

**2015 National Electronic Health Records Survey
Data Dictionary**

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Barcode	PHYID	Physician ID	N	5	80000-90302='Valid range for live data collection'
Q5	SETTING	Among settings (1-8) checked in Q4, the office setting with the most ambulatory care visits.	N	3	1-8='Valid range' -7='Not Applicable' -9='Blank'
Q7	PSIZECAT	Number of physicians working at this practice (at all locations)	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 are at this office that has the most ambulatory care visits?	N	3	0-101='Valid range' -7='Not Applicable' -9='Blank'
Q10	MULTI1	Is this location a multi- or single-specialty group practice for the office that has the most ambulatory care visits?	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' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q12.1	CAPITATE	Type of payment accepted - Capitated Private Insurance.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q12.2	NOCAP	Type of payment accepted - Noncapitated Private Insurance.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q12.3	NMEDCARE	Type of payment accepted – Medicare.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q12.4	NMEDCAID	Type of payment accepted - Medicaid.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q12.5	NWORKCMP	Type of payment accepted - Worker's compensation.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q12.6	NSELPAY	Type of payment accepted - Self-pay.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q12.7	NNOCHRG	Type of payment accepted - No charge.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q13	EMEDREC	Does your practice use electronic medical records? (not including billing records)	N	3	1='Yes, all electronic' 2='Yes, part paper and part electronic' 3='No' 4='Unknown'(EV = -8) -9='Blank'
Q14	EHRINSYR	Which year did you install your EMR/EHR system	N	4	1970-2015='Valid range' -7='Not applicable' -9='Blank'
Q15	HHSMU	Does your current EHR system meet meaningful use criteria as defined by the Department of Health and Human Services?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q16	DIFFEHR	Does your EHR have the capability to electronically sent health information to another provider whose EHR system is different from your system?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not applicable' -9='Blank'
Q18	SECURCHCK	Has your practice made an assessment of the potential risks and vulnerabilities of your electronic health information within the last 12 months?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q19	EMRINS	At the reporting location, are there plans to purchase a new EHR system within the next 18 months?	N	3	1='Yes, with the same EHR vendor ' 2='Yes, with a different EHR vendor ' 3='Yes, first-time purchase of EHR system ' 4='No' 5='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q20	MUINC	Medicare and Medicaid offer incentives to practices that demonstrate "meaningful use of health IT." Have you ever applied for Meaningful Use Incentive Program payments?	N	3	1='Yes, at the reporting location' 2='Yes, not at the reporting location' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q21	MUINCF	Do you plan to apply for Meaningful Use Incentive Program payments in the future?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22a	EDEMOG	Does the reporting location have this computerized capability: recording patient demographic information?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22a	EDEMOGR	Does the reporting location have this computerized capability: recording patient demographic information? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22b	EPROLST	If computerized patient demographic information are included does it include patient problem lists?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22b	EPROLSTR	If computerized patient demographic information are included does it include patient problem lists? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22c	EVITAL	Does the reporting location have a computerized system for recording and charting vital signs?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22c	EVITALR	Does the reporting location have a computerized system for recording and charting vital signs? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22d	ESMOKE	Does the reporting location have a computerized system for recording patient smoking status?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22d	ESMOKER	Does the reporting location have a computerized system for recording patient smoking status? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22e	EPNOTES	Does the reporting location have this computerized capability: recording clinical notes?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22e	EPNOTESR	Does the reporting location have this computerized capability: recording clinical notes? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22f	EMEDALG	Does the reporting location have a computerized system for recording patient's' medications and allergies?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22f	EMEDALGR	Does the reporting location have a computerized system for recording patient's' medications and allergies? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22g	EMEDID	Does the reporting location have a computerized system for computerized orders for reconciling lists of patient medications to identify the most accurate list?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22g	EMEDIDR	Does the reporting location have a computerized system for computerized orders for reconciling lists of patient medications to identify the most accurate list? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22h	EREMIND	Does the reporting location have a computerized system for reminders for guideline-based interventions or screening tests?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22h	EREMINDR	Does the reporting location have a computerized system for reminders for guideline-based interventions or screening tests? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22i	ECPOE	Does the reporting location have a computerized system for computerized orders for prescriptions?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22i	ECPOER	Does the reporting location have a computerized system for computerized orders for prescriptions? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22i1	ESCRIP	If computerized orders for prescriptions are included, are prescriptions sent electronically to the pharmacy?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22i1	ESCRIPR	If computerized orders for prescriptions are included, are prescriptions sent electronically to the pharmacy? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22i2	EWARN	If computerized orders for prescriptions are included, are there warnings of drug interactions or contraindications provided?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22i2	EWARNR	If computerized orders for prescriptions are included, are there warnings of drug interactions or contraindications provided? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22j	ECTOE	Does the reporting location have a computerized system for computerized orders for lab tests?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22j	ECTOER	Does the reporting location have a computerized system for computerized orders for lab tests? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22j1	EORDER	If the reporting location has a computerized system for computerized orders for lab tests, are orders sent electronically?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

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Q22j1	EORDERR	If the reporting location has a computerized system for computerized orders for lab tests, are orders sent electronically? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22k	ERESULT	Does the reporting location have a computerized system for viewing lab results?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22k	ERESULTR	Does the reporting location have a computerized system for viewing lab results? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22k1	EGRAPH	If the reporting location has a computerized system for viewing lab results, can the EHR automatically graph a specific patient's lab results over time?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22k1	EGRAPHR	If the reporting location has a computerized system for viewing lab results, can the EHR automatically graph a specific patient's lab results over time? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22l	ERADI	Ordering Radiology tests?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22l	ERADIR	Ordering Radiology tests? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22m	EIMGRES	Does the reporting location have a computerized system for viewing imaging results?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22m	EIMGRESR	Does the reporting location have a computerized system for viewing imaging results? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22n	EPTEDU	Does the reporting location have a computerized system for identifying educational resources for patients' specific conditions?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22n	EPTEDUR	Does the reporting location have a computerized system for identifying educational resources for patients' specific conditions? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22o	ECQM	Does the reporting location have a computerized system for reporting clinical quality measures to federal or state agencies?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22o	ECQMR	Does the reporting location have a computerized system for reporting clinical quality measures to federal or state agencies? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22p	EIDPT	Identifying patients due for preventive or follow-up care in order to send patients reminders?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22p	EIDPTR	Identifying patients due for preventive or follow-up care in order to send patients reminders? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22q	EGENLIST	Does the reporting location have a computerized system for generating lists of patients with particular health conditions?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22q	EGENLISTR	Does the reporting location have a computerized system for generating lists of patients with particular health conditions? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22r	EIMMREG	Does the reporting location have a computerized system for electronic reporting to immunization registries?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22r	EIMMREGR	Does the reporting location have a computerized system for electronic reporting to immunization registries? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22s	ESUM	Does the reporting location have a computerized system for providing patients with clinical summaries for each visit?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22s	ESUMR	Does the reporting location have a computerized system for providing patients with clinical summaries for each visit? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22t	EMSG	Does the reporting location have a computerized system for exchanging secure messages with patients?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22t	EMSGR	Does the reporting location have a computerized system for exchanging secure messages with patients? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22u	EPTREC	Does the reporting location have a computerized system for providing patients the ability to electronically view their online medical record?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3= 'No' 4= 'Unknown' (EV = -8) -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q22u	EPTRECR	Does the reporting location have a computerized system for providing patients the ability to electronically view their online medical record? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22v	EDLREC	Does the reporting location have a computerized system for providing patients the ability to download their online medical record?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q22v	EDLRECR	Does the reporting location have a computerized system for providing patients the ability to download their online medical record? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q22w	ESENDREC	Does the reporting location have a computerized system for providing patients the ability to electronically send their online medical record to a third party (e.g., another provider, Patient Health Records)?	N	3	1='Yes, used routinely' 2='Yes, but not used routinely' 3='No' 4='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

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Q22w	ESENDRECR	Does the reporting location have a computerized system for providing patients the ability to electronically send their online medical record to a third party (e.g., another provider, Patient Health Records)? (recoded)	N	3	1='Yes' 2='No' -8='Uncertain' -7='Not Applicable' -9='Blank'
Q23	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, such as the National Committee for Quality Assurance (NCQA), the Joint Commission, URAC, or the Accreditation Association of Health Care Practice?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q24	ACO	Does the reporting location participate in an Accountable Care Organization (ACO) arrangement with Medicare or private insurers? An ACO is an entity typically composed of primary care physicians, specialists, and hospitals, and held financially accountable for the cost and quality of care delivered to a defined group of patients.	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q25	P4P	Does the reporting location participate in a Pay-for-Performance arrangement, where you can receive financial bonuses based on your performance?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q26	OWNS1	Who owns the reporting location? CHECK ONE.	N	3	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' -9='Blank'
Q27	PCTMCAID	What percent of your patients are insured by Medicaid?	N	3	0-100='Valid range' -7='Not Applicable' -9='Blank'
Q28	MCAREINS	Do you treat patients insured by Medicare?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q29a	METHSPAP	Do you send patient health information to other providers and public health agencies outside your medical organization using paper-based method (e.g. mail, fax)?	N	3	1='Yes' 2='No' 3='Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q29b	METHSEFAX	Do you send patient health information to other providers and public health agencies outside your medical organization using eFax?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q29c	METHSEHR	Do you send patient health information to other providers and public health agencies outside your medical organization using EHR (not eFax)?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q29d	METHSWEBP	Do you send patient health information to other providers and public health agencies outside your medical organization using Web Portal (separate from EHR)?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q30a	METHRPAP	Do you receive patient health information from other providers and public health agencies outside your medical organization using paper-based method (e.g. mail, fax)?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q30b	METHREFAX	Do you receive patient health information from other providers and public health agencies outside your medical organization using eFax?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q30c	METHREHR	Do you receive patient health information from other providers and public health agencies outside your medical organization using EHR (not eFax)?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'
Q30d	METHRWEBP	Do you receive patient health information from other providers and public health agencies outside your medical organization using Web Portal (separate from EHR)?	N	3	1='Yes' 2= 'No' 3= 'Unknown' (EV = -8) -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q31a	REFOUT	Do you refer patients to the ambulatory care providers outside your organization?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q31a-Recode	REFOUTR	Do you refer patients to the ambulatory care providers outside your organization? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q31a1	REFOUTSE2	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q31b	REFWIN	Do you refer patients to ambulatory care providers within your organization?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q31b-Recode	REFWINR	Do you refer patients to ambulatory care providers within your organization? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q31b1	REFWINSE2	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q31c	REFUHOSP	Do you refer patients to unaffiliated hospitals?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q31c-Recode	REFUHOSPR	Do you refer patients to unaffiliated hospitals? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'

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Q31c1	REFUHOSPSE	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q31d	REFAHOSP	Do you refer patients to affiliated hospitals?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q31d-Recode	REFAHOSPR	Do you refer patients to affiliated hospitals? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q31d1	REFAHOSPSE	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'

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Q31e	REFBEHAV	Do you refer patients to behavioral Health providers?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q31e-Recode	REFBEHAVR	Do you refer patients to behavioral Health providers? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q31e1	REFBEHAVSE	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q31f	REFLTC	Do you refer patients to long-term care providers?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q31f-Recode	REFLTCR	Do you refer patients to long-term care providers? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q31f1	REFLTCSE	If yes, how often do you send patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q32a	SEEOUT	Do you see patients that have received care from ambulatory care providers outside your organization?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q32a-Recode	SEEOUTR	Do you see patients that have received care from ambulatory care providers outside your organization? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q32a1	SEEOUTRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q32b	SEEWIN	Do you see patients that have received care from ambulatory care providers within your organization?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q32b-Recode	SEEWINR	Do you see patients that have received care from ambulatory care providers within your organization? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q32b1	SEEWINRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q32c	SEEUHOSP	Do you see patients that have received care from unaffiliated hospitals?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q32c-Recode	SEEUHOSPR	Do you see patients that have received care from unaffiliated hospitals? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q32c1	SEEUHOSPRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q32d	SEEAHOSP	Do you see patients that have received care from affiliated hospitals?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q32d-Recode	SEEAHOSPR	Do you see patients that have received care from affiliated hospitals? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q32d1	SEEAHOSPRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q32e	SEEBHAV	Do you see patients that have received care from behavioral Health providers?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q32e-Recode	SEEBHAVR	Do you see patients that have received care from behavioral Health providers? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q32e1	SEEBEHAVRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'
Q32f	SEELTC	Do you see patients that have received care from long-term care providers?	N	3	1='No' 2='Yes' -7='Not Applicable' -9='Blank'
Q32f-Recode	SEELTCR	Do you see patients that have received care from long-term care providers? - Recode	N	3	1='Yes' 2='No' -7='Not Applicable' -9='Blank'
Q32f1	SEELTCRE	If yes, how often do you receive patient health information electronically through either your EHR or web portal? Do NOT include eFax, fax, or other paper-based methods.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q33a	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?	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'
Q33b	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?	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'
Q33c	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?	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'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q33d	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?	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'
Q33e	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?	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'
Q33f	HREGDATA	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only registry data (e.g. immunizations, cancer)?	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'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q33g	HREF	For other providers outside of your medical organization including public health agencies, do you electronically send and receive, send only, or receive only 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'
Q33h	HDISSUM	For other providers outside of your medical organization including public health agencies, do you electronically receive only hospital discharge summaries?	N	3	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'
Q33i	HEDNOT	For other providers outside of your medical organization including public health agencies, do you electronically receive only Emergency Department notifications?	N	3	3='Receive electronically only' 4='Do not send or receive electronically' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q33j	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?	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'
Q34a	IMEDLIST	When electronically receiving information from other providers, are you able to integrate medication lists into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4='Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34b	IPROLST	When electronically receiving information from other providers, are you able to integrate patient problem lists into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4='Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q34c	IMEDALG	When electronically receiving information from other providers, are you able to integrate medication allergies lists into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34d	IIMGREP	When electronically receiving information from other providers, are you able to integrate imaging reports into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34e	ILABRES	Are you able to integrate laboratory results into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34f	IREGDATA	When electronically receiving information from other providers, are you able to integrate registry data (e.g. immunizations, cancer) into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q34g	IREF	When electronically receiving information from other providers, are you able to integrate referrals that you electronically receive into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34h	IDISSUM	When electronically receiving information from other providers, are you able to integrate hospital discharge summaries into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34i	IEDNOT	When electronically receiving information from other providers, are you able to integrate Emergency Department notifications into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'
Q34j	ITOCSUM	When electronically receiving information from other providers, are you able to integrate summary of care records for transitions of care or referrals into your EHR without special effort like manual entry or scanning?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) 4= 'Not Applicable: Do not receive information electronically' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHRS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
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.	N	3	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 5='Uncertain' (EV = -8) 6='I do not see patients outside my medical organization' -7='Not Applicable' -9='Blank'
Q36	SEARCH	Do you have the capability to 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)?	N	3	1='Yes' 2='No' 3='Uncertain' (EV = -8) -7='Not Applicable' -9='Blank'
Q37.1	SEARCHTYPE1	Lab results	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q37.2	SEARCHTYPE2	Patient problem lists	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q37.3	SEARCHTYPE3	Imaging reports	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q37.4	SEARCHTYPE4	Medication lists	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q37.5	SEARCHTYPE5	Medication allergy lists	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q37.6	SEARCHTYPE6	Discharge summaries	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q37.7	SEARCHTYPE7	Other	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q38	SEARCHFREQ	How often do you electronically search for health information from sources outside of your medical organization when seeing a new patient or an existing patient who has received services from other providers?	N	3	1='Always' 2='Often' 3='Sometimes' 4='Rarely' 5='Never' -7='Not Applicable' -9='Blank'
Q39.1	SEARCHEHR	How do you search patient health information from outside sources? EHR	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q39.2	SEARCHWEB	How do you search patient health information from outside sources? WEB PORTAL.	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q39.3	SEARCHO	How do you search patient health information from outside sources? OTHER	N	3	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q40a	HIEQOC	(HIE) improves my practice's quality of care.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40b	HIEEFF	(HIE) increases my practice's efficiency.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40c	HIEDUPTST	(HIE) reduces duplicate test ordering.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40d	HIEPRVRXER	(HIE) prevents medication errors.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q40e	HIECUMB	(HIE) is cumbersome to do with our EHR.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40f	HIELIMIT	(HIE) is limited;providers in my referral network do not have the electronic capability to exchange data.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40g	HIECOMPINFO	(HIE) provides me with complete clinical information, both current and historical, from sources outside my medical organization.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'
Q40h	HIETRUST	(HIE) provides me with clinical information that I can trust.	N	3	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -7='Not Applicable' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Q42	WCOMPEMR	Who completed the form?	N	3	1='Sampled physician' 2='Office staff' 3='Other' -9='Blank'
Web	WCOMPEMRO	Who completed the form? (Other - Web only)	C	50	-9='Blank' Other='Entry made'
Admin box 2	COMPTYPE	How survey was completed	N	3	1='Mail' 2='Telephone' 3='Web through US mail' 4='Web through email' -7='Not applicable' -9='Blank'
Keyed2	WAVECOMP	Survey was completed during which wave	N	3	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='USMail-Web' 6='Email-web' 7='No data for this participant'
Derived	DISPEMR	Derived final disposition of EMR Mail Survey	N	3	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'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	GROUP	Participant grouping (1-5)	N	3	1='Push to web using email only' 2='Push to web through US mail only' 3='Push to web through both email and US mail' 4='Control group, use of traditional mail-out/mail back procedures only' 5='Traditional mail-out/mail back procedures'
RECODED AND CREATED VARIABLES					
Recoded from Physician sample file	MSA	Metropolitan Status (2 categories)	N	3	1='MSA' 2='non-MSA'
Recoded from Physician sample file	METRSTAT	Metropolitan Status (3 categories)	N	3	1='Metropolitan' 2='Micropolitan' 3='Non-metropolitan (neither)'
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: MULTI1-LOCSIZE	MULTIR1	Recoded practice type: solo and multiple practices - using MULTI1 and LOCSIZE.	N	3	1='Single-specialty practice' 2='Multi-specialty practice' 3='Solo practice' -7='Not Applicable' -8='Uncertain'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
SAMPLE FILE					
Physician Sample File: updated by zip if physician moved	REGION	Region of the Physician's interview office	N	3	1='NE' 2='NW' 3='S' 4='W'
Physician Sample File	PHYSEX	Sex of Physician	N	3	1='Female' 2='Male' -9='Blank'
Recode from PYOB	PAGE50	Physician age; two groups	N	3	1='Under 50 years' 2='50+ years'
ARF VARIABLES					
ARF-Derived	ARFHYY	Median household income (2013) [F13226-13]	N	4	-9='Blank' Other='Valid range'
ARF-Derived	ARFPPOV	Percent where income is below poverty level (2013) [F13321-13]	N	8	0.01-100.00='Valid range' -9='Blank'
ARF-Derived	ARFPWNH	Percent of population who is white, not Hispanic (2013) [F13926 & F13927-13]	N	8	0.01-100.00='Valid range' -9='Blank'
ARF-Derived	ARFPMCAID	Medicaid discharges per 1000 population (2012) [F10315-12]	N	8	0.01-999.99='Valid range' -9='Blank'
ARF-Derived	ARFP65	Percent of population who is 65 years and over (2013) [F14083-13]	N	8	0.01-100.00='Valid range' -9='Blank'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
ARF-Derived	ARFPRIMARYSA	HPSA Code: Population to FTE primary care ratio (06/15) [F09787-15]	N	3	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]	N	3	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	N	8	-42.91-122.75='Valid range' 999='Blank'
ARF-Derived	ARFGRO65	Percent change in population 65+ years, 2006 to 2013	N	8	-80.95-226.91='Valid range' 999='Blank'
		NCHS URBAN-RURAL FILE			
URBAN-RURAL FILE	URBANRU	2013 NCHS urban-rural classification based on provider zip code	N	3	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					
Derived	YEAR	Survey year	N	4	2015='Year: 2015'
Derived	SUBFILE	Survey identifier	N	3	1='NEHS'
Derived	STATE	State where the physician was sampled.	N	3	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	N	8	1-9999999='Valid range'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	MAILWGT	Rounded adjusted ratio adjusted doctor weight (responding doctors)	N	8	0='Out of scope of refused doctors' 1-999999='Responding doctors'
ONC REQUESTED VAIRABLES					
Derived	BASIC	Measure that serves as indicator of basic EHR adoption: EDEMOGR, ECPOER, ERESULTR, EIMGRESR, EPNOTESR, EMEDALGR, and EPROLSTR	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ANYDSR	Measure of participation in any delivery system reform (DSR): PCMH, P4P, or ACO	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESEND	Measure of electronically sending patient health info: Respond "Yes" to: EHR (not eFax) or Web Portal (separate from EHR)	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECV	Measure of electronically receiving patient health info: Respond "Yes" to: EHR (not eFax) or Web Portal (separate from EHR)	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESHARE	Measure of exchange of health info (ESEND or ERECV)	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	ESENDREFOUTR	Measure of electronically sending patient health info to ambulatory care providers outside your organization	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESENDREFWINR	Measure of electronically sending patient health info to ambulatory care providers within your organization	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESENDREFUHOSPR	Measure of electronically sending patient health info to unaffiliated hospitals	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESENDREFAHOSPR	Measure of electronically sending patient health info to affiliated hospitals	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESENDREFBEHAVR	Measure of electronically sending patient health info to behavior health providers	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ESENDREFLTCR	Measure of electronically sending patient health info to long-term care providers	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECVSEEOUTR	Measure of electronically receiving patient health info from ambulatory care providers outside your organization	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECVSEEWINR	Measure of electronically receiving patient health info from ambulatory care providers within your organization	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	ERECVSEEUHOSPR	Measure of electronically receiving patient health info from unaffiliated hospitals	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECVSEEAHOSPR	Measure of electronically receiving patient health info from affiliated hospitals	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECVSEEBEHAVR	Measure of electronically receiving patient health info from behavior health providers	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	ERECVSEELTCR	Measure of electronically receiving patient health info from long-term care providers	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	INTEGRATE	Measure of integrating patient health info: Respond "Yes" to any of the data types listed - IMEDLIST, IPROLST, IMEDALG, IIMGREP, ILABRES, IREGDATAR, IREF, IDISSUM, IEDNOT, or ITOCSUM	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	SEARCHFREQR	Measure of search activity across all physicians	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	SEARCHUSE	Measure of usage among those who have capability to search for info from outside sources	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'

Question number from 2015 NEHRs	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	HIE	Composite measure of send, find, receive and integrate any type of info	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	HIEHTOCSUM	Composite measure of send, find, receive and integrate for summary of care records	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	CINPOCRR	Composite measure of find, send, receive, and integrate for providers having info available at the point of care	N	3	1='Yes' 2='No or N/A or Uncertain' 3='Blank or missing'
Derived	HIEQOCR	Indicator of agreement related to barriers and benefits of HIE - quality of care	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIEEFR	Indicator of agreement related to barriers and benefits of HIE - efficiency	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIEDUPTSTR	Indicator of agreement related to barriers and benefits of HIE - duplicate test ordering	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIEPRVXERR	Indicator of agreement related to barriers and benefits of HIE - medication errors	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'

Question number from 2015 NEHS	Variable Name	Variable Label	C or N	SAS Variable Length	Values for variable range and labels
Derived	HIECUMBR	Indicator of agreement related to barriers and benefits of HIE - cumbersome	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIELIMITR	Indicator of agreement related to barriers and benefits of HIE - limited electronic capability	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIECOMPINFOR	Indicator of agreement related to barriers and benefits of HIE - complete clinical info	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'
Derived	HIETRUSTR	Indicator of agreement related to barriers and benefits of HIE - trust	N	3	1='Yes: somewhat/strong' 2='No: somewhat/strong' 3='N/A' 4='Blank or missing'