2019 National Electronic Health Records Survey (NEHRS) Research Data Center (RDC) Restricted File Layout

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Barcode	PHYID	Physician unique identifier	N	5	80000-90301='Valid range for live data collection'
Q3	NUMLOC	Overall, at how many office locations (excluding hospital emergency or hospital outpatient departments) do you see ambulatory patients in a normal week?	N	3	0-10='Valid range' -9='Blank'
Q5	SETTING	At which of the settings (1-8) in Question 4, do you see the most ambulatory patients? Write the number located next to the box you checked. (For the rest of the survey, we will refer to this as the "reporting location.")	N	3	1-8='Valid range' -7='Not applicable' -9='Blank'
Q7	PSIZECAT	How many physicians, including you, work at this practice (including physicians at the reporting location, and physicians at any other locations of the practice)?	N	3	1='1 physician' 2='2-3 physicians' 3='4-10 physicians' 4='11-50 physicians' 5='51-100 physicians' 6='More than 100 physicians' -7='Not applicable' -9='Blank'
Q9	MIDLEVP1	How many mid-level providers (i.e., nurse practitioners, physician assistants, and nurse midwives) are associated with the reporting location?	N	3	0-101='Valid range' -7='Not applicable' -9='Blank'
Q10	MULTI1	Is the reporting location a single- or multi-specialty (group) practice?	N	3	1='Single' 2='Multi' -7='Not applicable' -9='Blank'
Q11	ACEPTNEW	At the reporting location, are you currently accepting new patients?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'

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Q12.1	NPRIVATE	If yes, which of the following types of payment do you accept from those new patients? Private Insurance.	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q12.2	NMEDCARE	If yes, which of the following types of payment do you accept from those new patients? Medicare.	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q12.3	NMEDCAID	If yes, which of the following types of payment do you accept from those new patients? Medicaid/Children's health insurance program (CHIP).	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q12.4	NWORKCMP	If yes, which of the following types of payment do you accept from those new patients? Worker's compensation.	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q12.5	NSELFPAY	If yes, which of the following types of payment do you accept from those new patients? Self-pay.	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q12.6	NNOCHRGE	If yes, which of the following types of payment do you accept from those new patients? No charge.	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'

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Q13	IPAPHO	Is this medical organization affiliated with an Independent Practice Association (IPA) or Physician Hospital Organization (PHO)?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q14	PCTMCAID	What percent of your patients are insured by Medicaid?	N	3	0-100='Valid range' -7='Not applicable' -9='Blank'
Q15	MCAREINS	Do you treat patients insured by Medicare?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q16	OWNS1	Who owns the reporting location? CHECK ONE.	N	3	1='Physician or physician group' 2='Insurance company, health plan, or Health Maintenance Organization' 3='Community Health Center' 4='Medical / Academic health center' 5='Other hospital' 6='Other health care corporation' 7='Other' -7='Not applicable' -9='Blank'
Q17(1)	NPCMH	Do you or your reporting location currently participate in any of the following activities or programs? Check all that apply. Patient Centered Medical Home (PCMH)	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q17(2)	NACO	Do you or your reporting location currently participate in any of the following activities or programs? Check all that apply. Accountable Care Organization (ACO) arrangement with public or private insurers	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q17(3)	NP4P	Do you or your reporting location currently participate in any of the following activities or programs? Check all that apply. Pay-for-Performance arrangement (P4P)	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q17(4)	NMU	Do you or your reporting location currently participate in any of the following activities or programs? Check all that apply. Medicaid EHR Incentive Program (e.g., Meaningful Use Program)	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q18(1)	MIPS	Do you participate or plan to participate in the following Medicare programs? Check all that apply. Merit-Based Incentive Payment System	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q18(2)	APM	Do you participate or plan to participate in the following Medicare programs? Check all that apply. Advanced Alternative Payment Model	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q18(3)	NOMIPSAPM	Do you participate or plan to participate in the following Medicare programs? Check all that apply. Not applicable	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q18(4)	UNKMIPSAPM	Do you participate or plan to participate in the following Medicare programs? Check all that apply. Don't know	N	3	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q19	EMEDREC	Does your reporting location use an EHR system? Do not include billing record systems.	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'

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Q20.1-14	EHRNAME	What is the name of your primary EHR system?	N	8	1='Allscripts' 2='Amazing Charts' 3='athenahealth' 4='Cerner' 5='eClinicalWorks' 6='e-MDs' 7='Epic' 8='GE/Centricity' 9='Modernizing Medicine' 10= 'NextGen' 11='Practice Fusion' 12='Sage/Vitera/Greenway' 13='Other' 14='Unknown' -7= 'Not Applicable' -9='Blank'
Q21	EHRSAT	Overall, how satisfied or dissatisfied are you with your EHR system?	N	3	1='Very satisfied' 2='Somewhat satisfied' 3="Neither satisfied nor dissatisfied" 4= 'Somewhat dissatisfied' 5= 'Very dissatisfied' 6= 'Not applicable' -7='Not applicable' -9='Blank'
Q22	HHSMU	Does your EHR system meet meaningful use criteria, also called promoting interoperability (certified EHR), as defined by the Department of Health and Human Services?	N	3	1='Yes' 2='No' -7='Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q23	TEMP	How frequently do you use template-based notes in your EHR system? *Template-based notes are generated through forms or pre-filled text in an EHR rather than free text alone.*	N	3	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' 6='Not Applicable' -7='Not Applicable' -8="Don't know" -9='Blank'
Q23a	TEMPCUSTOM	To what extent do you customize your templates?	N	3	1='A great extent' 2='Somewhat' 3='Very little or not at all' -7='Not Applicable' -8="Don't know" -9='Blank'
Q23b	TEMPNOTES	How easy or difficult is it to locate information in template-based notes?	N	3	1='Very easy' 2='Somewhat easy' 3='Somewhat difficult' 4='Very difficult' -7='Not Applicable' -9='Blank'
Q23c	FREENOTES	How easy or difficult is it to locate information in free-text notes?	N	3	1='Very easy' 2='Somewhat easy' 3='Somewhat difficult' 4='Very difficult' -7='Not Applicable' -9='Blank'
Q24a	ESDOH	Does the reporting location use a computerized system to: Record social determinants of health (e.g., employment, education)?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'

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Q24b	EBEHAV	Does the reporting location use a computerized system to: Record behavioral determinants of health (e.g., tobacco use, physical activity, alcohol use)?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24c	ECPOE	Does the reporting location use a computerized system to: Order prescriptions?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24c1	ESCRIP	If computerized orders for prescriptions are included, are prescriptions sent electronically to the pharmacy?	N	3	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q24c2	EWARN	If computerized orders for prescriptions are included, are warnings of drug interactions or contraindications provided?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q24d	ECTOE	Does the reporting location use a computerized system to: Order lab tests?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24e	ERADI	Does the reporting location use a computerized system to: Order radiology tests?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24f	EREMIND	Does the reporting location use a computerized system to: Provide reminders for guideline-based interventions or screening tests?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q24g	ECREATERES	Does the reporting location use a computerized system to: Create educational resources tailored to the patients' specific conditions?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24h	EMSG	Does the reporting location use a computerized system to: Exchange secure messages with patients?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24i	EGENLIST	Does the reporting location use a computerized system to: Generate lists of patients with particular health conditions?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q234j	ECCREPO	Does the reporting location use a computerized system to: Create reports on clinical care measures for patients with specific conditions (e.g., HbA1c for diabetics)?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24k	ECREATEPLAN	Does the reporting location use a computerized system to: Create shared care plans that are available across the clinical care team?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q24l	ESENDCQM	Does the reporting location use a computerized system to: Send clinical quality measures to public and private insurers (e.g., blood pressure control, HbA1C, smoking status)?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q25	TELEMED	Does your practice use telemedicine technology (e.g., audio with video, web videoconference) for patient visits?	N	3	1='Yes' 2='No' -8="Don't know" -9='Blank'

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Q26a	EPTREC	Does your EHR system allow patients to: View their online medical record?	N	3	1='Yes' 2='No' 4='Not applicable' -8="Don't know" -9='Blank'
Q26b	EDLREC	Does your EHR system allow patients to: Download their online medical record to their personal files?	N	3	1='Yes' 2='No' 4='Not applicable' -8="Don't know" -9='Blank'
Q26c	ESENDREC	Does your EHR system allow patients to: Send their online medical record to a third party (e.g. another provider, personal health record)?	N	3	1='Yes' 2='No' 4='Not applicable' -8="Don't know" -9='Blank'
Q26d	SLFMOND	Does your EHR system allow patients to: Upload their health information from devices or apps (e.g. blood glucose meter, Fitbit, questionnaires)?	N	3	1='Yes' 2='No' 4='Not applicable' -8="Don't know" -9='Blank'
Q27	CSFREQ	How frequently do you prescribe controlled substances?	N	3	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' 5="Don't know" -7='Not Applicable' -8="Don't know" -9='Blank'

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Q28	CSELECT	How frequently are prescriptions for controlled substances sent electronically to the pharmacy?	N	3	1='Often' 2='Sometimes' 3='Rarely or Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q29	PDMPFREQ	How frequently do you or designated staff check your state's prescription drug monitoring program (PDMP) prior to prescribing a controlled substance to a patient for the first time?	N	3	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not Applicable' -8="Don't know" -9='Blank'
Q29a	PDMPCHECK	How do you or your designated staff check your state's PDMP?	N	3	1='Use EHR system' 2='Use system outside of EHR (e.g., PDMP portal or secure website)' -7='Not applicable' -8="Don't know" -9='Blank'
Q29b	PDMPUSE	How easy or difficult is it to use your state's PDMP to find your patient's information?	N	3	1='Very easy' 2='Somewhat easy' 3='Somewhat difficult' 4='Very difficult' -7='Not Applicable' -8="Don't know" -9='Blank'
Q29c	PDMPSTATE	When checking your state's PDMP, do you or designated staff typically request to view PDMP data from other states prior to prescribing a controlled substance for the first time?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'

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Q29d(1)	PDMP1	Have you done any of the following as a result of using the PDMP? Reduced or eliminated controlled substance prescriptions for a patient	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(2)	PDMP2	Have you done any of the following as a result of using the PDMP? Changed controlled substance prescriptions to non-opioid pharmacologic (e.g., NSAIDS or acetaminophen) or non-pharmacologic therapy (e.g., exercise/physical therapy or CBT)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(3)	PDMP3	Have you done any of the following as a result of using the PDMP? Prescribed naloxone	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(4)	PDMP4	Have you done any of the following as a result of using the PDMP? Referred additional treatment (e.g., substance abuse treatment, psychiatric or pain management)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(5)	PDMP5	Have you done any of the following as a result of using the PDMP? Confirmed patients' misuse of prescriptions (e.g., engage in doctor shopping)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(6)	PDMP6	Have you done any of the following as a result of using the PDMP? Confirmed appropriateness of treatment	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

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Q29d(7)	PDMP7	Have you done any of the following as a result of using the PDMP? Assessed pain and function of patient (e.g., PEG)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(8)	PDMP8	Have you done any of the following as a result of using the PDMP? Consulted with other prescribers listed in PDMP report	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q29d(9)	PDMP9	Have you done any of the following as a result of using the PDMP? Consulted and/or coordinate with other members of the care team	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q30	METHSRPAP	Do you ONLY send and receive patient health information through paper-based methods including fax, eFax, or mail?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q31	METHSEHRWEB	Do you electronically send patient health information to other providers outside your medical organization using an EHR (not eFax) or a Web Portal (separate from EHR)?	N	3	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q32a	SEAMBOUT	Do you send patient health information to any of the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Ambulatory care providers outside your organization	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't Know" -9='Blank'

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Q32b	SEHOSPU	Do you send patient health information to any of the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Hospitals unaffiliated with your organization	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't Know" -9='Blank'
Q32c	SEBHP	Do you send patient health information to any of the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Behavioral health providers	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't Know" -9='Blank'
Q32d	SELTCP	Do you send patient health information to any of the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Long-term care providers	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't Know" -9='Blank'
Q33	METHREHRWEB	Do you electronically receive patient health information from other providers outside your medical organization using an EHR system (not eFax) or a Web Portal (separate from EHR)?	N	3	1='Yes' 2='No' -7='Not Applicable' -8="Don't know" -9='Blank'
Q34a	REAMBOUT	Do you receive patient health information from the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Ambulatory care providers outside your organization	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't know" -9='Blank'

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Q34b	REHOSPU	Do you receive patient health information from the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Hospitals unaffiliated with your organization	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't know" -9='Blank'
Q34c	REBHP	Do you receive patient health information from the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Behavioral health providers	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't know" -9='Blank'
Q34d	RELTCP	Do you receive patient health information from the following providers electronically? Electronically does not include scanned or PDF documents, fax, or eFax. Long-term care providers	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't know" -9='Blank'
Q35	PHAPHI	Does your reporting location electronically send or receive patient health information with public health agencies? *Public health agencies can include the CDC, state or local public health authorities.*	N	3	1='Yes' 2='No' 4="Not applicable" -7='Not Applicable' -8="Don't know" -9='Blank'
Q35a(1)	PHA1	What types of information do you electronically send or receive? Syndromic surveillance data	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q35a(2)	PHA2	What types of information do you electronically send or receive? Case reporting of reportable conditions	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

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Q35a(3)	PHA3	What types of information do you electronically send or receive? Immunization data	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q35a(4)	PHA4	What types of information do you electronically send or receive? Public health registry data (e.g., cancer)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q36a	HPCNOT	For providers outside your medical organization, do you regularly electronically send and receive, send only, or receive only, the following types of patient health information? Progress/consultation notes	N	3	1='Both send and receive electronically' 2='Send electronically only' 3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
Q36b	HREF	For providers outside your medical organization, do you regularly electronically send and receive, send only, or receive only, the following types of patient health information? Clinical registry data	N	3	1='Both send and receive electronically' 2='Send electronically only' 3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
Q36c	HEDNOT	For providers outside your medical organization, do you regularly electronically send and receive, send only, or receive only, the following types of patient health information? Emergency Department notifications	N	3	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
Q36d	HTOCSUM	For providers outside your medical organization, do you regularly electronically send and receive, send only, or receive only, the following types of patient health information? Summary of care records for transitions of care or referrals	N	3	1='Both send and receive electronically' 2='Send electronically only' 3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'

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Q37	NSEARCH	When seeing a new patient or a patient who has previously seen another provider, do you electronically search or query for your patient's health information from sources outside of your medical organization? *This could include via remote or view only access to other facilities' EHR or health information exchange organization.*	N	3	1='Yes' 2='No' -7='Not Applicable' -8="Don't know" -9='Blank'
Q37a(1)	NPCNOT	Do you electronically search for the following patient health information from sources outside your medical organization? Progress/consultation notes	N	3	1='Yes' 2='No' 4='Not applicable' -7='Not Applicable' -8="Don't know" -9='Blank'
Q37a(2)	NVAX	Do you electronically search for the following patient health information from sources outside your medical organization? Vaccination/Immunization history	N	3	1='Yes' 2='No' 4='Not Applicable' -7='Not applicable' -8="Don't know" -9='Blank'
Q37a(3)	NCSUM	Do you electronically search for the following patient health information from sources outside your medical organization? Summary of care record	N	3	1='Yes' 2='No' 4='Not Applicable' -7='Not applicable' -8="Don't know" -9='Blank'
Q38	INTPHI	Does your EHR system integrate any type of patient health information received electronically (not eFax) without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 4='Not Applicable' -7='Not applicable' -8="Don't know" -9='Blank'

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Q38a	INTCSUM	Does your EHR system integrate summary of care records received electronically (not eFax) without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 4='Not Applicable' -7='Not applicable' -8="Don't know" -9='Blank'
Q39a	COMPMED	Do you reconcile the following types of clinical information electronically received from providers outside your medical organization? Reconciling involves comparing a patient's information from another provider with your practice's clinical information. Medication lists	N	3	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q39b	COMPALL	Do you reconcile the following types of clinical information electronically received from providers outside your medical organization? Reconciling involves comparing a patient's information from another provider with your practice's clinical information. Medication allergy lists	N	3	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q39c	COMPPROB	Do you reconcile the following types of clinical information electronically received from providers outside your medical organization? Reconciling involves comparing a patient's information from another provider with your practice's clinical information. Problem lists	N	3	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q40	CINPOC	When treating patients seen by providers outside your medical organization, how often do you or your staff have clinical information from those outside encounters electronically available at the point of care? *Electronically available does not include scanned or PDF documents.*	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 6='I do not see patients outside my medical organization' -7='Not Applicable' -8="Don't know" -9='Blank'
Q41	EUSEPHIOUT	How frequently do you <u>use</u> patient health information electronically (not eFax) received from providers or sources outside your organization when treating a patient?	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -8="Don't know" -9='Blank'
Q41a(1)	REASON1	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Information not always available when needed (e.g. not timely, missing)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q41a(2)	REASON2	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Do not trust accuracy of information	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q41a(3)	REASON3	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Difficult to integrate information in EHR	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

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Q41a(4)	REASON4	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Information not available to view in EHR as part of clinicians' workflow	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q41a(5)	REASON5	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Information not useful (e.g. redundant or unnecessary information)	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q41a(6)	REASON6	If rarely or never use patient health information electronically received from providers or sources outside your organization, please indicate the reason(s) why. Difficult to find necessary information	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q42a	HIEQOC	Please indicate your level of agreement with each of the following statements. Electronically exchanging clinical information with other providers outside my medical organization _____. improves my practice's quality of care.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q42b	HIEEFF	Please indicate your level of agreement with each of the following statements. Electronically exchanging clinical information with other providers outside my medical organization _____. increases my practice's efficiency.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q42c	HIEPRVRXER	Please indicate your level of agreement with each of the following statements. Electronically exchanging clinical information with other providers outside my medical organization _____. prevents medication errors.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q42d	HIECARE	Please indicate your level of agreement with each of the following statements. Electronically exchanging clinical information with other providers outside my medical organization_____. enhances care coordination.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q42e	HIEDUPTEST	Please indicate your level of agreement with each of the following statements. Electronically exchanging clinical information with other providers outside my medical organization _____. reduces duplicate test ordering.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q43a	LACKCAP	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. Providers in our referral network lack the capability to electronically exchange (e.g., no EHR system or health information exchange connection).	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43b	ITSTAFF	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. We have limited or no IT staff.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q43c	HIECOSTOUT	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> Electronic exchange involves incurring additional costs.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43d	MULPORTOUT	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> Electronic exchange involves using multiple systems or portals.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43e	EVENDOROTH	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> Electronic exchange with providers using a different EHR vendor is challenging.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43f	INFOHIE	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> The information that is electronically exchanged is not useful.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43g	ELOCATADD	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> It is difficult to locate the electronic address of providers.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'
Q43h	LOSEPAT	Please indicate whether these issues are barriers to electronic information exchange <u>with providers outside your medical organization.</u> My practice may lose patients to other providers if we exchange information.	N	3	1='Yes' 2='No' 4= 'Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q44	TIMEOUT	On average, how many hours <u>per day</u> do you spend <u>outside of normal office hours</u> documenting clinical care in your medical record system?	N	3	1='None' 2='Less than 1 hour' 3='1 to 2 hours' 4='More than 2 hours to 4 hours' 5='More than 4 hours' -9='Blank'
Q45	STAFFSUP	Do you have staff support (e.g., scribe) to assist you with documenting clinical care in your medical record system?	N	3	1='Yes' 2='No' -9='Blank'
Q46	EASEDOC	How easy or difficult is it to document clinical care using your medical record system?	N	3	1='Very easy' 2='Somewhat easy' 3='Somewhat difficult' 4='Very difficult' 5='Not applicable' -9='Blank'
Q47a	TIMEDOC	Please indicate whether you agree or disagree with the following statements about using your medical record system.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q47b	TIMEPAT	Please indicate whether you agree or disagree with the following statements about using your medical record system. The amount of time I spend documenting clinical care does not reduce the time I spend with patients.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Q47c	TIMEBILL	Please indicate whether you agree or disagree with the following statements about using your medical record system. Additional documentation required solely for billing but not clinical purposes increase the overall amount of time I spend documenting clinical care.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q48	DOCALIGN	Clinical care documentation requirements for private insurers generally align with Medicare requirements.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q50	WCOMPEMR	Who completed this survey? (Check all that apply)	N	3	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
Admin box 2	COMPTYPE	How the survey was completed.	N	3	1='Mail' 2='Telephone' 3='Web' 4='Help Desk' -7='Not Applicable'
Keyed1	WAVECOMP	Wave the survey was completed.	N	3	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web' 6='No data for this participant' -7='Not Applicable'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Derived	DISPEMR	Final disposition of NEHRS	N	8	1='Complete (phone, mail, or web)' 2='Eligible-Refused' 3='Ineligible or out-of-scope' 4='Unlocatable' 5='Unknown Eligibility – Refusal' 6='Eligible – Partially Complete' 7='Unknown Eligibility – Partially Complete'
RECODED AND CREATED VARIABLES					
Recoded from SPEC	SPECR	Physician specialty group	N	3	01='General/Family practice' 03='Internal Medicine' 04='Pediatrics' 05='General Surgery' 06='Obstetrics & Gynecology' 07='Orthopedic Surgery' 08='Cardiovascular Diseases' 09='Dermatology' 10='Urology' 11='Psychiatry' 12='Neurology' 13='Ophthalmology' 14='Otolaryngology' 15='Other specialties' -7='Not Applicable'
Recoded from SPECR & SPEC	SPECCAT	Physician specialty type obtained from response to survey	N	3	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
Recoded from physician sample file	MDDO	Type of doctor (Medical Doctor (MD)/Doctor of Osteopathic Medicine (DO)) as sampled	N	3	1='MD' 2='DO'
Recoded from physician sample file	MSA	Metropolitan statistical area (MSA) status (2 categories)	N	3	1='MSA' 2='non-MSA'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Physician sample MSA. Used for weighting purposes.	SAMPLEMSA	Metropolitan statistical area (MSA) status (2 categories)	N	3	1='MSA' 2='non-MSA'
Recoded from physician sample file	METRSTAT	Metropolitan statistical area (MSA) status (3 category)	N	3	1='Metropolitan' 2='Micropolitan' 3='Non-metropolitan (neither)'
Recoded: MULTI1-LOCSIZE	MULTIR1	Recoded practice type: solo and multiple practices	N	3	1='Single-specialty practice' 2='Multi-specialty practice' 3='Solo practice' -9='Blank'
Recoded from LOCSIZE	LOCSIZCAT	Size of the office with most ambulatory care patients grouped based on LOCSIZE. (Trend analysis involving grouped office size should use PRACTSIZ prior to 2013)	N	8	1='Solo practice' 2='Two physicians' 3='3 to 5 physicians' 4='6 to 10 physicians' 5='11+ physicians' -9='Blank'
SAMPLE FILE VARIABLES					
Physician Sample File: updated by zip if physician moved	REGION	Region of the Physician's interview office	N	3	1='Northeast' 2='Midwest' 3='South' 4='West'
Physician Sample File	PHYSEX	Sex of Physician	N	8	1='Female' 2='Male' -9='Blank'
Physician Sample File	SAMPWGT	Physician sample weight from State and doctor selection	N	8	1-1275.27='valid range'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Recode from PYOB	MDAGE	Age group (in years) of physician (five category)	N	8	1='Under 35 years' 2='35-44 years' 3='45-54 years' 4='55-64 years' 5='65-84 years'
Recode from PYOB	PAGE50	Age group (in years) of physician (two category)	N	8	1='Under 50 years' 2='50+ years'
AREA RESOURCE FILE (ARF) VARIABLES					
ARF-Derived	ARFHHY	Median household income, 2017 [F13226-17]	N	6	0-999,999='Valid range'
ARF-Derived	ARFPPOV	Percent of population whose income is below poverty level, 2017 [F13321-17]	N	8	0.00-100.00='Valid range'
ARF-Derived	ARFPWNH	Percent of population who is white, not Hispanic, 2017 [F13926 & F13927-17]	N	8	0.00-100.00='Valid range'
ARF-Derived	ARFPMCAID	Medicaid discharges per 1000 population, 2017 [F10315 & F11984-17]	N	8	0.01-999.99='Valid range' -9='Blank'
ARF-Derived	ARFP65	Percent of population who is 65 years and over, 2017 [F14083-17]	N	8	0.00-100.00='Valid range'
ARF-Derived	ARFPRIMARYSA	Health Professional Shortage Area (HPSA) Measure: Population to full-time equivalent (FTE) primary care provider ratio (05/19) [F09787-19]	N	3	0='None of the county designated as a shortage area' 1='Whole county designated as a shortage area' 2='Part of county designated as a shortage area'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
ARF-Derived	ARFMENTALSA	Health Professional Shortage Area (HPSA) Measure: Population to full-time equivalent (FTE) mental health care provider ratio (05/19) [F12492-19]	N	3	0='None of the county designated as a shortage area' 1='Whole county designated as a shortage area' 2='Part of county designated as a shortage area'
ARF-Derived	ARFGROTOT	Percent change in total population, 2008 to 2018 [F11984-18 & F11984-08]	N	8	-100.00-100.00='Valid range'
ARF-Derived	ARFGRO65	Percent change in population 65 years and over, 2011 to 2017 [F14083-17 & F14083-11]	N	8	-100.00-100.00='Valid range'
National Center for Health Statistics (NCHS) URBAN-RURAL FILE					
Urban-Rural File	URBANRU	NCHS urban-rural classification	N	3	1='Large central metropolitan' 2='Large fringe metropolitan' 3='Medium metropolitan' 4='Small metropolitan' 5='Micropolitan (non-metropolitan)' 6='Non-core (non-metropolitan)'
SUDAAN VARIABLES					
Sample=PHYID	PROVIDE	Provider Code	N	8	80000-90301='Valid range for live data collection'
Derived	YEAR	Survey year	N	8	2019='Year: 2019'
Derived	STRAT	Unmasked stratum	N	8	1-56='Valid range'
Derived	SUBFILE	Survey identifier	N	8	1='NEHRS'

Question number (Q#)-2019 NEHRS	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
Derived	POPDOC	Estimated number of NEHRS eligible physicians	N	8	1-9,999,999='Valid range'
Derived	MAILWGT	Rounded adjusted ratio adjusted physician weight (responding physicians)	N	8	0='Out of scope or refused doctors' 1-999999='Responding physicians'