2017 PEEHRS HIE

Question number(Q#)-2017 PEEHRS HIE	Variable Name	Variable Label	Values for variable range and labels
Barcode	**PHYID**	**Physician ID**	80000-90304='Valid range for live data collection'
Q1	**LOCATION**	Do you still work at the location listed below?	1='Yes' 2='No' -9='Blank'
Q2	**EHRSAT**	Overall, how satisfied or dissatisfied are you with your EHR system?	1='Very satisfied' 2='Somewhat satisfied' 3="Neither satisfied nor dissatisfied" 4= 'Somewhat dissatisfied' 5= 'Very dissatisfied' -7='Not applicable' -9='Blank'
Q3	**EHRCHANGE**	Has your reporting location changed EHR system vendor within the last 6 months?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q4	**HHSMU_HIE**	Does your EHR system meet meaningful use criteria (certified EHR) as defined by the Department of Health and Human Services?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
Q5a	**ESENDID**	Does the reporting location use an EHR system to send immunization data to immunization registries?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5b	**ESENDSD**	Does the reporting location use an EHR system to send syndromic surveillance data to public health agency?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5c	**ESENDCHRCOND**	Does the reporting location use an EHR system to send case reporting of reportable conditions (e.g., measles, tuberculosis, Ebola) to public health agency?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q5d	**ESENDCQM**	Does the reporting location use an EHR system to send clinical quality measures to public and private insurers (e.g., blood pressure control, Hb1AC, smoking status)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5e	**EREVCQM**	Does the reporting location use an EHR system to review your practice's performance on clinical quality measures?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5f	**ECREATERES**	Does the reporting location use an EHR system to create educational resources tailored to the patients' specific conditions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5g	**ECREATEPLAN**	Does the reporting location use an EHR system to create shared care plans that are available across clinical care team?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q5h	**IDHIRISK**	Does the reporting location use an EHR system to identify high risk patients that may require follow-up and services?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q6a	**EPTREC**	Does your EHR have the computerized capability to allow patients to view their online medical record?	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q6b	**EDLREC**	Does your EHR have the computerized capability to allow patients to download their online medical record to their personal files?	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q6c	**ESENDREC**	Does your EHR have the computerized capability to allow patients to send their online medical record to a third party (e.g. another provider, personal health record)?	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q6d	**SLFMOND**	Does your EHR have the computerized capability to allow patients to upload their health information from devices or apps (e.g. blood glucose meter, Fitbit, questionnaires)?	1='Yes' 2='No' -8="Don't know" -9='Blank'

Q7	**TELEMED**	Does your practice use telemedicine technology (e.g. telephone, web videoconference) for patient visits?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q8	**SECURITY12**	Has your practice made an assessment of the potential risks and vulnerabilities of your electronic health information within the last 12 months? This assessment would help identify privacy- or security-related issues that may need to be corrected.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q9	**EHRACCESS**	Are you required to use <u>more than one</u> of the following methods to access your EHR system? Methods to access your system might include: username and passwords to login, security card or key, pin, biometric data.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q10	**EPATAUTHORIZ**	Does your practice generally obtain written authorization from patients to electronically exchange information for treatment purposes? *Note: HIPPA generally permits providers to electronically share patient health information for treatment of patients they have in common without written authorization from the patient.*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q11	**MU**	Do you participate in the Medicaid EHR Incentive Program (e.g. Meaningful Use Program)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q12	**MIPS**	Do you participate or plan to participate in the Merit-Based Incentive Payment System? *Merit-Based Incentive Payment System, a new program for Medicare-participating physicians, will adjust payment based on performance and consolidate three programs: the Physician Quality Reporting System, the Physician Value-based Payment Modifier, and the Medicare EHR Incentive Program ("Meaningful Use").*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q13	**APM**	Do you participate or plan to participate in the Alternative Payment Model? *Alternative Payment Models are new approaches to paying for medical care through Medicare that incentivize quality and value, including CMS Innovation Center model, Medicare Shared Savings Program, Health Care Quality Demonstration Program or Demonstration required by federal law.*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q14	**EREFINFO**	When you refer patients to providers outside your medical organization, does your practice typically send their clinical information to these providers electronically?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q15	**EREFRESULTS**	Does your practice typically receive referral results electronically from providers outside your medical organization?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16a	**NOHIEOUT**	Providers outside my medical organization cannot electronically exchange data with me.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16b	**HIECOSTOUT**	My practice would have to pay additional costs to electronically exchange data with providers outside my medical organization.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16c	**CUMBERSOME**	It is cumbersome to use my EHR to electronically exchange data with providers outside my medical organizations.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16d	**MULPORTOUT**	I have to use multiple systems or portals to electronically exchange data with providers outside my medical organization.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q16e	**EVENDOROTH**	It is challenging to electronically exchange data with other providers who use a different EHR vendor.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16f	**ELOCATADD**	It is difficult to locate the address of the provider to electronically send patient health information.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16g	**HIESECURITY**	My practice is concerned about the privacy and security of health information that is electronically exchanged.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16h	**INFOHIE**	The information that is electronically exchanged is not useful.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q17a	**HIEQOC**	Electronically exchanging clinical information with other providers outside my medical organization improves my practice's quality of care	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q17b	**HIEEFF**	Electronically exchanging clinical information with other providers outside my medical organization increases my practice's efficiency	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q17c	**HIEPRVRXER**	Electronically exchanging clinical information with other providers outside my medical organization prevents medication errors.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

Q17d	**HIEDUPTEST**	Electronically exchanging clinical information with other providers outside my medical organization reduces duplicate test ordering.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q17e	**HIETRUST**	Electronically exchanging clinical information with other providers outside my medical organization provides me with clinical information that I can trust.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18a	**ECQM**	Electronically reviewing quality measures from my EHR helps me to identify areas for improvement.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18b	**CLINOUT**	Clinical information that I need from outside sources is readily available within my EHR.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18c	**NOFILLRX**	My EHR allows me to follow-up with patients who have not filled their prescriptions.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18d	**ECTOE_HIE**	Electronic access to recent laboratory results from other providers saves me from ordering the same test.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18e	**ERESULT_HIE**	Electronic access to recent images from other providers saves me from ordering the same image.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

Q18f	**ENOTIFYHOSP**	Electronically receiving notifications of ED visits or hospital admission enables me to follow-up with patients.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18g	**EMEDID_HIE**	Reconciling medication data electronically received from outside my medical organization increases patient safety.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q18h	**EZCSUM**	Electronically exchanging care summaries with providers outside my medical organization enhances care coordination.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q19	**GIVENCHS**	Would you be willing to have NCHS contact your practice to obtain electronic health record (EHR) data on patient visits for statistical purposes only?	1='Yes' 2='No' -8="Uncertain" -9='Blank'
Q20	**IGNCHS**	Will your EHR system be able to produce HL7 CDA documents according to the NCHS Implementation Guide?	1='Yes, my EHR system will be able to produce such documents' 2='Yes, I will need to verify with my administrative staff' 3="No" -8="Don't know" -9='Blank'
Q22	**WCOMPEMR_HIE**	Who completed this survey? (Check all that apply)	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
Admin box 2	**COMPTYPE_HIE**	How survey was completed	1='Mail' 2='Telephone' 3='Web' 4='Help Desk' -7='Not applicable' -9='Blank'
Keyed	**WAVECOMP_HIE**	Survey was completed during which wave	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web'

			6='Help Desk' 7='No data for this participant' -7='Not applicable' -9='Blank'
Derived	**DISPEMR**	Derived final disposition of EMR Mail Survey	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'
2017 NEHRS			
2017 NEHRS Q3	**NUMLOC**	Overall, at how many office locations do you see ambulatory patients in a normal week?	0-20='Valid range' -9='Blank'
2017 NEHRS Q5	**SETTING**	Among settings (1-8) checked in 4, the office setting with the most ambulatory care visits.	1='Private solo or group practice' 2='Freestanding clinic or Urgent Care Center' 3='Community Health Center (e.g., 'Federally Qualified Health Center [FQHC], federally funded clinics or ""look-alike"" clinics)' 4='Mental health center 5='Non-federal government clinic (e.g., state, county, city, maternal and child health, etc.)' 6='Family planning clinic (including Planned Parenthood)' 7='Health maintenance organization, health system or prepaid practice (e.g., Kaiser Permanente)' 8='Faculty practice plan (an organized group of physicians that treats patients referred to an academic medical center)' -7='Not applicable' -9='Blank'
2017 NEHRS Q7	**PSIZECAT**	Number of physicians (including you) working at this practice (at all locations).	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'
2017 NEHRS Q9	**MIDLEVP1**	How many mid-level providers are associated with the reporting location?	0-101='Valid range' -7='Not applicable' -9='Blank'

2017 NEHRS Q10	**MULTI1**	Is the reporting location a single- or multi-specialty (group) practice?	1='Single' 2='Multi' -7='Not applicable' -9='Blank'
2017 NEHRS Q11	**ACEPTNEW**	At the reporting location, are you currently accepting new patients?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.1	**CAPITATE**	Type of payment accepted - Capitated Private Insurance.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.2	**NOCAP**	Type of payment accepted - Noncapitated Private Insurance.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.3	**NMEDCARE**	Type of payment accepted – Medicare.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.4	**NMEDCAID**	Type of payment accepted - Medicaid.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.5	**NWORKCMP**	Type of payment accepted - Worker's compensation.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.6	**NSELFPAY**	Type of payment accepted - Self-pay.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.7	**NNOCHRGE**	Type of payment accepted - No charge.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q13	**PCTMCAID**	What percent of your patients are insured by Medicaid?	0-100='Valid range' -7='Not applicable' -9='Blank'

2017 NEHRS Q14	**MCAREINS**	Do you treat patients insured by Medicare?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q15	**OWNS1**	Who owns the reporting location? CHECK ONE.	1='Physician/Physician group' 2='Insurance company, health plan, or HMO' 3='Community Health Center' 4='Medical / Academic health center' 5='Other hospital' 6='Other health care corporation' 7='Other' -7='Not applicable' -9='Blank'
2017 NEHRS Q16	**EMEDREC**	Does your practice use electronic medical records? (not including billing records)	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q17.1	**EHRNEVER**	Never used an EHR	0='Box is not marked' 1='Box is marked' -7='Not Applicable' -9='Blank'
2017 NEHRS Q17.2	**EHRUNDERYR**	Under one year any EHR system use	0='Box is not marked' 1='Box is marked' -7='Not Applicable' -9='Blank'
2017 NEHRS Q17.3	**EHRUSEYRCT**	Estimate the approximate number of years you have used any EHR system	0-20='Valid range' -7='Not Applicable' -8='Box checked but no year entered' -9='Blank'
2017 NEHRS Q18	**HHSMU**	Does your current EHR system meet meaningful use criteria (certified EHR) as defined by the Department of Health and Human Services?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q19a	**EDEMOG**	Does the reporting location have this computerized capability: recording patient history and demographic information?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19b	**EPROLST**	Does the reporting location have this computerized capability: record patient problem lists?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q19c	**EMEDALG**	Does the reporting location have a computerized system for recording patients' medications and allergies?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19d	**EPNOTES**	Does the reporting location have this computerized capability: recording clinical notes?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19e	**ERESULT**	Does the reporting location have a computerized system for viewing lab results?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19f	**EIMGRES**	Does the reporting location have a computerized system for viewing imaging results?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19g	**ECPOE**	Does the reporting location have a computerized system for computerized orders for prescriptions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19g1	**ESCRIP**	If computerized orders for prescriptions are included, are prescriptions sent electronically to the pharmacy?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19g2	**EWARN**	If computerized orders for prescriptions are included, are there warnings of drug interactions or contraindications provided?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19h	**ECTOE**	Does the reporting location have a computerized system for computerized orders for lab tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19i	**ERADI**	Ordering radiology tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q19j	**EREMIND**	Does the reporting location have a computerized system for reminders for guideline-based interventions or screening tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19k	**EMEDID**	Does the reporting location have a computerized system for computerized orders for reconciling lists of patient medications to identify the most accurate list?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19l	**ESUM**	Does the reporting location have a computerized system for providing patients with clinical summaries for each visit?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19m	**EMSG**	Does the reporting location have a computerized system for exchanging secure messages with patients?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19n	**EIDPT**	Does the reporting location have a computerized system for identifying patients due for preventive or follow-up care?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19o	**EGENLIST**	Does the reporting location have a computerized system for generating lists of patients with particular health conditions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19p	**ECCREPO**	Does the reporting location have a computerized system for providing data to create reports on clinical care measures for patients with specific conditions (e.g., HbA1c for diabetics)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q20	**PCMH**	Has your reporting location been recognized as a Patient Centered Medical Home (PCMH) by a state, a commercial health plan, or a national organization?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q21	**ACO**	Does the reporting location participate in an Accountable Care Organization (ACO) arrangement with Medicare or private insurers?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q22	**P4P**	Does the reporting location participate in a Pay-for-Performance arrangement, where you can receive financial bonuses based on your performance?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q23	**IPAPHO**	Is this medical organization affiliated with an Independent Practice Association (IPA) or Physician Hospital Organization (PHO)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q24	**METHSRPAP**	Do you ONLY send and receive patient health information through paper-based methods including fax, eFax, or mail?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q25	**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)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q26a	**SEAMBOUT**	Do you send patient health information to ambulatory care providers outside your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26b	**SEHOSPU**	Do you send patient health information to hospitals unaffiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'

2017 NEHRS Q26c	**SEHOSPA**	Do you send patient health information to hospitals affiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26d	**SEBHP**	Do you send patient health information to behavioral health providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26e	**SELTCP**	Do you send patient health information to long-term care providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q27	**METHREHRWEB**	Do you receive patient health information from other providers outside your medical organization using EHR (not eFax) or a Web Portal (separate from EHR)?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28a	**REAMBOUT**	Do you receive patient health information to ambulatory care providers outside your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28b	**REHOSPU**	Do you receive patient health information to hospitals unaffiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28c	**REHOSPA**	Do you receive patient health information to hospitals affiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'

2017 NEHRS Q28d	**REBHP**	Do you receive patient health information to behavioral health providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28e	**RELTCP**	Do you receive patient health information to long-term care providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2= 'No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q29	**EUSEPHIOUT**	How frequently do you use patient health information electronically (not eFax) received from providers or sources outside your organization when treating a patient?	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
2017 NEHRS Q29a	**REASON1**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 1='Information not always available when needed (e.g. not timely)'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON2**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 2='Do not trust accuracy of information'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON3**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 3='Difficult to integrate information in EHR'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON4**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 4= 'Information not available to view in EHR as part of clinicians' workflow '	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

2017 NEHRS Q29a	**REASON5**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 5= 'Information not useful (e.g. redundant or unnecessary information)'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON6**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 6= 'Difficult to find necessary information'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON7**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 7= 'Other'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q30a	**HMEDLIST**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only medication lists?	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'
2017 NEHRS Q30b	**HPROLST**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only patient problem lists?	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'
2017 NEHRS Q30c	**HMEDALG**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only medication allergies lists?	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'
2017 NEHRS Q30d	**HIMGREP**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only imaging reports?	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'

2017 NEHRS Q30e	**HLABRES**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only laboratory results?	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'
2017 NEHRS Q30f	**HREGDATA**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only public health registry data (e.g., immunizations, cancer)?	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'
2017 NEHRS Q30g	**HREF**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only clinical registries?	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'
2017 NEHRS Q30h	**HDISSUM**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only hospital discharge summaries?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q30i	**HEDNOT**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only Emergency Department notifications?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q30j	**HTOCSUM**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only summary of care records for transitions of care or referrals?	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'

2017 NEHRS Q30k	**PTGENDATA**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only patient-generated data (e.g. data from self-monitoring devices or mobile health applications)?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q31	**ITOCSUMDO**	Do you integrate summary of care records into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q32	**ITPHIOTH**	Do you integrate any other types of patient health information into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q33a-c, Q34a-m		These variables are not available for analysis, as they were not asked of all applicable respondents.	
2017 NEHRS Q35	**CINPOC**	When treating patients seen by other 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.	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 6='I do not see patients outside my medical organization' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q36	**RXCTRL**	Do you prescribe controlled substances?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q37	**ERXCTRL**	Are prescriptions for controlled substances sent electronically to the pharmacy?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'

2017 NEHRS Q38	**SEARCHDO**	Do you electronically search for your patient's health information from sources outside of your medical organization (e.g., remote access to other facility, health information exchange organization)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q39.1	**SEARCHTYPE1**	Lab results	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.2	**SEARCHTYPE2**	Patient problem lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.3	**SEARCHTYPE3**	Imaging reports	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.4	**SEARCHTYPE4**	Medication lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.5	**SEARCHTYPE5**	Medication allergy lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.6	**SEARCHTYPE6**	Discharge summaries	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.7	**SEARCHTYPE7**	Vaccination history	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.8	**SEARCHTYPE8**	Advance directives	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.9	**SEARCHTYPE9**	Care plans	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q41	**WCOMPEMR**	Who completed the form?	1='Sampled physician' 2='Office staff' 3='Other' -9='Blank'

2017 NEHRS Admin box 2	**COMPTYPE**	How survey was completed	1='Mail' 2='Telephone' 3='Web' -7='Not Applicable' -9='Blank'
2017 NEHRS Keyed	**WAVECOMP**	Survey was completed during which wave	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web' 6='Help Desk' 7='No data for this participant' -7='Not applicable' -9='Blank'
RECODED AND CREATED VARIABLES			
2017 NEHRS Recoded from SPEC	**SPECR**	Numeric specialty obtained from response to survey for In scope providers. Doctors of Osteopath dispersed throughout.	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'
2017 NEHRS Recoded from Physician sample file	**MDDO**	Type of doctor (MD/DO) as sampled	1='MD' 2='DO'
2017 NEHRS Recoded from Physician sample file	**MSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Physician sample MSA. Used for weighting purposes.	**SAMPLEMSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Recoded from Physician sample file	**METRSTAT**	Metropolitan Status (3 categories)	1='Metropolitan' 2='Micropolitan' 3='Non-metropolitan (neither)'
Created: PIIZIP and ZIPPHYS	**ZIPPHY**	Physician's zip code updated. If (PIIZIP) is not blank then use. Otherwise, use (ZIPPHYS)	'01001'-'99950'=valid range'

2017 NEHRS Recoded from SPECR & SPEC	**SPECCAT**	Physician specialty type obtained from response to survey	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
2017 NEHRS Recoded: MULTI1-LOCSIZE	**MULTIR1**	Recoded practice type: solo and multiple practices - using MULTI1 and LOCSIZE.	1='Single-specialty practice' 2='Multi-specialty practice' 3='Solo practice' -7='Not Applicable' -8='Uncertain'
2017 NEHRS 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)	1='Solo practice' 2='Two physicians' 3='3 to 5 physicians' 4='6-10 physicians' 5='11+ physicians' -9='Blank'
SAMPLE FILE			
Physician Sample File: updated by zip if physician moved	**REGION**	Region of the Physician's interview office	1='NE' 2='MW' 3='S' 4='W'
2017 NEHRS Physician Sample File	**PHYSEX**	Sex of Physician	1='Female' 2='Male' -9='Blank'
2017 NEHRS Physician Sample File	**ZIPPHYS**	Sample Zip Code (5 digit)	' '='Blank' other='valid entry'
2017 NEHRS Physician Sample File	**SAMPWGT**	Physician sample weight from State and doctor selection	001-999='valid range'
2017 NEHRS Recode from PYOB	**MDAGE**	Physician age; grouped	1='Under 35 years' 2='35-44 years' 3='45-54 years' 4='55-64 years' 5='65-84 years' -9='Blank'
2017 NEHRS Recode from PYOB	**PAGE50**	Physician age; two groups	1='Under 50 years' 2='50+ years'
ARF Variables			
ARF-Derived	**ARFHHY**	Median household income (2013) [F13226-13]	0-999,999='Valid range' -9='Blank'
ARF-Derived	**ARFPPOV**	Percent where income is below poverty level(2013) [F13321-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPWNH**	Percent of population who is white, not Hispanic(2013) [F13926 & F13927-13]	0.00-100.00='Valid range' -9='Blank'

ARF-Derived	**ARFPMCAID**	Medicaid discharges per 1,000 population(2012) [F10315-12]	0.00-999.99='Valid range' -9='Blank'
ARF-Derived	**ARFP65**	Percent of population who is 65 years and over(2013) [F14083-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPRIMARYSA**	HPSA Code: Population to FTE primary care ratio (06/15) [F09787-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	**ARFMENTALSA**	HPSA Code: Population to FTE Mental Health (06/15) [F12492-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	**ARFGROTOT**	Percent change in total population 2004 to 2014	-999.99-998.99='Valid range' 999='Blank'
ARF-Derived	**ARFGRO65**	Percent change in population 65+ years, 2006 to 2013	-999.99-998.99='Valid range' 999='Blank'
NCHS URBAN-RURAL FILE			
2017 NEHRS URBAN-RURAL FILE	**URBANRU**	2013 NCHS urban-rural classification based on provider zip code	1='Large central metro' 2='Large fringe metro' 3='Medium metro' 4='Small metro' 5='Micropolitan (nonmetro)' 6='Noncore (nonmetro)' -9='Missing data'
SUDAAN VARIABLES			
Sample=PHYID	**PROVIDE**	Provider Code	80000-90302='Valid range'
Derived	**YEAR**	Survey year	2017='Year: 2017'
Derived	**SUBFILE**	Survey identifier	1='PEEHRS'
Derived	**STATE**	State where the physician was sampled.	Numeric physician's state FIPS Code 1-2, 4-6, 8-13, 15-42, 44-51, 53-56='Valid range'
Derived	**POPDOC**	Estimated number of NAMCS eligible physicians in STATE	1-9,999,999='Valid range'

PEEHRS File layout

Derived	**MAILWGT**	Rounded adjusted ratio adjusted doctor weight (responding doctors who were working at the same location for the 2017 NEHRS and PEEHRS)	0='Out of scope or refused doctors' 1-999,999='Responding doctors'
Derived	**NEHRS_WGT**	Rounded adjusted ratio adjusted doctor weight (all responding doctors, includes doctors who were working at the same location for the 2017 NEHRS and PEEHRS and doctors who were no longer working at the same location for 2017 NEHRS and PEEHRS)	0='Out of scope or refused doctors' 1-999,999='Responding doctors'

2017 PEEHRS Non-HIE

Question number(Q#)-2017 PEERS non-HIE	Variable Name	Variable Label	Values for variable range and labels
Barcode	**PHYID**	**Physician ID**	80000-90304='Valid range for live data collection'
Q1	**LOCATION**	Do you still work at the location listed below?	1='Yes' 2='No' -9='Blank'
Q2	**EMEDREC_NHIE**	Does the reporting location <u>use</u> an EHR system? Do not include billing record systems.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q3	**EHRSAT**	Overall, how satisfied or dissatisfied are you with your EHR system?	1='Very satisfied' 2='Somewhat satisfied' 3="Neither satisfied nor dissatisfied" 4= 'Somewhat dissatisfied' 5= 'Very dissatisfied' -7='Not applicable' -9='Blank'
Q4a	**EPTREC**	Does your EHR have the computerized capability to allow patients to view their online medical record?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q4b	**EDLREC**	Does your EHR have the computerized capability to allow patients to download their online medical record to their personal files?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q4c	**ESENDREC**	Does your EHR have the computerized capability to allow patients to send their online medical record to a third party (e.g. another provider, personal health record)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q4d	**SLFMOND**	Does your EHR have the computerized capability to allow patients to upload their health information from devices or apps (e.g. blood glucose meter, Fitbit, questionnaires)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q5	**SECURITY12**	Has your practice made an assessment of the potential risks and vulnerabilities of your electronic health information within the last 12 months? This assessment would help identify privacy- or security-related issues that may need to be corrected.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q6	**EHRACCESS**	Are you required to use more than one of the following methods to access your EHR system? Methods to access your system might include: username and passwords to login, security card or key, pin, biometric data.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7a	**ESENDID**	Does the reporting location use an EHR system to send immunization data to immunization registries?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7b	**ESENDSD**	Does the reporting location use an EHR system to send syndromic surveillance data to a public health agency?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7c	**ESENDCHRCOND**	Does the reporting location use an EHR system to send case reporting of reportable conditions (e.g., measles, tuberculosis, Ebola) to a public health agency?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7d	**ESENDCQM**	Does the reporting location use an EHR system to send clinical quality measures to public and private insurers (e.g., blood pressure control, Hb1AC, smoking status)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7e	**EREVCQM**	Does the reporting location use an EHR system to review your practice's performance on clinical quality measures?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q7f	**ECREATERES**	Does the reporting location use an EHR system to create educational resources tailored to the patients' specific conditions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7g	**ECREATEPLAN**	Does the reporting location use an EHR system to create shared care plans that are available across clinical care team?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q7h	**IDHIRISK**	Does the reporting location use an EHR system to identify high risk patients that may require follow-up and services?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q8	**TELEMED**	Does your practice use telemedicine technology (e.g. telephone, web videoconference) for patient's visits?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q9	**MU**	Do you participate in the Medicaid EHR Incentive Program (e.g. Meaningful Use Program)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q10	**MIPS**	Do you participate or plan to participate in the Merit-Based Incentive Payment System? *Merit-Based Incentive Payment System, a new program for Medicare-participating physicians, will adjust payment based on performance and consolidate three programs: the Physician Quality Reporting System, the Physician Value-based Payment Modifier, and the Medicare EHR Incentive Program ("Meaningful Use").*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q11	**APM**	Do you participate or plan to participate in the Alternative Payment Model? *Alternative Payment Models are new approaches to paying for medical care through Medicare that incentivize quality and value, including CMS Innovation Center model, Medicare Shared Savings Program, Health Care Quality Demonstration Program or Demonstration required by federal law.*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q12a	**HIEQOC**	Electronically exchanging clinical information with other providers outside my medical organization would improve my practice's quality of care	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q12b	**HIEEFF**	Electronically exchanging clinical information with other providers outside my medical organization would increase my practice's efficiency	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q12c	**HIEPRVRXER**	Electronically exchanging clinical information with other providers outside my medical organization would prevent medication errors.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q12d	**HIEDUPTEST**	Electronically exchanging clinical information with other providers outside my medical organization would reduce duplicate test ordering.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
Q12e	**HIETRUST**	Electronically exchanging clinical information with other providers outside my medical organization would provide me with clinical information that I can trust.	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

Q13a	**NOEHRHIEOUT**	My EHR does not have the capability to electronically exchange health information with providers outside my medical organization.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13b	**HIECOSTOUT**	My practice would have to pay additional costs to electronically exchange data with providers outside my medical organization.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13c	**EVENDOROTH**	It is challenging to electronically exchange data with other providers who use a different EHR vendor.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13d	**NOHIEOUT**	Providers outside my medical organization cannot electronically exchange data with me.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13e	**CUMBERSOME**	It is cumbersome to use my EHR to electronically exchange data with providers outside my medical organizations.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13f	**HIEHIPPA**	My practice is concerned about whether HIPAA permits electronic exchange of patient health information without patient consent.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q13g	**HIESECURITY**	My practice is concerned about the privacy and security of health information that is electronically exchanged.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

Q14	**GIVENCHS**	Would you be willing to have NCHS contact your practice to obtain electronic health record (EHR) data on patient visits for statistical purposes only?	1='Yes' 2='No' -8="Uncertain" -9='Blank'
Q15	**IGNCHS**	Will your EHR system be able to produce HL7 CDA documents according to the NCHS Implementation Guide?	1='Yes, my EHR system will be able to produce such documents' 2='Yes, I will need to verify with my administrative staff' 3="No" -8="Don't know" -9='Blank'
Q17	**WCOMPEMR_NHIE**	Who completed this survey? (Check all that apply)	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
Admin box 2	**COMPTYPE_NHIE**	How survey was completed	1='Mail' 2='Telephone' 3='Web' 4='Help Desk' -7='Not applicable' -9='Blank'
Keyed 2	**WAVECOMP_NHIE**	Survey was completed during which wave	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'
Derived	**DISPEMR**	Derived final disposition of EMR Mail Survey	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'
2017 NEHRS			

2017 NEHRS Q3	**NUMLOC**	Overall, at how many office locations do you see ambulatory patients in a normal week?	0-20='Valid range' -9='Blank'
2017 NEHRS Q5	**SETTING**	Among settings (1-8) checked in 4, the office setting with the most ambulatory care visits.	1-8='Valid range' -7='Not applicable' -9='Blank'
2017 NEHRS Q7	**PSIZECAT**	Number of physicians (including you) working at this practice (at all locations).	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'
2017 NEHRS Q9	**MIDLEVP1**	How many mid-level providers are associated with the reporting location?	0-101='Valid range' -7='Not applicable' -9='Blank'
2017 NEHRS Q10	**MULTI1**	Is the reporting location a single- or multi-specialty (group) practice?	1='Single' 2='Multi' -7='Not applicable' -9='Blank'
2017 NEHRS Q11	**ACEPTNEW**	At the reporting location, are you currently accepting new patients?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.1	**CAPITATE**	Type of payment accepted - Capitated Private Insurance.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.2	**NOCAP**	Type of payment accepted - Noncapitated Private Insurance.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.3	**NMEDCARE**	Type of payment accepted – Medicare.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.4	**NMEDCAID**	Type of payment accepted - Medicaid.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q12.5	**NWORKCMP**	Type of payment accepted - Worker's compensation.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.6	**NSELFPAY**	Type of payment accepted - Self-pay.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q12.7	**NNOCHRGE**	Type of payment accepted - No charge.	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q13	**PCTMCAID**	What percent of your patients are insured by Medicaid?	0-100='Valid range' -7='Not applicable' -9='Blank'
2017 NEHRS Q14	**MCAREINS**	Do you treat patients insured by Medicare?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q15	**OWNS1**	Who owns the reporting location? CHECK ONE.	1='Physician/Physician group' 2='Insurance company, health plan, or HMO' 3='Community Health Center' 4='Medical / Academic health center' 5='Other hospital' 6='Other health care corporation' 7='Other' -7='Not applicable' -9='Blank'
2017 NEHRS Q16	**EMEDREC**	Does your practice use electronic medical records? (not including billing records)	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q17.1	**EHRNEVER**	Never used an EHR	0='Box is not marked' 1='Box is marked' -7='Not Applicable' -9='Blank'

2017 NEHRS Q17.2	**EHRUNDERYR**	Under one year any EHR system use	0='Box is not marked' 1='Box is marked' -7='Not Applicable' -9='Blank'
2017 NEHRS Q17.3	**EHRUSEYRCT**	Estimate the approximate number of years you have used any EHR system	0-20='Valid range' -7='Not Applicable' -8='Box checked but no year entered' -9='Blank'
2017 NEHRS Q18	**HHSMU**	Does your current EHR system meet meaningful use criteria (certified EHR) as defined by the Department of Health and Human Services?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q19a	**EDEMOG**	Does the reporting location have this computerized capability: recording patient history and demographic information?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19b	**EPROLST**	Does the reporting location have this computerized capability: record patient problem lists?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19c	**EMEDALG**	Does the reporting location have a computerized system for recording patients' medications and allergies?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19d	**EPNOTES**	Does the reporting location have this computerized capability: recording clinical notes?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19e	**ERESULT**	Does the reporting location have a computerized system for viewing lab results?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19f	**EIMGRES**	Does the reporting location have a computerized system for viewing imaging results?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19g	**ECPOE**	Does the reporting location have a computerized system for computerized orders for prescriptions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q19g1	**ESCRIP**	If computerized orders for prescriptions are included, are prescriptions sent electronically to the pharmacy?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19g2	**EWARN**	If computerized orders for prescriptions are included, are there warnings of drug interactions or contraindications provided?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19h	**ECTOE**	Does the reporting location have a computerized system for computerized orders for lab tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19i	**ERADI**	Ordering radiology tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19j	**EREMIND**	Does the reporting location have a computerized system for reminders for guideline-based interventions or screening tests?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19k	**EMEDID**	Does the reporting location have a computerized system for computerized orders for reconciling lists of patient medications to identify the most accurate list?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19l	**ESUM**	Does the reporting location have a computerized system for providing patients with clinical summaries for each visit?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19m	**EMSG**	Does the reporting location have a computerized system for exchanging secure messages with patients?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19n	**EIDPT**	Does the reporting location have a computerized system for identifying patients due for preventive or follow-up care?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q19o	**EGENLIST**	Does the reporting location have a computerized system for generating lists of patients with particular health conditions?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q19p	**ECCREPO**	Does the reporting location have a computerized system for providing data to create reports on clinical care measures for patients with specific conditions (e.g., HbA1c for diabetics)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q20	**PCMH**	Has your reporting location been recognized as a Patient Centered Medical Home (PCMH) by a state, a commercial health plan, or a national organization?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q21	**ACO**	Does the reporting location participate in an Accountable Care Organization (ACO) arrangement with Medicare or private insurers?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q22	**P4P**	Does the reporting location participate in a Pay-for-Performance arrangement, where you can receive financial bonuses based on your performance?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q23	**IPAPHO**	Is this medical organization affiliated with an Independent Practice Association (IPA) or Physician Hospital Organization (PHO)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q24	**METHSRPAP**	Do you ONLY send and receive patient health information through paper-based methods including fax, eFax, or mail?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q25	**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)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'

2017 NEHRS Q26a	**SEAMBOUT**	Do you send patient health information to ambulatory care providers outside your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26b	**SEHOSPU**	Do you send patient health information to hospitals unaffiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26c	**SEHOSPA**	Do you send patient health information to hospitals affiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26d	**SEBHP**	Do you send patient health information to behavioral health providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q26e	**SELTCP**	Do you send patient health information to long-term care providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q27	**METHREHRWEB**	Do you receive patient health information from other providers outside your medical organization using EHR (not eFax) or a Web Portal (separate from EHR)?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28a	**REAMBOUT**	Do you receive patient health information to ambulatory care providers outside your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'

2017 NEHRS Q28b	**REHOSPU**	Do you receive patient health information to hospitals unaffiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28c	**REHOSPA**	Do you receive patient health information to hospitals affiliated with your organization? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28d	**REBHP**	Do you receive patient health information to behavioral health providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q28e	**RELTCP**	Do you receive patient health information to long-term care providers? Electronically does not include scanned or pdf documents from fax, eFax, or mail.	1='Yes' 2= 'No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q29	**EUSEPHIOUT**	How frequently do you use patient health information electronically (not eFax) received from providers or sources outside your organization when treating a patient?	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q29a	**REASON1**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 1='Information not always available when needed (e.g. not timely)'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON2**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 2='Do not trust accuracy of information'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

2017 NEHRS Q29a	**REASON3**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 3='Difficult to integrate information in EHR'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON4**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 4= 'Information not available to view in EHR as part of clinicians' workflow '	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON5**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 5= 'Information not useful (e.g. redundant or unnecessary information)'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON6**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 6= 'Difficult to find necessary information'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q29a	**REASON7**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 7= 'Other'	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
2017 NEHRS Q30a	**HMEDLIST**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only medication lists?	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'
2017 NEHRS Q30b	**HPROLST**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only patient problem lists?	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'

2017 NEHRS Q30c	**HMEDALG**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only medication allergies lists?	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'
2017 NEHRS Q30d	**HIMGREP**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only imaging reports?	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'
2017 NEHRS Q30e	**HLABRES**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only laboratory results?	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'
2017 NEHRS Q30f	**HREGDATA**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only public health registry data (e.g., immunizations, cancer)?	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'
2017 NEHRS Q30g	**HREF**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only clinical registries?	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'

2017 NEHRS Q30h	**HDISSUM**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only hospital discharge summaries?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q30i	**HEDNOT**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only Emergency Department notifications?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q30j	**HTOCSUM**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only summary of care records for transitions of care or referrals?	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'
2017 NEHRS Q30k	**PTGENDATA**	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only patient-generated data (e.g. data from self-monitoring devices or mobile health applications)?	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
2017 NEHRS Q31	**ITOCSUMDO**	Do you integrate summary of care records into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q32	**ITPHIOTH**	Do you integrate any other types of patient health information into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q33a-c, Q34a-m		These variables are not available for analysis, as they were not asked of all applicable respondents.	

2017 NEHRS Q35	**CINPOC**	When treating patients seen by other 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.	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 5="Don't know" 6='I do not see patients outside my medical organization' -7='Not Applicable' -9='Blank'
2017 NEHRS Q36	**RXCTRL**	Do you prescribe controlled substances?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q37	**ERXCTRL**	Are prescriptions for controlled substances sent electronically to the pharmacy?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'
2017 NEHRS Q38	**SEARCHDO**	Do you electronically search for your patient's health information from sources outside of your medical organization (e.g., remote access to other facility, health information exchange organization)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
2017 NEHRS Q39.1	**SEARCHTYPE1**	Lab results	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.2	**SEARCHTYPE2**	Patient problem lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.3	**SEARCHTYPE3**	Imaging reports	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.4	**SEARCHTYPE4**	Medication lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.5	**SEARCHTYPE5**	Medication allergy lists	1='Yes' 2='No' -7='Not Applicable' -9='Blank'

2017 NEHRS Q39.6	**SEARCHTYPE6**	Discharge summaries	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.7	**SEARCHTYPE7**	Vaccination history	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.8	**SEARCHTYPE8**	Advance directives	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q39.9	**SEARCHTYPE9**	Care plans	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
2017 NEHRS Q41	**WCOMPEMR**	Who completed the form?	1='Sampled physician' 2='Office staff' 3='Other' -9='Blank'
2017 NEHRS Admin box 2	**COMPTYPE**	How survey was completed	1='Mail' 2='Telephone' 3='Web' -7='Not Applicable' -9='Blank'
2017 NEHRS Keyed	**WAVECOMP**	Survey was completed during which wave	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web' 6='Help Desk' 7='No data for this participant' -7='Not applicable' -9='Blank'
RECODED AND CREATED VARIABLES			
2017 NEHRS Recoded from SPEC	**SPECR**	Numeric specialty obtained from response to survey for in scope providers. Doctors of Osteopath dispersed throughout.	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'
2017 NEHRS Recoded from Physician sample file	**MDDO**	Type of doctor (MD/DO) as sampled	1='MD' 2='DO'
2017 NEHRS Recoded from Physician sample file	**MSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Physician sample MSA. Used for weighting purposes.	**SAMPLEMSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Recoded from Physician sample file	**METRSTAT**	Metropolitan Status (3 categories)	1='Metropolitan' 2='Micropolitan' 3='Non-metropolitan (neither)'
Created: PIIZIP and ZIPPHYS	**ZIPPHY**	Physician's zip code updated. If (PIIZIP) is not blank then use. Otherwise use (ZIPPHYS)	'01001'-'99950'=valid range'
2017 NEHRS Recoded from SPECR & SPEC	**SPECCAT**	Physician specialty type obtained from response to survey	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
2017 NEHRS Recoded: MULTI1-LOCSIZE	**MULTIR1**	Recoded practice type: solo and multiple practices - using MULTI1 and LOCSIZE.	1='Single-specialty practice' 2='Multi-specialty practice' 3='Solo practice' -7='Not Applicable' -8='Uncertain'
2017 NEHRS 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)	1='Solo practice' 2='Two physicians' 3='3 to 5 physicians' 4='6-10 physicians' 5='11+ physicians'

			-9='Blank'
SAMPLE FILE			
Physician Sample File: updated by zip if physician moved	**REGION**	Region of the Physician's interview office	1='NE' 2='MW' 3='S' 4='W'
2017 NEHRS Physician Sample File	**PHYSEX**	Sex of Physician	1='Female' 2='Male' -9='Blank'
2017 NEHRS Physician Sample File	**ZIPPHYS**	Sample Zip Code (5 digit)	' '='Blank' other='valid entry'
2017 NEHRS Physician Sample File	**SAMPWGT**	Physician sample weight from State and doctor selection	001-999='valid range'
2017 NEHRS Recode from PYOB	**MDAGE**	Physician age; grouped	1='Under 35 years' 2='35-44 years' 3='45-54 years' 4='55-64 years' 5='65-84 years' -9='Blank'
2017 NEHRS Recode from PYOB	**PAGE50**	Physician age; two groups	1='Under 50 years' 2='50+ years'
ARF Variables			
ARF-Derived	**ARFHHY**	Median household income (2013) [F13226-13]	0-999,999='Valid range' -9='Blank'
ARF-Derived	**ARFPPOV**	Percent where income is below poverty level(2013) [F13321-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPWNH**	Percent of population who is white, not Hispanic(2013) [F13926 & F13927-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPMCAID**	Medicaid discharges per 1,000 population(2012) [F10315-12]	0.00-999.99='Valid range' -9='Blank'

ARF-Derived	ARFP65	Percent of population who is 65 years and over(2013) [F14083-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	ARFPRIMARYSA	HPSA Code: Population to FTE primary care ratio (06/15) [F09787-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	ARFMENTALSA	HPSA Code: Population to FTE Mental Health (06/15) [F12492-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	ARFGROTOT	Percent change in total population 2004 to 2014	-999.99-998.99='Valid range' 999='Blank'
ARF-Derived	ARFGRO65	Percent change in population 65+ years, 2006 to 2013	-999.99-998.99='Valid range' 999='Blank'
NCHS URBAN-	**RURAL FILE**		
2017 NEHRS URBAN-RURAL FILE	URBANRU	2013 NCHS urban-rural classification based on provider zip code	1='Large central metro' 2='Large fringe metro' 3='Medium metro' 4='Small metro' 5='Micropolitan (nonmetro)' 6='Noncore (nonmetro)' -9='Missing data'
SUDAAN VARIABLES			
Sample=PHYID	PROVIDE	Provider Code	80000-90302='Valid range'
Derived	YEAR	Survey year	2017='Year: 2017'
Derived	SUBFILE	Survey identifier	1='PEEHRS'
Derived	STATE	State where the physician was sampled.	Numeric physician's state FIPS Code 1-2, 4-6, 8-13, 15-42, 44-51, 53-56= 'Valid range'

PEEHRS File layout

Derived	**POPDOC**	Estimated number of NAMCS eligible physicians in STATE	1-9,999,999='Valid range'
Derived	**MAILWGT**	Rounded adjusted ratio adjusted doctor weight (responding doctors who were working at the same location for the 2017 NEHRS and PEEHRS)	0='Out of scope or refused doctors' 1-999,999='Responding doctors'
Derived	**NEHRS_WGT**	Rounded adjusted ratio adjusted doctor weight (all responding doctors, includes doctors who were working at the same location for the 2017 NEHRS and PEEHRS and doctors who were no longer working at the same location for 2017 NEHRS and PEEHRS)	0='Out of scope or refused doctors' 1-999,999='Responding doctors'

2017 PEEHRS Non-respondent

Question number(Q#)-2017 PEEHRS Non Respondent	Variable Name	Variable Label	Values for variable range and labels
Barcode	**PHYID**	Physician ID	80000-90304='Valid range for live data collection'
Q3	**NUMLOC**	Overall, at how many office locations do you see ambulatory patients in a normal week?	1-20='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.	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)?	1='1 physician' 2='2-3 physicians' 3='4-10 physicians' 4='11-50 physicians' 5='51-100 physicians' 6='More than 100 physicians' -9='Blank'
Q8	**OWNS1**	Who owns the reporting location? CHECK ONE.	1='Physician or Physician group' 2='Insurance company, health plan, or HMO' 3='Community Health Center' 4='Medical / Academic health center' 5='Other hospital' 6='Other health care corporation' 7='Other' -9='Blank'
Q9	**EMEDREC**	Does your reporting location use an EHR system? (do not including billing records)	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q10	**HHSMU**	Does your EHR system meet meaningful use criteria (certified EHR) as defined by the Department of Health and Human Services?	1='Yes' 2='No' -8="Don't know" -7='Not Applicable' -9='Blank'

Q11	**MU**	Do you participate in the Medicaid EHR Incentive Program (e.g. Meaningful Use Program)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q12	**ESENDREC**	Do you electronically send or receive patient health information (e.g., laboratory results, medications) from other providers outside your medical organization using an EHR (not eFax) or a Web Portal (separate from EHR)?	1='Send only' 2='Receive only' 3="Send and receive" 4='Neither send nor receive' -9='Blank'
Q13	**ITPHIOTH**	Do you integrate patient health information into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q14	**ITOCSUMDO**	Do you integrate summary of care records into your EHR without special effort like manual entry or scanning?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q15	**SEARCHDO**	Do you electronically search for your patient's health information from sources outside of your medical organization (e.g., remote access to other facility, health information exchange organization)?	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q16	**CINPOC**	When treating patients seen by other 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.	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 5="Don't know" 6='Do not see patients outside my organization' -7='Not applicable' -9='Blank'
Q17	**EUSEPHIOUT**	How frequently do you <u>use</u> patient health information electronically received from providers outside your organization when treating a patient? Electronically available does not include scanned or PDF documents.	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -7='Not applicable' -9='Blank'

Q17a1	**REASON1**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 1='Information not always available when needed (e.g. not timely)'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a2	**REASON2**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 2='Do not trust accuracy of information'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a3	**REASON3**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 3='Difficult to integrate information in EHR'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a4	**REASON4**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 4= 'Information not available to view in EHR as part of clinicians' workflow '	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a5	**REASON5**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 5= 'Information not useful (e.g. redundant or unnecessary information)'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a6	**REASON6**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 6= 'Difficult to find necessary information'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q17a7	**REASON7**	If rarely or never used, please indicate the reason(s) why. Check all that apply. 7= 'Other'	0='Box is not marked' 1='Box is marked' -7='Not applicable'
Q18	**PCMH**	Has your reporting location been recognized as a Patient Centered Medical Home (PCMH) by a state, a commercial health plan, or a national organization?	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q19	**ACO**	Does the reporting location participate in an Accountable Care Organization (ACO) arrangement with Medicare or private insurers?	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q20	**P4P**	Does the reporting location participate in a Pay-for-Performance arrangement, where you can receive financial bonuses based on your performance?	1='Yes' 2='No' -8="Don't know" -9='Blank'

Q21	**MIPS**	Do you participate or plan to participate in the Merit-Based Incentive Payment System? *Merit-Based Incentive Payment System, a new program for Medicare-participating physicians, will adjust payment based on performance and consolidate three programs: the Physician Quality Reporting System, the Physician Value-based Payment Modifier, and the Medicare EHR Incentive Program ("Meaningful Use").*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q22	**APM**	Do you participate or plan to participate in the Alternative Payment Model? *Alternative Payment Models are new approaches to paying for medical care through Medicare that incentivize quality and value, including CMS Innovation Center model, Medicare Shared Savings Program, Health Care Quality Demonstration Program or Demonstration required by federal law.*	1='Yes' 2='No' -8="Don't know" -7='Not applicable' -9='Blank'
Q23	**GIVENCHS**	Would you be willing to have NCHS contact your practice to obtain electronic health record (EHR) data on patient visits for statistical purposes only?	1='Yes' 2='No' -8="Uncertain" -9='Blank'
Q24	**IGNCHS**	Will your EHR system be able to produce HL7 CDA documents according to the NCHS Implementation Guide?	1='Yes, my EHR system will be able to produce such documents' 2='Yes, I will need to verify with my administrative staff' 3="No" -8="Don't know" -9='Blank'
Q26	**WCOMPEMR_NR**	Who completed this survey? (Check all that apply)	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
Admin box 2	**COMPTYPE_NR**	How survey was completed	1='Mail' 2='Telephone' 3='Web' 4='Help Desk' -7='Not applicable' -9='Blank'

Keyed1	**WAVECOMP_NR**	Survey was completed during which wave	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web' 6='Help Desk' 7='No data for this participant' -7='Not applicable' -9='Blank'
Derived	**DISPEMR**	Derived final disposition of EMR Mail Survey	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'
2017 NEHRS Q41	**WCOMPEMR**	Who completed this survey? (Check all that apply)	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
2017 NEHRS Admin box 2	**COMPTYPE**	How survey was completed	1='Mail' 2='Telephone' 3='Web' 4='Help Desk' -7='Not applicable' -9='Blank'
2017 NEHRS Keyed1	**WAVECOMP**	Survey was completed during which wave	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Web' 6='Help Desk' 7='No data for this participant' -7='Not applicable' -9='Blank'
RECODED AND CREATED VARIABLES			
2017 NEHRS Recoded from SPEC	**SPECR**	Numeric specialty obtained from response to survey for in scope providers. Doctors of Osteopath dispersed throughout.	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'
2017 NEHRS Recoded from Physician sample file	**MDDO**	Type of doctor (MD/DO) as sampled	1='MD' 2='DO'
2017 NEHRS Recoded from Physician sample file	**MSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Physician sample MSA. Used for weighting purposes.	**SAMPLEMSA**	Metropolitan Status (2 categories)	1='MSA' 2='non-MSA'
2017 NEHRS Recoded from Physician sample file	**METRSTAT**	Metropolitan Status (3 categories)	1='Metropolitan' 2='Micropolitan' 3='Non-metropolitan (neither)'
Created: PIIZIP and ZIPPHYS	**ZIPPHY**	Physician's zip code updated. If (PIIZIP) is not blank then use. Otherwise, use (ZIPPHYS)	'01001'-'99950'=valid range'
2017 NEHRS Recoded from SPECR & SPEC	**SPECCAT**	Physician specialty type obtained from response to survey	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
SAMPLE FILE			
2017 NEHRS Physician Sample File: updated by zip if physician moved	**REGION**	Region of the Physician's interview office	1='NE' 2='MW' 3='S' 4='W'
2017 NEHRS Physician Sample File	**PHYSEX**	Sex of Physician	1='Female' 2='Male' -9='Blank'
2017 NEHRS Physician Sample File	**ZIPPHYS**	Sample Zip Code (5 digit)	' '='Blank' other='valid entry'
2017 NEHRS Physician Sample File	**SAMPWGT**	Physician sample weight from State and doctor selection	001-999='valid range'

2017 NEHRS Recode from PYOB	**MDAGE**	Physician age; grouped	1='Under 35 years' 2='35-44 years' 3='45-54 years' 4='55-64 years' 5='65-84 years' -9='Blank'
2017 NEHRS Recode from PYOB	**PAGE50**	Physician age; two groups	1='Under 50 years' 2='50+ years'
ARF Variables			
ARF-Derived	**ARFHHY**	Median household income (2013) [F13226-13]	0-999,999= 'Valid range' -9='Blank'
ARF-Derived	**ARFPPOV**	Percent where income is below poverty level(2013) [F13321-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPWNH**	Percent of population who is white, not Hispanic(2013) [F13926 & F13927-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPMCAID**	Medicaid discharges per 1,000 population(2012) [F10315-12]	0.00-999.99='Valid range' -9='Blank'
ARF-Derived	**ARFP65**	Percent of population who is 65 years and over(2013) [F14083-13]	0.00-100.00='Valid range' -9='Blank'
ARF-Derived	**ARFPRIMARYSA**	HPSA Code: Population to FTE primary care ratio (06/15) [F09787-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	**ARFMENTALSA**	HPSA Code: Population to FTE Mental Health (06/15) [F12492-15]	0='None of the county designated as shortage area' 1='Whole county designated as shortage area' 2='Part of county designated as shortage area'
ARF-Derived	**ARFGROTOT**	Percent change in total population 2004 to 2014	-999.99-998.99='Valid range' 999='Blank'
ARF-Derived	**ARFGRO65**	Percent change in population 65+ years, 2006 to 2013	-999.99-998.99='Valid range' 999='Blank'
NCHS URBAN-	**RURAL FILE**		

2017 NEHRS URBAN-RURAL FILE	**URBANRU**	2013 NCHS urban-rural classification based on provider zip code	1='Large central metro' 2='Large fringe metro' 3='Medium metro' 4='Small metro' 5='Micropolitan (nonmetro)' 6='Noncore (nonmetro)' -9='Missing data'
SUDAAN VARIABLES			
Sample=PHYID	**PROVIDE**	Provider Code	80000-90302='Valid range'
Derived	**YEAR**	Survey year	2017='Year: 2017'
Derived	**SUBFILE**	Survey identifier	1='PEEHRS'
2017 NEHRS Derived	**STATE**	State where the physician was sampled.	Numeric physician's state FIPS Code 1-2, 4-6, 8-13, 15-42, 44-51, 53-56='Valid range'
Derived	**POPDOC**	Estimated number of NAMCS eligible physicians in STATE	1-9,999,999='Valid range'
Derived	**MAILWGT**	Rounded adjusted ratio adjusted doctor weight (responding doctors)	0='Out of scope or refused doctors' 1-999,999='Responding doctors'