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Health Information Technology and Workflow Clinician and Office Staff Survey

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Instructions

We appreciate the time you are taking to complete this survey and hope that the information will help us better understand how new technology influences the work people do in physician practices.

This is a survey about health information technology such as:

- Electronic Health Records (EHR or EMR, such as Allscripts, EPIC, EHS, Greenway);
- **Health Information Exchange** (HIE: A system that transfers patient health information electronically between two or more hospitals or other healthcare providers.);
- **Patient Portal** (sometimes referred to as [electronic] personal health records or PHRs; allows patients to view portions of their medical records [e.g., laboratory test results] and supports other health-related tasks such as making appointments or requesting medication refills. Some patient portal applications exist as stand-alone Web sites; other portal applications are integrated into an existing EHR system);
- **Secure Messaging with patients** (use of secure e-mail between patients and clinicians, typically using the secure messaging functionality in the EHR and/or patient portal);
- **e-forms** (surveys that are administered using computerized media [e.g., tablets, laptops] to collect information from patients using pre-formatted forms before or during patient visits).

When completing the survey, you can leave blank any questions that you do not want to answer. Your responses will be kept confidential to the extent permitted by law, including Section 944(c) of the Public Health Service Act. 42 U.S.C. 299c-3(c). That law requires that information collected for research conducted or supported by AHRQ that identifies individuals or establishments be used only for the purpose for which it was supplied. This survey has been designed to gather information about the work you do, the technology you use, and how the technology you use impacts how you do your work. Please try to answer all of the questions.

To answer the questions, check the appropriate box on the scale. For example:

	Never		ver It varies			Alv	vays
Secure messaging has a negative impact on patient care.		\square_2	X 3	□₄	\square_5	□6	

Some questions will require answers similar to the scale above, while other questions will require different responses. Please try to be as accurate as possible.

time

Section A. About your job

1. Please check your <u>current</u> job position: (For respondents who have multiple jobs: please answer in the last 6 months)	the question for the job	position that you ha	ve spent most of your
□₁ Physician □₃ Physician Assistant □₅ Nurse Practitioner □¬ Receptionist/Scheduler	□₂ Specialist □₄ Nurse □₆ Medical Assistant □₆ Lab or X-ray Techn	nician	
Other (specify)How long have you been in your current position?How many hours do you work at your job in an average	years age week?	months	_ hours per week
4. Do you use (please check all that apply):			
□₁ Electronic Health Records (EHR or EMR, such as All □₃ Health Information Exchange (HIE, a technology that □₂ Patient portal (sometimes referred to as [electronic] poportions of their medical records [e.g., laboratory test rest appointments or requesting medication refills. Some patie portal applications are integrated into an existing EHR sy □₄ Secure messaging with patients (use of secure e-mail messaging functionality in the EHR and/or patient portal) □₅ e-forms (surveys that are administered using compute patients using pre-formatted forms before or during patients	ersonal health records or ults] and supports other lent portal applications ex estem) between patients and cli	fferent hospitals and PHRs; allows patientelled tasks wist as stand-alone Vanicians, typically us	nts to view such as making Veb sites; other ing the secure
5. For which of the following health IT applications did □₁Electronic Health Records (EHR) □₂Health Information Exchange (HIE) □₃Patient Portal □₂Secure Messaging with patients □₂e-forms	you receive training:		

Section B. About organizational readiness for change

Please indicate your agreement or disagreement with the following statements, considering your practice:

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
 Among my colleagues, I am usually one of the first to find out about a new care process, diagnostic test, or treatment. 	□₁	□ 2	\square_3	□4	□₅
2. After we make changes to improve quality, we evaluate their effectiveness.		\square_2	\square_3	\square_4	□₅
3. Our procedures and systems are good at		\square_2	\square_3	\square_4	\square_5

Attachment I:	Clinician and	Office	Staff Survey
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	preventing errors from occurring.						
4.	We are innovative.	\square_1	\square_2	\square_3	\square_4	\square_5	

C. About the patient portal

Patient Portals, which are sometimes referred to as [electronic] personal health records or PHRs, allow patients to view portions of their medical records (e.g., view laboratory test results) and support other health-related tasks such as making appointments or requesting medication refills. Some patient portal applications exist as stand-alone Web sites; other portal applications are integrated into an existing EHR system.

1. Does the practice you work in use patient portals (Web sites that allow patients to view portions of their medical records)?

 \square_1 Yes

 \square_2 No (go to Section D)

If you provide **direct care** (physicians, physician assistants, nurse practitioners, nurses, and medical assistants), please fill out the questions in Table **A** below.

If you **do not provide direct care** (receptionist, scheduler, technician), please fill out the question in Table **B**.

How much do you agree or disagree with the following statements about the patient portal?

TABL	E A: Clinicians	Strongl y disagre e	Disagre e	Neithe r	Agre e	Strongl y agree
1.	The patient portal makes communication with patients more efficient.	□₁	\square_2	\square_3	□4	□₅
2.	Overall, the patient portal saves me time.		\square_2	\square_3	\square_4	□₅
3.	The patient portal has a negative impact on patient care.		\square_2	\square_3	□₄	□5
4.	The patient portal has a negative effect on my workflow.	□₁	\square_2	□₃	□₄	□₅
5.	The patient portal has a positive effect on patient-clinician communication.		\square_2	\square_3	□₄	□ ₅
6.	The information I receive from the patient portal makes an impact on my decision-making.	□₁	\square_2	\square_3	\square_4	□₅
7.	The patient portal reduces my workload.	\square_1	\square_2	\square_3	\square_4	\square_5
8.	The patient portal reduces patient care errors.	\square_1	\square_2	\square_3	\square_4	□₅
9.	The patient portal improves the quality of patient care.		\square_2	\square_3	□4	 5
10	. The information I get from the patient portal make my work easier.	□₁	\square_2	□₃	□₄	□₅
11.	. The patient portal has a positive impact on patient satisfaction	П	\square_2	\square_3	\square_4	 5
12	. Overall, I am satisfied with the patient portal.		\square_2	\square_3	\square_4	□₅

How much do you agree or disagree with the following statements about the patient portal?

	Strongl y	Disagre	Neithe	Agre	Strongl	Not applicabl		
TABLE B: Non-clinicians	disagree	e	r	e	y agree	е		
 The patient portal makes communication with patients more efficient. 	\square_1	\square_2	\square_3	□4	\square_5	□9		
Overall, the patient portal saves me time.		\square_2	□₃	□₄	□₅	□9		
3. The patient portal has a negative effect on my workflow.		\square_2	\square_3	\square_4	\square_5	□9		
4. The patient portal reduces my workload.		\square_2	\square_3	□₄	□₅	□9		
5. The patient portal improves the quality of patient care.		\square_2	\square_3	□4	□5	\square_9		
6. The information I get from the patient portal makes my work easier.	□₁	\square_2	□₃	□4	□₅	□9		
7. The patient portal has a positive impact on patient satisfaction.		\square_2	\square_3	□4	□₅	□9		
8. Overall, I am satisfied with the patient portal.		\square_2	□₃	□₄	□₅	□9		
functionality in the EHR and patient portal.	 Secure messaging refers to use of secure e-mail between patients and clinicians, typically using the secure messaging functionality in the EHR and patient portal. 1. Do you use secure messaging (secure e-mails between patients and clinicians)? □₁Yes 							
If you provide direct care (physicians, physic please fill out question 2 and the questions in			actitioners	s, nurses,	, and medic	al assistants)		
If you do not provide direct care (receptioni	st, schedule	er, technicia	an), please	fill out	the question	n in Table B .		
2. With what percentage of your patients do you	communicat	te by secure	messaging	?				
$\Box_1 1-10\%$ $\Box_2 11-25\%$ $\Box_3 26-50\%$ \Box_4 More than 50%								
How much do you agree or disagree with the following statements about secure messaging?								

TABLE A: Clinicians	Strongl y disagree	Disagre e	Neithe r	Agre e	Strongl y agree
Secure messaging makes communication with patients more efficient.			\square_3	\square_4	□₅
2. Overall, secure messaging saves me time.	□₁	\square_2	\square_3	\square_4	□₅

TABLE A: Clinicians	Strongl y disagree	Disagre e	Neithe r	Agre e	Strongl y agree
3. Secure messaging has a negative impact on patient care.		\square_2	\square_3	\square_4	\square_5
4. Secure messaging has a negative effect on my workflow.		\square_2	Пз	□₄	\square_5
5. Secure messaging has a positive effect on patient-clinician communication.		\square_2	\square_3	□4	\square_5
6. The information I receive from secure messaging makes an impact on my decisionmaking.		\square_2	□₃	□₄	\square_5
7. Secure messaging reduces my workload.		\square_2	\square_3	\square_4	\square_5
8. Secure messaging reduces patient care errors.		\square_2	□₃	\square_4	\square_5
9. Secure messaging improves the quality of patient care.		\square_2	\square_3	\square_4	\square_5
10. The information I get from secure messaging makes my work easier.		\square_2	Пз	□₄	\square_5
11. Secure messaging has a positive impact on patient satisfaction.	\square_1	\square_2	□3	□4	\square_5
12. Overall, I am satisfied with secure messaging.	\square_1	\square_2	\square_3	\square_4	\square_5

How much do you agree or disagree with the following statements about secure messaging?

T A	ABLE B: Non-clinicians	Strongl y disagree	Disagre e	Neithe r	Agre e	Strongl y agree	Not Applicabl e
1.	Secure messaging makes communication with patients more efficient.	\square_1	\square_2	\square_3	□4	\square_5	□,
2.	Overall, secure messaging saves me time.	□₁	\square_2	□₃	□₄	□₅	□9
3.	Secure messaging has a negative effect on my workflow.		\square_2	□₃	□4	□₅	□9
4.	Secure messaging reduces my workload.	□₁	\square_2	□₃	□₄	□₅	□9
5.	Secure messaging improves the quality of patient care.		\square_2	□₃	□₄	□₅	□9
6.	The information I get from secure messaging makes my work easier.		\square_2	□₃	□₄	□₅	□9
7.	Secure messaging has a positive impact on patient satisfaction.		\square_2	□₃	□₄	□₅	□9
8.	Overall, I am satisfied with secure messaging.	□₁	\square_2	□₃	□₄	□₅	□9

Section E. About e-forms

Does the practice you work in use <i>e-forms?</i> E-forms are surveys that are administered using computering	zed media (e.g.	٠,
tablets, laptops) to collect information from patients using pre-formatted forms before or during patient	visits.	

 \square_1 Yes \square_2 No (go to Section F)

If you provide **direct care** (physicians, physician assistants, nurse practitioners, nurses, and medical assistants), please fill out the questions in Table **A** below.

If you **do not provide direct care** (receptionist, scheduler, technician), please fill out the question in Table **B**.

How much do you agree or disagree with the following statements about e-forms?

TABLE A: Clinicians		Strongl y disagree	Disagre e	Neithe r	Agre e	Strongl y agree
1. e-forms make comm efficient.	unication with patients more		\square_2	\square_3	\square_4	
2. Overall, e-forms sav	e me time.	\square_1	\square_2	\square_3	\square_4	\square_5
3. e-forms have a nega	tive impact on patient care.	\square_1	\square_2	\square_3	\square_4	
4. e-forms have a nega	tive effect on my workflow.	\square_1	\square_2	\square_3	□₄	□₅
5. e-forms have a posit communication.	ive effect on patient-clinician		\square_2	\square_3	\square_4	 5
6. The information I re impact on my decision	trieve from e-forms makes an onmaking.	\square_1	\square_2	\square_3	□₄	\square_5
7. e-forms reduce my v	vorkload.	\square_1	\square_2	\square_3	\square_4	\square_5
8. e-forms reduce patie	nt care errors.	\square_1	\square_2	\square_3	□₄	\square_5
9. e-forms improve the	quality of patient care.	\square_1	\square_2	\square_3	\square_4	
10. The information I ge easier.	t from e-forms makes my work	\square_1	\square_2	\square_3	□₄	D ₅
11. e-forms have a posit	ive impact on patient satisfaction.		\square_2	\square_3	\square_4	\square_5
12. Overall, I am satisfic	ed with e-forms.	\square_1	\square_2	\square_3	\square_4	\square_5

		Strongl					Not Applicab
		disagre	Disagre	Neithe	Agre	Strongl	le
TP	ABLE B: Non-clinicians	e	e	r	е	y agree	
1.	e-forms make communication with patients more efficient.			\square_3	\square_4		\square_9
2.	Overall, e-forms save me time.	\square_1	\square_2	\square_3	\square_4	\square_5	\square_9
3.	e-forms have a negative effect on my workflow.			\square_3	\square_4	□ ₅	□9
4.	e-forms reduce my workload.	\square_1	\square_2	\square_3	\square_4	\square_5	\square_9
5.	e-forms improve the quality of patient care.			\square_3	\square_4	□5	□,

TABLE B: Non-clinicians	Strongl y disagre e	Disagre e	Neithe r	Agre e	Strongl y agree	Not Applicab le
6. The information I get from e-forms make my work easier.			Пз	\square_4	□₅	□9
7. e-forms have a positive impact on patient satisfaction.		\square_2	Пз	□₄	□ 5	□9
8. Overall, I am satisfied with e-forms.	□₁	\square_2	\square_3	\square_4	□₅	□9

Section F. Barriers to using health IT in your work

How much of a barrier is each of the following to the use of health information technology (EHR, HIE, patient portal, secure messaging, e-forms) in your practice?

	Not a barrier	Minor barrier	Major barrier
1. Computer skills of you and/or colleagues/staff	\square_1	\square_2	\square_3
2. Computer technical support	\square_1	\square_2	\square_3
3. Lack of time to acquire knowledge about technology	\square_1	\square_2	\square_3
4. Start-up financial costs	\square_1	\square_2	\square_3
5. Ongoing financial costs	\square_1	\square_2	\square_3
6. Training and productivity loss	\square_1	\square_2	\square_3
7. Physician skepticism	\square_1	\square_2	\square_3
8. Privacy or security concerns	\square_1	\square_2	\square_3
9. Lack of uniform standards within industry (e.g., having to use multiple systems used by different providers and health systems/providers)			□3
10. Technical limitations of health information technology	\square_1	\square_2	\square_3
11. Staff skepticism		\square_2	\square_3
12. Workflow changes	\square_1	\square_2	\square_3

Att	achment I: Clin	ician and Office	Staff Survey										11	
Se	ction G. Ab	out your per	ceptions of work											
1.	How satisfi	•	ith the care provided	Totally dissatisfi	ied □₁	\square_2	\square_3	\square_4	\square_5	\square_6	D ₇		npletel tisfied	
2.		l you rate the your practice	quality of care e?	Lowest		\square_2	□ ₃	□₄	□ ₅	\square_6	D ₇	Highest		
	0		l with the workload the			, ,		ase put	t an '	X' on	each o	of the	1	
								Lo)W				High	
3.			nuch mental activity is ulating, remembering,				b	Ь		Ш	Ш	Ш	ШШ	
4.			much physical activity urning, controlling, act		•	m your	· job	L		Ш	Ш	П	ШШ	
5.	_		w much time pressure celements occurred?	do you feel	due to the	e rate oi	r pace	<u> </u>	Ш	Ш	Ш	Ш	لتليل	
6.		w hard do you of performanc	n have to work (mental re?	lly and phys	sically) to	accomp	plish	L		Ш	Ш		لتليل	
7.	Performan	ice. How satis	sfied are you with you	r performan	ice at youi	r job?		L	Ш	Ш	Ш			
8.			insecure, discouraged, content, relaxed and co					L		Ш	Ш	111	لتليلي	
9.	All in all, h	now satisfied v	would you say you are	with your j	job?									
	Not at all		Not too satisfi	ied	Some	what sa	tisfie	d		Ve	ry sat		d	
			□2			□3					\square_4	ļ		
10	. How likely	is it that you	will actively look for Somewhat	a new job ii	n the next	year?						Evi	tremely	
No	ot at all likel	~······	likely		····· ···	Quite l							likely	
	\square_1	\square_2	\square_3	□4	\square_4 \square_5			\square_6				\square_7		
							<u>-</u>	A few			A fe	23 47		
A few times times times once a a year a month a week, or less, month a limes or less, some- rather all the E					Every									
11	. I feel emot	ionally draine	d from my work.	Never □1	never □2	rarel □ ₃		times		ften □₅	tim		day □ ₇	
12. I feel used up at the end of the workday.					\square_2	□₃		\square_4		\square_5		6	\square_7	

 \square_1

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 \square_7

13. I feel fatigued when I get up in the morning and have to face another day on the job.

14. Working all day is really a strain for me.

15. I feel burned out from my work.

Sec	ction H. About you
1.	What is your gender? \square_1 Male \square_2 Female
2.	What is the highest level of education you have completed?
	□₁ High school/GED □₂ Some college □₃ 2-year college degree (Associate) □₄ 4-year college degree (Bachelor, BA, BS, BSN, etc.) □₅ Master's degree (MA, MS) □₆ Professional degree (MD, PharmD) □٫ Doctoral degree (PhD, DNP, etc)
3.	How old are you? \square_1 34 or less \square_2 35-44 \square_3 45-54 \square_4 55+
4.	Are you of Hispanic or Latino origin? \square_1 Yes \square_2 No
5.	What is your racial background? (Check all that apply)
	\square_1 American Indian / Alaska Native \square_2 Asian \square_3 Native Hawaiian or Other Pacific Islander \square_4 Black / African American \square_5 White \square_6 Other (please specify):
6.	What description does best describe the level of your computer skills?
	□₁ Novice user (You just started using computers) □₂ Average user (You use word processors, spreadsheets, e-mail, surf the Web, etc.) □₃ Advanced user (You can install software, setup configurations, etc.) □₄ Expert user (You can setup operating systems; know some computer programming languages, etc.)
7. I	How many years of computer experience do you have? years
Ple	ase write any comments you may want to share with the research team.

Thank you very much for your participation in this study.