

2013 NAMCS Physician Workflow Supplement File Layout for Use by NCHS Research Data Center

Last updated 3/24/2014

Question number from 2013 NAMCS Workflow supplement	Variable Name	Variable Label	C or N	Length	Values for variable range and labels
NONADOPTER AND ADOPTER Survey VARIABLES					
Barcode	PHYID	Physician ID	N	5	80000-90302='Valid range for live data collection'
Derived	SURVER	Survey Version	N	1	1='Non Adopter version' 2='Adopter version'
NA/A 2	NUMLOC	Number of office locations that patients are seen in a normal week	N	3	0-20 = 'valid range' -9='blank'
NA/A 4	SETTING	Setting with the most ambulatory visits	N	1	1-8 = 'valid range' -9 ='Blank'
N/A 7	PSIZECAT	Category of practice size of physicians for all locations?	N	2	1= '1 physician' 2= '2-3 physicians' 3= '4-10 physicians' 4= '11 -50 physicians'
NA/A 8	MIDLEVP1	Number of midlevel providers	N	2	0-99' ='valid range' -9='Blank'
NA/A 8	CLSTAFF1	Number of clinical staff (MA, RN)	N	2	0-99' ='valid range' -9='Blank'
NA/A 8	NCLSTAFF1	Number of nonclinical/administrative staff?	N	2	0-99' ='valid range' -9='Blank'
NA/A 9	MULTI1	Is the location a multi- or single- specialty group practice for the office that has the most ambulatory care visits?	N	2	1='Single' 2='Multi' -9='Blank'

NA/A 10	OWNERSH	Ownership status for office	N	2	1='Owner' 2='Employee' 3='Contractor' -9='Blank'
NA/A 11	OWNS1	Who owns the practice for the office that has the most ambulatory care visits?	N	2	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'
NA/A 12	PCMH	Does the reporting location participate in a certified PCMH arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -9='Blank'
NA/A 12a	PCMHPL	Does the reporting location plan to participate in a certified PCMH arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -7='Not Applicable' -9='Blank'
NA/A 13	P4P	Does the reporting location participate in a Pay-for-Performance arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -9='Blank'
NA/A 13a	P4PPL	Does the reporting location plan to participate in a Pay-for-Performance arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -7='Not Applicable'
NA/A 14	ACO	Does the reporting location participate in a Pay-for-Performance arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -9='Blank'

NA/A 14a	ACOPL	Does the reporting location participate in an Accountable Care Organization or similar arrangement?	N	2	1='Yes' 2='No' 3='Uncertain' -7='Not Applicable' -9='Blank'
NA/A 15	PRACSAT	Overall, how satisfied or dissatisfied are you with practicing medicine?	N	2	1='very satisfied' 2='somewhat satisfied' 3='somewhat dissatisfied' 4='very dissatisfied' -9='Blank'
NA/A 16	HIGHQOC	"I am able to provide high quality care to most of my patients at the reporting location" Would you say you...?	N	2	1='Strongly Agree' 2='Somewhat Agree' 3='Somewhat Disagree' 4='Strongly Disagree' -9='Blank'
NA/A 17	EHRSTAT	EHR Adoption Status	N	2	1='We are actively using an EHR system that was installed more than 12 months ago.' 2='We are actively using an EHR system that was installed within the past 12 months' 3='We are not actively using an EHR system but have one installed' '4='We do not have an EHR System' -9 ='blank'
N17a	EHREVER	Ever Plan to implement an EHR?	N	2	1='Yes' 2='No' 3='Uncertain because not involved in the decision making process' 4='Uncertain because undecided' -7='Not Applicable' -9='Blank'

N17b	EHRNEVER1	Do not plan on implementing EHR No system fits with my specialty	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER2	Do not plan on implementing EHR Plan to retire soon	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER3	Do not plan on implementing EHR Lack of time	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER4	Do not plan on implementing EHR - Lack of staff	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER5	Do not plan on implementing EHR - Lack of financial resources	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER6	Do not plan on implementing EHR- Privacy/security concerns	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N17b	EHRNEVER7	Do not plan on implementing EHR - Other	N	2	0='box not marked' 1='box marked' -7='Not applicable'

NA/A 18	PAYHIT1	At the reporting location, are there plans to apply for MU incentive payments?	N	2	1='Yes, we already applied' 2='Yes, we intend to apply' 3='No we will not apply' 4='Uncertain because not involved in the decision' 5='Uncertain because undecided'' 6= 'Uncertain-unknown' 7= Blank but sub-questions are answered -9='Blank'
NA/A 18A	NOPAYHIT1	Reasons for not applying for meaningful use incentives: Not Qualified as an eligible provider	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT2	Reasons for not applying for meaningful use incentives: The process to apply is difficult	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT3	Reasons for not applying for meaningful use incentives: not familiar with the MU incentive program	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT4	Reasons for not applying for meaningful use incentives: Usure that incentives will actually be paid	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT5	Reasons for not applying for meaningful use incentives (NOT SAME ORDER AS 2012) My EHR system does not exchange electronically with other providers	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT6	Reasons for not applying for meaningful use incentives (NOT SAME ORDER AS 2012) Not preprated to implement e-Rx	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA/A 18A	NOPAYHIT7	Other reasons for not applying for meaningful use incentives	N	2	0='box not marked' 1='box marked' -7='Not applicable'

NA/A 19	RECASS2	Has the reporting location received any type of assistance from a regional extension center?	N	2	1='Yes' 2='No' 3='Uncertain' 4='I am not familiar with the term regional extension center.' -9='Blank'
NA/A 20a	PM1IMP	How important is 'creating a list of patients by particular diagnosis' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20a	PM1OFT	How often is this task usually performed at this location? Create a list of patients by particular diagnosis?	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20a	PM1COM	Is the process omputerized? Create a list of patients by particular diagnosis?	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20b	PM2IMP	How important is 'creating a list of patients by particular lab result' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20b	PM2OFT	How often is this task usually performed at this location? create a list of patients by particular lab result	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'

NA/A 20b	PM2COM	Is the process computerized? create a list of patients by particular lab result	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20c	PM3IMP	How important is 'creating a list of patients by particular vital signs' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20c	PM3OFT	How often is this task usually performed at this location? create a list of patients by particular vital signs'	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20c	PM3COM	Is the process computerized?create a list of patients by particular vital signs'	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20d	PM4IMP	How important is 'creating a list of patients who are due for tests or preventive care' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20d	PM4OFT	How often is this task usually performed at this location? create a list of patients who are due for tests or preventive care'	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20d	PM4COM	Is the process computerized?create a list of patients who are due for tests or preventive care'	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'

NA/A 20e	PM5IMP	How important is 'providing patient reminders for preventive or follow-up care' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20e	PM5OFT	How often is this task usually performed at this location? provide patient reminders for preventive or follow-up care	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20e	PM5COM	Is the process computerized?provide patient reminders for preventive or follow-up care	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20f	QI1IMP	How important 'creating reports on clinical care measures for patients with specific chronic conditions' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20f	QI1OFT	How often is this task usually performed at this location? create reports on clinical care measures for patients with specific chronic conditions	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20f	QI1COM	Is the process computerized? create reports on clinical care measures for patients with specific chronic conditions	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20g	QI2IMP	How important is 'creating reports on clinical care measures by patient demographic characteristics'?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'

NA/A 20g	QI2OFT	How often is this task usually performed at this location? create reports on clinical care measures by patient demographic characteristics	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20g	QI2COM	Is the process computerized? create reports on clinical care measures by patient demographic characteristics	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20h	QI3IMP	How important is 'submitting clinical care measures to public and private insurers' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20h	QI3OFT	How often is this task usually performed at this location? submit clinical care measures to public and private insurers	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20h	QI3COM	Is the process computerized? submit clinical care measures to public and private insurers	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20i	PC1IMP	How important is 'providing patients with a copy of their health information' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20i	PC1OFT	How often is this task usually performed at this location? provide patients with a copy of their health information	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'

NA/A 20j	PC1COM	Is the process computerized?provide patients with a copy of their health information	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20j	PC2IMP	How important is 'recording a patient advanced directive' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20j	PC2OFT	How often is this task usually performed at this location? record a patient advanced directive	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20j	PC2COM	Is the process computerized? record a patient advanced directive	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20k	PC3IMP	How important is 'providing patients with a clinical summary for each visit' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20k	PC3OFT	How often is this task usually performed at this location? Provide patients with a clinical summary for each visit'	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20k	PC3COM	Is the process computerized? Provide patients with a clinical summary for each visit'	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'

NA/A 20l	CC1IMP	How important is 'receiving patient clinical information from other providers treating your patient' to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20l	CC1OFT	How often is this task usually performed at this location? receive patient clinical information from other providers treating your patient	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20l	CC1COM	Is the process computerized? receive patient clinical information from other providers treating your patient	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20m	CC2IMP	How important is receiving information needed to continue managing a patient post-hospital discharge to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'
NA/A 20m	CC2OFT	How often is this task usually performed at this location? Receive information needed to continue managing a patient post-hospital discharge	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20m	CC2COM	Is the process computerized?Receive information needed to continue managing a patient post-hospital discharge	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 20n	CC3IMP	How important is sharing patient clinical information with other providers treating your patient to delivering better patient care?	N	2	1='Very important' 2='Somewhat important' 3='Not Important' -9='Blank'

NA/A 20n	CC3OFT	How often is this task usually performed at this location? share patient clinical information with other providers treating your patient	N	2	1='More than weekly' 2='More than monthly' 3='Less than monthly' 4='Never' -9='Blank'
NA/A 20n	CC3COM	Is the process computerized? share patient clinical information with other providers treating your patient	N	2	1='Yes' 2='No' -7='Not applicable' -9='Blank'
NA/A 21a	PRACTEF	Overall, my practice would function more efficiently. <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21b	TIMEREV	Amount of time spent to plan review order and document care would increase. <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21c	TIMERXC	Amount of time spent responding to pharmacy calls would increase <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21d	ETIME	Overall, my EHR saves me time <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

NA/A 21e	ERXTIME	Sending prescriptions electronically would save me time <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21f	OVISINC	The number of weekly office visits would increase <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21g	FASTLAB	My practice would receive lab results faster <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21h	PAPRSAV	My practice would save on costs associated with managing & storing paper records <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21i	BILLESS	Billing for services would be less complete <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

NA/A 21j	FINABEN	My EHR would produce financial benefits for my practice <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21k	CLINBEN	My EHR would produce clinical benefits for my practice <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21l	EHRCARE	My EHR would allow me to deliver better patient care <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21m	RECAVAIL	My EHR would make records more readily available at the point-of-care <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21n	EHRDISRPT	My EHR would disrupt the way I interact with patients. <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

NA/A 21o	RECRUIT	My EHR would be an asset when recruiting physicians to join the practice <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21p	DATACON	My EHR would enhance data confidentiality <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21q	HISECURE	Health information would be less secure in my EHR system than a paper-based system <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21r	TRANSCOST	My EHR would reduce transcription costs. <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21s	SOCINFOUN	Summary of care documents received electronically from other providers would <u>contain unnecessary information</u> . <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'

NA/A 21t	SOCINFOTM	Summary of care documents received electronically from other providers would contain <u>too much information</u> . <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA/A 21u	EHRBENCOS	Overall, the benefits of having an EHR would outweigh its purchase and maintenance costs. <i>Nonadopters on adopter survey did not answer.</i>	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' -7='Not applicable' -9='Blank'
NA22a	EGOVPAY	Government incentive payments for EHR use	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22b	EFINAPEN	Proposed financial penalties for not using an EHR	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22c	EPRODAVA	Availability of government certified products	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'

NA22d	ESELASS	Assistance with selecting an EHR system	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22e	ETECHASS	Technical assistance w/ EHR implementation in your practice	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22f	ECOLLEAG	EHR systems being used by trusted colleagues	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22g	ECAPHIE	Capability of exchanging information electronically within your referral network	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA22h	EREQBC	Requirement to use EHR for maintenance of board certification	N	2	1='Major influence to adopt' 2='Minor influence to adopt' 3='Not an influence to adopt' -9='Blank'
NA 23a/A22a	ALRTRX	Has use of an EHR in your practice led to being alerted to a potential medication error?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'

NA 23b/A22b	RXERR	Has use of an EHR in your practice led to a potential medication error?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23c/A22c	ALRTLAB	Has use of an EHR in your practice led to being alerted electronically to critical lab values?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23d/A22d	LESSTALK	Has use of an EHR in your practice led to less effective communication during patient visits	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23e/A22e	ALRTPREV	Has use of an EHR in your practice led to being reminded to provide preventive care (e.g., vaccine, cancer screening)?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23f/A22f	ALRTCLN	Has use of an EHR in your practice led to being reminded to provide care that meets clinical guidelines for patients with chronic conditions?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'

NA 23g/A22g	IDLAB	Has use of an EHR in your practice led to ordering needed lab tests (such as HbA1c or LDL)?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23h/A22h	FEWRTEST	Has use of an EHR in your practice led to ordering fewer tests due to better availability of lab results?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23i/A22i	FORMRX	Has use of an EHR in your practice led to prescribing on-formulary drugs rather than off-formulary drugs?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23j/A22j	PTEMAIL	Has use of an EHR in your practice led to communicating directly with a patient via email or secure messaging?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23k/A22k	MDETALK	Has use of an EHR in your practice led to facilitated direct communication with other providers that are part of my patient care team?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'

NA 23i/A22i	REMOTE	Has use of an EHR in your practice led to accessing a patient's chart electronically to work remotely (e.g., from home)	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23m/A22m	PDAACC	Has use of an EHR in your practice led to accessing a patient's chart through your personal device (e.g., smart phone, tablet)?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23n/A22n	ALRTHIE	Has use of an EHR in your practice led to alerting you that you received a patient summary from another provider?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23o/A22o	REFORD	Has use of an EHR in your practice led to helping ordering a referral?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23p/A22p	REFFU	Has use of an EHR in your practice led to helping follow-up a referral?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'

NA 23q/A22q	BADLIST	Has use of an EHR in your practice led to inadvertently selecting the wrong medication or lab order from a list?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23r/A22r	OVERLOOK	Has use of an EHR in your practice led to overlooking something important because you received too many alerts?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23s/A22s	BADACC	Has use of an EHR in your practice led to access by an unauthorized outside entity?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
NA 23t/A22t	PTCARE	Has use of an EHR in your practice led to enhanced overall patient care?	N	2	1='Yes, within 30 days' 2='Yes, not in past 30 days' 3='Not at all' 5=' More than 1 box checked' 6='Yes (both yes boxes checked)' -7 ='not applicable' -9='Blank'
A23a	BARANN	Annual EHR maintenance cost as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'

A23b	BARPROD	Loss of productivity	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23c	BARTRAIN	Adequacy of training for staff and physician as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23d	BARTECH	Adequacy of EHR technical support as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23e	BARRELI	Reliability of EHR system as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23f	BARTEMP	Templates customized to specialty or specific patient conditions as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23g	BARRSST	Resistance to change work habits as barrier	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'

A23h	BARSEC	Ability to encrypt information to securely send information to other providers	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23i	BARPRIV	Ability to keep patient data private and secure	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23j	BARCLICK	Efficiency of performing tasks (e.g., too many clicks ("click fatigue"))	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
A23k	BARACC	Ability to access patient records (e.g. log in)	N	2	1='Major barrier' 2='Minor barrier' 3='Not a barrier' -7='not applicable' -9='Blank'
NA/A 24	ESHARE	Do you share any patient health information electronically (not fax) with other providers, including hospitals, ambulatory providers, or labs?	N	2	1='Yes' 2='No' 3='Not a barrier' -7='not applicable' -9='Blank'

NA/A 24a	HIEQOC	HIE improves my practice's quality of care	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'
NA/A 24b	HIEEFF	HIE increases my practice's efficiency	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'
NA/A 24c	HIEVCOST	HIE increases my practice's vendor costs	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'
NA/A 24d	HIEPORT	HIE requires multiple systems or portals	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'

NA/A 24e	HIELIAB	HIE increases my practice's liability due to other providers lacking adequate privacy/security safeguards	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'
NA/A 24f	HIEXINFO	HIE decreases my ability to separate sensitive health information from other data being exchanged	N	2	1='Strongly agree' 2='Somewhat agree' 3='Somewhat disagree' 4='Strongly disagree' 5='Uncertain' -7='Not applicable' -9='Blank'
NA/A25	EHRSAT	Overall EHR Satisfaction	N	2	1='Very satisfied' 2='Somewhat satisfied' 3='Somewhat dissatisfied' 4='Very dissatisfied' -7='not applicable' -9='Blank'
NA/A26	PURAGA	Purchase EHR again	N	2	1='Yes' 2='No' 3='Uncertain' -7='not applicable' -9='Blank'

NA/A27	EHRINSYR	Which year did you install your EHR/EMR system	N	4	1970-2013='Valid range' -7= 'Not Applicable' -8 = 'Unknown' -9 ='Blank'
NA/A28	EHRNAM	What is the name of your current EHR/EMR system?	N	2	1='Allscripts' 2='Amazing Charts' 3='Athenahealth' 4='Cerner' 5='eClinicalWorks' 6='eMDs' 7='Epic' 8='GE/Centricity' 9='Greenway Medical' 10= 'Mckesson/Practice Partner' 11='NextGen' 12='Practice Fusion' 13='Sage/ Vitera' 14='Other' 16='Two or more boxes checked' -7= 'Not Applicable' -8='Unknown' -9='Blank'
NA/A29	CMSMU	Does your current system meet meaningful use criteria defined by HHS?	N	2	1='yes' 2=' No' 3='uncertain' -7='not applicable' -9='blank'
NA/A29a	CMSMUUPG	Are there plans to upgrade your system to meet MU criteria?	N	2	1='yes' 2=' No' 3='uncertain' -7='not applicable' -9='blank'

NA30	EHRSYS	EHR System type	N	2	1='Stand alone' 2='Web-based design' -7='non applicable' -9='Blank'
NA31	TRAINCL	Average hours clinical staff spent in training to implement EHR system?	N	2	1='1-8 hours' 2='9-40 hours' 3='41 to 80 hours' 4='Over 80 hours' 5='Did not receive training' -7='not applicable' -9='Blank'
NA32	TRAINNC	Average hours non-clinical staff spent in training to implement EHR system?	N	2	1='1-8 hours' 2='9-40 hours' 3='41 to 80 hours' 4='Over 80 hours' 5='Did not receive training' -7='not applicable' -9='Blank'
NA33(1)	CLSTAFFINC	Changes in Clinical Staff-Overall clinical staff increased	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA33(2)	CLSTAFFDEC	Changes in Clinical Staff Overall clinical staff decreased	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA33(3)	CLSTAFFRESP	Changes in Clinical Staff- Shift in responsibilities among existing staff	N	2	0='box not marked' 1='box marked' -7='Not applicable'

NA33(4)	CLSTAFFNOCH	Changes in Clinical Staff- No staff changes	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA33(5)	CLSTAFFUNC	Changes in Clinical Staff- No staff changes	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA33 derived	CLSTAFFCHG	Types of Clinical Staff changes at the reporting location	N	2	1='Increased clinical staff only' 2='Decreased clinical staff only' 3= 'Shift in clinical staff responsibilities only' 4='Increased clinical staff and shifted responsibilities' 5='Decreased clinical staff and shifted responsibilities' 6='Increased and decreased clinical staff' 7='Increased, decreased, and shifted clinical staff roles" 8='no clinical staff changes' 9='uncertain' -7='not applicable' -9='Blank'
NA34(1)	ADSTAFFINC	Changes in Administrative Staff- Overall Administrative staff increased	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA34(2)	ADSTAFFDEC	Changes in Administrative Staff-Overall Administrative staff decreased	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA34(3)	ADSTAFFRESP	Changes in Administrative Staff-Shift in responsibilities among existing staff	N	2	0='box not marked' 1='box marked' -7='Not applicable'
NA34(4)	ADSTAFFNOCH	Changes in Administrative Staff-No staff changes	N	2	0='box not marked' 1='box marked' -7='Not applicable'

NA34(5)	ADSTAFFUNC	Changes in Administrative Staff-No staff changes	N	2	0='box not marked' 1='box marked' -7='Not applicable'
N34 Derived	ADSTAFFCHG	Types of Clinical Staff changes at the reporting location	N	2	1='Increased administrative staff only' 2='Decreased administrative staff only' 3='Shift in administrative staff responsibilities only' 4='Increased administrative staff and shifted responsibilities' 5='Decreased administrative staff and shifted responsibilities' 6='Increased and decreased administrative staff' 7='Increased, decreased, and shifted administrative staff roles' 8='no administrative staff changes' 9='uncertain' -7='not applicable' -9='Blank'
A30	TRAINPHY	Average hours spent in ongoing training over the past year to use your practice's EHR?	N	2	1='1-8 hours' 2='9-40 hours' 3='41 to 80 hours' 4='Over 80 hours' 5='Did not receive ongoing training' -7='not applicable' -9='Blank'
NA35/A31	PRODREV	Revenue generated by the reporting location over the last year	N	2	1='revenue increased' 2='revenue decreased' 3='revenue stayed the same' 4='uncertain' -9='Blank'
NA35a/A31a	PRODREVEHR	Change in revenue due to the EHR?	N	2	1='yes' 2='no' 3='uncertain' -7= not applicable -9='blank'

NA36/A32	PRODOV	Office visits by the reporting location over the last year	N	2	1='Office visits increased' 2='Office visits decreased' 3='Office visits stayed the same' 4='uncertain' -9='Blank'
NA36a/A32a	PRODOVEHR	Change in revenue due to the EHR?	N	2	1='yes' 2='no' 3='uncertain' -7= not applicable -9='blank'
NA37a/A33a	PTVIEWTST	Patient can view test results online	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
N37b/A33b	PTRQREF	Patient can request referrals online	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
N37c/A33c	PTRQRX	Patient can request refills for prescriptions online	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
N37d/A33d	PTRQAPT	Patient can request appointments online	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
N37e/A33e	PTENTER	Enter health information online (e.g., weight, symptoms)	N	2	1='yes' 2='no' 3='uncertain' -9='blank'

N37f/A33f	PTUPLOAD	Upload data from self-monitoring devices (e.g., blood glucose readings)	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
Derived from NA37/A33	PTONLINE	Can patients do any online activities?	N	2	1='yes' 2='no' 3='uncertain' -9='blank'
NA38/A34	EMRINS12	plans for installing a new EHR system in 12 months?	N	2	1='yes' 2='no' 3='maybe' -8='unknown' -9='blank'
NA39/A35	WCOMPWFS3	Who completed the form / refused	N	2	1='Physician' 2='Office staff' 3='Other' 4='Boxes 1 and 2 are checked' 5='Boxes 1 and 3 are checked' 6='Boxes 2 and 3 are checked' 7='All three boxes are checked' -9='Blank'

WORKFLOW RECODES

<p>Recode from EHRNAM</p>	<p>EHRNAMR</p>	<p>What is the name of your current EHR/EMR system?</p>	<p>N</p>	<p>2</p>	<p>1='Allscripts' 2='Amazing Charts' 3='Athenahealth' 4='Cerner' 5='eClinicalWorks' 6='eMDs' 7='Epic' 8='GE/Centricity' 9='Greenway Medical' 10='Mckesson/Practice Partner' 11='NextGen' 12='Practice Fusion' 13='Sage/ Vitera' 14='Other' 16='Two or more boxes checked' 17='MEDENT' 18='MEDITECH' 19='SRS EHR' 20='Intermountain Health Care/HELP2' 21='APRIMA' 22='Soapware' 23='NexTech' 24='AllMeds' 25='Medflow' 26='Quest Diagnostics/Care 360' -7='Not Applicable' -8='Unknown' -9='Blank'</p>
<p>Recoded from LOCSIZE</p>	<p>LOCSIZCAT</p>	<p>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)</p>	<p>N</p>	<p>3</p>	<p>1='Solo practice' 2='Two physicians' 3='3 to 5 physicians' 4='6-10 physicians' 5='11+ physicians' -9='Blank'</p>

<p>Recoded from LOCSIZE and PRACTSIZ 2011 PRACTSIZ 2011</p>	<p>LOCSIZCATR</p>	<p>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) missing replaced with first with 2012 and then by 2011 PRACTSIZR responders</p>	<p>N</p>	<p>3</p>	<p>1='Solo practice' 2='Two physicians' 3='3 to 5 physicians' 4='6-10 physicians' 5='11+ physicians' -9='Blank'</p>
<p>Recoded from LOCSIZE and PRACTSIZ 2011 PRACTSIZ 2012</p>	<p>LOCSIZCATRF</p>	<p>Flag whether missing LOCSIZCAT =-9 was replaced in LOCSIZCATR</p>	<p>N</p>	<p>3</p>	<p>0='LOCSIZCAT in 2013 not missing' 1='Missing replaced with 2011 PRACTSIZR' 2='Missing replaced with 2012 PRACTSIZR'</p>
<p>Recoded from Physician sample file</p>	<p>MSA</p>	<p>Interview metropolitan Status (2 categories) based on 2000 Census (consistent with WF 2011 and WF 2012)</p>	<p>N</p>	<p>1</p>	<p>1='MSA' 2='non-MSA'</p>

Recoded from Physician sample file	MSA13	Interview metropolitan Status (2 categories) for provider zip code - based on 2010 Census data	N	1	1='MSA' 2='non-MSA'
Recoded from SPECR & SPEC	SPECCAT	Physician specialty type	N	1	1='Primary care specialty' 2='Surgical specialty' 3='Medical specialty'
Recoded: LOCSIZE-MULTI1	MULTIR1	Recoded Solo and Multi variables	N	1	1='Single-specialty practice' 2='Multi-specialty practice' 3='Solo practice' -8='Unknown'
SAMPLE FILE					
Physician Sample File; updated by zip if physician moved	REGION	Region of the Physicians Interview office	N	1	1='NE' 2='MW' 3='S' 4='W'
Physician Sample File	PHYSEX	Sex of Physician	N	1	1='Female' 2='Male' -9='Blank'
Recode from PYOB	PAGE50	Physician age; grouped	N	1	1='Under 50 years' 2='50 years and over'
SUDAAN VARIABLES					
Derived	YEAR	Survey year	N	4	2013='Year: 2013'

Derived	SUBFILE	Survey identifier	N	1	1='NAMCS'
Sample	PROSTRAT	Provider sampled specialty stratum.	N	2	1-15='valid range'
Derived	STATE	State where the physician was sampled	N	2	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'
2013-specific derived variables					
Derived	ADOPTSTAT	Adopter status after year 3 (2013) workflow survey.	N	1	1='adopter' 2='nonadopter' 3='Unknown'
Derived	YR3WFWT09	Year 3 (2013) physician sampling weight. Nonresponse adjusted for MSA (updated 2000 Census file from 2009)	N	6	0='Out of scope or refused doctors' 1-999999='Responding doctors'
Derived	YR3WFWT13	Year 3 (2013) physician sampling weight. Nonresponse adjusted for MSA13 (2010 Census file from 2013)	N	6	0='Out of scope or refused doctors' 1-999999='Responding doctors'
Recode of DISPEMRWF3	DISPEMRWF3R	Derived final disposition of Workflow Mail Survey Year 3, updated.	N	2	1='Eligible Complete (phone, mail, or web)' 2='Eligible Refused' 3='Ineligible or out-of-scope' 4='Ineligible - Unlocatable' 5='Unknown Eligibility' 6='Eligible - Partially Complete/Incomplete'
Derived from WAVECOMPWF3	WAVECOMPWF3R	Survey was completed during which wave, year 3 (2013), with code 5 & 6 re-coded into early responders and late responders.	N	1	1='1st mailing' 2='2nd mailing' 3='3rd mailing' 4='Survey completed over the phone' 5='Survey completed via web before 4/23' 6='Survey completed via web on or after 4/23' 7='There is no data for this respondent'