

## Addressing the Nation's Primary Care Shortage: Advanced Practice Clinicians and Innovative Care Delivery Models

### Citations

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- <sup>2</sup> UnitedHealth Group analysis of Area Health Resource File (AHRF) 2016-2017 Release, U.S. Department of Health and Human Services (HHS) Health Resources and Services Administration (HRSA) Bureau of Health Workforce – National Center for Health Workforce Analysis, 2018.  
Note: Primary care physicians include those who provide direct patient care and who practice principally in general or family practice, general internal medicine, pediatrics, and obstetrics and gynecology. This analysis defines a primary care shortage area as a county with less than one primary care physician per 2,000 residents as a representative threshold for the number of patients a primary care physician can accommodate effectively in a relatively large patient panel. Different thresholds for primary care shortages will yield different results.
- <sup>3</sup> UHG analysis, 2018.  
Note: Urban and rural populations are identified according to the most recent U.S. Census Bureau Urban/Rural Update included in the AHRF (2010). Urban includes all territory, population, and housing units located within urbanized areas and urban clusters. An urbanized area consists of densely developed territory that contains 50,000 or more people. An urban cluster consists of densely settled territory that has at least 2,500 people but fewer than 50,000 people. Suburban areas are generally categorized as urban areas due to their population density. Rural areas consist of all territory, population, and housing units outside of urban areas and urban clusters.
- <sup>4</sup> UHG analysis, 2018.
- <sup>5</sup> U.S. Census Bureau, "Table 3: Projected 5-Year Age Groups and Sex Composition of the Population," March 2018. <https://www2.census.gov/programs-surveys/popproj/tables/2017/2017-summary-tables/np2017-t3.xlsx>  
Note: 2018 estimate calculated from UnitedHealth Group analysis of Census data.
- <sup>6</sup> U.S. Census Bureau, Table 3, March 2018.  
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Note: Primary care includes physicians providing direct patient care who practice principally in one of the four primary care specialties: general or family practice, general internal medicine, pediatrics, and obstetrics and gynecology.  
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- <sup>17</sup> AANP, March 2018.  
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- <sup>18</sup> UHG, September 2014.  
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