization









Specific Aims

Phase 1 Aim 2 Implement agreements between participating sites to allow sharing, review and approval of regulatory, intellectual and material property protocols by a unified, central IRB and OHRO. Phase 2 Aim 1 Assess and validate standardized protocols and CLINICAL ORGANIZ STANDARDIZATION SOPs for hand and face Phase 1 Aim 1 transplantation in multiinstitutional clinical trials Establish (through across selected VCA Network collaborative consensus among Sites VCA teams), procedural and

protocol standards that impact program and patient success

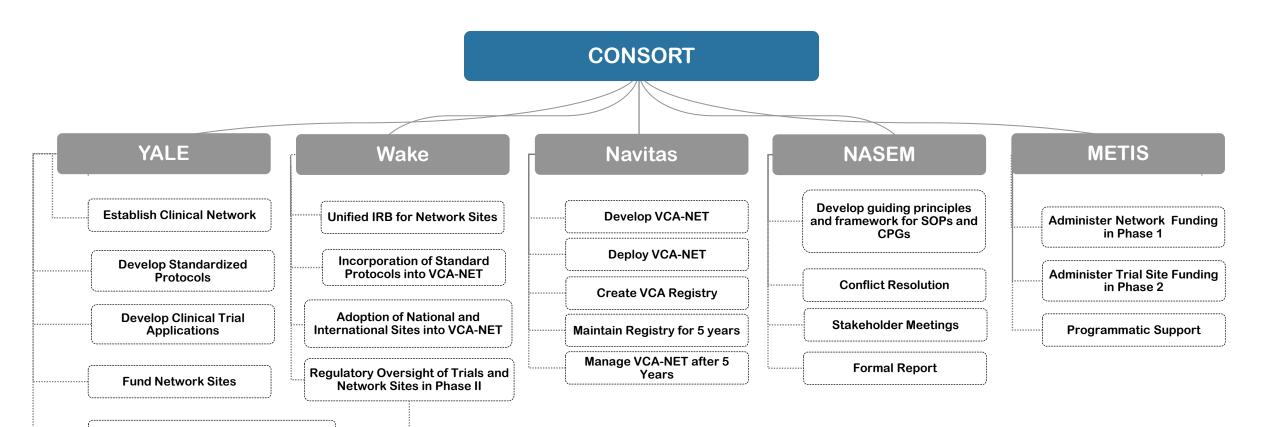
and outcomes in hand and face

transplantation.

Design, develop and deploy VCA-NET, which is a purpose-built electronic clinical trial management system (eCTMS), with standardized domains that incorporate the unique complexity of hand and face transplant metrics.

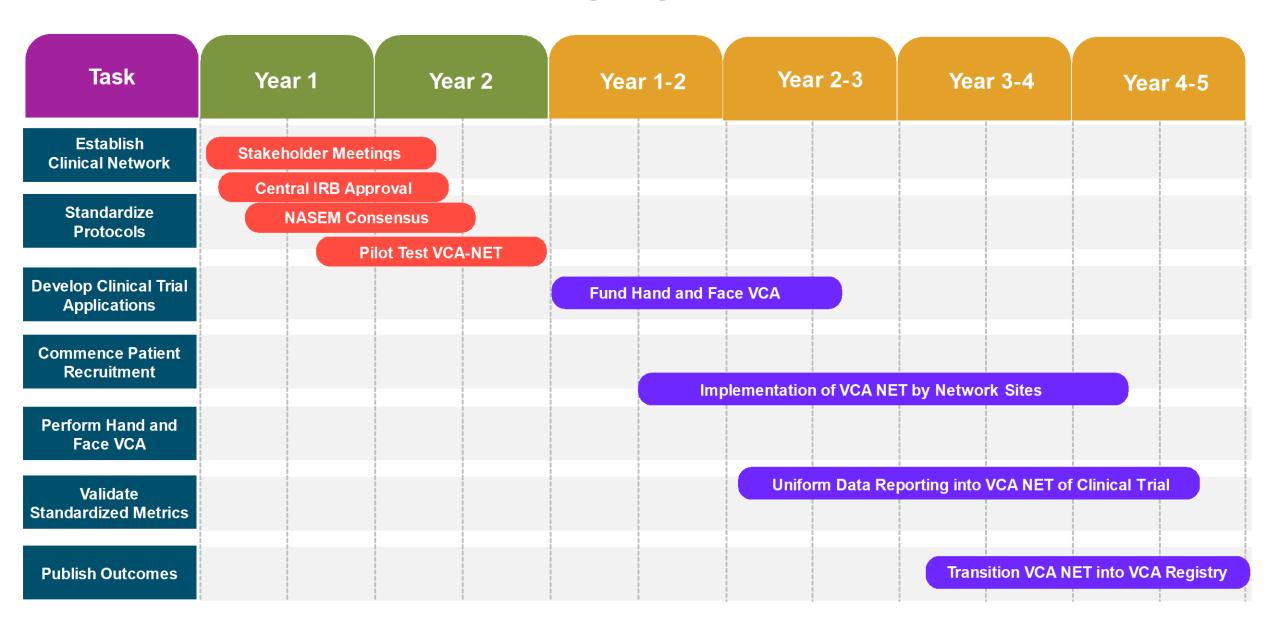
Phase 1 Aim 3

Roles and Responsibilities



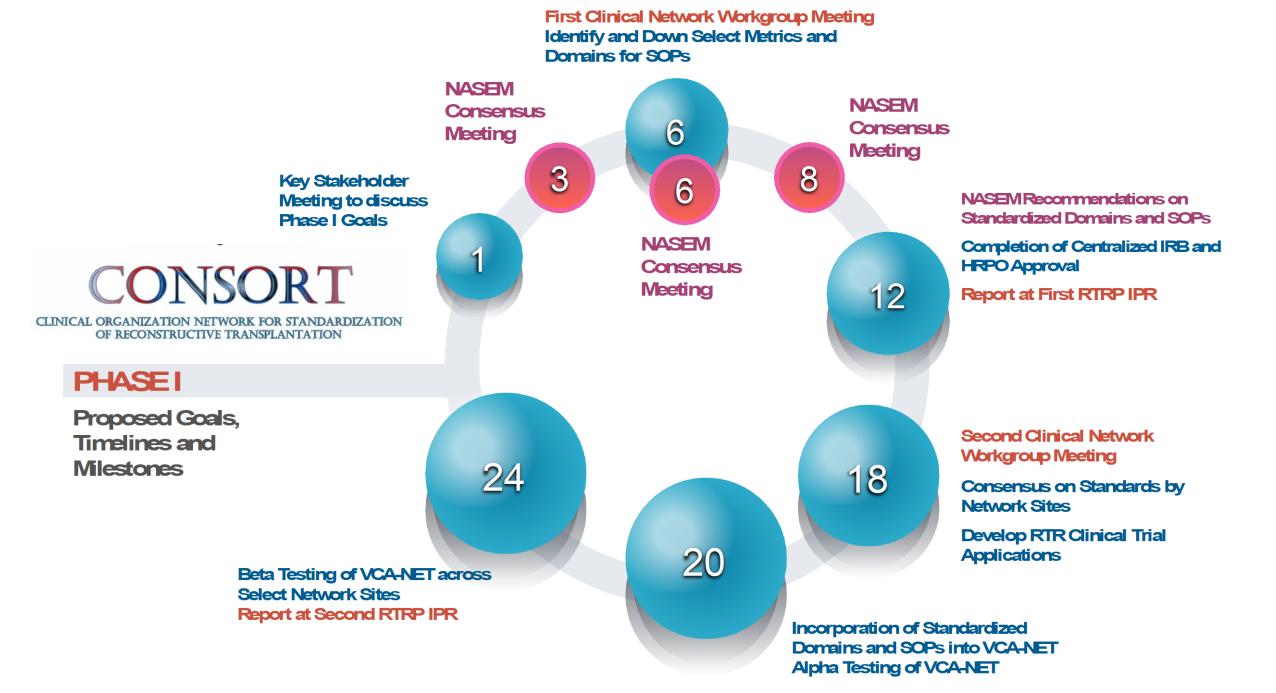
Implement the Trials

Timeline





CLINICAL ORGANIZATION NETWORK FOR STANDARDIZATION OF RECONSTRUCTIVE TRANSPLANTATION



Execution of Clinical Network Objectives

Phase II - Enrollment and Outreach

ENSURE in Phase I



- Adoption of consensus standards in Phase I
- Obtain IRB, OHRO approvals in Phase I
- Completion of CONSORT By-Law Agreements in Phase I

EVALUATE



- Program status on existing enrolled patients
- Program capabilities on referral, access and enrollment of patients
- Fund VCA programs to perform a total of 10-12 hand/face transplants
- Confirm equitable inclusion of minorities and women

EXPAND



 Generalizability of data collection per SOPs and CPGs in Phase II by inclusion of international sites (such as Canada, UK, EEU, India and Latin America)



Execution of Clinical Network Objectives

Network Site Compensation in Phase I and Phase II

Incentivize Program Participation and Expert Contribution in Phase I

RECOGNIZE

1

 Contribution from SMEs during development of SOPs and CPGs by NASEM **ENCOURAGE**



 Participation of National and International teams in adopting consensus standards (SOPs and CPGs) into their existing protocols Peer-Select Qualified US Based Programs for Hand or Face Transplantation in Phase II

FUND



 Funding VCA programs to perform a total of 10-12 hand and face transplants in Phase II (4 years of POP with possibility of NCE) **SUPPORT**



 Programs willing to participate as enrollment and referral sites for VCA patients during Phase II

Maximize short and longterm return on investment Leverage for RTRP-CNA through Compensate Network infrastructure, development of VCA-NET Collaboration and Sites in Phase 1 institutional support and global VCA Registry for communication (protocol/CPG Fair, equitable, and cost-share use by the VCA community will be promoted development) and unbiased opportunities to among Network Phase 2 (Clinical Trials) development of SOPs and realize global adoption deliver RTRP-CNA Sites to facilitate and CPGs will be of developed standards for achievement of Maximize enrollment objectives achieved with the generalizable impact objectives guidance of NASEM **KNOWLEDGE PURPOSE STAKEHOLDERS PROCESS RESOURCES PRODUCT** WHY WHO HOW **WHAT WHERE** 200 223

