



9.11 World Trade Center Health Program

Research Activity Update Innovations and Initiatives

Meeting of the WTC Health Program
Scientific/Technical Advisory Committee (STAC)

September 2024

Travis Kubale, PhD
Research and Evaluation Branch



Research Notifications & Updates

Subscribe to the WTC Health Program eNews to receive Research notices

- Research webinar notices
- Semiannual research meeting notices
- Funding opportunity announcements
- And more

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Updates

2024

SEP
16

[Published commentary describes research on cancer related to WTC exposure. View the publication through Springer Nature SharedIt.](#)

[View details on 2024 awarded research projects through the Research Funding Dashboard](#)

[Due date for 2025 funding applications is October 29, 2024](#)

[WTC Health Program Research Meeting will be held at NYU Langone on Nov. 13th](#)

JUL
12

[Sept 12th NIOSH OECSP Public Information Session for Interested Researchers: See webinar page to register.](#)

APR

[Federal Register Notice: Notice of Closed Meeting](#)

Resources Available Online

- Funding opportunities
- Access to resources
- Webinars and meetings



World Trade Center Health Program Research
Information and resources for current grantees and interested researchers

Information

- Funding Opportunities for Researchers
- About Research
- Webinars
- Meetings
- Research Agenda

Resources

- Considerations for Interested Researchers
- Publication Library

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Updates

2024

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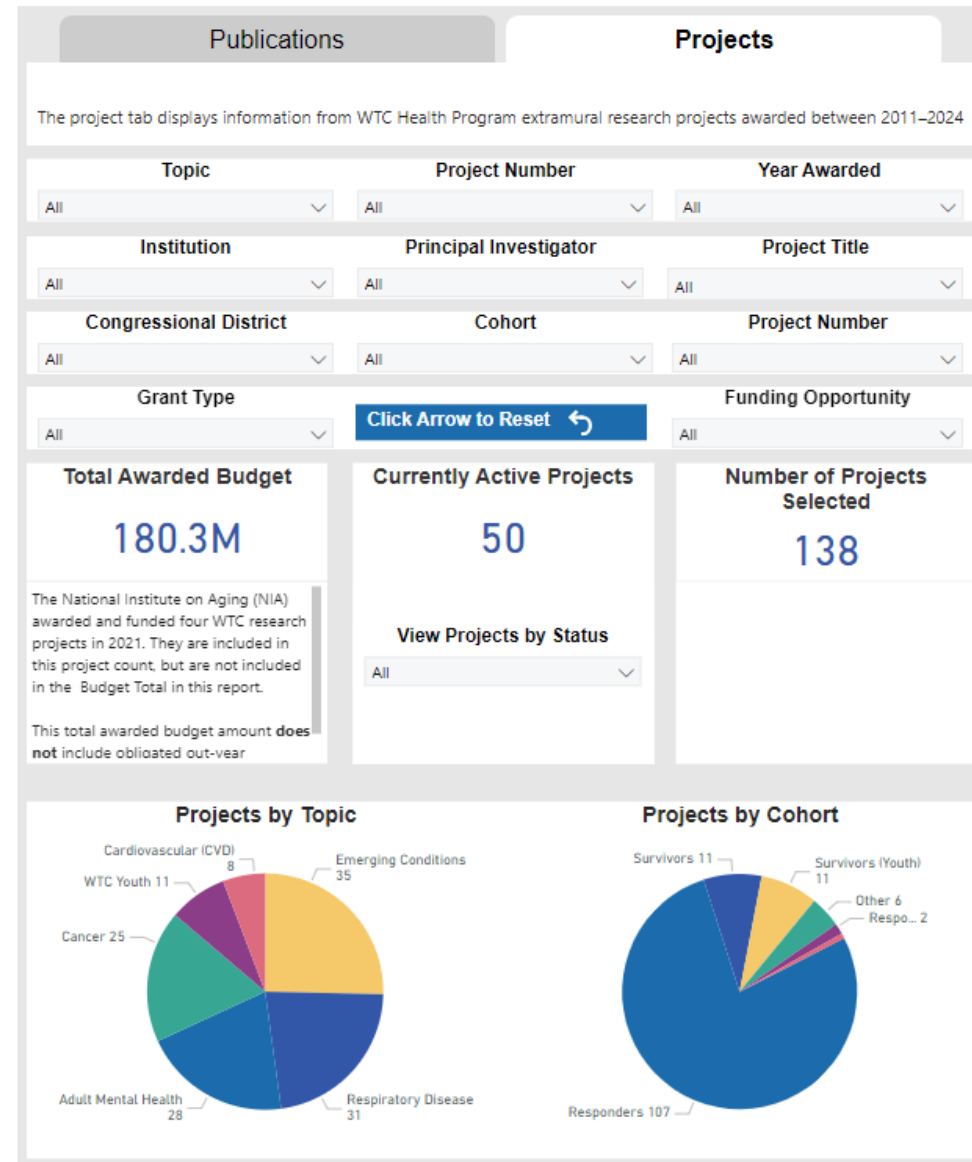
Research Funding Award Dashboard 2011-2024

- 446 Applications Received
- 133 (30%) Awarded for Funding
- 50 Projects currently active
- \$180.3M total funding awarded

Visit the WTC Health Program Research Funding Dashboard online to identify funded projects by:

- WTC Cohort (Responder, Survivor, Youth)
- Outcome Focus area
- Institution and PI
- Year Awarded
- Congressional District

<https://www.cdc.gov/wtc/researchdashboards.html>



WTC Health Program Publication Library

- Over 1,300 publications
- Searchable
 - WTC Cohort
 - Author
 - Year Published
 - Outcome Focus
 - Covered/Non-Covered conditions
 - Impact Score

Filters:

Reset Filters

Topic

- Adult Mental Health
- Cancer
- CVD
- Emerging Conditions
- Respiratory Disease
- WTC Youth
- Environmental Study
- Youth Scoping Review
- Other

Year

Funding Category

Additional Filters

NIEHS Translational Model

Study Population

WTC Cohort

Covered Physical Conditions

Search Publications

Use the sort, filter and search options to customize the list below. Some articles are not publicly available in full. Altmetric scores are shown where available.













What is an Altmetric Score?

An altmetric score shows the online attention and activity a publication has received. Click the icon next to each publication to learn more on the Altmetric site.

Search

Results: 1384

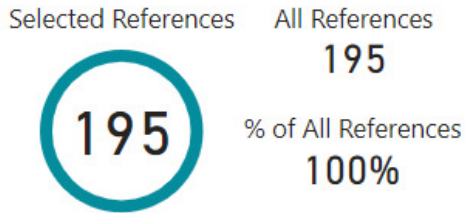
[Print Results](#)

1.  [Multiple myeloma and its precursor disease among firefighters exposed to the World Trade Center disaster](#) 
Landgren O, Zeig Owens R, Giricz O, et al
2018
2.  [Early assessment of cancer outcomes in New York City firefighters after the 9/11 attacks: An observational cohort study](#) 
Zeig Owens R, Webber MP, Hall CB, et al
2011
3.  [Psychological sequelae of the September 11 terrorist attacks in New York City](#) 
Galea S, Ahern J, Resnick H, et al
2002
4.  [Estimation of future cancer burden among rescue and recovery workers exposed to the World Trade Center disaster](#) 
Singh A, Zeig Owens R, Moir W, et al
2018
5.  [Cognitive impairment among World Trade Center responders: Long-term implications of re-experiencing the 9/11 terrorist attacks](#) 
Clouston SA, Kotov R, Pietrzak RH, et al
2016

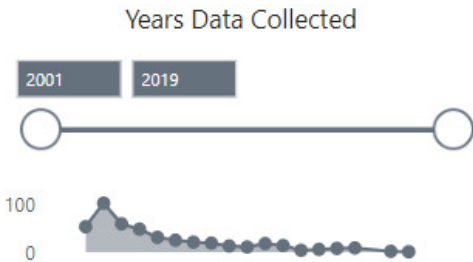
Clear All Filters

[How do I interpret this information?](#)

Youth 9/11 Health Effects Library



Research References: **144** View Research Only



Main Category	Subcategory	Sample / Cohort Name
<input type="checkbox"/> Select all	<input type="checkbox"/> Select all	<input type="checkbox"/> High Schools Near Ground Zero
<input type="checkbox"/> Children of women who were pregnant...	<input type="checkbox"/> Agencies providing care/services to y...	<input type="checkbox"/> Infants of WTC Registry Mothers
<input type="checkbox"/> Community samples from other US are...	<input type="checkbox"/> Birth records	<input type="checkbox"/> Jewish Parochial School Students
<input type="checkbox"/> Families of those exposed to or killed in...	<input type="checkbox"/> Childcare/early education	<input type="checkbox"/> Knowledge Networks Web-Enabled Panel
<input type="checkbox"/> National survey or records	<input type="checkbox"/> Children of exposed parents (general)	<input type="checkbox"/> Lower East Side Parents
<input type="checkbox"/> New York City wide sample	<input type="checkbox"/> Children of people that worked in or ...	<input type="checkbox"/> Lower Manhattan Middle and High School ...
<input type="checkbox"/> NYC child care/early education settings	<input type="checkbox"/> Children of responders	<input type="checkbox"/> Lower Manhattan Preschools and Daycares
<input type="checkbox"/> Students in the affected metro areas (N...	<input type="checkbox"/> Clinical records or services	<input type="checkbox"/> Medi-Cal Crisis Mental Health Visits
<input type="checkbox"/> WTCHP cohort	<input type="checkbox"/> Elementary School Youth	<input type="checkbox"/> Nationwide Birth Records 1995-2003
<input type="checkbox"/> Non-Research Articles	<input type="checkbox"/> General NYC Public Schools	<input type="checkbox"/> Nationwide Fetal Death Records 1996-2002
	<input type="checkbox"/> International Sample	<input type="checkbox"/> New York City RECOVERS
	<input type="checkbox"/> Lower Manhattan + other NYC	<input type="checkbox"/> NYC Births 1994-2004
	<input type="checkbox"/> Lower Manhattan specific samples	<input type="checkbox"/> NYC Births 1996-2002
	<input type="checkbox"/> Middle-High School Youth	<input type="checkbox"/> NYC Inner-City Charter School
	<input type="checkbox"/> Pregnant women who were present ...	<input type="checkbox"/> Pregnant Women Near WTC
	<input type="checkbox"/> Random Digit Dial	<input type="checkbox"/> Preschool Trauma Sample
	<input type="checkbox"/> Registry cohort	<input type="checkbox"/> Prevention Interventions in Hispanic and A...
	<input type="checkbox"/> Students	<input type="checkbox"/> Project Liberty
	<input type="checkbox"/> subset of a pre-existing study or prog...	<input type="checkbox"/> Project Viva
	<input type="checkbox"/> Women who gave birth at hospitals c...	<input type="checkbox"/> Quarterly Incident Birth-Outcome Data
	<input type="checkbox"/> Non-Research Articles	<input type="checkbox"/> Reach for Health
		<input type="checkbox"/> Resolving Conflict Creatively Program

Funding Opportunities

R21 – Improve Treatment Effectiveness, Diagnostic Practices, and Program Evaluation

- RFA-OH-25-001:
Exploratory/Developmental Research on Evidence-based Strategies to Improve Treatment Effectiveness, Diagnostic Practices, and Program Evaluation

R21 – Lifestyle Medicine

- RFA-OH-24-002:
Exploratory/Developmental Grants on Lifestyle Medicine Research Related to the World Trade Center Health Program

R21 – WTC Survivors Only

- RFA-OH-24-003:
Exploratory/Developmental Grants Related to the World Trade Center Survivors

K01 – Mentored Research

- RFA-OH-24-004:
World Trade Center Health Program Mentored Research Scientist Career Development Award

Application deadline (R21 and K01 grants): October 29, 2024

Letter of Intent due September 27, 2024

Funding Opportunities

Forecasted for 2026

U01 – Research Cooperative Agreement

Assessment and Evaluation of Emerging Health Conditions Relevant to the World Trade Center Health Program

Summary of 2024 Research Awards

Research Grants (U01)

- Cancer Risk and Mortality in WTC **Survivors**
- **Cardiovascular Disease** among WTC-exposed Rescue/Recovery Workers
- Aerodigestive Disease in the World Trade Center Exposed FDNY Cohort: **Biomarker Validation**
- **Clinician-Supported** Mobile App to Reduce Mental Health Symptoms among WTC Responders
- **Enhancing Surveillance** Spirometry of At-Risk Occupationally Exposed Populations
- WTC Airborne Particulate and Climate Change as Risk Factors of **Late-Onset Alzheimer's**

Lifestyle Development Grants

- Promoting Healthy Aging and Improving **Medication Use** in WTC General Responders
- Comprehensive **Self-Management Support** for WTC Responders with Asthma
- Brief **Motivational Intervention** to Increase Physical Activity for WTC Cancer Survivors

Research Updates Solicitation Timeline



Upcoming Research Events

October 10

Webinar: An Assessment of Healthcare Access and Access Utilization in the World Trade Center Health Program

November 13

2024 Semiannual Meeting at NYU
Langone Murphy Auditorium

2025 Semiannual Meetings

- June 11, 2025
- November 12, 2025



9.11

Update on Research Consenting Among WTC Health Program Members



9.11

Member Consent to Participate in Research

- Prior consent is required for participation in research
- CCEs have been obtaining consent from members since pre-Zadroga programs
- Recently initiated for NPN and William Street Clinic (WSC) members
 - General Responder DC responsible for consenting NPN responders
 - Survivor DC responsible for consenting NPN survivors and WSC members
- Promoted in 2021 Member Newsletter and on the Program's website (https://www.cdc.gov/wtc/newsNPNResponders_20240208.html)

Consent Status among Survivor Members

Cohort	Total members (living and dead)	Consented for data aggregation/linkage research studies	Consented to be contacted by external researchers
H+H*	17,290	10,855 (63%)	7,084 (41%)
NPN†	17,657	658 (4%)	455 (3%)
William Street Clinic (WSC)§	8,787	3,070 (35%)	2,313 (26%)
Total	43,734	14,583 (33%)	9,852 (23%)

* Data as of July 31, 2024. Consents administered by H+H CCE

† Consenting of NPN survivors hasn't commenced but is planned to occur in Autumn 2024. This consenting will be conducted by the Survivor Data Center (SDC). NPN counts shown represent members consented while previously assigned to H+H or WSC

§ Consenting of WSC members commenced in February 2023 and is being conducted by SDC

Consent Status among Responder Members

Cohort	Total members (living and dead)	Consented for data aggregation/linkage research studies	Consented to be contacted by external researchers
FDNY*	15,337	14,556 (95%)	7,543 (49%)
General Responder Cohort (GRC)*	47,727	43,900 (92%)	30,128 (63%)
NPN†	16,534	3,545 (21%)	2,223 (13%)
Total	79,598	62,001 (78%)	39,894 (50%)

*Data as of December 31, 2023. Consents obtained by CCEs

† Consenting of NPN responder members commenced in February 2024 and is conducted by GRDC
 Note that of the 3,545 NPN responders who consented, 3,347 (94%) previously consented while assigned to a GRC CCE. Data as of August 30, 2024.