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# Characteristics of healthcare personnel with SARS-CoV-2 infection: 10 emerging infections program sites in the United States, April 2020–December 2021

Nora Chea MD MSc<sup>1</sup> , Taniece Eure MPH<sup>1</sup> , Rebecca Aikis Ramirez MPH<sup>1</sup> , Maria Zlotorzynska PhD MPH<sup>1</sup> , Gregory T. Blazek MPH<sup>1,2</sup> , Joelle Nadle MPH<sup>3</sup>, Jane Lee MPH<sup>3</sup> , Christopher A. Czaja MD DrPH<sup>4</sup> , Helen Johnston MPH<sup>5</sup>, Devra Barter MSc<sup>6</sup>, Melissa Kellogg MPH<sup>6</sup>, Catherine Emanuel MPH<sup>6</sup>, James Meek MPH<sup>5</sup>, Monica Brackney MS<sup>5</sup> , Stacy Carswell MPH<sup>6</sup>, Stepy Thomas MSPH<sup>6</sup>, Scott K. Fridkin MD<sup>7</sup> , Lucy E. Wilson MD<sup>8</sup> , Rebecca Perlmutter MPH<sup>9</sup>, Kaytlynn Marceaux-Galli MPH<sup>9</sup> , Ashley Fell MPH<sup>9</sup>, Sara Lovett MPH<sup>9</sup>, Sarah Lim MBBCh<sup>9</sup>, Ruth Lynfield MD<sup>9</sup> , Sarah Shrum Davis MPH<sup>10</sup>, Erin C. Phipps DVM MPH<sup>10,11</sup>, Maria Sievers MPH<sup>11</sup> , Ghinwa Dumyati MD<sup>12</sup> , Christopher Myers MS<sup>12</sup> , Christine Hurley RN BSN<sup>12</sup>, Erin Licherdel MPH<sup>12</sup>, Rebecca Pierce PhD<sup>12</sup> , Valerie L. S. Ocampo MPH<sup>12</sup> , Eric W. Hall PhD<sup>14</sup> , Christopher Wilson MD MPH<sup>15</sup> , Cullen Adre PharmD<sup>15</sup>, Erika Kirtz MPH<sup>15</sup> , Tiffanie M. Markus PhD<sup>16</sup> , Kathryn Billings MPH<sup>16</sup>, Ian D Plumb MBBBS MSc<sup>17</sup> , Glen R. Abedi MPH<sup>17</sup>, Jade James-Gist MPH<sup>17</sup> , Shelley S. Magill MD PhD<sup>1</sup>  and Cheri T. Grigg DVM MPH<sup>1</sup> 

<sup>1</sup>Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA, <sup>2</sup>Chenega Enterprise Systems and Solutions, LLC, Chesapeake, VA, USA, <sup>3</sup>California Emerging Infections Program, Oakland, CA, USA, <sup>4</sup>Colorado Department of Public Health and Environment, Denver, CO, USA, <sup>5</sup>Connecticut Emerging Infections Program, Yale School of Public Health, New Haven, CT, USA, <sup>6</sup>Georgia Emerging Infections Program, Atlanta Veterans Affairs Medical Center, Foundation for Atlanta Veterans Education and Research, Atlanta, GA, USA, <sup>7</sup>Georgia Emerging Infections Program, Emory University School of Medicine, Atlanta, GA, USA, <sup>8</sup>Maryland Department of Health, Baltimore, MD, USA, <sup>9</sup>Minnesota Department of Health, St. Paul, MN, USA, <sup>10</sup>New Mexico Emerging Infections Program, University of New Mexico, Albuquerque, NM, USA, <sup>11</sup>New Mexico Department of Health, Santa Fe, NM, USA, <sup>12</sup>New York Emerging Infections Program, University of Rochester Medical Center, Rochester, NY, USA, <sup>13</sup>Public Health Division, Oregon Health Authority, Portland, OR, USA, <sup>14</sup>Oregon Health and Science University and Portland State University School of Public Health, Oregon Health and Science University, Portland, OR, USA, <sup>15</sup>Tennessee Department of Health, Nashville, TN, USA, <sup>16</sup>Vanderbilt University Medical Center, Nashville, TN, USA and <sup>17</sup>Division of Viral Diseases, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA

## Abstract

**Background:** Understanding characteristics of healthcare personnel (HCP) with SARS-CoV-2 infection supports the development and prioritization of interventions to protect this important workforce. We report detailed characteristics of HCP who tested positive for SARS-CoV-2 from April 20, 2020 through December 31, 2021.

**Methods:** CDC collaborated with Emerging Infections Program sites in 10 states to interview HCP with SARS-CoV-2 infection (case-HCP) about their demographics, underlying medical conditions, healthcare roles, exposures, personal protective equipment (PPE) use, and COVID-19 vaccination status. We grouped case-HCP by healthcare role. To describe residential social vulnerability, we merged geocoded HCP residential addresses with CDC/ATSDR Social Vulnerability Index (SVI) values at the census tract level. We defined highest and lowest SVI quartiles as high and low social vulnerability, respectively.

**Results:** Our analysis included 7,531 case-HCP. Most case-HCP with roles as certified nursing assistant (CNA) (444, 61.5%), medical assistant (252, 65.3%), or home healthcare worker (HHW) (225, 59.5%) reported their race and ethnicity as either non-Hispanic Black or Hispanic. More than one third of HHWs (166, 45.2%), CNAs (283, 41.7%), and medical assistants (138, 37.9%) reported a residential address in the high social vulnerability category. The proportion of case-HCP who reported using recommended PPE at all times when caring for patients with COVID-19 was lowest among HHWs compared with other roles.

**Corresponding author:** Nora Chea Email: [nc47@cdc.gov](mailto:nc47@cdc.gov)  
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