

**Table. Percentage of office-based physicians using any electronic health record (EHR)/electronic medical record (EMR) system and physicians that have a certified EHR/EMR system, by selected characteristics: National Electronic Health Records Survey, 2017**

Characteristics	Any EHR or EMR system			Certified EHR or EMR system		
	Percent	95% confidence interval		Percent	95% confidence interval	
		Low	High		Low	High
All Physicians <sup>1,2</sup>	85.9	83.2	88.4	79.7	76.7	82.4
Primary care	†88.5	84.7	91.6	†83.5	79.6	86.9
Non-primary care	83.6	79.5	87.1	§76.0	71.6	80.1
Surgical	84.2	77.5	89.5	77.3	69.8	83.7
Medical	83.1	77.6	87.7	§75.1	69.3	80.3
Physician Specialties <sup>3,4,5</sup>						
Dermatology	80.0	62.4	91.9	79.5	61.9	91.4
General/family practice	86.1	79.9	91.0	81.5	75.1	86.8
General Surgery	†95.8	89.3	99.0	†94.2	87.1	98.1
Internal medicine	84.9	72.8	93.1	81.6	70.1	90.1
Obstetrics/Gynecology	†95.7	91.0	98.4	†90.7	84.5	95.0
Orthopedic Surgery	96.7	87.8	99.7	*	*	*
Other <sup>6</sup>	89.3	84.6	92.9	81.1	75.3	86.0
Otolaryngology	†94.6	84.9	98.9	*	*	*
Pediatrics	†92.1	86.2	96.0	84.9	78.1	90.3
Urology	88.7	73.0	97.0	86.7	70.3	96.0
Physician Age						
Under 50 years	†96.5	94.3	98.0	†90.0	86.1	93.2
50 years and over	§80.8	77.1	84.2	§74.6	70.7	78.3
Practice ownership						
Physician ownership	§81.9	78.0	85.4	§76.1	72.1	79.8
Other ownership	†92.4	88.9	95.1	†85.3	81.0	88.9
Missing	*	*	*	*	*	*
Practice location size						
Solo	§61.5	54.5	68.3	§53.7	46.8	60.5
2 physicians	84.5	76.3	90.8	79.6	71.5	86.3
3-5 physicians	†94.1	90.6	96.6	†87.1	81.7	91.4
6-10 physicians	†97.3	94.7	98.9	†91.0	86.4	94.4
11 or more physicians	†99.5	98.3	100.0	†95.8	92.6	97.9
Patient Centered Medical Homes (PCMH) <sup>7</sup>						
Participating PCMH	96.9	93.7	98.7	†93.7	90.2	96.3
Not participating PCMH	§74.9	69.8	79.5	§67.5	62.3	72.4
Don't know or missing	†91.8	87.6	94.9	†84.8	80.1	88.7
Accountable Care Organization (ACO) <sup>8</sup>						
Participating ACO	95.4	91.8	97.8	†92.9	89.0	95.8
Not participating ACO	§71.6	65.6	77.1	§62.5	56.5	68.4
Don't know/missing	†90.1	85.8	93.5	82.8	78.3	86.8
Pay for Performance (P4P) arrangement						
Participating P4P	†95.1	92.6	96.9	†92.9	90.2	95.0
Not participating P4P	§72.2	66.6	77.3	§62.8	57.2	68.2
Don't know/missing	†93.5	89.3	96.5	†86.1	81.3	90.1
Independent Practice Association (IPA) or Physician Hospital Organization (PHO)						
Participating IPA or PHO	†90.4	84.7	94.5	†87.1	81.4	91.6
Not participating IPA or PHO	§76.6	71.8	80.9	§68.4	63.5	73.0
Don't know/missing	†96.4	93.9	98.1	†90.4	86.9	93.3
Medicare insurance acceptance						
Yes	†87.0	84.1	89.6	†81.8	78.6	84.6
No	§78.4	69.6	85.7	§65.4	56.4	73.8
Don't know or missing	*	*	*	*	*	*
Ratio of population to full time employed primary care providers <sup>9,10</sup>						
None of the county designated as a shortage area	90.1	82.4	95.3	82.1	73.8	88.6
Part or whole county designated as a shortage area	85.6	82.7	88.2	79.4	76.3	82.3

Characteristics	Any EHR or EMR system			Certified EHR or EMR system		
	Percent	95% confidence interval		Percent	95% confidence interval	
		Low	High		Low	High
Percentage of county population with income below the poverty level <sup>11</sup>						
Less than 14.0%	83.8	79.4	87.6	77.8	73.2	82.0
14.0% and over	87.7	84.1	90.7	81.2	77.2	84.7
Percentage of Medicaid patients <sup>12</sup>						
0%	§69.8	61.2	77.4	§63.3	54.8	71.3
1.0 to 24.0%	87.5	83.0	91.1	82.1	77.5	86.1
25.0 to 50.0%	†91.3	85.9	95.1	†86.0	†79.76	90.8
Over 50.0%	93.9	86.6	97.9	83.1	71.9	91.2
Missing	88.7	80.7	94.2	81.0	71.9	88.1
Region						
Northeast	§79.6	72.3	85.8	§73.6	66.1	80.3
Midwest	†90.5	86.7	93.5	†84.1	79.8	87.8
South	87.7	84.2	90.7	82.0	78.1	85.5
West	84.7	75.8	91.3	77.2	68.0	84.9
Metropolitan Statistical Area (MSA)						
MSA	86.3	83.5	88.8	79.9	76.8	82.7
non-MSA	81.6	70.4	89.9	77.4	66.6	86.0

\* Estimate does not meet NCHS standards of reliability.

†Percentage is significantly higher than the national percentage (p<0.05; two-tailed, adjusted for dependent comparisons).

§Percentage is significantly lower than the national percentage (p<0.05; two-tailed, adjusted for dependent comparisons).

<sup>1</sup>For any EHR or EMR system, all physicians, non-primary care, surgical, and medical, both the estimate and its complement meet the NCHS standard of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>2</sup>For Certified EHR or EMR systems, all physicians and surgical specialists, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>3</sup>For any EHR or EMR system, general/family practice, pediatrics and other, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>4</sup>For Certified EHR or EMR system, general/family practice, internal medicine, pediatrics, and other, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>5</sup>Estimates for cardiovascular disease, psychiatry, neurology and ophthalmology specialties do not meet the NCHS standards of reliability for either Any or Certified EHR/EMR system, therefore, they are not listed under physician specialty.

<sup>6</sup>Other is a residual category of specialties not included in the following specialty groups: cardiovascular disease, dermatology, general/family practice, general surgery, internal medicine, neurology, obstetrics and gynecology, ophthalmology, orthopedic surgery, otolaryngology, pediatrics, psychiatry or urology.

<sup>7</sup>For any EHR or EMR system, PCMH non-participants, and don't know or missing for PCMH participation, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>8</sup>For any EHR or EMR system, ACO non-participants, and don't know or missing for ACO participation, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>9</sup>Ratio of population to full time employed primary care providers came from the Health Resources & Services Administration (HRSA) Area Health Resource File, 2013. This data was linked to NEHRS data using the Federal Information Processing Standard county codes.

<sup>10</sup>For any EHR or EMR system, areas where the whole or part of the county was designated as a shortage area for primary care providers, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

<sup>11</sup>Percentage of county population with income below the poverty level came from the Health Resources & Services Administration (HRSA) Area Health Resource File, 2015. This data was linked to NEHRS data using the Federal Information Processing Standard county codes.

<sup>12</sup>For any EHR or EMR system, when the percentage of Medicaid patients was under 50%, both the estimate and its complement meet the NCHS standards of reliability. For all other groups, estimates meet the NCHS standards of reliability, their complement does not.

NOTE: Having a certified system was defined by physicians answering “yes” to having a current system that “meets meaningful use criteria defined by the Department of Health and Human Services.” For more information on certified systems and meaningful use criteria go to the Centers for Medicare & Medicaid Services Official Web site for the Medicare and Medicaid EHR Incentive Programs (<https://www.cms.gov/ehrincentiveprograms>). Data on primary, non-primary, surgical and medical care, and physician specialty were previously published Myrick KL, Ogburn DF. Table. Percentage of office-based physicians using any electronic health record (EHR)/electronic medical record (EMR) system and physicians that have a certified EHR/EMR system, by specialty: National Electronic Health Records Survey, 2017. National Center for Health Statistics. January 2019. [https://www.cdc.gov/nchs/data/nehrs/2017\\_NEHRS\\_Web\\_Table\\_EHR\\_Specialty.pdf](https://www.cdc.gov/nchs/data/nehrs/2017_NEHRS_Web_Table_EHR_Specialty.pdf)

SOURCE: NCHS, National Electronic Health Records Survey, 2017.

Suggested citation: Myrick KL, Ogburn DF. Table. Percentage of office-based physicians using any electronic health record (EHR)/electronic medical record (EMR) system and physicians that have a certified EHR/EMR system, by selected characteristics: National Electronic Health Records Survey, 2017. National Center for Health Statistics. July 2019.