Massachusetts Survey of Physicians and Computer Technology

Brigham and Women's Hospital, Boston MA
This is a questionnaire designed to be completed by physicians in an ambulatory setting.
The tool includes questions to assess user's perceptions of electronic health records.

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Instructions

This survey asks about your medical practice and factors related to the use of certain computer technology, particularly electronic health records (EHRs; also called electronic medical records). It will take about 15 minutes to complete.

All responses are private and confidential. Results will be analyzed only in the aggregate and individual responses will not be reported.

ın	this section	We ask v	ou questions	annıt vnır	OLITHATIANT I	nractice
,,,	11110 00011011,	WC GON V	ou questions	about your	outpution i	oraciice.

•••	000	, we don't ou questions assuring output on processor.	
1.	In a typica	I week, in how many different outpatient offices do you see patients?	
		One	
		Two	
	\square_3	Three or more	
		None, I do not see any outpatients (SKIP to Question 30 on Page 7)	
F	or the rem	nainder of the survey, please keep in mind the office practice site value is spend the most time, your main practice.	where you
2.	What perc	ent of your outpatient clinical time is spent at your (main) practice?	
		Less than 25% of outpatient time	
		25%-49% of outpatient time	
	\square_3	50% - 75% of outpatient time	
	$\square_{_4}$	More than 75% of outpatient time	
3.	How would	d you best characterize your practice? (Please check only one)	
		Solo primary care practice	
		Solo specialty care practice	
	\square_3	Primary care group or partnership	
	$\square_{_4}$	Single specialty group or partnership	
	$\square_{\scriptscriptstyle 5}$	Multi-specialty group or partnership (including staff or group model HMOs)	
4.	How long	have you been associated with your practice group?	
		years	
5.	Are you a		
		Full-owner	
		Part-owner	
	$\square_{\scriptscriptstyle 3}$	Not an owner of the practice	
ſΜ	D_ID]	*NOT FOR CITATION OR REPRODUCTION*	Page 1 of 8

6.	Cor	nside	ering all full- and part-time clinicians a	t your ma	in practice	e, including	yourself, ho	w many are
		Phy	sicians:					
		Nurs	se practitioners or physician assistant	s:				
7.	Hav	/e ar	ny residents or students been present	in your p	ractice wi	thin the pas	t year?	
			Yes					
			No					
8.	Plea	ase (estimate the number of outpatient vis	its you h	ave in a t y	pical week	in your pra	ictice.
			outpatient visits					
9.			estimate approximately what percent ce/ethnicity:	age of the	e patients	s you see ir	a typical v	veek are of
		a)	Asian			%		
		b)	American Indian or Alaska Native			%		
		c)	Black or African American, non-Hispanic	:		%	shoul	d total
		d)	Native Hawaiian or Other Pacific Islande	r		%	} 10	0%
		e)	White, non-Hispanic			%		
		f)	Hispanic or Latino			%		
		g)	Other			%)	
10.		-	ur current medical record system (pap ff to generate the following informatio			•	y would it b	e for you or
				Very	Somewhat		,	Cannot
		a)	List of patients by diagnosis or health risk (e.g., diabetes)	Easy	Easy \square ₂	difficult	Difficult	Generate □ _₅
		b)	List of patients by laboratory results (e.g., patients with abnormal hematocrit levels)			 3		
		c)	List of patients by medications they currently take (e.g., patients on warfarin)			\square_3		\square_{5}
11.			g of your main practice, please indicat heck only one for each item.)	e how mi	uch of a p	roblem each	n of the follo	wing is for
				Not Prob		0	Moderate Problem	Serious Problem
		a)	Isolation from colleagues		_			
		b)	Personal or professional stress		1			
		c)	Having to work long hours to meet practice demands		1		 3	
		d)	Feeling demoralized about the state of medical practice in general		1,		\square_3	

18. Please indicate all features of the EHR that you have available in your practice. For those features that you have, indicate the extent to which you use them:									
			A	vailab	ole		Use		
	Fea	atures of your EHR	Yes	No	Don't Know	I do not use	I use some		
		Laboratory test results						З	
	b)	Laboratory order entry			 3			З	
	c)	Radiology test results						З	
	d)	Radiology order entry						Эз	
	e)	Electronic visit notes						а	
	f)	Reminders for care activities (e.g. overdue health maintenance)			Эз	٦			
	g)	Electronic medication lists of what each patient takes			\square_3			\square_3	
	h)	Electronic problem list			\square_3			\square_3	
	i)	Can transmit prescriptions to pharmacy electronically or via electronic faxing							
	j)	Electronic referrals or clinical messaging (secure e-mailing between providers)			_				
		uch of a barrier is each of the followi logy in your main practice?	ng to	beginı	ning or e	expanding the	use of com	puter	
					ot a barr	ier Minor b	<u>arrier</u> <u>Maj</u>	or barrier	
	a)	Computer skills of you and/or colleague	es/staf	f			2	□ ₃	
	p)	• • • • • • • • • • • • • • • • • • • •					2	 3	
	c)	Lack of time to acquire knowledge abo systems	ut				2	З	
	d)	Start-up financial costs					2	\square_3	
	e)	Ongoing financial costs					2	З	
	f)	Training and productivity loss					2	□ ₃	
	g)	Physician skepticism					2	\square_3	
	h)	Privacy or security concerns					2	□ ₃	
	i)	Lack of uniform standards within indus (e.g., having to use multiple systems u different providers and plans)	,	,			2	\square_3	
	j)	Technical limitations of systems					2	\square_3	

20. How much of a role do/did each of the following organizations play in deciding whether to adopt a new electronic health record system in your practice?							
			Very much	Some what	Very little	Not at all	N/A or don't know
	a)	Your practice group(s)			\square_3		
	b)	(PHOs) or Independent Practice Association(s) (IPAs)			\square_3		$\square_{\scriptscriptstyle 5}$
	c)	Integrated Delivery System(s) (IDS) (e.g. Baystate, Partners)			□ ₃		□ ₅
	d)	Managed care plans you work with			□ ₃		
	e)	Massachusetts Medical Society			\square_3		
	f)	Your specialty's professional society (e.g., AAP, AAFP, ACP, ACS, etc.)			□ ₃		
	g)	MassPRO or DOQ-IT			З		
	h)	Massachusetts e-Health Collaborative			\square_{3}	$\square_{_4}$	$\square_{\scriptscriptstyle 5}$
	i)	The LeapFrog Group			☐ ₃		
	j)	Other (i. specify:)			Пз		
21. Hov	v oftene, w	Personal Computer Experience en do you use the Internet for personal arrork, or another location? (Please check of Several times a day Daily Weekly Monthly Less than monthly or not at all	only one)				
22. Wha	at typ	pe of Internet connection do you have at	your mair	practice?	' (Please	check only	/ one)
		Do not have an Internet connection at Dial-up modem connection Broadband (i.e., DSL or cable modem Don't know		r connecti	on (e.g. 1	「1 or T3 lin	e)
23. Doe	es yo	our practice have email?					
		Yes No					

Section IV: Computers and Health Care

		each outcome listed below, indica positive, somewhat positive, no					is, or v	vould be,
	Eff	ect of computers on	Very Positive	Somewhat Positive	No Effect		ewhat ative	Very Negative
	a)	Controlling costs of health care			\square_3		$\Box_{\scriptscriptstyle 4}$	₅
	b)	Quality of health care			 3			 5
	c)	Interactions within the health care team			$\square_{_3}$		$\beth_{_4}$	$\square_{\scriptscriptstyle 5}$
	d)	Patient-physician communication					$\mathbf{J}_{\scriptscriptstyle{4}}$	
	e)	Patient privacy				Ţ	$\mathbf{J}_{\scriptscriptstyle{4}}$	
	f)	Clinicians' access to up-to-date knowledge] 4	 5
	g)	Efficiency of providing care			 3		$\Box_{\scriptscriptstyle 4}$	
	h)	Medication errors				_	ے ا	
Sec	tior	V: Financial Considerations						
		ase indicate below whether the fol ntive payments) contribute to eith	•	` •		erson ice's	al earn Per	
a)		ypes of electronic information system escribing)	s you have (e	e.g., EHRs, e-				
b)	•	ne amount you use electronic informa	ation systems					
c)	Р	atient survey results (e.g. satisfaction	n)					
d)	С	linical quality (e.g., "pay for performa	nce")					
k	on	roximately what percent of your 2 uses, returned withholds, or other ord systems or electronic preso	incentive pa					
		□₁ 0% of income						
		$\square_{\scriptscriptstyle 2}$ 1 - 5% of income						
		$\square_{\scriptscriptstyle 3}$ 6 - 10% of income						
		more than 10% of income						
		□₅ Not sure						
		ctices vary with respect to the cap						
		☐₁ Extensive resources						
		☐₂ Moderate resources						
		☐₃ Limited resources						
		□₄ No resources						

fina	ou decided that a new compute ncial investment, how difficult of t was						
		Not at all	Somewhat	Very	Impossible		
2)	Loca than \$10,000 per physician	Difficult	Difficult	Difficult	· —		
a)	Less than \$10,000 per physician \$10,000 - \$25,000 per physician						
c)		'		□ ₃			
-,	physician			 3			
<u>Section</u>	VI: The Office Practice Enviro	nment					
	ase indicate your agreement or disce practice:	sagreement v	with the follov	ving stateme	nts, consider	ing your m	ain
				Neither Agree			
		Strong Agree		nor Disagree	Disagree	Strongly Disagree	
	a) The office staff are innovative	7.gro	, tg/ss	□ ₃		□ ₅	
	b) The physician(s) are innovative			□ ₃		 5	
1	 Among my colleagues, I am usual one of the first to find out about a new diagnostic test or treatment 	lly \square_1					
	d) We are actively doing things to improve quality of care						
1	e) After we make changes to improv quality, we evaluate their effectiveness	e 🔲 1				 5	
1	f) We have quality problems in our						
	practice g) Our procedures and systems are	1		 3	4	<u>_</u> ,	
	good at preventing errors from occurring			 3		 5	
	g						
Section	VII: Personal Characteristics						
	uld like to end this survey by askir It survey findings and determine h	•	•		on that may l	help us	
30. In w	hat year did you graduate from m	edical schoo	ol?				
-	year graduated						
31. ln w	hat year were you born?						
-	year						
32. Are	vou						
· · · ·	□₁ Male						
	□₂ Female						
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33. Are you of	Hispanic or Latino origin?
	Yes No
	swer this question whether or not you are Hispanic or Latino. What is your race? Select or the following -
1 2 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Asian American Indian or Alaska Native Black or African American Native Hawaiian or Other Pacific Islander White Other
35. Date surve	ey completed: / /
Please return	the survey in the stamped return envelope to (Atlantic to insert):
	Thank you for your help!