

National Firefighter Registry for Cancer: *Progress Report for NFR Subcommittee*

National Firefighter Registry Subcommittee
June 13, 2023

Kenny Fent, PhD, CIH

National Firefighter Registry (NFR) for Cancer

National Institute for Occupational Safety and Health (NIOSH)



**NATIONAL
FIREFIGHTER
REGISTRY**
Understanding &
Reducing Cancer

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

Outline

- Introduction of NFR team
- Current events
- Goals and objectives
- Progress over the last year
- Nationwide launch
- Current registration numbers
- Future work



The NFR Science Team

Lead epidemiologist: Miriam Siegel, DrPH

Health scientist: Alex Mayer, MPH

Health scientist: Andrea Wilkinson, MS

Health communications: Jennifer Tyrawski, PhD (split with DFSE)

Health communications: Greg Hartle (split with FRB)

Public health advisor: Jasmine Nelson (split with FRB)

Fire service SME: Rob Saunders (split with FFFIPP)

Ind. hygienist/Epidemiologist (support): Catherine Beaucham, PhD (split with HETAB)

Engineer (support): Barb Alexander, PhD (split with EPHB)

Data scientist (support): Karl Sieber, PhD (split with HIB)





Other Support

NIOSH OD Information Technology – helped build the enrollment web portal

NIOSH OD Communications – helped with press release, news interviews, and social media posts

RTI International (Contractor) – developed communication materials (e.g., videos, fact sheets, tip sheets, palm cards, exhibit booths)

Fire Service SME Contractors – helped disseminate information to fire service partners

Current events in the fire service

- Heightened concerns among firefighters responding to major events
 - East Palestine, Ohio train derailment and fire
 - Richmond, Indiana plastics recycling fire
 - Wildland-urban interface fires
- Per- and polyfluoroalkyl substances (PFAS)
 - Aqueous film-forming foams (AFFF)
 - PFAS in turnout gear
- Lithium ion battery fires
 - Numerous fires in New York city over last few years

Cancer risk

IARC MONOGRAPHS VOL. 132: OCCUPATIONAL EXPOSURE AS A FIREFIGHTER

Occupational exposure as a firefighter is **carcinogenic to humans (Group 1)** on the basis of **sufficient evidence for cancer in humans**



The *IARC Monographs* classification indicates the level of certainty that an agent can cause cancer (*hazard identification*)



Cancer types with **sufficient evidence** for cancer in humans:



Cancer types with **limited evidence** for cancer in humans:



Strong mechanistic evidence in exposed firefighters



Exposures of firefighters include combustion products, diesel exhaust, building materials, asbestos, chemicals, shift work, ultraviolet radiation



Firefighters respond to various types of fire



Structure



Wildland



Vehicle

Knowledge gaps

- What is the cancer risk for volunteer firefighters?
- What is the cancer risk for the sub-specialties of the fire service?
- How does the cancer risk vary for demographic groups?
- How does firefighters' cancer risk vary regionally?
- How prevalent are rare forms of cancer among firefighters?
- How does the cancer risk change with increasing exposures, including from major events?
- What other occupational and non-occupational risk factors contribute to cancer risk among firefighters?
- Are there other chronic illnesses that are elevated in firefighters?



National Firefighter Registry (NFR) for Cancer

One Hundred Fifteenth Congress
of the
United States of America

AT THE SECOND SESSION

*Begun and held at the City of Washington on Wednesday,
the third day of January, two thousand and eighteen*

An Act

To require the Secretary of Health and Human Services to develop a voluntary registry to collect data on cancer incidence among firefighters.

*Be it enacted by the Senate and House of Representatives of
the United States of America in Congress assembled,*

SECTION 1. SHORT TITLE.

This Act may be cited as the Firefighter Cancer Registry Act of 2018.

SEC. 2. VOLUNTARY REGISTRY FOR FIREFIGHTER CANCER INCIDENCE.

(a) IN GENERAL.—The Secretary of Health and Human Services

Firefighter Cancer Registry Act of 2018:
CDC/NIOSH “to develop and maintain... a voluntary registry of firefighters to collect relevant health and occupational information... for purposes of determining cancer incidence.”



**NATIONAL
FIREFIGHTER
REGISTRY**

Understanding &
Reducing Cancer

National Firefighter Registry (NFR) for Cancer

Mission: To generate detailed knowledge about cancer in the fire service through a voluntary registry that reflects our nation's diverse firefighters.

Vision: To equip the fire service and public health communities with the knowledge they need to reduce cancer in firefighters.

Goal: Enroll 200,000 firefighters

Specific aims:

1. **Collect self-reported information** on workplace & personal characteristics through web portal
2. **Obtain records from fire departments or agencies** to track trends and patterns of exposure
3. **Link with health information databases** including population-based cancer registries and the National Death Index to detect cancers and deaths



**NATIONAL
FIREFIGHTER
REGISTRY**
Understanding &
Reducing Cancer

Progress over the last year

- Made finishing touches to the enrollment questionnaire (see updated protocol on the [NFRS webpage](#))
- Finalized the Assurance of Confidentiality
- Updated our website: www.cdc.gov/NFR
- Obtained written support from several fire service organizations
- Performed user acceptance testing for the NFR web portal: <https://NFR.cdc.gov>
- Conducted soft rollout of the web portal at 7 fire departments
- Created and staffed NFR Help Desk
- Launched the NFR nationally
- Rolled out our comprehensive communications plan

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- Launched the NFR nationally
- Rolled out our comprehensive communications plan ← Discussed later

Cancer and Other Illnesses

Exposure and Other Hazards

National Firefighter Registry

About the NFR

How the NFR Works

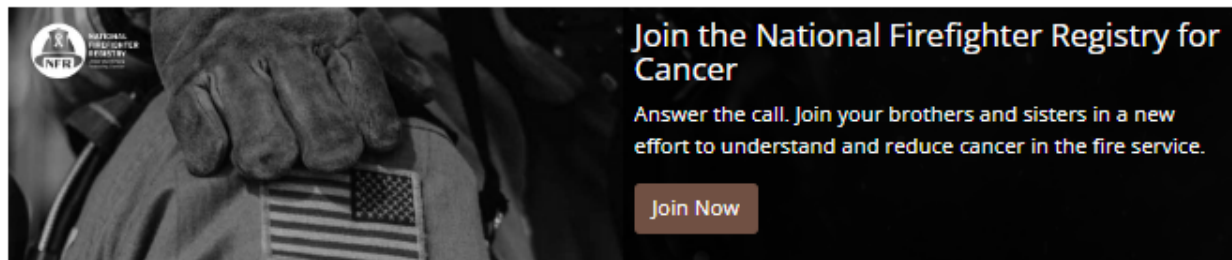
Frequently Asked Questions About Participating in the NFR

Communication Materials

National Firefighter Registry (NFR) for Cancer

[Print](#)

Understanding and Reducing Cancer



Join the National Firefighter Registry for Cancer

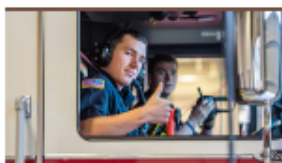
Answer the call. Join your brothers and sisters in a new effort to understand and reduce cancer in the fire service.

[Join Now](#)



About the NFR

Read an overview of how the NFR will help to protect the health of firefighters.



How the NFR Works

Learn how the NFR helps us understand links between firefighting and cancer.



Frequently Asked Questions

Find answers to your questions about participating in the NFR.



Videos and Communication Materials

Explore resources to share information about the NFR with your fire service network.

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[Personal Protective Equipment](#)

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NFR Newsletter

Read the latest edition or sign up to receive the quarterly NFR newsletter

Supporting Organizations

List of organizations who support the mission of the NFR

Publications & Reports

Read the latest publications about firefighters' exposure and cancer risk

www.cdc.gov/NFR

- Join now – link to web portal
- Topic pages: About the NFR, How the NFR works, and FAQs
- Videos and communication materials
- NFR Newsletter
- Publications
- Supporting organizations

Written support

As of May 2023

The National Institute for Occupational Safety and Health (NIOSH)

Firefighter Resources

🏠 Firefighter Resources

Cancer and Other Illnesses

Exposure and Other Hazards

National Firefighter Registry +

Promoting productive workplaces
through safety and health research 

Supporting Organizations

[Print](#)

This mission of the National Firefighter Registry (NFR) for Cancer is to generate detailed knowledge about cancer in the fire service through a voluntary registry that reflects our nation's diverse firefighters. The following organizations have provided official support for the mission of the NFR.

Written support:

- International Association of Fire Fighters (IAFF): [IAFF Letter of Support](#) 
- National Volunteer Fire Council (NVFC): [NVFC Position Statement Supporting the National Firefighter Registry](#)  
- Urban Fire Forum of the Metropolitan Fire Chiefs: [2022 Urban Fire Forum Position Statement – Support for the National Firefighter Registry](#) 
- National Fallen Firefighters Foundation (NFFF): [NFFF Letter of Support](#) 
- North American Fire Training Directors (NAFTD): [NAFTD Letter of Support](#)  
- Fire Department Safety Officers Association (FDSOA): [FDSOA Support for the National Firefighter Registry \(NFR\)](#)  
- Firefighter Cancer Support Network (FCSN): [FCSN Letter of Support](#) 
- Underwriters Laboratories (UL), Fire Safety Research Institute (FSRI): [FSRI Letter of Support](#) 
- National Association of Hispanic Firefighters (NAHFF): [NAHFF December 2022 President's Report](#) 
- International Association of Wildland Fire (IAWF): [IAWF Letter of Support](#) 
- International Association of Arson Investigators (IAAI): [IAAI Position Statement](#) 

Financial support:



U.S. Fire Administration
Working for a fire-safe America

Naming these organizations does not constitute an endorsement by NIOSH, the Centers for Disease Control and Prevention, or the U.S. Government

Related Topics

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User testing and soft rollout

- End of 2022 – conducted internal user testing, data validation, and fine-tuning of the web portal
- Start of 2023 – pushed web portal to production and conducted soft rollout with firefighters at 7 fire departments:
 1. Loveland-Symmes FD, Ohio
 2. Independence Fire District, Kentucky
 3. Tucson FD, Arizona
 4. Pike Township FD, Indiana
 5. Fairfax County Fire & Rescue, Virginia
 6. Howard County Fire & Rescue, Maryland
 7. Hanover Park FD, Illinois



Kenny Fent hands a thank you plaque to Executive Officer Bruck Hawk at Loveland-Symmes Fire Department

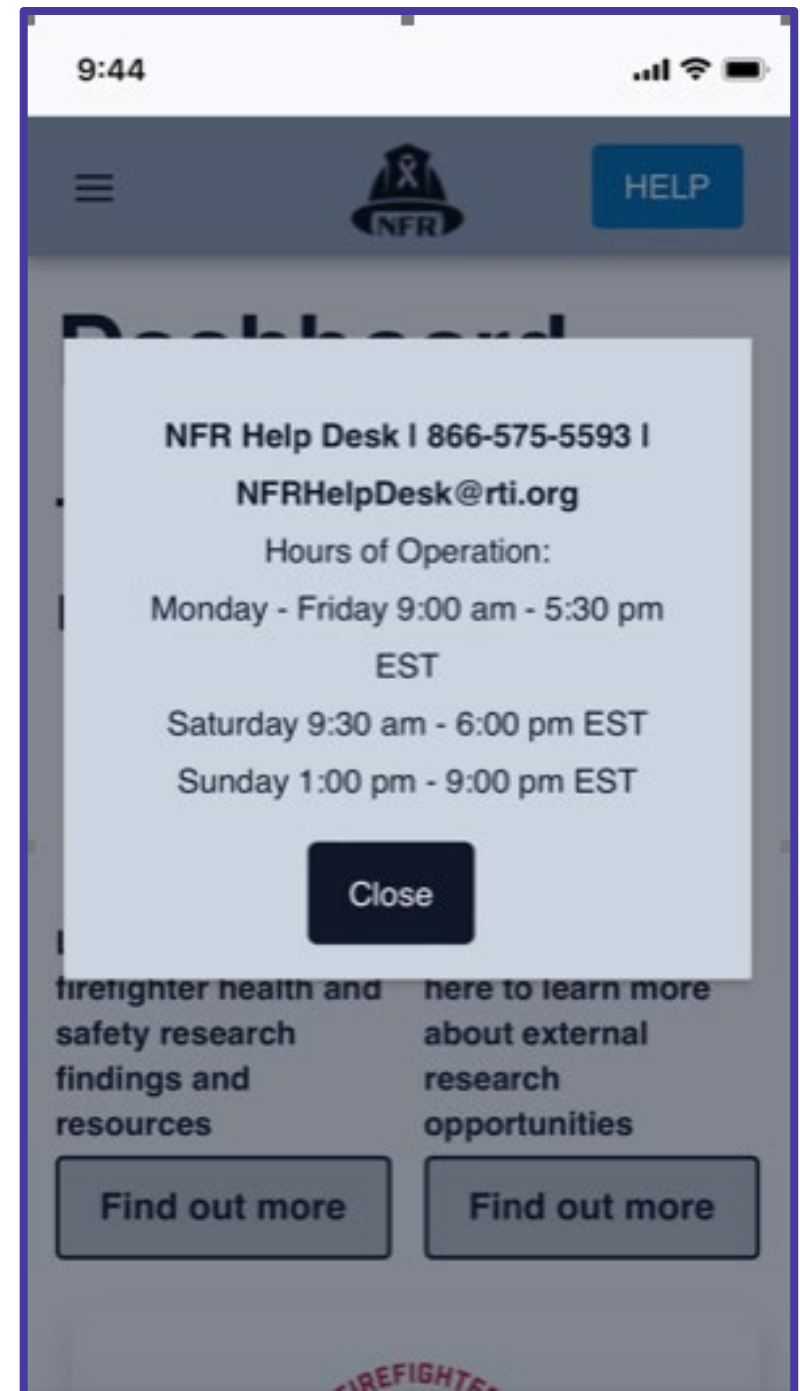
Final updates to the web portal

- **Obtained feedback from firefighters during soft rollout and from select firefighters who enrolled at the Fire Department Safety Officers Association (FDSOA) Conference in Florida in January**
- **Implemented final changes and pushed that version to production in April 2023**
- **Notified fire service partners through our Newsletter on April 13**
- **Press release and social media campaign on April 17**
- **Big announcement at the Fire Department Instructors Conference (FDIC) on April 27**

NFR help desk

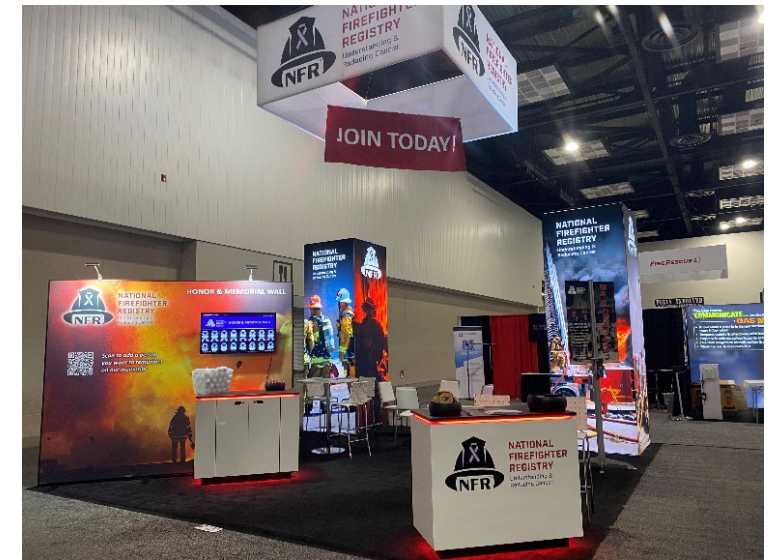
- Staffed through contract
- Ticketing process for resolving technical issues
- Response within 24 hours

- NFR web portal contains enrollment tip sheet ([discussed later](#))



NFR announcement at FDIC 2023

- Opening ceremony on Thursday April 27
- Attended by thousands in-person and thousands virtually
- Kenny Fent joined on stage by representatives at IAFF, FCSN, NFFF, and FDIC
- Exhibit booth open on Thursday – Saturday
 - Collected >350 emails
 - Distributed >1500 printed materials and >3500 branded items
 - > 2000 people accessed the web portal during the week of FDIC



IAFF = International Association of Fire Fighters, FCSN = Firefighter Cancer Support Network, NFFF = National Fallen Firefighters Foundation, FDIC = Fire Department Instructors Conference

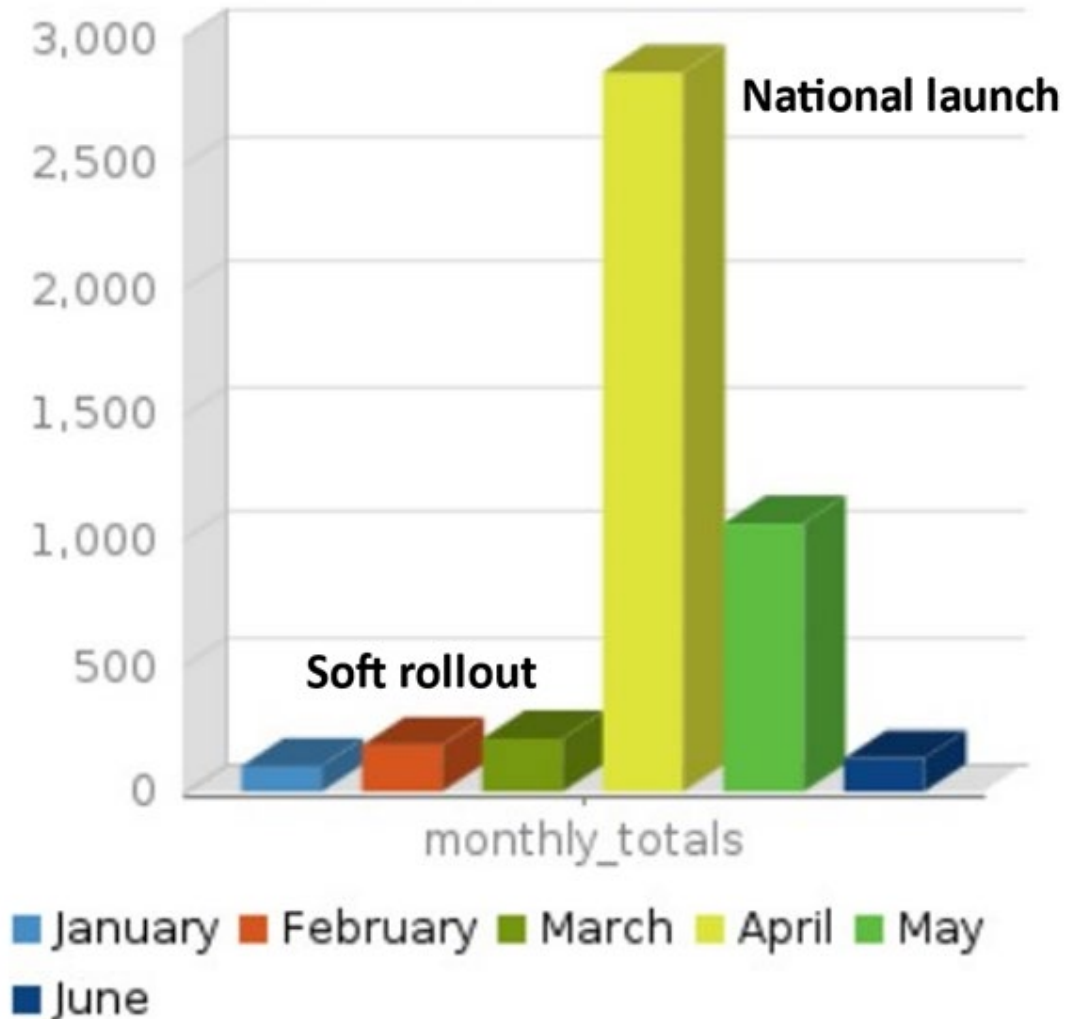
Current registration numbers (as of June 7, 2023)

>5,200 consented

>3,650 completed enrollment questionnaire

Goal: Enroll $\geq 200,000$ firefighters

NFR Participants Enrolled by Month



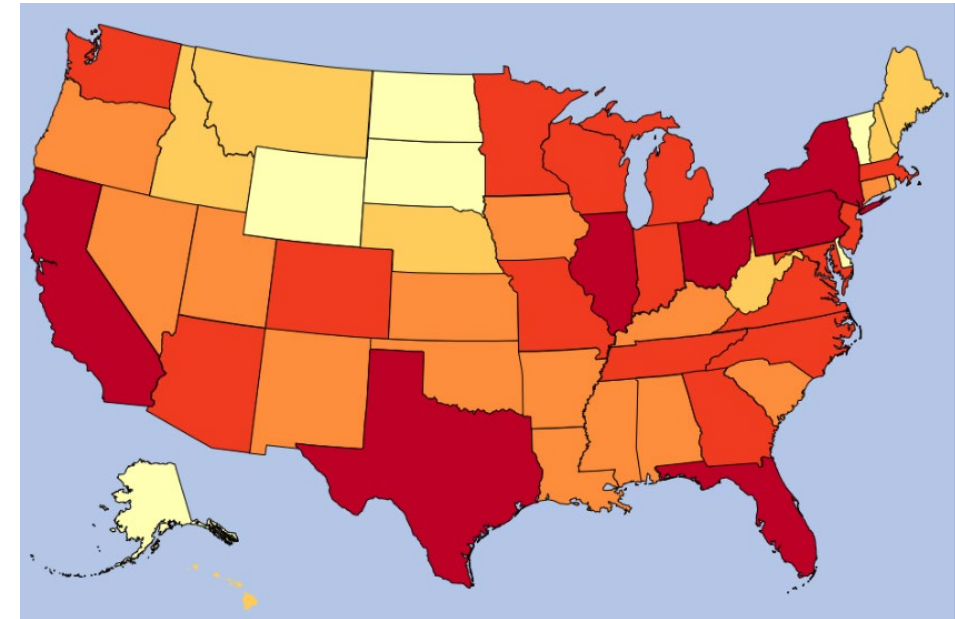
Future work

- Targeted enrollment (**discussed later**)
- Messaging and marketing (**discussed later**)
- Follow-up questionnaires (**discussed later**)
- Dashboards with data visualizations
 - Personal and public
- Data ingestion
 - Incident records
 - Exposure tracking data
- Data linkages
 - Population-based cancer registries
 - National Death Index
- Collaborations with other researchers
- Data sharing
 - Research data centers



Future work: Dashboard – data viz

- Acquire data science/engineering support
- Provide near real-time figures and plots
 - Only aggregated data to maintain privacy
- Show distribution of participation by:
 - Status (e.g., career, volunteer, active, retired/former)
 - Geographic region
 - Number of years working
 - Demographics (e.g., age, sex, race/ethnicity)



Example of what a heat map showing participation rates might look like

Future work: Incident and exposure records

- **Begin with fire departments (from targeted enrollment?)**
 - Records management system (RMS) vendors
- **U.S. Fire Administration (National Fire Incident Reporting System - NFIRS)**
 - Being replaced: National Emergency Reporting Incident System (NERIS)
- **Exposure tracking applications (self-reported exposure data)**
 - Develop process to ingest data and match to NFR participants

Future work: Health outcome linkages

- North American Association of Central Cancer Registries (NAACCR)
 - Virtual Pooled Registry
 - Facilitated access to the majority of the state cancer registries
 - Begin process of submitting applications, piloting linkages
 - Data quality analyses

VIRTUAL POOLED REGISTRY CANCER LINKAGE SYSTEM (VPR-CLS)

The Virtual Pooled Registry Cancer Linkage System (VPR-CLS) is a one-stop-shop designed to efficiently connect researchers with multiple cancer registries, thereby increasing access to, linkage with, and use of this valuable source of cancer surveillance information. The project is coordinated by the North American Association of Central Cancer Registries (NAACCR) and funded by the National Cancer Institute (NCI). The VPR-CLS is currently in the development and testing phase and is progressing with input from national partners, researchers, and central registry staff.

Future work: Data sharing

- **National Center for Health Statistics: Research Data Centers (RDC)**
 - Begin legwork to establish RDC
 - Formalize protocol for sharing data
 - Consistent with Assurance of Confidentiality
 - Information security review and approval

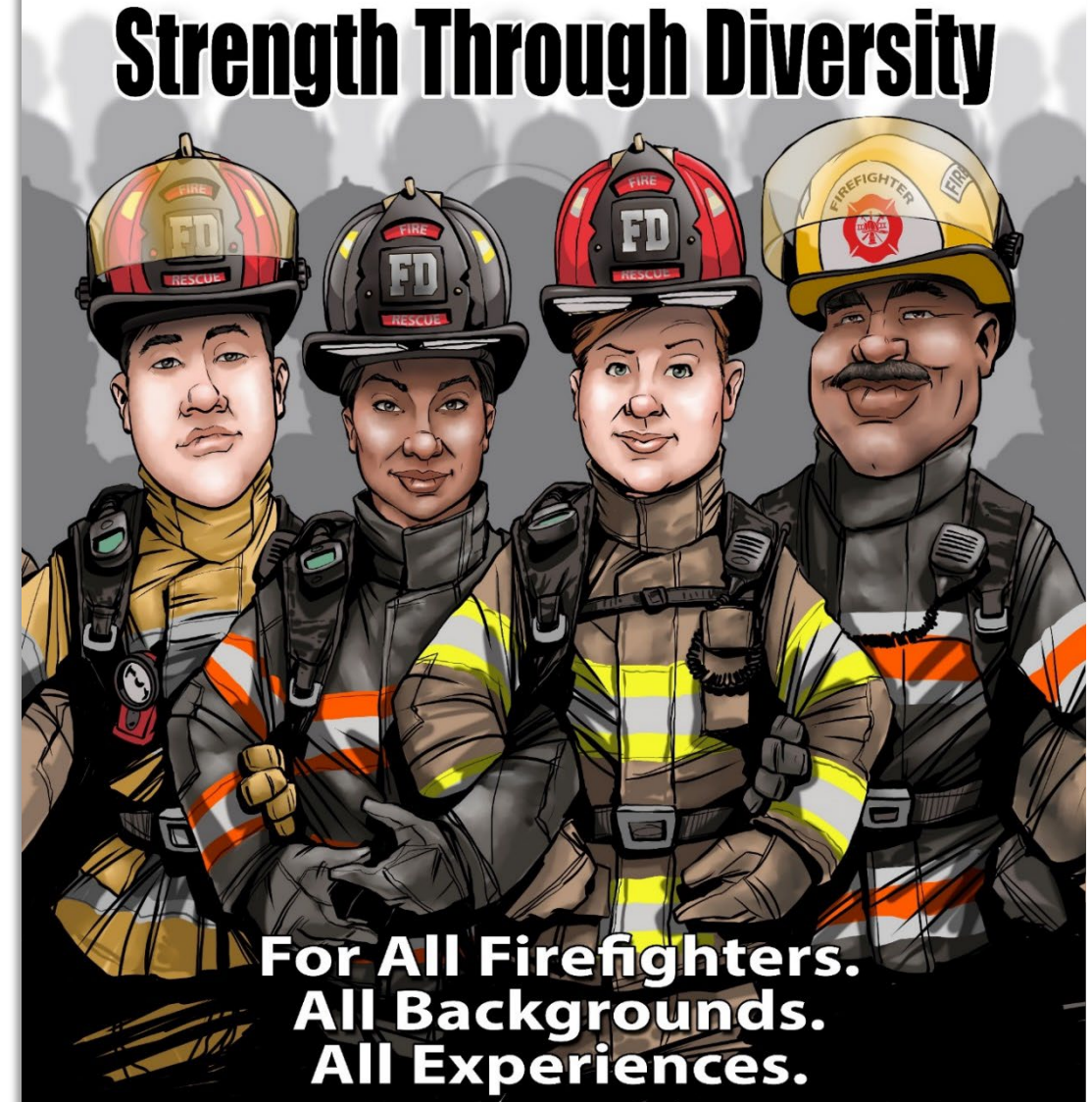


Future work: Collaborations

- Increase impact via collaborations with external researchers
- Leverage existing relationships
- Expand recruiting
- Build upon existing data (e.g., biomarkers of exposure/effect)
- Provide long-term cancer tracking



Thank you!



Learn More About the
National Firefighter Registry at
www.cdc.gov/NFR



October, 2021



Targeted Enrollment Plans

MIRIAM SIEGEL AND ALEX MAYER

NFR Enrollment Strategies (Recap)

Open enrollment (non-probability sample)

- Any current/former/retired firefighter
- Beneficial for diverse sample; but may not be generalizable

Targeted enrollment (prospective cohort)

- Sampling design to recruit active FFs from selected fire depts/states
 - Focused enrollment of women, minorities, volunteers
- Access fire department records

TARGETED COHORT

Current firefighters from selected fire depts or state agency databases

Process repeated every ~2-3 years for updated incidents & recruiting new FFs since last date records were shared

Rosters for all **current** fire personnel sent to NIOSH

Incident records sent to NIOSH if available (incident records dating back to 2010, preferably earlier)

FFs have already enrolled in NFR through web portal

NIOSH actively recruits individual FFs

Individual FFs consent & enroll through web portal

Individual FFs do **not** consent / do **not** respond

OPEN COHORT

Any current/former members of the U.S. fire service

Individual FFs consent & enroll through web portal

NIOSH periodically links participant information with:

- State cancer registries
- National Death Index/Social Security Admin Death Master File

NIOSH administers periodic web portal follow-up questionnaires

NIOSH sends periodic continued engagement communications

NIOSH solicits department employment records for participants (when applicable)

NIOSH links with exposure tracking/external study data for participants (when applicable)

NIOSH does **not** use individual FFs' information in NFR analyses

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Original Design

- Active roster info:
 - Name, fire dept, email address, phone number, residential address
 - Note: revised by NIOSH legal; affects ability to calculate stratified participation rates without demographic variables
- Track participation rates on an individual-level; roster-NFR linkages



**Feedback
from
Departments**

- **Hesitancy or inability to share roster records (some or all variables)**
 - Privacy and legal concerns for many depts
 - Depend on culture and geographic location of dept
 - Require heavy proactive messaging & education to/from dept leadership
 - Likewise for incident/employment records
- **Preference for having leadership disseminate invitations**
 - Belief that participation would be higher if messaging from dept
 - Emails from NIOSH might be distrusted or disregarded

Alternative Design

Develop recruitment procedure for dept leadership

- With initial & follow-up emails to send to their own rosters

Obtain workforce count (i.e., denominator) from dept

- Request demographic denominators for stratified participation rates

NIOSH *estimate* participation rates using reported affiliations in NFR

- Feedback loop to dept to facilitate reminders to enroll

Request incident/employment records via original design (if feasible?)

Original Design: **Pros**

Consistent method of recruitment

Most accurate way to monitor participation rates, including over time

Depts more likely to provide incident/employment records (maybe?)

Original Design: **Cons**

More time & resource intensive

Limits/biases depts that will participate

Skepticism from dept/union leadership and/or workforce

Potential issues with roster-NFR linkages

Alternative Design: **Pros**

Less time & resource intensive

More depts can participate

Depts play a more active role; dept leadership has more trust – possibly better participation

Alternative Design: **Cons**

Less control over recruitment methods (assertiveness, info quality)

Less rigorous participation rate tracking, especially over time

Difficulty obtaining incident/employment records

Complicated state recruitment/tracking

Original Design

Pros

- Consistent method of recruitment
- Most accurate way to monitor participation rates, including over time
- Depts more likely to provide incident/employment records (maybe?)

Cons

- More time & resource intensive
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Cons

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- Less rigorous participation rate tracking, especially over time
- Difficulty obtaining incident/employment records
- Complicated state recruitment/tracking

Committee's thoughts?

Other alternative methods?

Marketing and Messaging

Kenneth Fent, PhD, CIH

Key personnel

Health communications specialists at NIOSH

- Jennifer Tyrawski
- Greg Hartle
- Jasmine Nelson (public health advisor)

Communications contract: RTI International

- Video and graphic designers
- Communication specialists
- Social media specialists
- Exhibit booth managers

Newsletter (April 13)

National Firefighter Registry (NFR) for Cancer Quarterly Newsletter (Spring 2023)

[Print](#)

[Download this page](#)

Spring 2023

A Message from the National Firefighter Registry Team Lead



Greetings from NIOSH,

I am excited to announce the [National Firefighter Registry \(NFR\) enrollment portal](#) is now live! Over the past several months, we have been enrolling firefighters at select departments across the country in a soft launch. The soft launch allowed us to test the enrollment portal and make refinements. Thank you to all the departments and firefighters that participated in the soft launch.

We are now ready to invite all U.S. firefighters to enroll in the NFR. We will begin promoting the nationwide launch of the NFR enrollment portal next week, starting April 17. Please join us in spreading the word at that time. We have new [communication materials](#) you can share, and the [NFR Promotion Kit](#) outlines five steps you can take to help share the NFR with firefighters across the nation. On Wednesday, May 10 at 1:00 PM (ET), we will host a call with interested partners to discuss how to promote the NFR. If you'd like to attend, please register [here](#).


We will make our first in-person announcement about launching NFR enrollment nationwide at FDIC International's Opening Ceremony on April 27. If you are attending the conference, please join us at the Opening Ceremony or our exhibit booth (#543). At the exhibit booth, our team members will be available to discuss enrollment, share materials, and answer questions.

Please read below to learn more about our recent activities and next steps as we launch the NFR enrollment portal nationwide. We're excited firefighters can now



The NFR is live!

[Enroll Today!](#)

 [Subscribe to NFR Quarterly Newsletter](#)

Please enter your email address to receive the National Firefighter Registry Quarterly Newsletter.

[What's this?](#)

[Submit](#)

In This Issue:

- [Welcome](#)
- [NFR Soft Launch Enrollments](#)
- [Conferences and Presentations](#)
- [New Communication Materials](#)
- [What's Next for the NFR?](#)

Press release (April 17)

NIOSH Launches the National Firefighter Registry for Cancer to Understand and Reduce Cancer in the Fire Service

All U.S. Firefighters are encouraged to join

[Print](#)

Press Release

For Immediate Release: Monday, April 17, 2023

Contact: [Media Relations](#)
(404) 639-3286

The Centers for Disease Control and Prevention (CDC), through its National Institute for Occupational Safety and Health (NIOSH), are pleased to launch the [National Firefighter Registry for Cancer](#) online enrollment system for firefighters across the nation. The NFR for cancer is the largest effort undertaken by the nation to support and advance understanding of cancer in the fire service. President Biden has shown strong and enduring support for firefighters for decades and this step will help deliver on his commitment to end cancer as we know it as part of the [Cancer Moonshot](#) [↗](#).

Numerous studies show that firefighters' exposure on the fireground, where smoke and hazardous chemicals are released from burning materials, may increase the risk of certain types of cancer. President Biden has signed two laws that seek specifically to advance firefighter health, safety, and protection from toxic exposures on the job. The National Firefighter Registry (NFR) for Cancer will contribute to these broader efforts by helping scientists better understand the link between cancer and firefighting to ultimately improve firefighter health. The NFR will capture details about firefighters' work and match it with cancer information from state cancer registries.

While participation is voluntary, all U.S. firefighters, with or without cancer, are encouraged to join the NFR for Cancer; these include:

- active and retired firefighters
- career, paid-on-call, and volunteer firefighters
- structural firefighters
- wildland firefighters
- instructors
- fire investigators
- other members of the fire service

Visit [NFR.CDC.GOV](#) to complete the NFR survey through the secure website. Enrollment takes about 30 minutes to complete. You will:

NIOSH e-News (May 1)



Received this email from a friend? Subscribe to [NIOSH eNews](#) updates.

From the Director's Desk

John Howard, M.D., Director, NIOSH

Join the National Firefighter Registry for Cancer Today!

NIOSH is pleased to announce the launch of the long-awaited [National Firefighter Registry \(NFR\) for Cancer](#).

The NFR is a voluntary registry of U.S. firefighters. It was developed by NIOSH to understand and reduce cancer among firefighters. All firefighters—career or volunteer, active or retired, with or without cancer—can join.

With the support of fire service organizations and leaders, NIOSH hopes to enroll at least 200,000 firefighters from



Firefighter Photo by NIOSH

the numerous and diverse backgrounds of the U.S. fire service. Achieving this goal will help NIOSH better understand cancer risk among firefighters across the country, including those who have been under-represented in previous studies.

NIOSH Director John Howard (left) shaking hands with fire service leaders (right) at the launch of the NFR for Cancer. Photo by NIOSH.

About the NFR

How the NFR Works

Frequently Asked Questions About Participating in the NFR

Communication Materials

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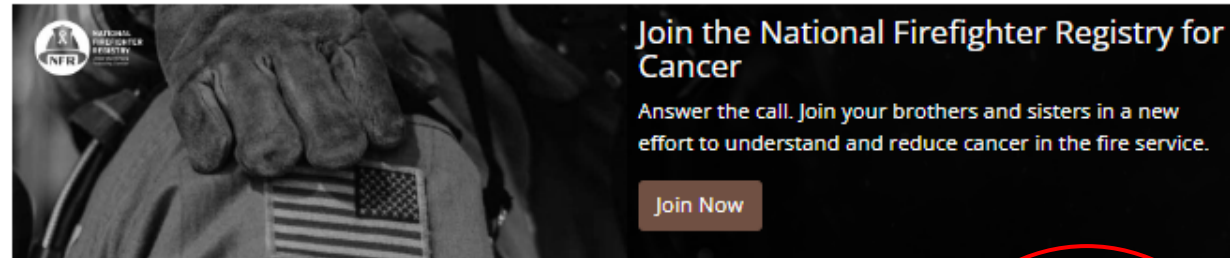
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National Firefighter Registry (NFR) for Cancer

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Understanding and Reducing Cancer



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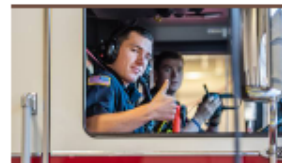
Answer the call. Join your brothers and sisters in a new effort to understand and reduce cancer in the fire service.

[Join Now](#)



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Videos and Communication Materials

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Read the latest edition or sign up to receive the quarterly NFR newsletter

Supporting Organizations

List of organizations who support the mission of the NFR

Publications & Reports

Read the latest publications about firefighters' exposure and cancer risk



The National Institute for Occupational Safety and Health (NIOSH)

Firefighter Resources > National Firefighter Registry

🏠 Firefighter Resources

Cancer and Other Illnesses

Exposure and Other Hazards

National Firefighter Registry

About the NFR

How the NFR Works

Frequently Asked Questions About Participating in the NFR

Communication Materials

Promoting productive workplaces through safety and health research



Communication Materials – National Firefighter Registry (NFR) for Cancer

[Print](#)

With your participation in the NFR, we can leave the fire service better than we found it. You can help make sure everyone in the fire service is represented by sharing the materials below with your network.



Related Topics

[Fighting Wildfires](#)

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NFR Promotion Kit

This kit is designed to help fire service leaders and organizations share the NFR with firefighters across the nation. Learn ~~how you can share the NFR~~ in five steps.

[Download NFR Promotion Kit](#) 

Videos

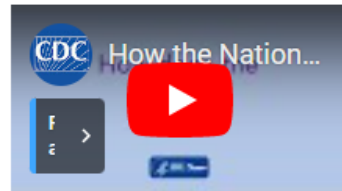
Informational Videos



What is the National Firefighter Registry?

Get an overview of how the NFR will protect the health of firefighters.

[Watch video](#)



How Does the National Firefighter Registry Work?

Learn how the NFR will help researchers investigate the link between firefighting and cancer.

[Watch video](#)

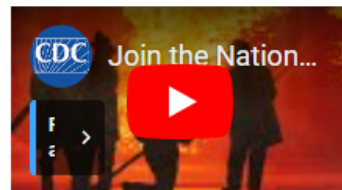


How Will the National Firefighter Registry Protect My Data?

Learn how the NFR will protect your data.

[Watch video](#)

Testimonial Videos



Join the National Firefighter Registry

Hear fire service members share why joining the NFR is important.

[Watch video](#)

NATIONAL FIREFIGHTER REGISTRY (NFR) PROMOTION KIT

This kit is designed to help fire service leaders and organizations share the NFR with firefighters across the nation.

Why get involved with the NFR?

The NFR is the only national database that monitors cancer in U.S. firefighters and will make it possible to investigate the link between firefighting and cancer. By sharing information about the NFR with your network, you play an integral role in helping enroll as many firefighters as possible.

How can I help spread the word?

Use the resources in this Promotion Kit to share the NFR in person **or** digitally with your colleagues and encourage U.S. firefighters to sign up. This kit includes talking points, social media posts, email language, and links to posters and other NFR materials.

SHARE THE NFR IN 5 STEPS:

1. USE TALKING POINTS AND DOWNLOADABLE MATERIALS FROM THE [NFR WEBSITE](#)

Talking Points

- The National Firefighter Registry is the largest existing effort to understand and reduce cancer risk among firefighters.
- All firefighters – paid or volunteer, active or retired, with or without cancer, and no matter their length of service – can join the National Firefighter Registry. Participation is voluntary.
- By joining the National Firefighter Registry, you can help protect your brothers and sisters in the fire service from developing cancer and pave the way for new health and safety measures to keep the next generation of firefighters safe.

Posters [DOWNLOAD »](#)

- Print NFR posters for your fire stations, offices, or conferences.

Videos [DOWNLOAD »](#)

- Share videos and testimonials to help firefighters learn more.

Roll Call Announcement [DOWNLOAD »](#)

- Introduce the NFR to your fire department or fire service team.

Enrollment Tip Sheet [DOWNLOAD »](#)

- Follow this step-by-step guide to help firefighters join the registry.

Palm Cards [DOWNLOAD »](#)

- Hand out this 4 x 9" card at conferences and events.

SHARE LINK TO JOIN THE NFR
[NFR.CDC.GOV](https://www.cdc.gov/nfr)

FOLLOW NIOSH ON SOCIAL MEDIA
FOR THE LATEST NFR UPDATES



@NIOASH



@NIOSHusa



@NIOASH



@National Institute
for Occupational
Safety and Health

NATIONAL FIREFIGHTER REGISTRY

2. POST ON SOCIAL MEDIA

Share the draft social media posts and images below on Facebook, Instagram, LinkedIn, and Twitter. Use #NationalFirefighterRegistry on Twitter and tag NIOSH social media accounts on the previous page at your discretion.

Post 1

[Insert your organization's name here] is excited to share the National Firefighter Registry, a new effort to understand and reduce cancer in firefighters. Together, we can have a lasting impact on the fire service. Join today at [NFR.cdc.gov](https://www.nfr.cdc.gov)

Post 3

Firefighters, answer the call. The National Firefighter Registry is now open!

The more firefighters that join the NFR, the more questions we can answer about the link between firefighting and cancer. Join today at [NFR.cdc.gov](https://www.nfr.cdc.gov)

Post 2

The National Firefighter Registry is now open! We need all U.S. firefighters – paid or volunteer, active or retired, with or without cancer – to join.

NIOSH will use the registry to understand and reduce cancer risk in the fire service. Join today at [NFR.cdc.gov](https://www.nfr.cdc.gov)

Facebook/Instagram

[DOWNLOAD »](#)



Twitter/LinkedIn

[TWITTER DOWNLOAD »](#)

[LINKEDIN DOWNLOAD »](#)



3. SEND AN EMAIL OR E-NEWSLETTER

Share the NFR with your listservs.

Subject: Stand Together, Join the National Firefighter Registry

Body text:

[Insert your organization's name here] is excited to share the National Firefighter Registry (NFR), the largest existing effort to understand and reduce cancer risk among firefighters. The NFR is open to all U.S. firefighters – paid or volunteer, active or retired, with or without cancer.

Studies have shown that firefighters' exposure on the fireground may increase their risk of cancer. When you sign up for the NFR, researchers will match information you provide to cancer diagnosis information from state cancer registries. This will allow them to study the relationship between firefighting and cancer outcomes.

Answer the call. Join the NFR today at [NFR.cdc.gov](https://www.nfr.cdc.gov)

4. FEATURE THE NFR ON YOUR WEBSITE

Add this badge to your website to help visitors learn more about the NFR.

[ADD THIS BADGE »](#)



5. SHARE THE NFR QR CODE.

Share this QR code on your website or by email to help firefighters register for the NFR.

[SHARE THIS QR CODE »](#)



Centers for Disease Control
and Prevention
National Institute for Occupational
Safety and Health



NATIONAL
FIREFIGHTER
REGISTRY
Understanding &
Reducing Cancer

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[Contact NIOSH](#)

NFR Promotion Kit

This kit is designed to help fire service leaders and organizations share the NFR with firefighters across the nation. Learn how you can share the NFR in five steps.

[Download NFR Promotion Kit](#) 

Videos

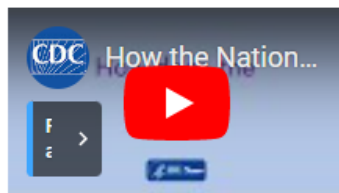
Informational Videos



What is the National Firefighter Registry?

Get an overview of how the NFR will protect the health of firefighters.

[Watch video](#)



How Does the National Firefighter Registry Work?

Learn how the NFR will help researchers investigate the link between firefighting and cancer.

[Watch video](#)

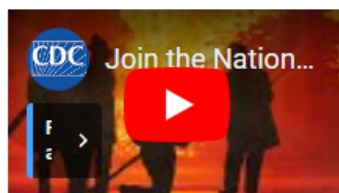


How Will the National Firefighter Registry Protect My Data?

Learn how the NFR will protect your data.

[Watch video](#)

Testimonial Videos



Join the National Firefighter Registry

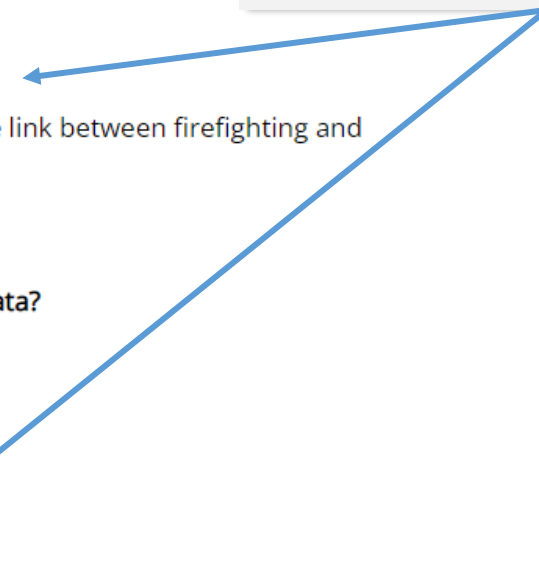
Hear fire service members share why joining the NFR is important.

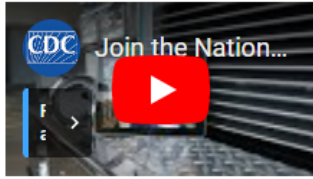
[Watch video](#)

Partners have commonly shown both videos

[Join the National Firefighter Registry – YouTube](#)

[How the National Firefighter Registry Works - YouTube](#)

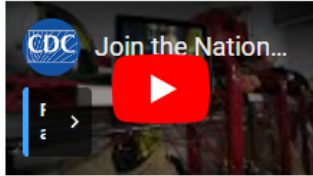




Join the National Firefighter Registry: Billy Goldfeder

Hear Billy Goldfeder share why joining the NFR is important.

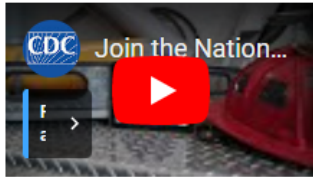
[Watch video](#)



Join the National Firefighter Registry: Bryan Frieders

Hear Bryan Frieders share why joining the NFR is important.

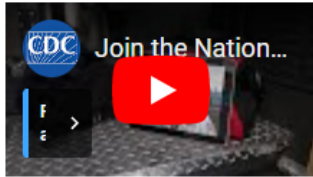
[Watch video](#)



Join the National Firefighter Registry: Jeff Pauley

Hear Jeff Pauley share why joining the NFR is important.

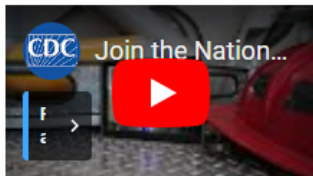
[Watch video](#)



Join the National Firefighter Registry: Judy Smith Thill

Hear Judy Smith Thill share why joining the NFR is important.

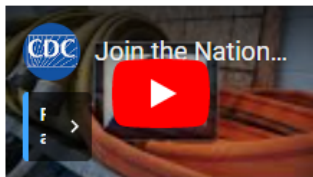
[Watch video](#)



Join the National Firefighter Registry: Manuel Fonseca

Hear Manuel Fonseca share why joining the NFR is important.

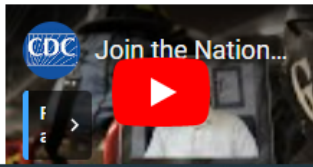
[Watch video](#)



Join the National Firefighter Registry: Regina Wilson

Hear Regina Wilson share why joining the NFR is important.

[Watch video](#)



Join the National Firefighter Registry: Rick Swan

Hear Rick Swan share why joining the NFR is important.

[Watch video](#)

Perspectives

- **Fire chief**
- **Cancer support**
- **Fire investigators**
- **Female firefighters**
- **Latino firefighters**
- **Female and non-white firefighters**
- **Wildland firefighters**

Fact Sheets



Stand Together – Join the National Firefighter Registry

This fact sheet provides information about the NFR, the largest existing effort undertaken to understand and reduce cancer among U.S. firefighters.

[Download Stand Together – Join the National Firefighter Registry](#)



How Do I Sign Up for the National Firefighter Registry?

This fact sheet provides an overview of the four steps for enrolling in the NFR and provides helpful enrollment tips.

[Download How Do I Sign Up for the National Firefighter Registry?](#)



National Firefighter Registry: Roll Call Announcement

This fact sheet provides information for fire chiefs to share about the NFR. It describes the benefits of joining, and what to expect after joining.

[Download National Firefighter Registry: Roll Call Announcement](#)

For fire leadership

the NFR,

Posters

NFR promotional posters

- [NFR Stand Together: A New Effort 1](#)
- [NFR Stand Together: A New Effort 2](#)
- [NFR Stand Together: Groundbreaking 1](#)
- [NFR Stand Together: Groundbreaking 2](#)



Posters featuring artwork by Paul Combs

- [NFR: Be the First](#)
- [NFR: Launch](#)
- [NFR: Strength Through Diversity](#)



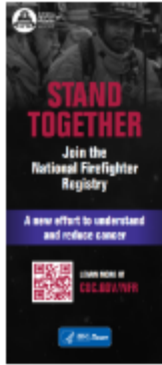
Has performed well in social media

Posters for wildland firefighters

- [NFR Stand Together: Wildland Firefighters 1](#)
- [NFR Stand Together: Wildland Firefighters 2](#)



Other Print Materials




Palm Card

These 4"x9" cards provide general information about the NFR and the benefits of joining.

[Download NFR palm card](#) 


Primarily used at conferences and meetings


Social Media Graphics

Download graphics to share the NFR on Facebook, Instagram, Twitter, and LinkedIn. Draft messages are available in the [NFR Promotion Kit](#)  .



[Download graphic for Facebook/Instagram](#) 

[Download graphic for Twitter](#) 

[Download graphic for LinkedIn](#) 

Website Graphics

Share the NFR on your website. Download a NFR Proud Supporter Badge and QR code.

Download NFR Proud Supporter Badge ([PNG](#)  , [JPG](#) )



Download QR Code ([PNG](#)  , [JPG](#) )



Working with partners

- **GOAL: Collaborate with partners to deliver messaging**
- **Held partner promotion call on May 10 – attended by >30 recognized fire service leaders**
 - Shared existing resources
 - Brainstormed with partners
 - Developed ideas for reaching different groups



Examples of existing partnerships

- **Underwriters Laboratories, Fire Safety Academy**
 - > 90,000 registered students
 - Pop-up box about the NFR presented to all students
 - Free cancer prevention course with NFR module: [UL FSRI Fire Safety Academy](#)
- **Loveland-Symmés Fire Department, Ohio**
 - Added NFR branding to Air Management trailer
 - Demonstrating this resource to 20+ fire departments in SW Ohio
 - Sharing information about the NFR (palm cards and posters)



Examples of existing partnerships

- **North American Fire Training Directors (NAFTD) state training academies**
 - Collectively train hundreds of thousands of firefighters per year
 - Several have expressed interest in sharing information about the NFR with their students
- **Social media posts and amplification**
 - Coordination with key partners
 - Posts planned over the next 12+ months



Fire Safety Research Institute @FSRI_org · Apr 26

Calling ALL firefighters to sign up for the [#NationalFirefighterRegistry](#) asap! [nfr.cdc.gov](#) @FDICEvent #FDIC2023 75% of #firefighter occupational deaths are from cancer...help make a change!



1 9 21 7,716



NatVolFireCouncil @NVFC · Apr 19

The [#NationalFirefighterRegistry](#) is now open! ALL firefighters are invited to sign up to help @NIOSH understand the link between firefighting and cancer. Join at [nfr.cdc.gov!](#)



7 7 806



Firefighter Cancer Support Network · Follow

April 27 at 1:52 PM · 🌐

We are so excited for @NIOSH to launch the #NationalFirefighterRegistry! The more firefighters that join the NFR, the more questions we can answer about the link between firefighting and cancer. Join today at [NFR.CDC.gov](https://www.nfr.cdc.gov)

Chief Operations Officer Joe Schumacher was proud to help kick off the #NationalFirefighterRegistry at #FDIC2023 this morning with Kenny Fent, Victor Stagnaro, Andy Panteli and David Rhodes.

To assist firefighters battling cancer, scan the QR code in the picture to donate today.



👍❤️ 56

1 comment 11 shares

👍 Like

💬 Comment

➦ Share



Chief David Rhodes · Follow

3d · 🌐

I encourage all firefighters to register in the National Firefighter Registry for Cancer research. This is a major initiative in understanding the relationship between firefighting and cancer.

We officially launched this in a very public way on Thursday's #FDIC2023 opening ceremonies. I was joined in stage by NIOSH, the National Fallen Firefighter Foundation, the Firefighter Cancer Support Network and the IAFF as I completed my registration.

<https://www.cdc.gov/niosh/firefighters/registry.html>



👍 46

27 shares



International Association of Fire Fighters

@IAFFofficial



.@iaffpresident urges fire fighters to join @CDCgov National Fire Fighter Registry for Cancer. #Firefighters are at an elevated risk for occupational cancer, including from chemicals in their bunker gear.



youtube.com

New firefighter registry for cancer aims to help reduce deaths
Firefighters are 9 percent more likely to develop cancer and 14 percent more likely to die from it compared to the general population.

3:09 PM · Apr 28, 2023 · 3,007 Views

12 Retweets 2 Quotes 25 Likes 1 Bookmark



National Fallen Firefighters Foundation · Follow

April 17 at 11:18 AM · 🌐



The National Firefighter Registry is now open! #FireHero

<https://www.facebook.com/100064866813748/posts/610297444475811/>



U.S. Fire Administration · Follow

April 17 at 7:39 AM · 🌐

USFA is excited to share the National Firefighter Registry, a new effort to understand and reduce cancer in firefighters. Together, we can have a lasting impact... See more

👍👍 21

8 shares

U.S.
Department
of Labor

How We're Supporting the National Firefighter Registry

Filed in Safety and Health, Worker Safety and Health • By: [Christopher J. Godfrey](#) • April 21, 2023

On Thursday, April 13, the National Institute for Occupational Safety and Health (NIOSH) announced the opening of the [National Firefighter Registry for Cancer](#) — the largest effort ever undertaken to understand and reduce risk of cancer among U.S. firefighters.

Each year, the U.S. Department of Labor's Office of Workers' Compensation Programs (OWCP) receives about 2,600 claims from federal firefighters injured or sickened on the job. Of those, about 175 are complex occupational disease claims that include conditions such as cancer, heart disease and lung disease.

Starting today, OWCP will now provide information to all federal firefighters who file a claim for their workplace injury or illness on how and why to participate in the National Firefighter Registry.



CURRENT EVENTS AND ISSUES

Help Reduce Firefighter Cancer: Join the National Firefighter Registry

Registration is now open

Updated: April 17, 2023

Share on: [Twitter](#) [Facebook](#) [LinkedIn](#)

[Home](#) / [Blog](#)

As an active, former or retired member of the fire service — paid or volunteer — you now have an opportunity to do something that can help your fellow firefighters.

By adding your information to the National Firefighter Registry (NFR), you can help researchers better understand how your work affects the risk of getting cancer and how to lower this risk. According to National Institute for Occupational Safety and Health (NIOSH) research, cancer is a leading cause of death among firefighters, and research suggests firefighters are at higher risk for certain types of cancers when compared to the general population.

Some of the data requested for an NFR profile includes name, date of birth, and information about work, exposures, health and lifestyle. When cancer diagnoses are found in state cancer registries, NIOSH researchers match NFR profiles and work histories to the state registries. They then seek to obtain work history records from fire departments to better understand the firefighters' exposures and how they may be related to cancer over time.

Any cancer diagnosis information that is linked to an NFR participant is protected by the same safeguards as the other NFR data, including by an Assurance of Confidentiality.

The more firefighters who sign up for the registry through its secure web portal, the more information researchers have to learn about cancer in the fire service and how to protect firefighters from developing cancer in the line of duty. The registry also helps pave the way for new health and safety measures to keep firefighters safe and improve understanding of cancer risk among minority, female, volunteer and wildland firefighters.

Podcasts and news interviews

- NFPA Podcast
- USFA Podcast
- Fire Engineering Podcast
- National Fire Radio interview
- Local news interviews




Wildland firefighters strongly encouraged to enroll in new national registry for cancer








Boise State Public Radio News | By Murphy Woodhouse
Published May 12, 2023 at 8:37 AM MDT







▶ LISTEN • 1:07



   THE NFPA PODCAST
Can We End Cancer in the Fire Service?

THE NFPA PODCAST 00:00:03       

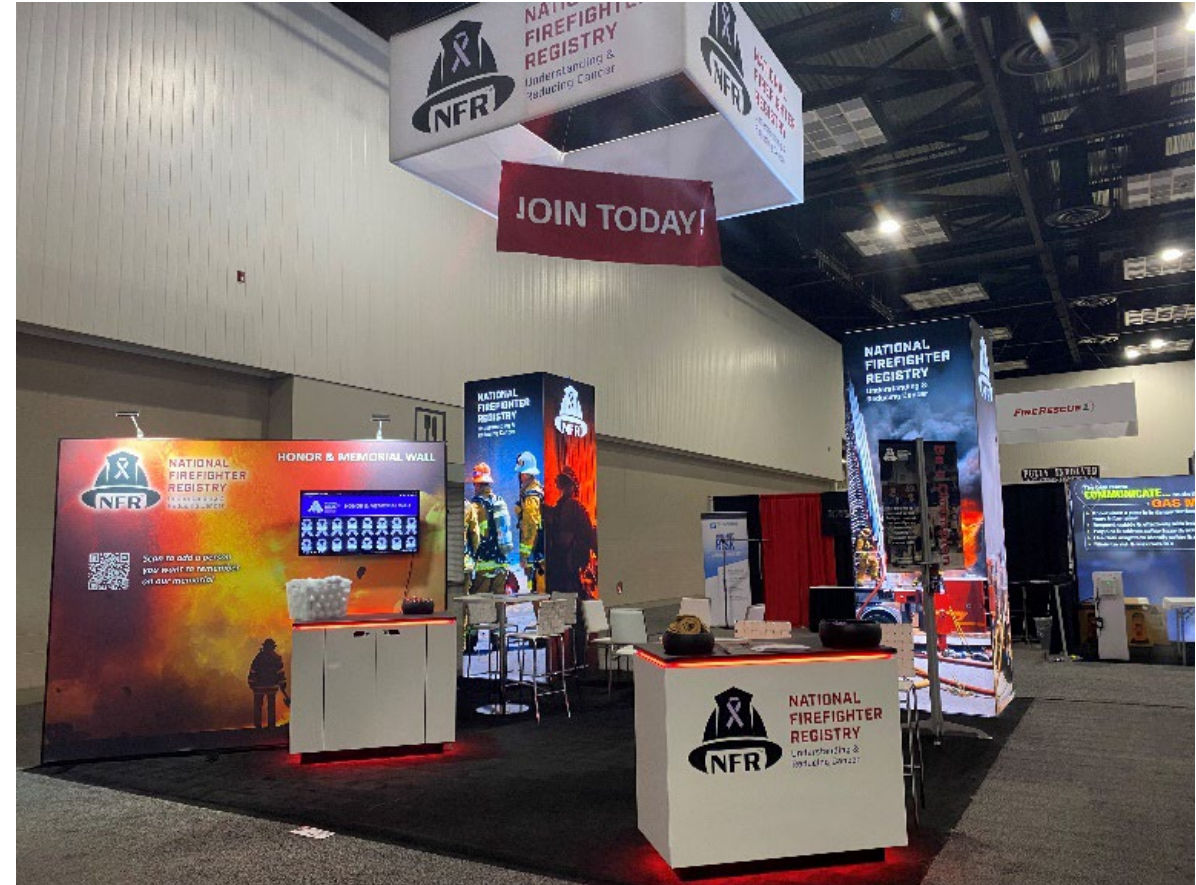
   Can We End Cancer in the Fire Service? 00:41:59 05/09/2023 

Last month, the U.S. federal government launched the National Firefighter Registry for Cancer—the largest project ever undertaken to better understand and reduce the risk of cancer among firefighters. Today on the podcast, we talk to the leader of this effort, Dr. Kenny Fent (2:40). He tells us what the Firefighter Registry is, how it will work, and how it could eventually lead to reforms that help keep future generations of firefighters cancer free.

Then, on a new Code Corner, NFPA electrical expert Corey Hannahs kicks off Electrical Safety Month by discussing changes to the rules on kitchen island receptacles in the 2023 *National Electrical Code* (34:14).

Conference booths

- NFR exhibit booths at large conferences
- NFR tables at smaller conferences
- Firefighter subject matter experts (contractors)
 - Attend conferences and meetings on behalf of the NFR program
 - Focus on women, minorities, and volunteer firefighters
 - Focus on wildland firefighters and local firefighter unions



Discussion topics

- **Who are we missing in our marketing?**
- **How do you feel our initial launch is going?**
 - **What could be improved?**
- **Do you think our current messaging is effective?**
 - **How could our messaging be refined?**

FOLLOW-UP QUESTIONNAIRES

Miriam Siegel

PURPOSE OF FOLLOW-UP QUESTIONNAIRES

- Add to current knowledge base – “specialty topics”
 - e.g., major events or deployments, special health topics, topics for specific groups, emerging topics
- Collect self-reported longitudinal info, e.g., changes in exposures over time
 - Also, reminders to update user profile
- Limitation – unsure/low expectation on follow-up participation (voluntary)
- Note: comprehensive, prospective cancer follow-up via state cancer registry linkages

EXAMPLE TOPICS

Longitudinal work information

- Dept/position/work status changes?
 - Protective practices?
- Incident response estimates?

Lifestyle

- Smoking detail/changes?
- Alcohol use detail/changes?
 - Diet?

Health/Co-Morbidities

- Reproductive?
- Behavioral/mental?
- Attitudes, beliefs, perceptions?

Subspecialties

- Wildland, WUI?
 - Women?
 - Volunteers?
- Major events?

QUESTIONNAIRE ADMINISTRATION

- The format of notifications could involve...
 - Notifications with links to single follow-up questionnaire opportunities
 - [Multiple] modules in the web portal for completion at convenience
 - Newsletter announcements
 - Reminders to update user profile
- Only eligible participants for some specialty topics, so questionnaire frequency will vary
- Timing of administration based on calendar time, time since last questionnaire submission, or another approach?
- Contact via enrolled & alternative email addresses; possibly cell phone number for texts

QUESTIONS FOR SUBCOMMITTEE

1. What is the ideal time length and frequency for follow-up questionnaires?

2. What topics should be prioritized?

Considering likely loss to follow-up and survey brevity, how to prioritize questions on self-reported longitudinal information/changes in exposure over time versus “specialty” information?

3. What is the best format and timeline for questionnaire administration?

NFRS MEMBER FEEDBACK

Conversation facilitated by NFRS Co-Chairs, Grace LeMasters and Pat Morrison