



**PH WINS**

PUBLIC HEALTH WORKFORCE  
INTERESTS AND NEEDS SURVEY

# 2021 SUMMARY REPORT:

## Chronic Disease Workers

# ACKNOWLEDGEMENT & CITATION

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The Public Health Workforce Interests and Needs Survey (PH WINS) was developed by the de Beaumont Foundation and the Association of State and Territorial Health Officials to understand the interests and needs of the state and local governmental public health workforce in the United States, and was fielded in 2014, 2017, and 2021. For more information, visit [www.phwins.org](http://www.phwins.org).

**Citation:** de Beaumont Foundation and Association of State and Territorial Health Officials, *Public Health Workforce Interests and Needs Survey: 2021 Dashboard*. August 3, 2022.

# ABOUT THIS REPORT

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This report summarizes key findings about **chronic disease workers** from the 2021 Public Health Workforce Interests and Needs Survey (PH WINS).

- Key findings are organized by the main sections of PH WINS 2021:
  - Demographics
  - Workforce Characteristics
  - Staying & Leaving
  - Training Needs
  - Engagement & Satisfaction
  - Well-being

# WHAT IS PH WINS?

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## *Public Health Workforce Interests and Needs Survey*

- PH WINS, a partnership between the de Beaumont Foundation and the Association of State and Territorial Health Officials (ASTHO), was fielded in 2014, 2017, and 2021.
- **First and only nationally representative source of data** about the governmental public health workforce.
- Supports the governmental public health workforce in **understanding their strengths and gaps** and informs future investments in workforce development efforts.

# 2021 METHODS

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- PH WINS 2021 was distributed via web survey to **137,446 state and local governmental public health workers:**
  - 47 state health agencies
  - 29 big city health departments
  - 259 local health departments
- The PH WINS 2021 instrument had five domains: workplace environment, COVID-19 response, training needs, addressing public health issues, and demographics.
- One important change in 2021: non-permanent employees of centralized state health agencies were included in the nationally representative data set.

# WORKFORCE DEFINITION

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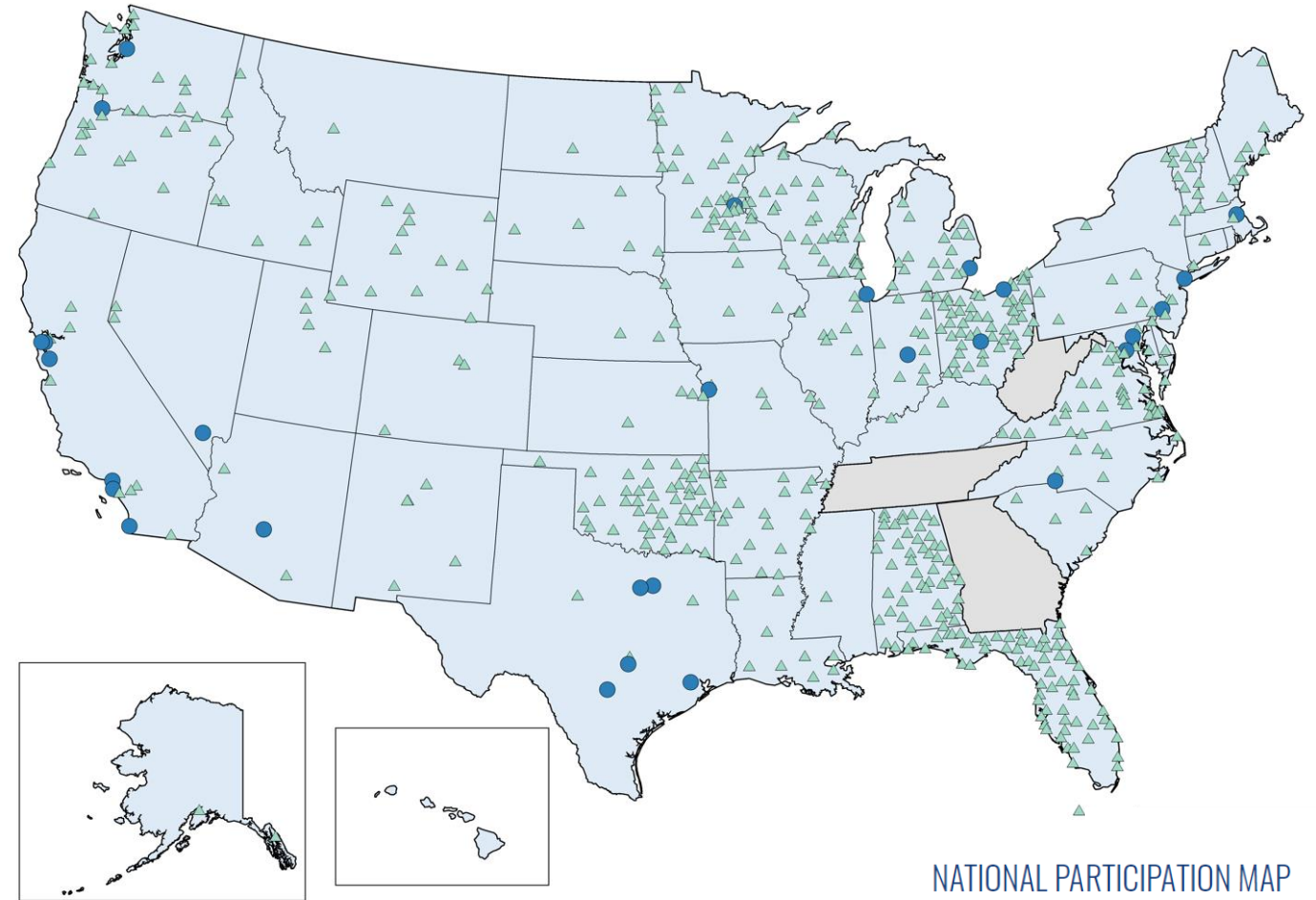
- Workforce groups are defined by a combination of responses to PH WINS questions on program area\*, job classification, education, and certifications.
- The **chronic disease workforce** includes PH WINS respondents who selected the following program area(s):
  - Non-communicable disease/chronic disease

*\*PH WINS respondents were asked to report all program areas in which they currently serve. Workforce groups that are defined using program area include employees who work for the defining program area and may include employees who also work for additional program areas.*

# NATIONAL PARTICIPATION

- Nationally, the survey was completed by 44,732 individuals, for a **35% response rate**.
- Response rates varied by frame:
  - **SHA: 34%**
  - **Big Cities: 28%**
  - **Other locals: 52%**
    - **Locals in Regions V and X\*: 56%**

\*HHS Regions V and X participated in the PH WINS for All pilot programming, recruiting all locals in those regions, regardless of size, to participate in PH WINS.



NATIONAL PARTICIPATION MAP



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Chronic disease workers account for **3%** of the national governmental public health workforce.





# 2021 KEY FINDINGS: DEMOGRAPHICS

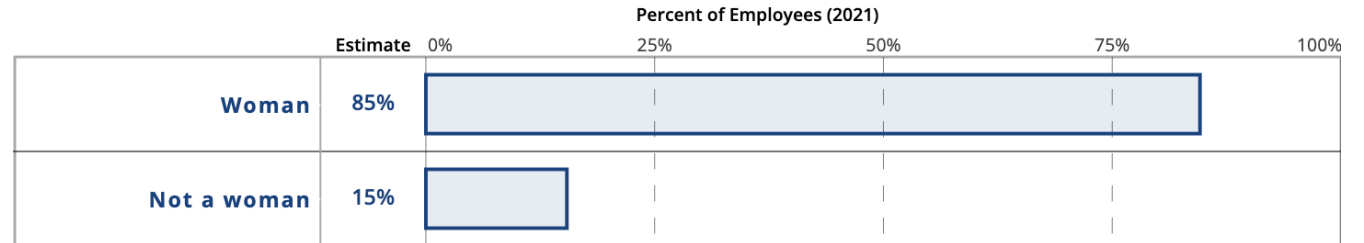
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- PH WINS respondents self-reported demographic (personal) characteristics like their gender, race/ ethnicity, and age.
- Respondents also self-reported the highest level of education attained and whether they have a specialized degree in public health.

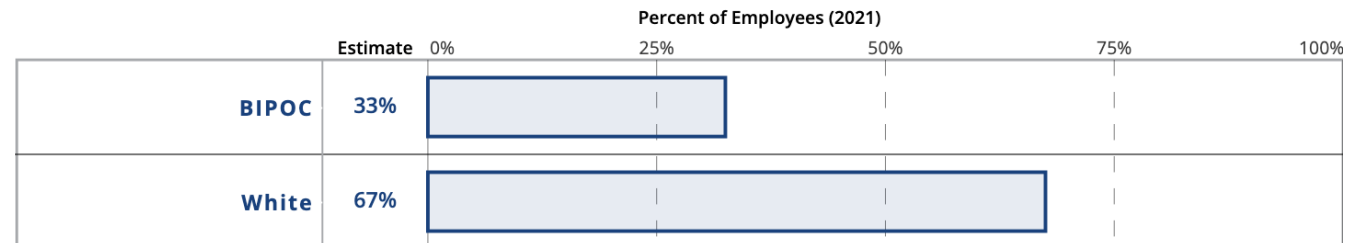
# DEMOGRAPHICS

- **85%** of chronic disease workers **self-identify as a woman.**
- **67%** of chronic disease workers **self-identify as White.**

## GENDER COLLAPSED CHRONIC DISEASE: ALL EMPLOYEES



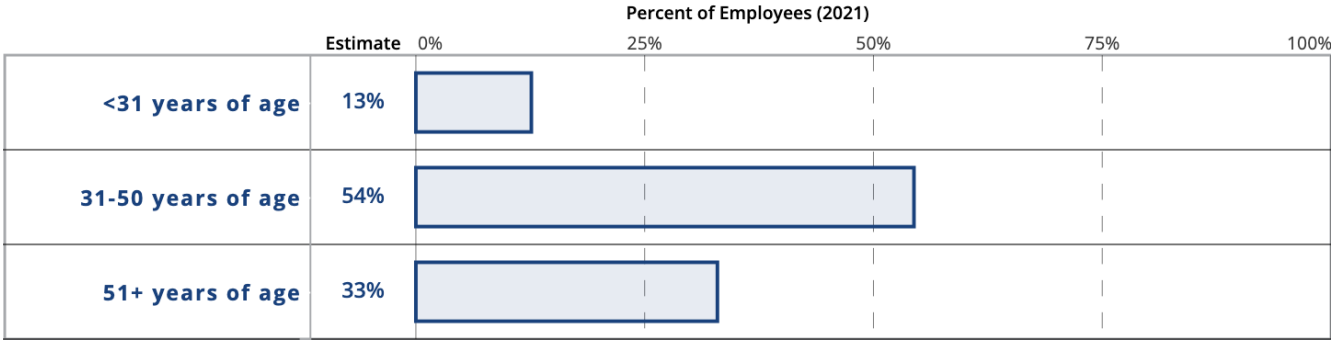
## RACE & ETHNICITY COLLAPSED CHRONIC DISEASE: ALL EMPLOYEES



# DEMOGRAPHICS

- **54%** of the chronic disease workforce is between the **ages of 31 and 50 years.**

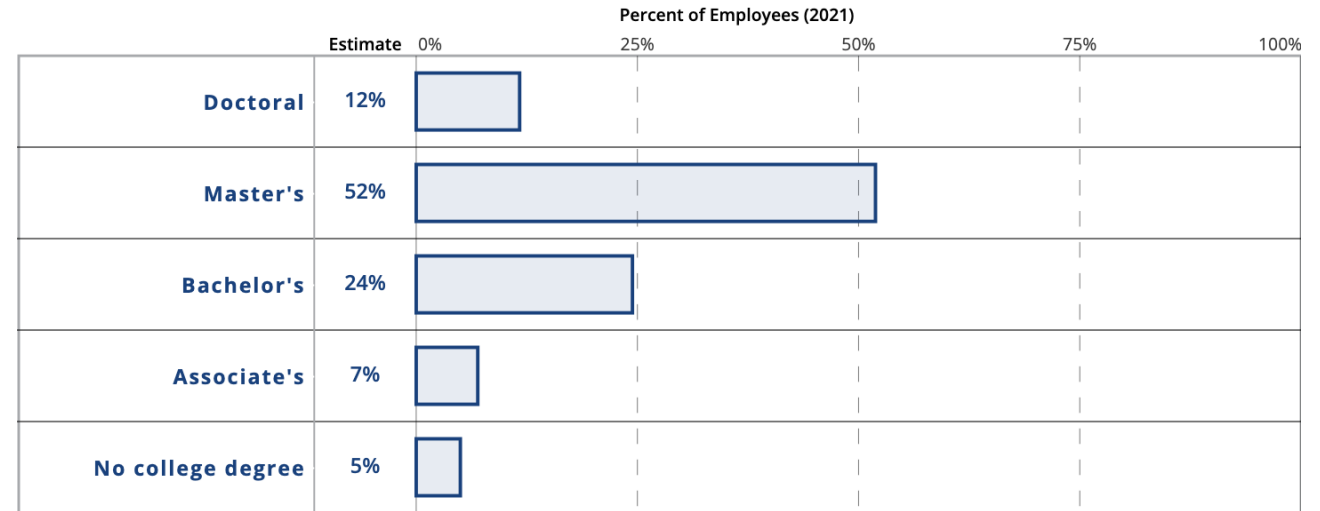
## AGE COLLAPSED CHRONIC DISEASE: ALL EMPLOYEES



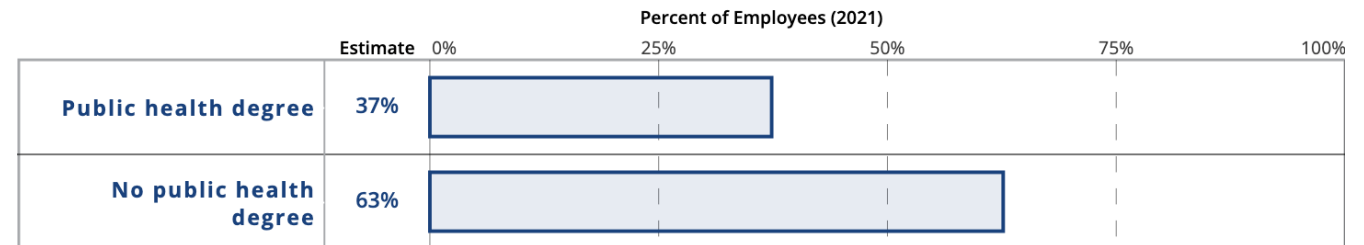
# EDUCATIONAL ATTAINMENT

- **64%** of chronic disease workers **have an advanced degree.**
  - 52% has a Master's degree.
  - 12% has a Doctoral degree.
- **37%** have a specialized **degree in public health.**

## EDUCATIONAL ATTAINMENT CHRONIC DISEASE: ALL EMPLOYEES



## PUBLIC HEALTH TRAINING CHRONIC DISEASE: ALL EMPLOYEES



# 2021 KEY FINDINGS: WORKFORCE CHARACTERISTICS

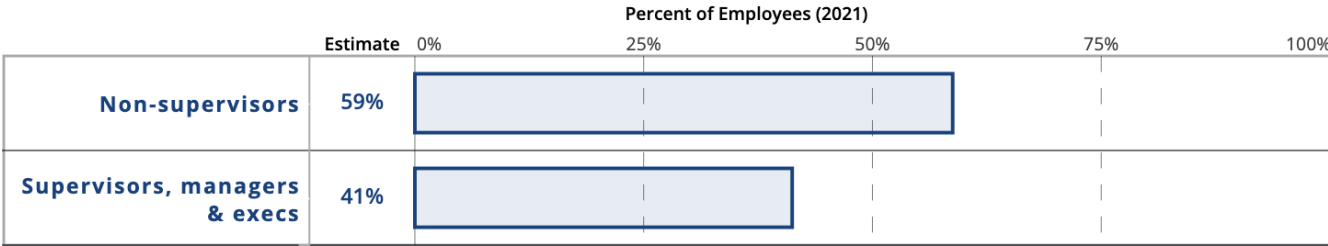
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- PH WINS respondents were asked a series of questions related specifically to their job and the work they do, including:
  - Supervisory status
  - Job role
  - Primary program area
  - Tenure in public health overall, at their agency, and in their current job.
- Respondents also reported full-time/part-time status and salary information.

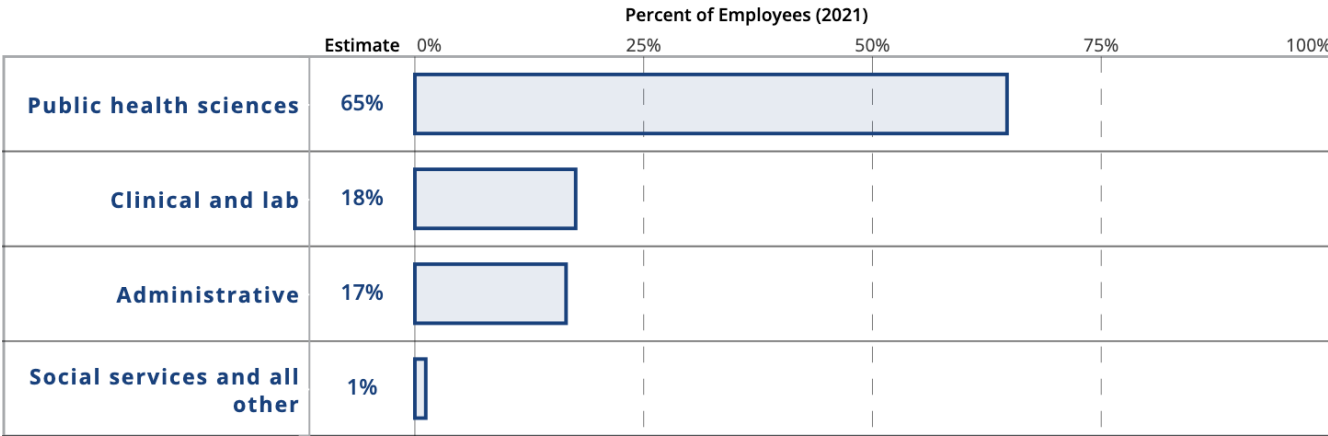
# SUPERVISORY STATUS/JOB ROLE

- **59%** of chronic disease staff work in a **non-supervisory role**.
- **65%** of staff worked in a **public health sciences job role**, which includes program staff, epidemiologists, and contact tracers, among others.

## SUPERVISORY STATUS COLLAPSED CHRONIC DISEASE: ALL EMPLOYEES



## JOB CLASSIFICATION CHRONIC DISEASE: ALL EMPLOYEES

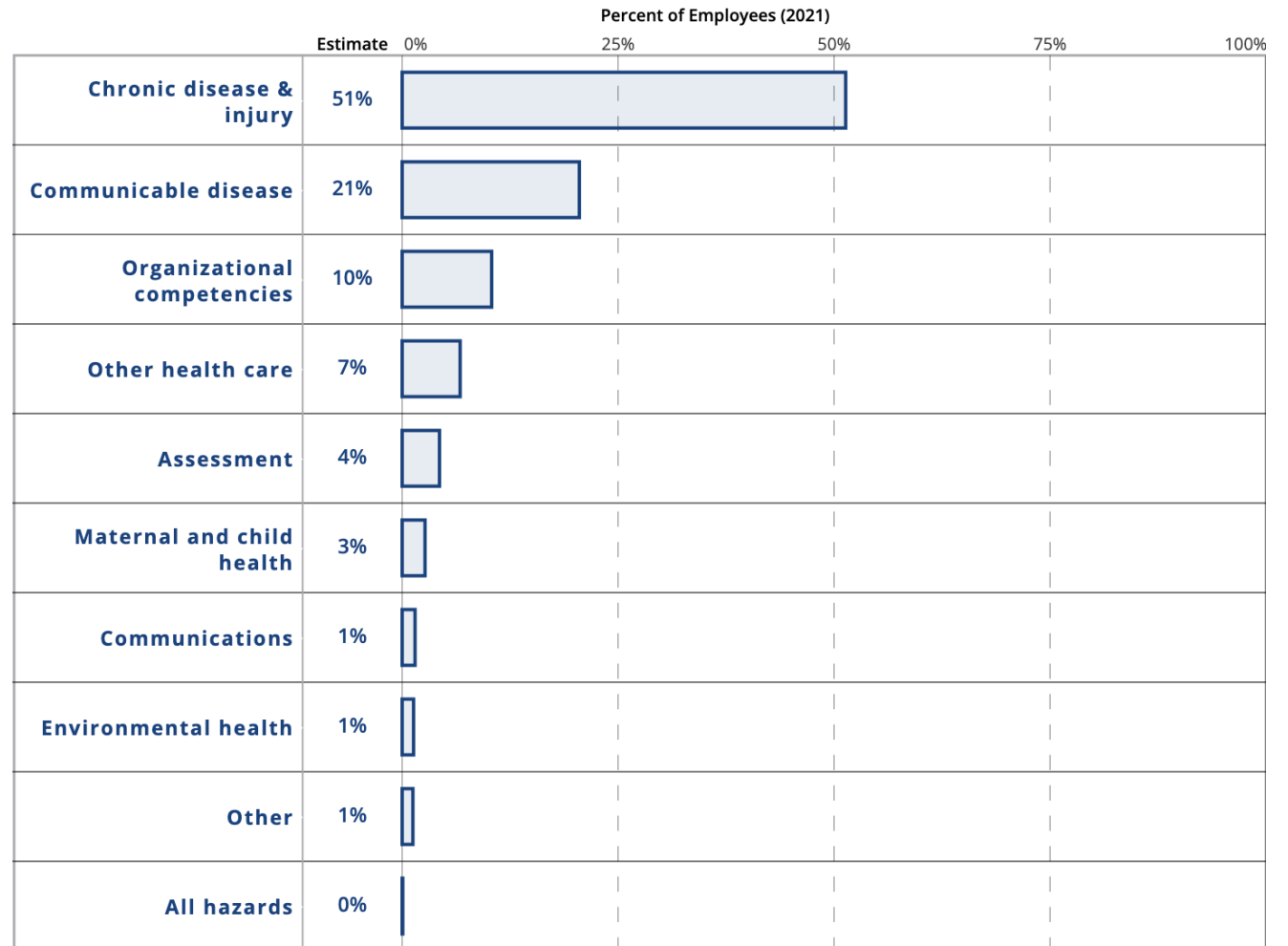


# PROGRAM AREA

- More than 80% of the chronic disease workforce is distributed across **three primary program areas\***:
  - **Chronic Disease & Injury**
  - **Communicable Disease**
  - **Organizational Competencies**, including administrative support, workforce development, and other business services.

*\*PH WINS respondents were asked to report all program areas in which they currently serve. This graph represents only the primary program area - the area in which a respondent spent the most time serving.*

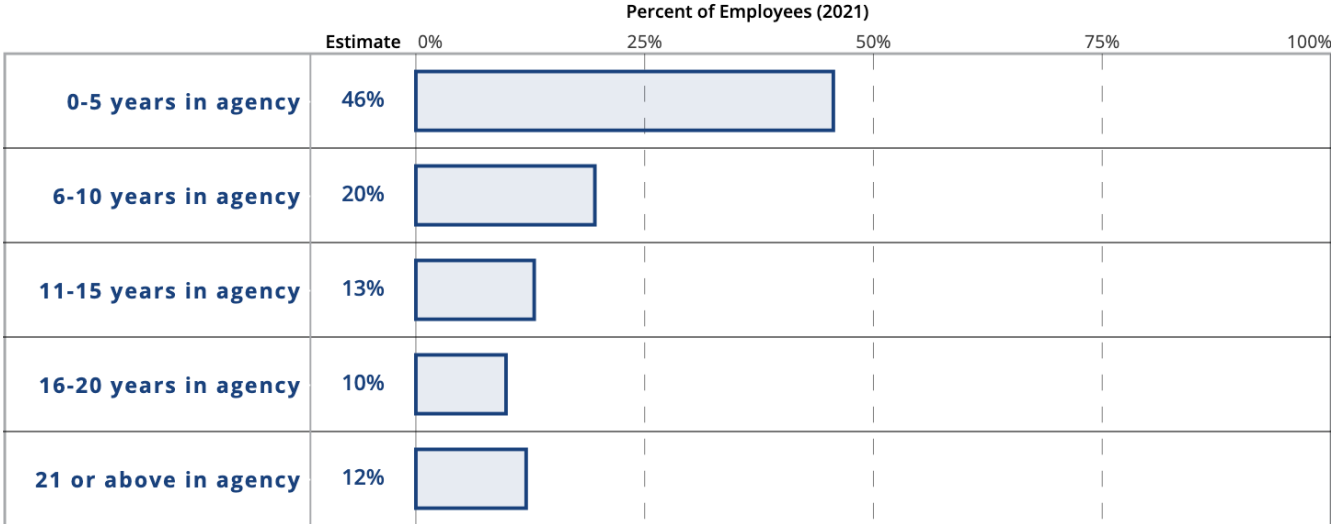
## PROGRAM AREA CHRONIC DISEASE: ALL EMPLOYEES



# TENURE AT AGENCY

- **46% of chronic disease workers** in 2021 had served at their agency **for 5 years or less.**
- 12% had served 21 or more years.

## AGENCY TENURE CHRONIC DISEASE: ALL EMPLOYEES





# 2021 KEY FINDINGS: STAYING & LEAVING

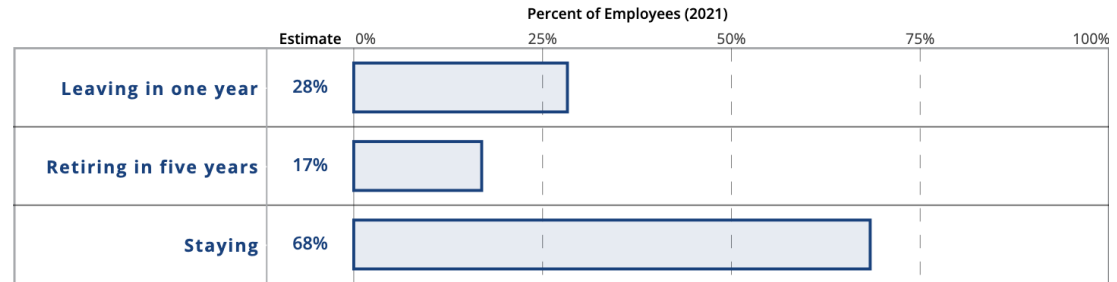
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- PH WINS respondents were asked a series of questions related to their intent to leave or stay at their agency and whether the COVID-19 pandemic affected their decision.
- Respondents were also asked to select reasons why they intend to stay or leave.

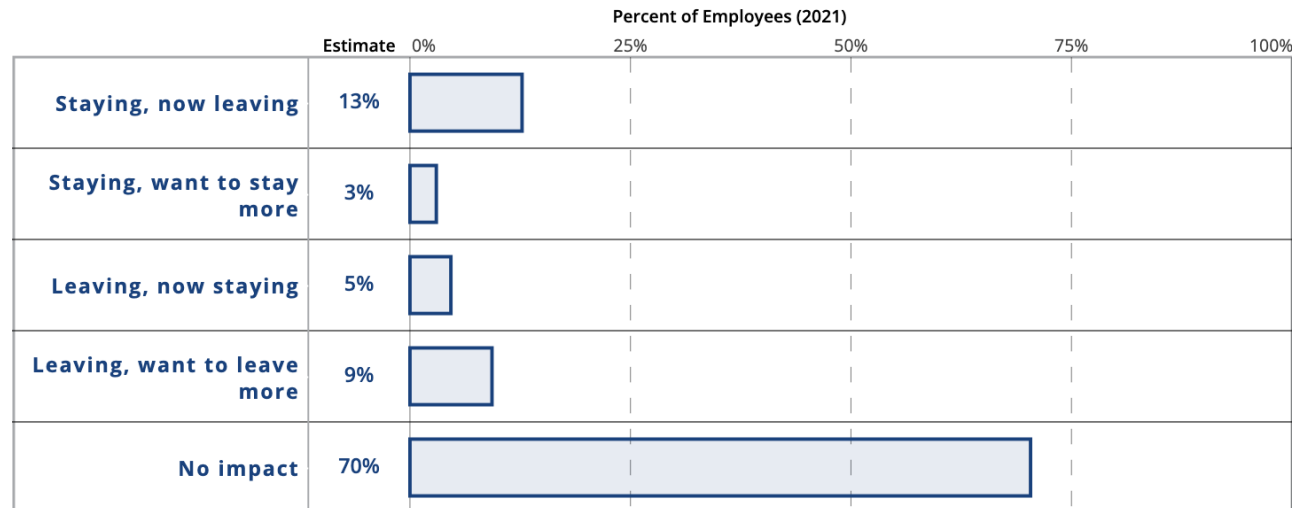
# INTENT TO LEAVE/STAY

- **28%** of chronic disease workers **are considering leaving** their organization within the next year.
- 30% reported that the **COVID-19 pandemic impacted their decision** to stay or leave.
  - Among those who intend to leave, 49% said the pandemic impacted their decision (*data not shown*).

## INTENT TO LEAVE CHRONIC DISEASE: ALL EMPLOYEES



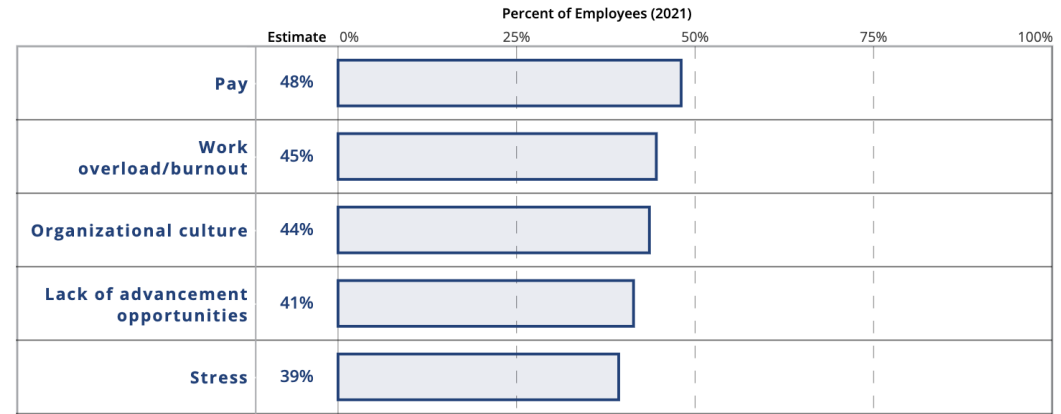
## IMPACT OF COVID ON STAYING & LEAVING CHRONIC DISEASE: ALL EMPLOYEES



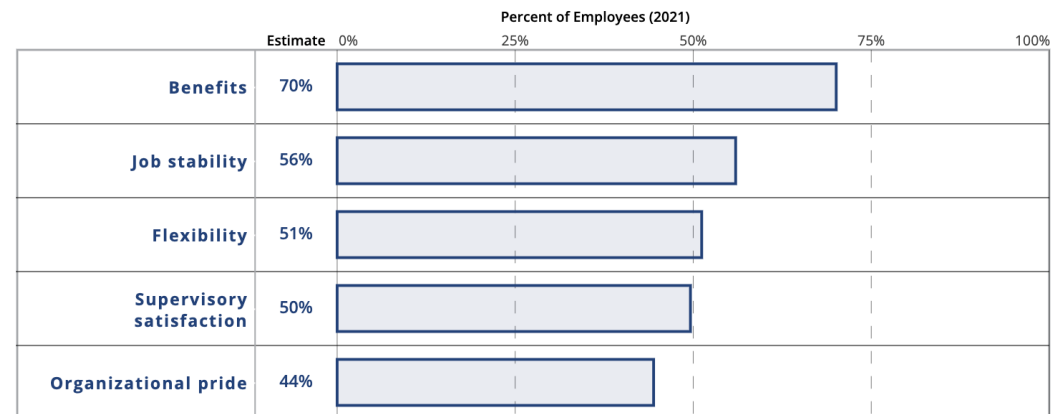
# REASONS FOR LEAVING/STAYING

- Understanding employees' reasons for leaving is critical for improving recruitment and retention.
- **Top reasons for leaving** among chronic disease workers who intend to leave include:
  - **Work overload/burnout** (reported by 45%)
  - **Stress** (reported by 39%).

## REASONS FOR LEAVING CHRONIC DISEASE: ALL EMPLOYEES



## REASONS FOR STAYING CHRONIC DISEASE: ALL EMPLOYEES



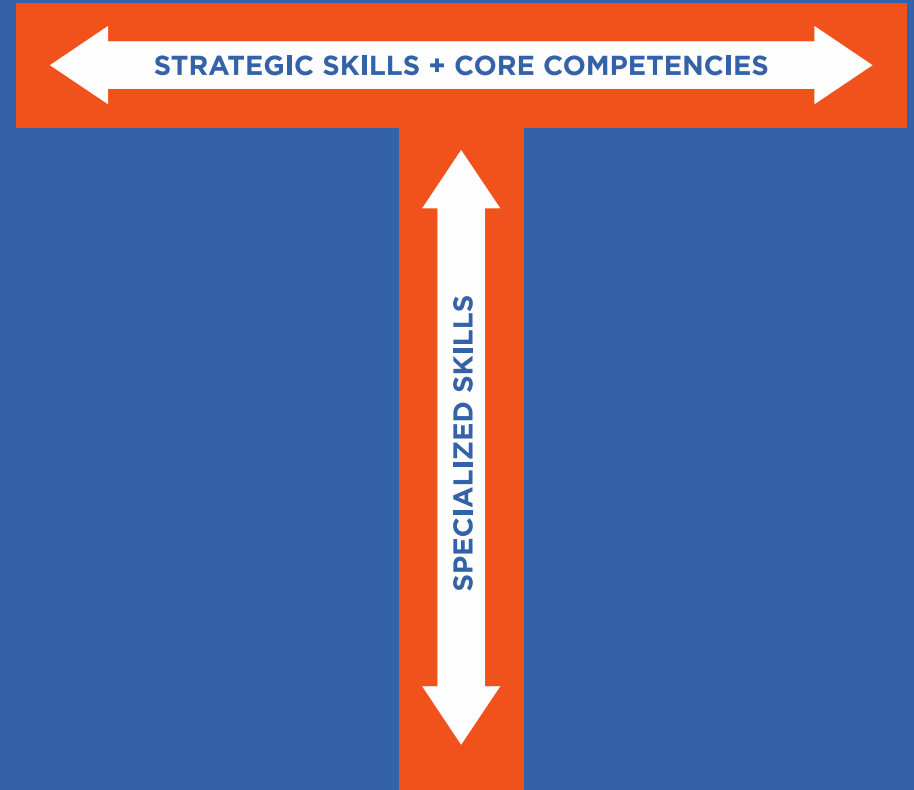
# 2021 KEY FINDINGS: TRAINING NEEDS

- PH WINS respondents were asked to rate the day-to-day importance of and their own proficiency with 25-26 skill items, tailored for their supervisory level.
- Skills were collapsed into 10 strategic skill categories.
- A **training need** is a skill item reported as having **high importance, but low proficiency**.
- Identifying training needs can help support strategies to produce T-employees, or those who have depth in technical skills and breadth in strategic skills.

**FIGURE 2.**

**The Public Health T:**  
Complementing  
Specialized Skills  
with a Cohesive  
Cross-Cutting Skill  
Framework

Note: T-shaped employees have depth in specialized skills related to a specific program or topic area (e.g., communicable disease control, environmental public health, etc.) and breadth in cross-cutting skills that include the Strategic Skills and Core Competencies.



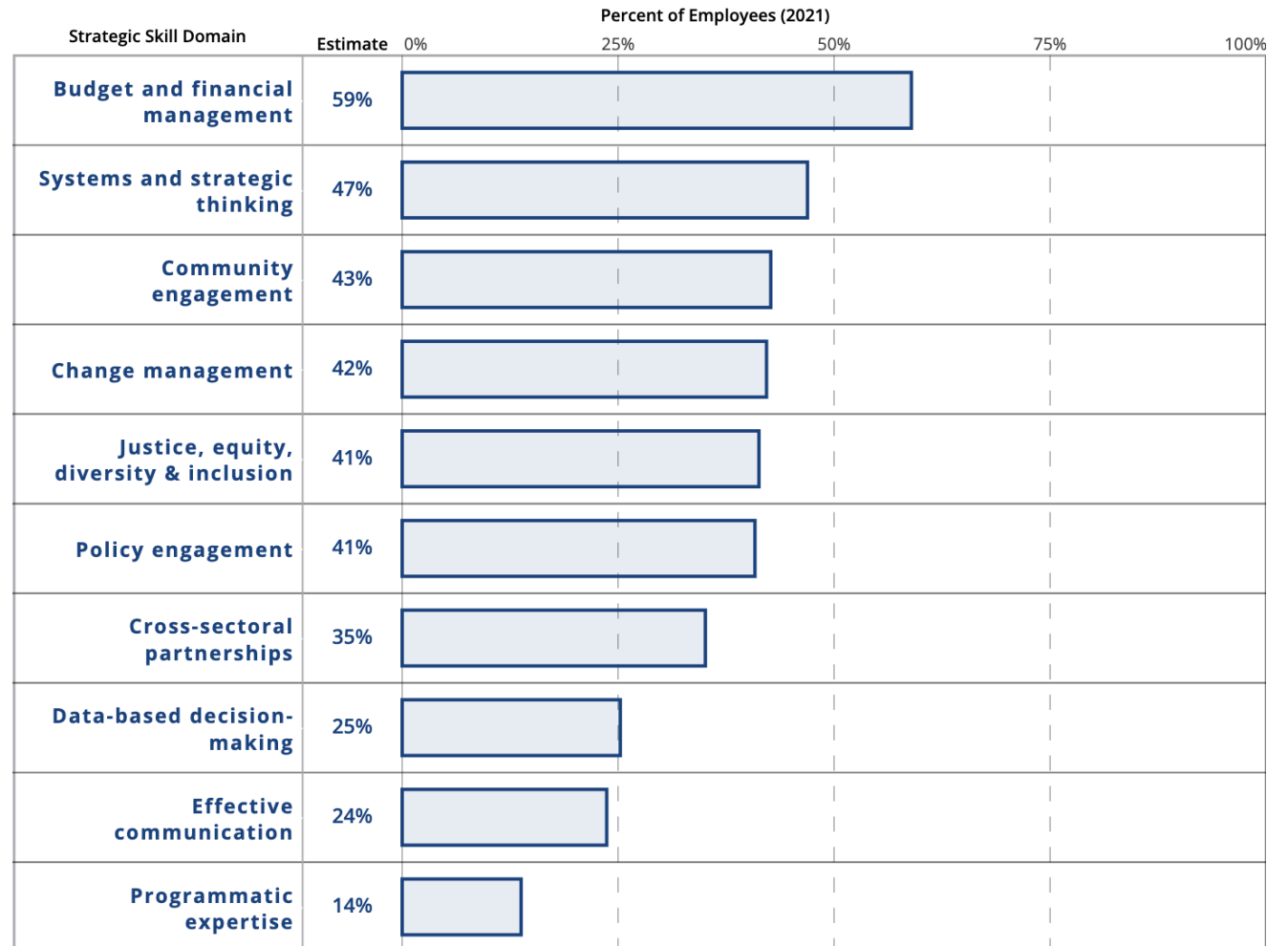
Source: de Beaumont Foundation. "Adapting and Aligning Public Health Strategic Skills,". March 2021.

# TRAINING NEEDS: OVERALL

The top 5 areas of training needs **across all supervisory levels** are:

- Budget and financial management
- Systems and strategic thinking
- Community engagement
- Change management
- Justice, equity, diversity & inclusion

## TRAINING NEEDS CHRONIC DISEASE: ALL EMPLOYEES

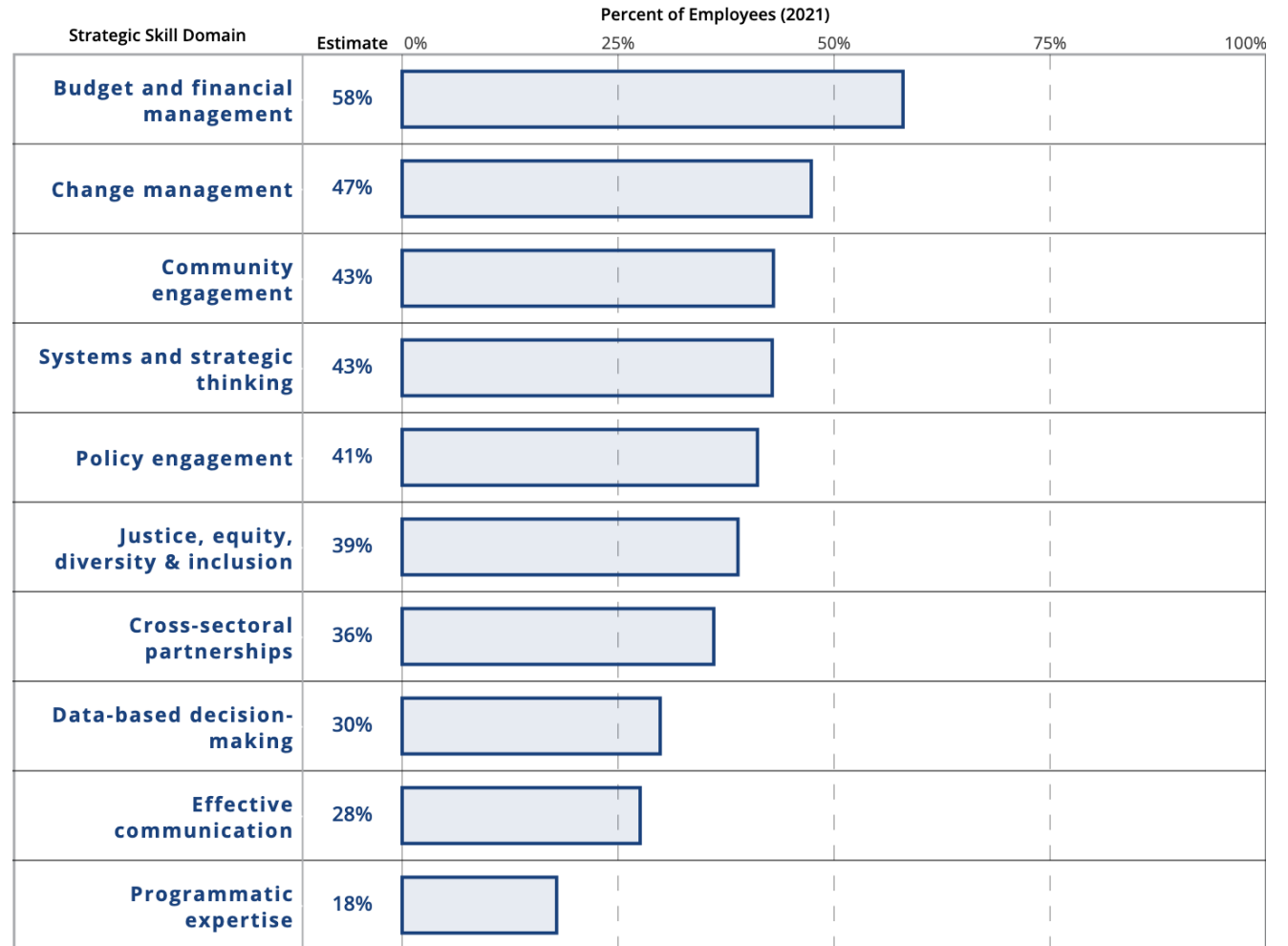


# TRAINING NEEDS: NON-SUPERVISORS

The top 5 areas of training needs **among non-supervisors** are:

- Budget and financial management
- Change management
- Community engagement
- Systems and strategic thinking
- Policy engagement

## TRAINING NEEDS: NON-SUPERVISORS CHRONIC DISEASE: ALL EMPLOYEES

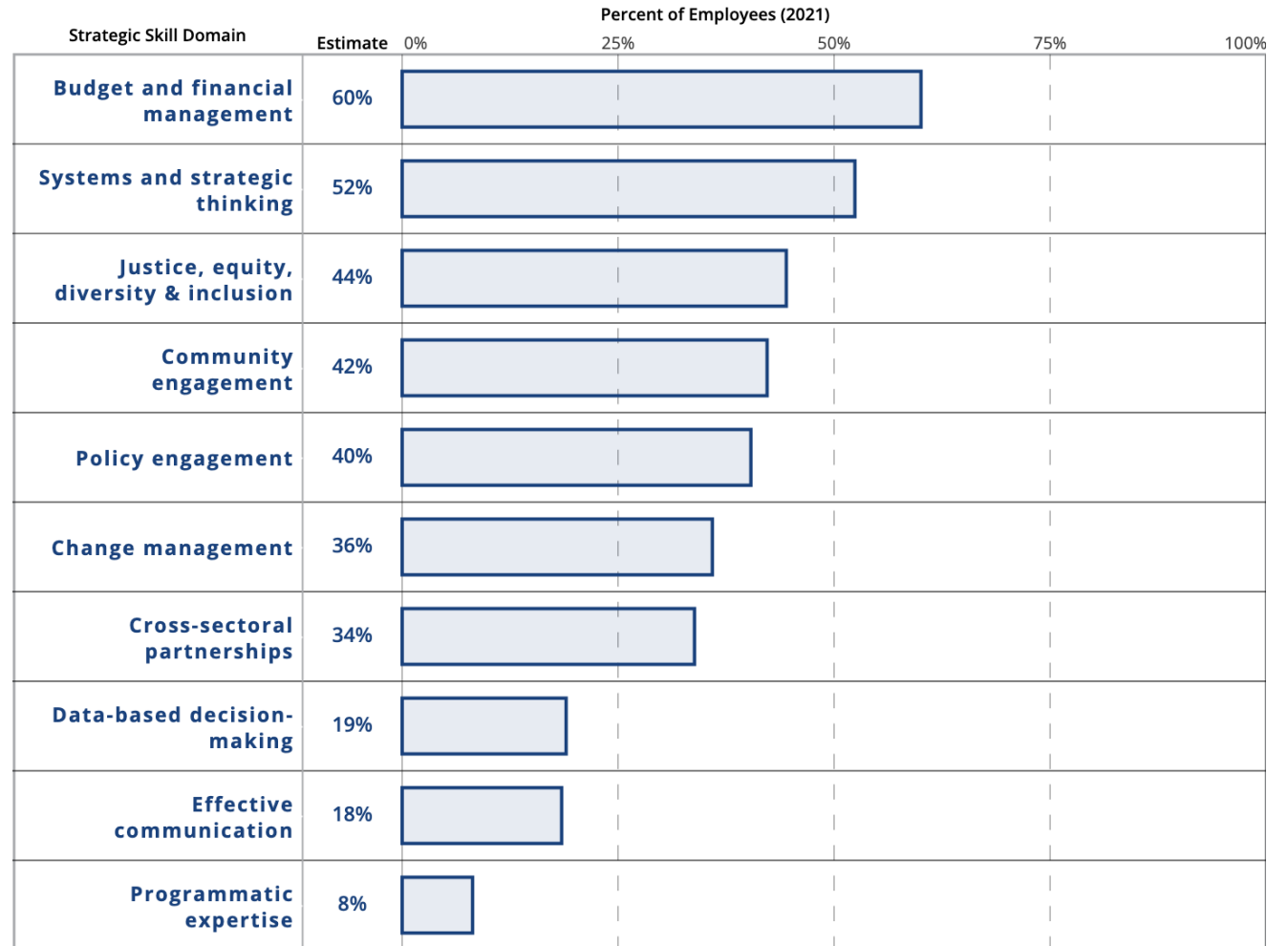


# TRAINING NEEDS: SUPERVISORS, MANAGERS, & EXECUTIVES

The top 5 areas of training needs **among supervisors, managers, & executives** are:

- Budget and financial management
- Systems and strategic thinking
- Justice, equity, diversity, & inclusion
- Community engagement
- Policy engagement

## TRAINING NEEDS: SUPERVISORS, MANAGERS, & EXECUTIVES CHRONIC DISEASE: ALL EMPLOYEES



# 2021 KEY FINDINGS: ENGAGEMENT & SATISFACTION

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PH WINS respondents were asked to rate their agreement with several statements related to:

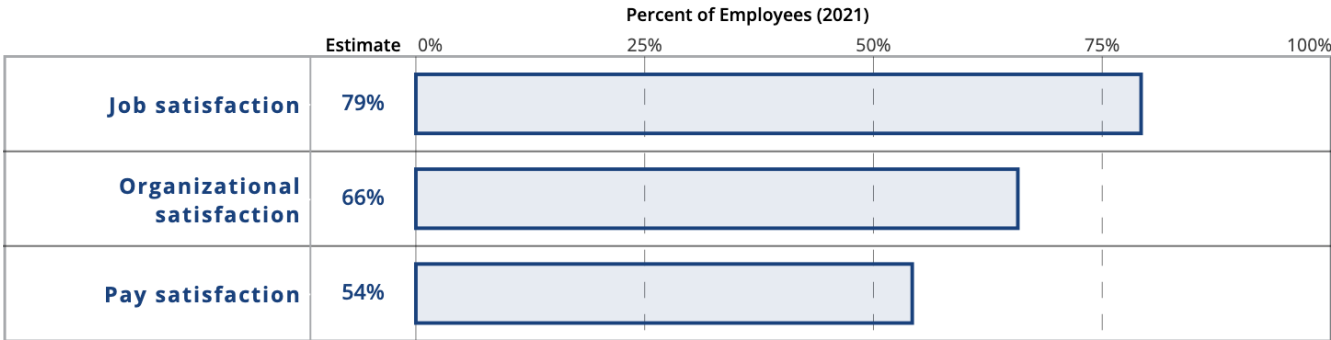
- Job, organizational, and pay satisfaction
- Perceptions about their workplace
- Perceptions about their supervisors
- Perceptions about their organization



# SATISFACTION

- Chronic disease workers are **largely satisfied** with their **job** (79%) and **organization** (66%).
- A little more than half (54%) are satisfied with their pay.

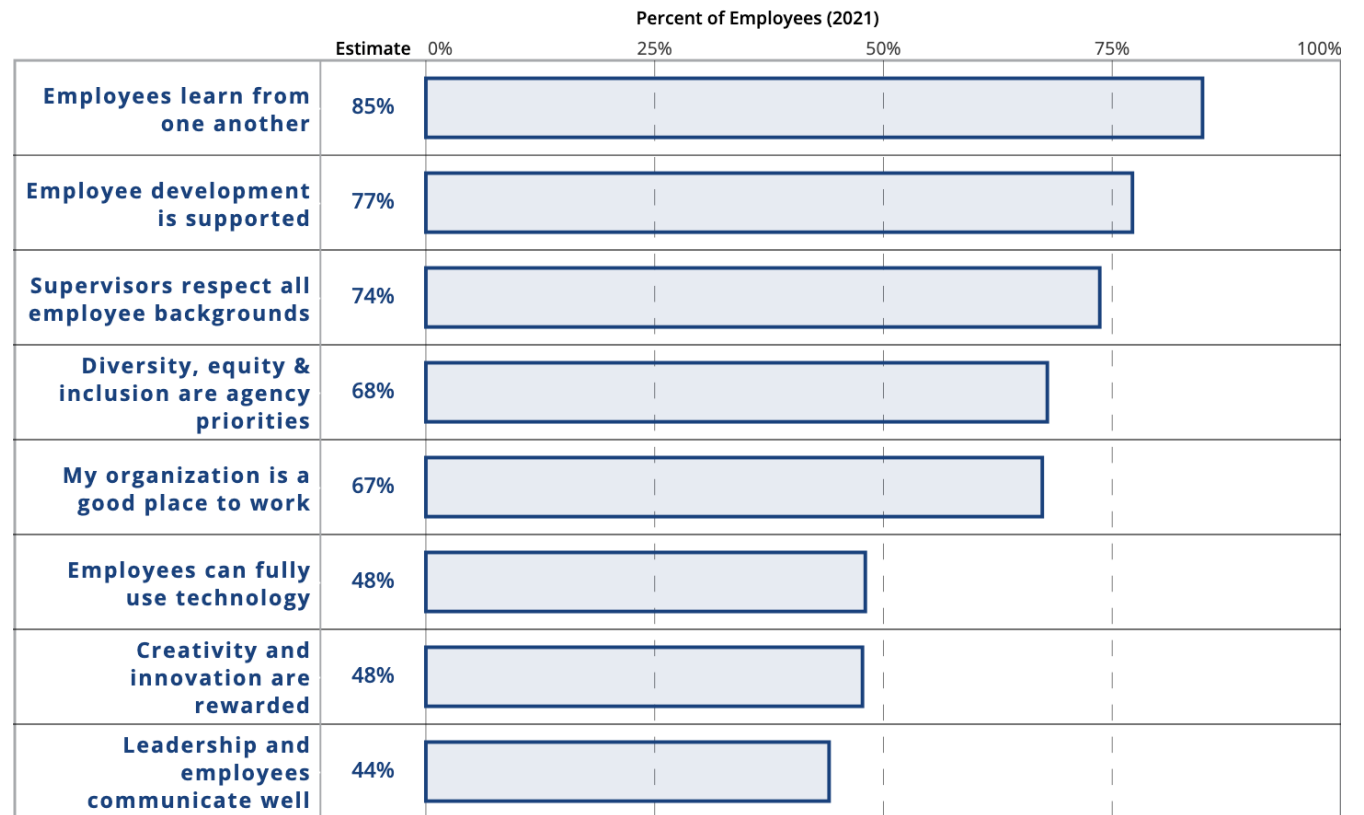
## EMPLOYEE SATISFACTION CHRONIC DISEASE: ALL EMPLOYEES



# PERCEPTIONS ABOUT ORGANIZATION

- Chronic disease workers' **overall perceptions of their organizations are positive.**
- However, there is room for improvement:
  - Less than half (48%) of the workforce agrees that creativity and innovation are rewarded.
  - 44% agree that leadership and employees communicate well.

## PERCEPTIONS ABOUT ORGANIZATION CHRONIC DISEASE: ALL EMPLOYEES



# 2021 KEY FINDINGS: WELL-BEING

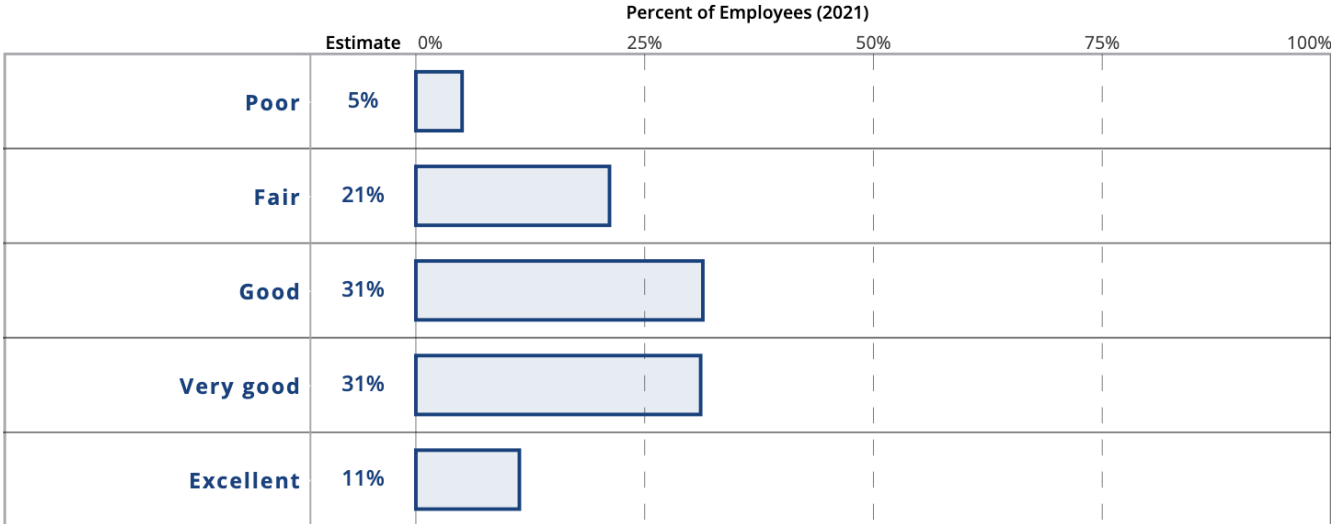
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- The 2021 PH WINS survey included questions specifically about employees' mental and emotional well-being.

# WELL-BEING

- 26% of chronic disease workers rate their mental health as either “poor” or “fair.”

## OVERALL MENTAL & EMOTIONAL WELL-BEING CHRONIC DISEASE: ALL EMPLOYEES



# 2021 KEY FINDINGS: HEALTH EQUITY CONCEPTS

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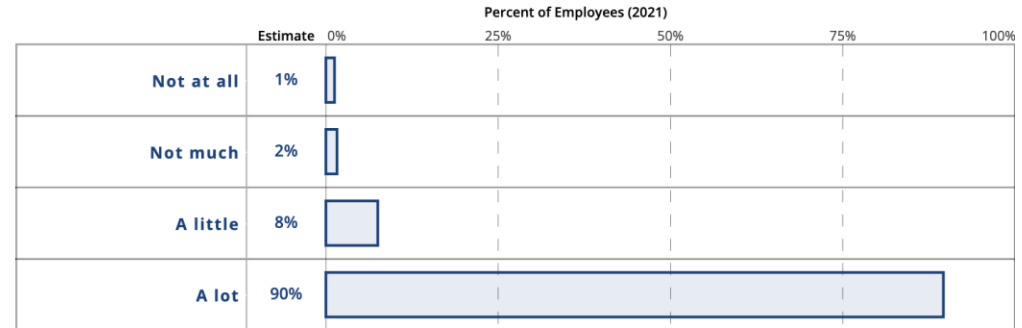
The 2021 PH WINS survey asked respondents to rate their level of awareness of and confidence in applying five health equity concepts:

- Health Equity
- Social Determinants of Equity
- Social Determinants of Health
- Structural Racism
- Environmental Justice

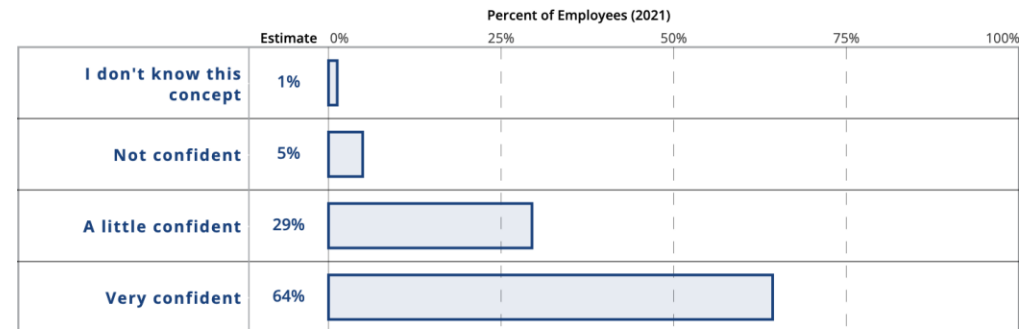
# HEALTH EQUITY CONCEPTS: HEALTH EQUITY

- **90%** of the chronic disease workforce rated their **awareness** of Health Equity as **a lot**.
- **64%** of the chronic disease workforce is **very confident** in applying the concept of Health Equity to their work.

## AWARENESS: HEALTH EQUITY CHRONIC DISEASE: ALL EMPLOYEES



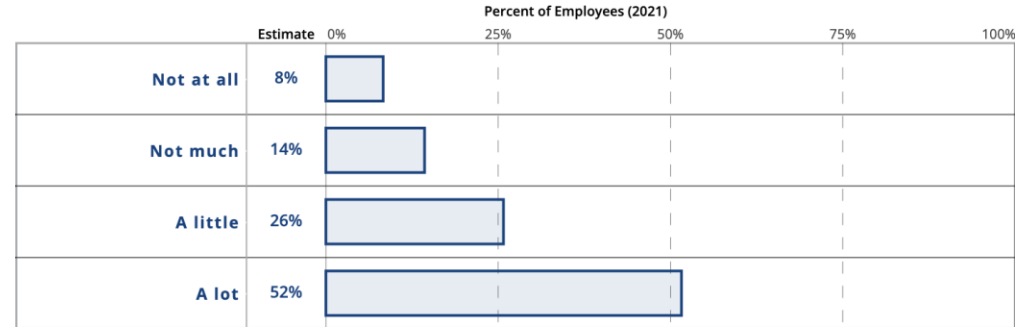
## CONFIDENCE: HEALTH EQUITY CHRONIC DISEASE: ALL EMPLOYEES



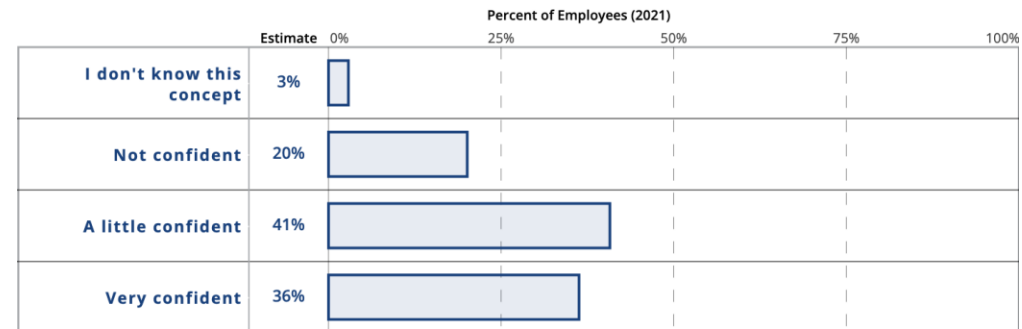
# HEALTH EQUITY CONCEPTS: SOCIAL DETERMINANTS OF EQUITY

- **52%** of the chronic disease workforce rated their **awareness** of Social Determinants of Equity as **a lot**.
- **36%** of the chronic disease workforce is **very confident** in applying the concept of Social Determinants of Equity to their work.

## AWARENESS: SOCIAL DETERMINANTS OF EQUITY CHRONIC DISEASE: ALL EMPLOYEES



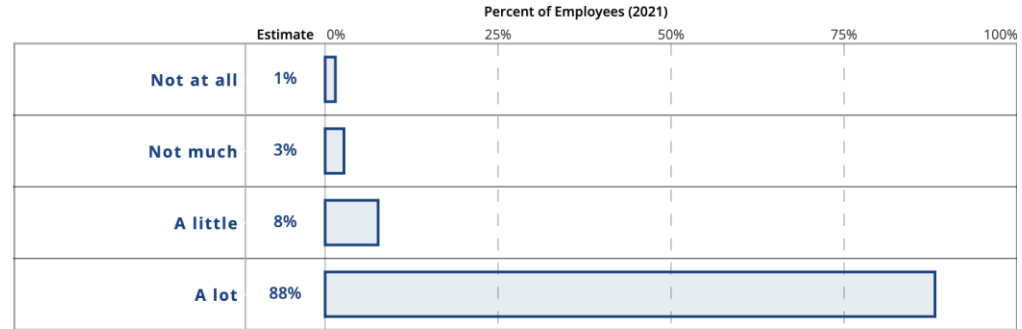
## CONFIDENCE: SOCIAL DETERMINANTS OF EQUITY CHRONIC DISEASE: ALL EMPLOYEES



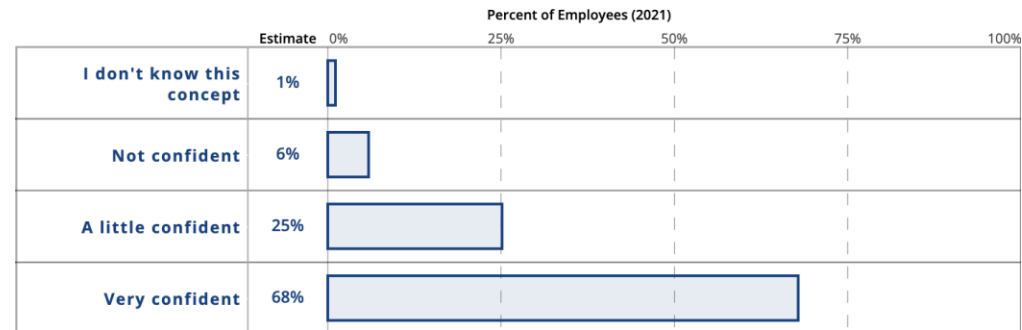
# HEALTH EQUITY CONCEPTS: SOCIAL DETERMINANTS OF HEALTH

- **88%** of the chronic disease workforce rated their **awareness** of Social Determinants of Health as **a lot**.
- **68%** of the chronic disease workforce is **very confident** in applying the concept of Social Determinants of Health to their work.

## AWARENESS: SOCIAL DETERMINANTS OF HEALTH CHRONIC DISEASE: ALL EMPLOYEES



## CONFIDENCE: SOCIAL DETERMINANTS OF HEALTH CHRONIC DISEASE: ALL EMPLOYEES

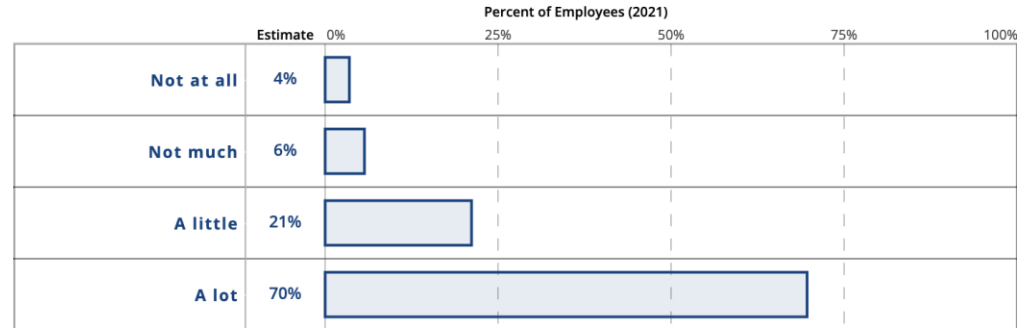




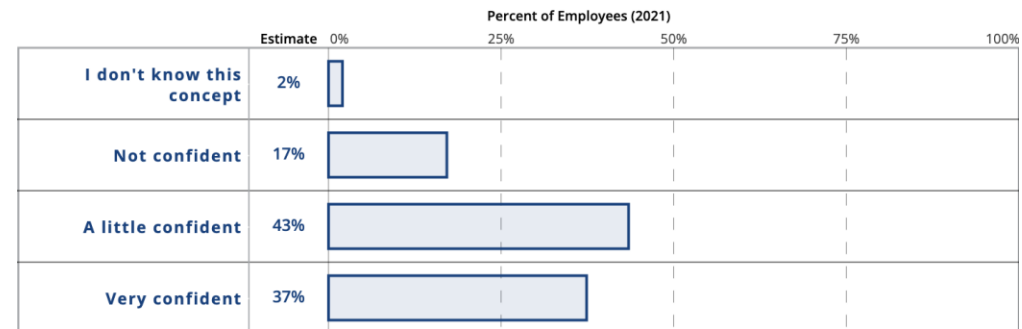
# HEALTH EQUITY CONCEPTS: STRUCTURAL RACISM

- **70%** of the chronic disease workforce rated their **awareness** of Structural Racism as **a lot**.
- **37%** of the chronic disease workforce is **very confident** in applying the concept of Structural Racism to their work.

## AWARENESS: STRUCTURAL RACISM CHRONIC DISEASE: ALL EMPLOYEES



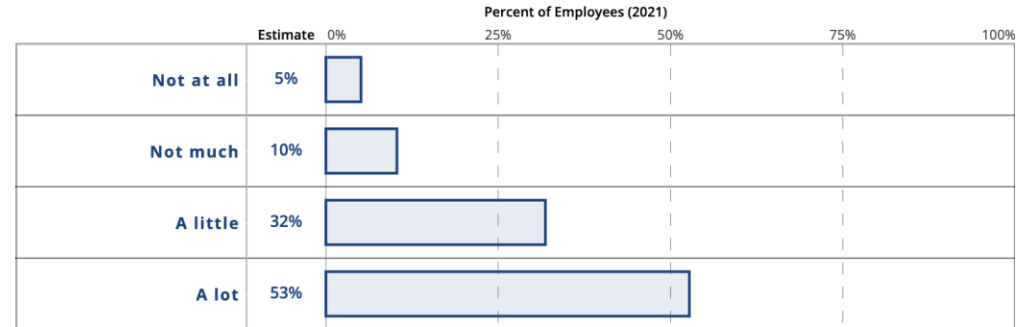
## CONFIDENCE: STRUCTURAL RACISM CHRONIC DISEASE: ALL EMPLOYEES



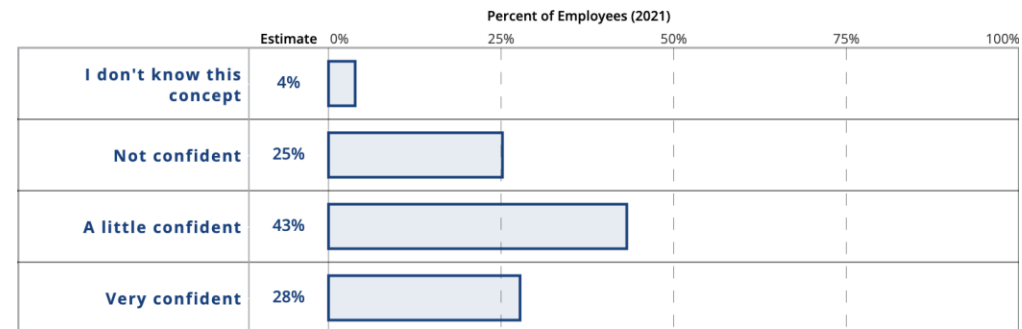
# HEALTH EQUITY CONCEPTS: ENVIRONMENTAL JUSTICE

- **53%** of the chronic disease workforce rated their **awareness** of Environmental Justice as **a lot**.
- **28%** of the chronic disease workforce is **very confident** in applying the concept of Environmental Justice to their work.

## AWARENESS: ENVIRONMENTAL JUSTICE CHRONIC DISEASE: ALL EMPLOYEES



## CONFIDENCE: ENVIRONMENTAL JUSTICE CHRONIC DISEASE: ALL EMPLOYEES



# FIND OUT MORE *(delete this slide before printing or presenting!)*

- **Looking for more data and graphs?**

- This report represents only a small portion of the data that are available from the 2021 PH WINS.
- Go to the **national PH WINS Dashboard** to view more data, download graph images, and more. You can find the dashboard at [www.phwins.org/national](http://www.phwins.org/national)

- **Want to learn more about the survey?**

- Go to <https://debeaumont.org/phwins/2021-findings/> for more information about PH WINS 2021, including key findings, links to publications and survey methods.

- **Have questions?**

- Contact the PH WINS team at: [phwins@debeaumont.org](mailto:phwins@debeaumont.org)

**Click the image to go to the national PH WINS Dashboard.**

