Safety Net Medical Home Scale (SNMHS) with Exact Questions and Scoring Algorithm*

Development of a Safety Net Medical Home Scale for Health Centers Jonathan M. Birnberg MD, Melinda L. Drum PhD, Elbert S. Huang MD MPH, Lawrence Casalino MD PhD, Sarah Lewis MSPH, Anusha Vable MPH, Hui Tang MS, Michael Quinn PhD, Deborah Burnet MD MA, Thomas Summerfelt PhD, Marshall H. Chin MD MPH. Journal of General Internal Medicine (Accepted June 7, 2011)

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Qı	uestions	Points per Response
Domain 1: Access and Comm	unication	-
	please indicate when the following types at your clinic (select all that apply): sick	
Before 8:30 am		0.333
After 6 pm		0.333
During the weekend		0.333
None of these Hour	S	0
of patient visits can be scheduled a regular or well visits† (Q15b)	please indicate when the following types at your clinic (select all that apply):	
Before 8:30 am		0.666
After 6 pm		0.666
During the weekend		0.666
None of these Hour		0
	ts experience the following at your clinic: led with their personal clinician versus	
Usually (75 – 100%		2
Often (50 – 74% of		1.5
Sometimes (25 – 49	9% of the time)	1
Rarely (1 – 24% of t	he time)	0.5
Never		0
patients are able to receive a same request one [†] (Q16b)	ts experience the following at your clinic: e or next-day appointment when they	
Usually (75 – 100%		2
Often (50 – 74% of	,	1.5
Sometimes (25 – 49	9% of the time)	1
Rarely (1 – 24% of t	he time)	0.5
Never		0
	ts experience the following at your clinic: on clinical issues during office hours	
Usually (75 – 100%		1
Often (50 – 74% of	, , , , , , , , , , , , , , , , , , ,	0.75
Sometimes (25 – 49	9% of the time)	0.5
Rarely (1 – 24% of t	he time)	0.25
Never		0
patients can get telephone advice regular office hours† (Q16d)	ts experience the following at your clinic: on clinical issues on weekends or after	
Usually (75 – 100%	of the time)	2
Often (50 – 74% of	the time)	1.5
Sometimes (25 – 49	9% of the time)	1
Rarely (1 – 24% of t		0.5
Never	,	0

	do you think your patients experience the following at your clinic: n email providers about clinical issues (Q16e)	
pationto cai	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
Language	Questions [‡]	
«Clinic»for	if ever, are the following services available at your clinic communicating with patients who do not speak English: bilingual f who provide translation (Q26a)	
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
«Clinic»for	if ever, are the following services available at your clinic communicating with patients who do not speak English: bilingual staff (e.g. front desk staff) who translate for patients (Q26b)	
	Usually (75 – 100% of the time)	0.5
	Often (50 – 74% of the time)	0.375
	Sometimes (25 – 49% of the time)	0.25
	Rarely (1 – 24% of the time)	0.125
	Never	0
«Clinic»for	if ever, are the following services available at your clinic communicating with patients who do not speak English: trained available onsite within the clinic (Q26c)	
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
«Clinic»for	if ever, are the following services available at your clinic communicating with patients who do not speak English: ines to access off-site interpreters § (Q26d)	
	Usually (75 – 100% of the time)	0.5
	Often (50 – 74% of the time)	0.375
	Sometimes (25 – 49% of the time)	0.25
	Rarely (1 – 24% of the time)	0.125
	Never	0
	Sum of all items	0-12
Score	Multiply sum of all items by (100/12)	0-100

Domain 2: Patient Tracking	
Do you currently use any of the following technologies at your clinic:	
electronic list of all medications taken by a patient (including those	
prescribed by other doctors) (11e)	
Yes, routinely	1
Yes, occasionally	0.5
No	0
With the patient medical records system you currently have, how easy would it be for the staff in your clinic «Clinic» to generate the following	
information about the majority of your patients: list of patients by diagnosis (e.g., diabetes or hypertension) † (Q12a)	
Easy (<24 hours)	2
Somewhat difficult (<1 week)	1.333
Difficult (≥1 week)	0.666
Cannot generate	0
Ability to generate a list of patients by health risk (e.g., smokers) (Q12b)	
Easy (<24 hours)	1
Somewhat difficult (<1 week)	0.666
Difficult (≥1 week)	0.333
Cannot generate	0
With the patient medical records system you currently have, how easy would it be for the staff in «Clinic» to generate the following information about the majority of your patients: list of patients by lab result (e.g., HbA1C>9.0) (Q12c)	
Easy (<24 hours)	1
Somewhat difficult (<1 week)	0.666
Difficult (≥1 week)	0.333
Cannot generate	0
With the patient medical records system you currently have, how easy would it be for the staff in your clinic «Clinic» to generate the following information about the majority of your patients: list of patients who are due or overdue for tests or preventive care (e.g., flu vaccine due) † (12d)	
Easy (<24 hours)	2
Somewhat difficult (<1 week)	1.333
Difficult (≥1 week)	0.666
Cannot generate	0
With the patient medical records system you currently have, how easy would it be for the staff in «Clinic» to generate the following information about the majority of your patients: list of all patients taking a specific medication (e.g., all patients on ACE inhibitors, or on a specific nonsteroidal anti-inflammatory medication) (12e)	
Easy (<24 hours)	1
Somewhat difficult (<1 week)	0.666
Difficult (≥1 week)	0.333

would it be	tient medical records system you currently have, how easy for the staff in your clinic «Clinic» to generate the following about the majority of your patients: list of panel of patients by Q12f)	
	Easy (<24 hours)	2
	Somewhat difficult (<1 week)	1333
	Difficult (≥1 week)	0.666
	Cannot generate	0
	Sum of all items	0-10
Score	Multiply sum of all items by (100/10)	0-100

Domain 3: Care Management	
Do you currently use any of the following technologies at your clinic:	
electronic prescribing of medication (Q11d)	
Yes, used routinely	1
Yes, used occasionally	0.5
No	0
Do you currently use any of the following technologies at your clinic:	
electronic alerts or prompts about a potential problem with drug dose or	
drug interaction (Q11f)	
Yes, used routinely	1
Yes, used occasionally	0.5
No	0
How often, if ever, are the following tasks performed at your clinic: patients	
are sent reminder notices when it is time for regular preventive or follow-up	
care (e.g., flu vaccine or HbA1C for diabetic patients)† (Q13a)	
Usually (75 – 100% of the time)	2
Often (50 – 74% of the time)	1.5
Sometimes (25 – 49% of the time)	1
Rarely (1 – 24% of the time)	0.5
Never	0
How often, if ever, are the following tasks performed at your clinic: provider	
receives an alert/prompt at point of care for appropriate care services	
needed by patients (e.g., pap smear or immunizations due) † (Q13b)	
Usually (75 – 100% of the time)	2
Often (50 – 74% of the time)	1.5
Sometimes (25 – 49% of the time)	1.5
Rarely (1 – 24% of the time)	0.5
Never	0.5
Please indicate which members of your staff routinely perform the following	U
tasks as part of their regular jobs at your clinic (Select All That Apply): Call	
patients to check on medications, symptoms, or help coordinate care in-	
between visits (Q17a)	
Advanced practice providers	0.25
Nurses	0.25
Other clinical staff	0.25
Non-clinical staff	0.25
Please indicate which members of your staff routinely perform the following	0.20
tasks as part of their regular jobs at your clinic (Select All That Apply):	
execute standing orders for medication refills or ordering tests (Q17b)	
Advanced practice providers	0.25
Nurses	0.25
Other clinical staff	0.25
Non-clinical staff	0.25
Please indicate which members of your staff routinely perform the following	-
tasks as part of their regular jobs at your clinic (Select All That Apply):	
Educate patients about managing their own care (Q17c)	
Advanced practice providers	0.25
Nurses	0.25
Other clinical staff	0.25
Non-clinical staff	0.25
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tasks as pa Coordinate	cate which members of your staff routinely perform the following art of their regular jobs at your clinic (Select All That Apply): care with providers outside of your clinic (e.g. subspecialty visits) (Q17d)	
	Advanced practice providers	0.25
	Nurses	0.25
	Other clinical staff	0.25
	Non-clinical staff	0.25
	Sum of all items	0-10
Score	Multiply sum of all items by (100/10)	0-100

Domain 4	: Test and Referral Tracking	
Do you cur	rently use any of the following technologies at your clinic:	
electronic a	access to patients' laboratory test results (Q11c)	
	Yes, used routinely	1
	Yes, used occasionally	0.5
	No	0
	How often, if ever, are the following tasks performed at your clinic: provider receives an alert or prompt to provide patients with test results (Q13c)	
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
How often, laboratory	if ever, are the following tasks performed at your clinic: all tests ordered are tracked until results reach clinicians† (Q13d)	
	Usually (75 – 100% of the time)	2
	Often (50 – 74% of the time)	1.5
	Sometimes (25 – 49% of the time)	1
	Rarely (1 – 24% of the time)	0.5
	Never	0
how often of specialist/s	ents are referred to specialists or subspecialists outside your, does each of the following occur: your clinic tracks subspecialist referrals until the consultation report returns to the rovider (Q21c)	
	Usually (75 – 100% of the time)	2
	Often (50 – 74% of the time)	1.5
	Sometimes (25 – 49% of the time)	1
	Rarely (1 – 24% of the time)	0.5
	Never	0
	Sum of all items	0-6
Score	Multiply sum of all items by (100/6)	0-100

Domain 5: Quality Improvement	
Which, if any, of the following performance data are collected and reported	
at your clinic (select all that apply): clinical outcomes (e.g., percent of	
diabetic patients with good glycemic control) † (Q5a)	
At the provider level	1
At the group level	1
Not collected or reported	0
Which, if any, of the following performance data are collected and reported	
at your clinic (select all that apply): surveys of patient satisfaction and	
experiences with care [†] (Q5b)	
At the provider level	1
At the group level	1
Not collected or reported	0
Do your quality improvement activities include the following: setting goals	
based on measurement results (Q2a)	
Yes	0.333
No	0
Don't know	0
Not applicable	0
Do your quality improvement activities include the following: taking action to	_
improve performance of individual physicians (Q2b)	
Yes	0.333
No	0
Don't know	0
Not applicable	0
Do your quality improvement activities include the following: taking action to	
improve performance of the clinic as a whole (Q2d)	
Yes	0.333
No	0
Don't know	0
Not applicable	0
Does your clinic have enough of the following to support Quality	
Improvement (QI) activities: dedicated staff to lead QI activities (Q4a)	
Do not have	0
Yes, but need more	0.5
Yes, and have enough	1
Does your clinic have enough of the following to support Quality	-
Improvement (QI) activities: information systems to provide timely data and	
feedback to staff on QI activities (Q4b)	
Do not have	0
Yes, but need more	0.5
Yes, and have enough	1
Does your clinic have enough of the following to support Quality	
Improvement (QI) activities: financial support for QI activities (Q4c)	
Do not have	0
Yes, but need more	0.5
Yes, and have enough	1

Does your clinic have enough of the following to support Quality		
Improveme	nt (QI) activities: opportunities for staff training in QI (Q4d)	
	Do not have	0
	Yes, but need more	0.5
	Yes, and have enough	1
	clinic have enough of the following to support Quality	
	nt (QI) activities: opportunities for staff recognition for QI	
activities (C	(4e)	
	Do not have	0
	Yes, but need more	0.5
	Yes, and have enough	1
	Sum of all items	0-10
Score	Multiply sum of all items by (100/10)	0-100

Domain 6: Outside Coordination	
How difficult is it for your providers to do each of the following for patients	
with different types of coverage at your clinic: obtain timely appointments for	
office visits with specialists or subspecialists outside your clinic for	
uninsured patients† (20ai)	
Easy	2
Somewhat difficult	1
Very difficult	0
How difficult is it for your providers to do each of the following for patients	
with different types of coverage at your clinic: obtain timely appointments for	
office visits with specialists or subspecialists outside your clinic for Medicare	
patients (Q20aii)	
Easy	1
Somewhat difficult	0.5
Very difficult	0
How difficult is it for your providers to do each of the following for patients	
with different types of coverage at your clinic: obtain timely appointments for	
office visits with specialists or subspecialists outside your clinic for Medicaid	
fee-for-service patients (Q20aiii)	
Easy	1
Somewhat difficult	0.5
Very difficult	0
How difficult is it for your providers to do each of the following for patients	
with different types of coverage at your clinic: obtain timely appointments for	
office visits with specialists or subspecialists outside your clinic for Medicaid	
managed care patients (Q20aiv)	
Easy	1
Somewhat difficult	0.5
Very difficult	0
How difficult is it for your providers to do each of the following for patients	
with different types of coverage at your clinic: obtain timely appointments for	
office visits with specialists or subspecialists outside your clinic for other	
privately insured patients (Q20av)	
Easy	1
Somewhat difficult	0.5
Very difficult	0
When patients are referred to specialists or subspecialists outside your	
clinic, how often does each of the following occur: The referring provider	
receives a report back from the specialist/subspecialist about care given to	
the patient (Q21a)	4
Usually (75 – 100% of the time)	1
Often (50 – 74% of the time)	0.75
Sometimes (25 – 49% of the time)	0.5
Rarely (1 – 24% of the time)	0.25
Never	0

	nts are referred to specialists or subspecialists outside your	
	often does each of the following occur: the report from the	
specialist/s	ubspecialist is received by the clinic within 30 days (Q21b)	_
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
admitted, if how often o	a patient is admitted to the hospital or emergency department does the following happen: hospital notifies your clinic that a	
patient nas	been admitted (Q22a)	4
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
-	Never	0
admitted, if how often o	oout the hospital to which your patients are most commonly a patient is admitted to the hospital or emergency department loes the following happen: emergency department notifies your patient has had an Emergency Room visit (Q22b)	
	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.5
	Rarely (1 – 24% of the time)	0.25
	Never	0
admitted, if how often o	out the hospital to which your patients are most commonly a patient is admitted to the hospital or emergency department loes the following happen: your clinic receives a discharge report from the hospital to which your patients are usually	
admitted (G	Usually (75 – 100% of the time)	1
	Often (50 – 74% of the time)	0.75
	Sometimes (25 – 49% of the time)	0.75
	Rarely (1 – 24% of the time)	0.25
	Never	0.23
	at your clinic receive a discharge summary or report from the w long does it usually take to arrive (Q23)	
	Less than 48 hrs	1
	2 – 4 days	0.75
	5 – 15 days	0.5
	15 – 30 days	0.25
	More than 30 days	0
	Sum of all itams	0.40
Coors	Sum of all items	0-12
Score	Multiply sum of all items by (100/12)	0-100
Total Score	Average of all domains scores (Add up domain scores, divide by 6)	0-100
		•

Notes:

* A clinic's data was included in a domain score if the clinic responded to more than 50% of the items in the domain and at least 50% of the very important items in that domain. In addition, to be included in the total PCMH score, clinics had to have more than 50% of items answered for all domains and at least 50% of very important items present for all domains. For surveys that had missing items but had fewer than 50% missing items in a domain (intervention sample n=8, national n=267), we imputed the missing values based on the average score of the rest of the domain items. Sixty-one (94%) intervention clinics had total scores calculated, while 739 (93%) national surveys had total scores calculated.

§If the number of patients with limited English proficiency is < 20%, points are allocated 1, 0.75, 0.5, 0.25, and 0 for responses 75 – 100% of the time, 50 – 74% of the time, 25 – 49% of the time, 1 – 24% of the time, and Never, respectively.

If answers to question 20aiii or 20aiv are missing, then double the score of the question that was answered. For example, if the answer to 20aiii is missing, then double the score of 20aiv and multiply the sum of domain six items by 100/12. If both 20aiii and 20aiv are missing, then multiply the sum of domain six by 100/10.

[†] Very important questions

[‡] Allot points for whichever question (Q26a-d) has highest score.