Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Barcode	PHYID_P	Physician unique identifier	Numeric	Numeric	1-16,633='Valid range for live data collection'
Q3 Recoded for public use file	NUMLOC_P	Overall, at how many office locations (excluding hospital emergency) do you see outpatient or office-based patients in a normal week?	Numeric	Factor	1='1 location' 2='2 locations' 3='3 or more locations' -9='Blank'
Q5 Recoded for public use file	SETTING_P	At which of the outpatient or office-based settings (1-11) in Question 4, do you see the most patients? Write the number located next to the box you checked. (For the rest of the survey, we will refer to this as the "reporting location.")	Numeric	Factor	1='Private solo or group practice' 2='Other setting'
Q7 Recoded for public use file	PSIZECAT_P	How many physicians, including you, work at this practice (including physicians at the reporting location, and physicians at any other locations of the practice)?	Numeric	Factor	1='1 physician' 2='2-3 physicians' 3='4-10 physicians' 4='11-50 physicians' 5='More than 50 physicians' -9='Blank'
Q8	IPAPHO	Is this medical organization affiliated with an Independent Practice Association (IPA) or Physician Hospital Organization (PHO)?	Numeric	Factor	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q9	MCAIDINS	Do you treat patients insured by Medicaid?	Numeric	Factor	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q9a	MCAIDINS2	Do you accept Medicaid insurance for new patients?	Numeric	Factor	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q10	MCAREINS	Do you treat patients insured by Medicare?	Numeric	Factor	1='Yes' 2='No' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q10a	MCAREINS2	Do you accept Medicare insurance for new patients?	Numeric	Factor	1='Yes' 2='No' -7='Not applicable' -8="Don't know" -9='Blank'
Q11	OWNS1	Who owns the reporting location? CHECK ONE.	Numeric	Factor	1='Physician or physician group' 2='Insurance company, health plan, or Health Maintenance Organization' 3='Community Health Center' 4='Medical/Academic health center' 5='Other hospital' 6='Other health care corporation' 7='Other' -9='Blank'
Q12	EMEDREC	Does the reporting location use an EHR system? Do not include billing record systems.	Numeric	Factor	1='Yes' 2='No' -8="Don't know"
Q13	HHSMU	Is your EHR system certified to meet U.S. Department of Health and Human Services requirements? Certified EHRs are necessary to meet the objectives of Meaningful Use/Promoting Interoperability Program. If unsure, see if your system meets the requirements here: https://chpl.healthit.gov/#/search	Numeric	Factor	1='Yes' 2='No' -7='Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q14	EHRNAME	What is the name of your primary EHR system? CHECK ONLY ONE BOX. If Other is checked, please specify the name.	Numeric	Factor	1='Allscripts' 2='athenahealth' 3='Cerner' 4='eClinicalWorks' 5='Epic' 6='Meditech' 7='Modernizing Medicine' 8='NextGen' 9='Practice Fusion' 10='Greenway' 11='Other' 12='Unknown' -7= 'Not Applicable' -9='Blank'
Q15	EHRSAT	Overall, how satisfied or dissatisfied are you with your EHR system?	Numeric	Factor	1='Very satisfied' 2='Somewhat satisfied' 3="Neither satisfied nor dissatisfied" 4= 'Somewhat dissatisfied' 5= 'Very dissatisfied' 6= 'Not applicable' -7='Not applicable, no EHR' -9='Blank'
Q16	SDHSN	Does your reporting location routinely collect data on individual patients' health-related social needs (often referred to as social determinants of health) such as transportation access, housing instability, or food insecurity?	Numeric	Factor	1='Yes, routinely' 2='Yes, but not routinely' 3='No' -7='Not applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q17(1)	SN_BUTTON	How often do you or designated staff document individual patients' health-related social needs using A screening tool in your EHR (e.g., that is entered from a paper form or by checking a box/button)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q17(2)	SN_NOTE	How often do you or designated staff document individual patients' health-related social needs using Free text note written in EHR?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q17(3)	SN_DIAG	How often do you or designated staff document individual patients' health-related social needs using Diagnosis codes entered in EHR (i.e., ICD-10-DM Z codes)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q17(4)	SN_NONELEC	How often do you or designated staff document individual patients' health-related social needs using Non-electronic methods (including paper forms scanned into the EHR)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q18(1)	HSNSSO	How often do you or designated staff use individual patients' health-related social needs data at your reporting location for Referrals to services (e.g., social service organizations)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q18(2)	HSNCDM	How often do you or designated staff use individual patients' health-related social needs data at your reporting location for Clinical decision making?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -7='Not applicable' -8="Don't know" -9='Blank'
Q19	TELEMEDICINE	Does your practice use telemedicine technology (e.g., audio, audio with video, web videoconference) for patient visits?	Numeric	Factor	1='Yes' 2='No' -8="Don't know" -9='Blank'
Q19a1	TELEMEDTOOL1	What type(s) of telemedicine tools did you use for patient visits? CHECK ALL THAT APPLY. Telephone audio	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q19a2	TELEMEDTOOL2	What type(s) of telemedicine tools did you use for patient visits? CHECK ALL THAT APPLY. Videoconference software with audio (e.g., Zoom, Webex, FaceTime)	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q19a3	TELEMEDTOOL3	What type(s) of telemedicine tools did you use for patient visits? CHECK ALL THAT APPLY. Telemedicine platform NOT integrated with EHR (e.g., Doxy.me)	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q19a4	TELEMEDTOOL4	What type(s) of telemedicine tools did you use for patient visits? CHECK ALL THAT APPLY. Telemedicine platform integrated with EHR (e.g., update clinical documentation during telemedicine visit)	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q19a5	TELEMEDTOOL5	What type(s) of telemedicine tools did you use for patient visits? CHECK ALL THAT APPLY. Other tools	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q20	METHSEHRFREQ	How often do you electronically send patient health information from other providers outside your medical organization using an EHR system (not eFax) or a Web Portal (separate from EHR)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4= 'Never' -8="Don't know" -9='Blank'
Q21	METHREHRFREQ	How often do you electronically receive patient health information from other providers outside your medical organization using an EHR system (not eFax) or a Web Portal (separate from EHR)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'
Q22	PHAPHI	Does your reporting location electronically send or receive patient health information with public health agencies? Public health agencies include the CDC, state or local public health authorities.	Numeric	Factor	1='Yes' 2='No' 3="Don't know (EV=-8)" 4="Not applicable" -8="Don't know" -9='Blank'
Q22a1	PHA1	What types of information do you electronically send or receive? (CHECK ALL THAT APPLY) Syndromic surveillance data	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q22a2	PHA2	What types of information do you electronically send or receive? (CHECK ALL THAT APPLY) Case reporting of reportable conditions	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q22a3	PHA3	What types of information do you electronically send or receive? (CHECK ALL THAT APPLY) Immunization data	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7= 'Not Applicable'
Q22a4	PHA4	What types of information do you electronically send or receive? (CHECK ALL THAT APPLY) Public health registry (e.g., cancer)	Numeric	Factor	0='Box is not marked' 1='Box is marked' -7='Not Applicable'
Q23	NSEARCHFREQ	When seeing a new patient or a patient who has previously seen another provider, how often do you electronically search or query for your patient's health information from sources outside of your medical organization? This could include via remote or view only access to other facilities' EHR or health information exchange organization.	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'
Q24	INTPHI	Does your EHR system integrate any type of patient health information received electronically (not eFax) without special effort like manual entry or scanning?	Numeric	Factor	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q25	CINPOC	When treating patients seen by providers outside your medical organization, how often do you or your staff have clinical information from those outside encounters electronically available at the point of care? Electronically available does not include scanned or PDF documents.	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' 6='I do not see patients outside my medical organization' -8="Don't know" -9='Blank'
Q26	EUSEPHIOUT	How frequently do you use patient health information electronically (not eFax) received from providers or sources outside your organization when treating a patient?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q27	EXTINFO_EFF	When you access clinical information from outside your organization (e.g., referrals, consult notes, discharge summaries, patient records) through any means (e.g., fax, phone, EHR, etc.), how easy is it to use the information to effectively care for your patients?	Numeric	Factor	1='Very' 2='Somewhat' 3='Not at all' 4='Not Applicable' -8="Don't know" -9='Blank'
Q28(1)	EXTINFO_SCN	When you access clinical information from outside your organization (e.g., referrals, consult notes, discharge summaries, patient records), how often is it available as a scanned document?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'
Q28(2)	EXTINFO_PORT	When you access clinical information from outside your organization (e.g., referrals, consult notes, discharge summaries, patient records), how often is it in an electronic portal (e.g., to a health information exchange) separate from your EHR?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'
Q28(3)	EXTINFO_INT	When you access clinical information from outside your organization (e.g., referrals, consult notes, discharge summaries, patient records), how often is it integrated within your EHR (as opposed to a PDF)?	Numeric	Factor	1='Often' 2='Sometimes' 3='Rarely' 4='Never' -8="Don't know" -9='Blank'
Q29(1)	EXTINFO_REC	When looking for or using clinical information from outside your organization, to what extent do the following occur: entire record is not available.	Numeric	Factor	1='To a great extent' 2='To some extent' 3='Not at all' 4='Not applicable' -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q29(2)	EXTINFO_KEY	When looking for or using clinical information from outside your organization, to what extent do the following occur: key information within record is missing/not available.	Numeric	Factor	1='To a great extent' 2='To some extent' 3='Not at all' 4='Not applicable' -9='Blank'
Q29(3)	EXTINFO_LOW	When looking for or using clinical information from outside your organization, to what extent do the following occur: difficulty finding important information due to a large amount of low-value information.	Numeric	Factor	1='To a great extent' 2='To some extent' 3='Not at all' 4='Not applicable' -9='Blank'
Q29(4)	EXTINFO_OTH	When looking for or using clinical information from outside your organization, to what extent do the following occur: difficulty finding necessary information within the record for other reasons.	Numeric	Factor	1='To a great extent' 2='To some extent' 3='Not at all' 4='Not applicable' -9='Blank'
Q30(1)	HIEQOC	Electronically exchanging clinical information with other providers outside my medical organization improves my practice's quality of care.	Numeric	Factor	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q30(2)	HIEEFF	Electronically exchanging clinical information with other providers outside my medical organization increases my practice's efficiency.	Numeric	Factor	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q30(3)	HIEPRVRXER	Electronically exchanging clinical information with other providers outside my medical organization prevents medication errors.	Numeric	Factor	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q30(4)	HIECARE	Electronically exchanging clinical information with other providers outside my medical organization enhances care coordination.	Numeric	Factor	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q30(5)	HIEDUPTEST	Electronically exchanging clinical information with other providers outside my medical organization reduces duplicate test ordering.	Numeric	Factor	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Not Applicable' -9='Blank'
Q31(1)	LACKCAP	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. Providers in our referral network lack the capability to electronically exchange (e.g., no EHR system or health information exchange connection).	Numeric	Factor	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q31(2)	ITSTAFF	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. We have limited or no IT staff.	Numeric	Factor	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q31(3)	HIECOSTOUT	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. Electronic exchange involves incurring additional costs.	Numeric	Factor	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q31(4)	MULPORTOUT	Please indicate whether these issues are barriers to electronic information exchange with providers outside your medical organization. Electronic exchange involves using multiple systems or portals.	Numeric	Factor	1='Yes' 2='No' 4='Not Applicable' -8="Don't know" -9='Blank'
Q32(1)	SSRSTRDT	For each type of public health reporting, please indicate whether your reporting location uses automated, manual or a mix of both types of processes to transmit the data. Automated refers to EHR generated data sent electronically or automatically to the public health agency. Manual refers to chart abstraction with data faxed or re-input into a portal. A mix of both types of processes refers to files electronically generated from the EHR but manual steps required to transmit to public health agency. Syndromic surveillance reporting	Numeric	Factor	1='Fully or primarily automated' 2='Mix of automated and manual process' 3='Fully or primarily manual' 4='We do not report this type of information' -8="Don't know" -9='Blank'
Q32(2)	IRRSTRDT	For each type of public health reporting, please indicate whether your reporting location uses automated, manual or a mix of both types of processes to transmit the data. Automated refers to EHR generated data sent electronically or automatically to the public health agency. Manual refers to chart abstraction with data faxed or re-input into a portal. A mix of both types of processes refers to files electronically generated from the EHR but manual steps required to transmit to public health agency. Case reporting of reportable conditions	Numeric	Factor	1='Fully or primarily automated' 2='Mix of automated and manual process' 3='Fully or primarily manual' 4='We do not report this type of information' -8="Don't know" -9='Blank'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
Q32(3)	ECRSTRDT	For each type of public health reporting, please indicate whether your reporting location uses automated, manual or a mix of both types of processes to transmit the data. Automated refers to EHR generated data sent electronically or automatically to the public health agency. Manual refers to chart abstraction with data faxed or re-input into a portal. A mix of both types of processes refers to files electronically generated from the EHR but manual steps required to transmit to public health agency. Immunization registry reporting	Numeric	Factor	1='Fully or primarily automated' 2='Mix of automated and manual process' 3='Fully or primarily manual' 4='We do not report this type of information' -8="Don't know" -9='Blank'
Q32(4)	PHRSTRDT	For each type of public health reporting, please indicate whether your reporting location uses automated, manual or a mix of both types of processes to transmit the data. Automated refers to EHR generated data sent electronically or automatically to the public health agency. Manual refers to chart abstraction with data faxed or re-input into a portal. A mix of both types of processes refers to files electronically generated from the EHR but manual steps required to transmit to public health agency. Public health registry reporting (e.g., birth defects registries, chronic disease registries or traumatic injury registries)	Numeric	Factor	1='Fully or primarily automated' 2='Mix of automated and manual process' 3='Fully or primarily manual' 4='We do not report this type of information' -8="Don't know" -9='Blank'
Q33	WCOMPEMR	Who completed this survey? (Check all that apply)	Numeric	Factor	1='The physician to whom it was addressed' 2='Office staff' 3='Other' -9='Blank'
Admin box 2	COMPTYPE	How the survey was completed.	Numeric	Factor	1='Mail' 2='Web'
Keyed1	WAVECOMP	Wave the survey was completed.	Numeric	Factor	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Web'
Derived	DISPEMR	Final disposition of NEHRS	Numeric	Factor	1='Complete (mail or web)'

Question number (Q#)-2024 NEHRS	Variable Name	Description	SAS/Stata Format	R Format	Values for variable range and labels
RECODED AND CREATED VARIABLES					
Recoded from SPECR & SPEC	**SPECCAT**	Physician specialty type obtained from response to survey	Numeric	Factor	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
Calculated based on survey interview date	**PAGE50**	Age group (in years) of physician (two category)	Numeric	Factor	1='Under 50 years' 2='50+ years'
SUDAAN Variables					
Derived	**YEAR**	Survey year	Numeric	Numeric	2024='Year: 2024'
Derived	**STRATA_P**	Masked stratum	Numeric	Numeric	1-12='Valid range'
Derived	**POPDOC**	Estimated number of NEHRS eligible physicians	Numeric	Numeric	1-9,999,999='Valid range'
Derived	**MAILWGT**	Rounded adjusted ratio adjusted physician weight (responding physicians)	Numeric	Numeric	1-999,999='Responding physicians'