



The Office of the National Coordinator for
Health Information Technology

Electronic Health Record (EHR) Demonstration Scenario, Evaluation, and Vendor Questions

Toolkit

DESCRIPTION & INSTRUCTIONS

This toolkit is intended to aid providers and health IT implementers when selecting or upgrading to a certified EHR vendor to understand the vendor capabilities through established scenarios.

To use this toolkit, provide the vendor with the patient information pre-populated and use the same information for each vendor for comparison purposes. Use the evaluation matrix in Section 5 to evaluate the vendors. Additionally, Section 1 provides a list of questions to ask the vendor during your vendor selection process.

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1 Questions for EHR Vendors

The questions below address important baseline information that is important to ask early in the vendor selection process, and others may be more appropriate to ask when choosing between two or three vendors.

- Vendor Name: [Click here to enter text.](#)
- Date of Meeting: [Click here to enter a date.](#)
- Name of Sales Contact: [Click here to enter text.](#)

1.1 QUESTIONS ABOUT THE COMPANY

1. How long has your company been in business? How many employees do you have?
[Click here to enter text.](#)
2. Of those employees, how many are dedicated to research of new products, sales, and ongoing support? What is the research and development budget?
[Click here to enter text.](#)
3. How long has the EHR product been offered? Was it bought from another company? Was the Practice Management System (PMS) bought from another company?
[Click here to enter text.](#)
4. What were your total sales last year? Last quarter? How many salespeople and trainers are assigned to this region?
[Click here to enter text.](#)
5. What is your total customer base? Of those, how many are new within the last year?
[Click here to enter text.](#)
6. Does the company hold regular user meetings?
[Click here to enter text.](#)
7. Is your company involved now in any litigation with a customer? Has your company been fired from a job in the past 3 years?
[Click here to enter text.](#)

1.2 QUESTIONS ABOUT THE PRODUCT

1. Is your software sold modularly or does it need to be purchased as a complete package? What functions are available? Can you add functionality as the need grows?
 - Practice Management
 - Inter-office messaging
 - E-prescribing
 - Lab viewing/reporting/graphing
 - Other:
[Click here to enter text.](#)
2. What operating platform does the product work on?
[Click here to enter text.](#)
3. Is the product used anywhere in a multisite implementation?
[Click here to enter text.](#)

4. Will your company guarantee in the contract that the software will comply with all current and future Federal and State mandates? Health Insurance Portability and Accountability Act (HIPAA)? Does the software have a Health Level 7 lab interface?
[Click here to enter text.](#)

1.3 PRICING QUESTIONS:

1. How are the licenses issued? Concurrent user versus per practitioner?
[Click here to enter text.](#)
2. What is the cost per practitioner (or concurrent user), for the entire package?
[Click here to enter text.](#)
3. What does the price include?
 - Software
 - Hardware
 - Training
 - Maintenance
 - Upgrades/further training/maintenance
 - Travel for your employees
 - Other
4. How much will ongoing maintenance and upgrades cost?
[Click here to enter text.](#)

1.4 INTERFACE QUESTIONS

1. Can your software interface with a PMS? Lab systems? Is there an added cost for these interfaces?
[Click here to enter text.](#)
2. What existing interfaces are up and running?
[Click here to enter text.](#)
3. Can I speak with a provider or administrator of a clinic presently using these interfaces?
[Click here to enter text.](#)

1.5 IMPLEMENTATION QUESTIONS

1. Will your company assume all aspects of implementation (i.e., hardware and software)?
[Click here to enter text.](#)
2. Does the training occur onsite or at your facilities? Is this training included in the overall cost?
[Click here to enter text.](#)
3. Are you willing to be flexible with your training methods (e.g., individual versus group training based on our needs)?
[Click here to enter text.](#)
4. Is your software tailored for physician specialties (e.g., OB/GYN)? What sort of customization, if any, is needed for specialties?
[Click here to enter text.](#)
5. Describe the process of transition to EHR. What are some of the difficulties? What can I expect?
[Click here to enter text.](#)
6. (If interested in voice recognition) Describe how your voice-activated system works. How easy or difficult is the transition? Will I need to have an “auditor” for some time after I move to voice-activated notes?
[Click here to enter text.](#)

7. At what point in the process does the salesperson transition to implementation specialist?
[Click here to enter text.](#)
8. How often will a support person(s) be available once the system goes “live,” in case of any system difficulties?
[Click here to enter text.](#)

1.6 ONGOING SUPPORT QUESTIONS

1. What is the frequency and depth of upgrades?
[Click here to enter text.](#)
2. What is your process for enhancement requests?
[Click here to enter text.](#)
3. What happens if the system fails? How do I reach you, and how accessible is your decision support?
[Click here to enter text.](#)

1.7 TECHNICAL/MAINTENANCE QUESTIONS

1. What personnel and qualifications do I need to support and operate this system?
[Click here to enter text.](#)
2. Does your system include any database reporting tools or special links to popular reporting products that run under Windows? Which ones?
[Click here to enter text.](#)
3. Does this system work over the Internet or do I need to purchase a server?
[Click here to enter text.](#)
4. Does the system require regularly scheduled (e.g., daily, monthly) downtime for backups, system maintenance, etc.? Briefly explain.
[Click here to enter text.](#)
5. What safeguards (e.g., fault tolerance, hardware redundancy) are included to eliminate unplanned downtime?
[Click here to enter text.](#)
6. What are your data retention capabilities, if any, and recommendations for maintaining history online?
[Click here to enter text.](#)

2 Tips on Scheduling Vendor Demonstrations

The focus of the system selection phase for EHR implementation should be vendor demonstrations. Vendor demos provide the chance to see the look and functionality of an EHR application. The purpose of the demo is to get an overview of the application and to ask the vendor questions.

Once you have an idea of your practice, select about 5–10 different vendors for the demos. In selecting vendors for the demos, focus on EHR applications that meet the needs of your practice. Talk to other practices in the area similar to yours to find out what EHRs they use and to check the software provider's credentials and certificates.

Once you have an idea of what your practice needs are, select about 5-10 different vendors for the demos. In selecting vendors for the demos focus on EHR applications that meet the needs of your practice. Talk to other practices in the area similar to yours to find out what EHRs they use and check the software provider's credentials and certificates.

This document provides helpful hints on planning and attending EHR application demonstrations.

1. **A good number of demos to request is somewhere between 5 and 10 different vendors.**
With fewer than five, you probably will not see enough vendors to get a feel for the functionality that exists in the market. With more than 10, you will probably lose track of the subtle differences among vendors.
We recommend attending the demos of 5 to 10 vendors, and if you still do not have a good feeling about any of the products, select another group of 5 to 10 and repeat the process. Attending demos can be a tedious process. Pace yourself, and try not to see all of the demos in the same week.
2. When the vendor contacts you to set up the demo, **be clear about which products you would like to see**—EHR or EHR and PMS.
3. **The vendor will offer either an onsite demo or a Web-based demo.**
For an onsite demo, you will usually need an Internet connection and a screen or some way for the vendor to present the demo. Be sure to ask the vendor what equipment is needed for the demo.
For a Web-based demo, you will need a telephone with speakerphone, a computer that is connected to the Internet, and a screen or some way for everyone to view the demo.
4. Practices vary on which staff members are invited to the vendor demos. At a minimum, the **physician champion and practice manager should attend.** Ideally, the entire implementation team would be invited to attend the demo. It is important to engage practicing physicians, nurses, and care team members in the demo and implementation process.
5. The demo should last approximately 1–1.5 hours for the EHR portion. Allow more time for a demo of the EHR and the PMS together. Come prepared with a list of questions for the vendor (see Section 1 for model questions).
 - Ask each vendor the same questions to get a feel for how different EHRs compare.
 - Come prepared with some clinical scenarios or specific workflows for the vendor to “walk through.” The scenarios will give you a chance to see the EHR in action.
 - Ask the vendor to show how certain reporting tasks would be possible. For example, how does the application report on patients with a particular disease, medication, or lab result?
 - Ask questions with multiple search parameters; for example, how does the application report on patients with diabetes who, within the past year, have had a HgbA1c > 9.0 percent?
6. During the demo, **try not to interrupt the vendor with questions too often.** It is sometimes hard not to ask everything that comes to mind, but the vendor will need to pace the demo within the allocated time so you can view all the information. Write down your questions throughout the demo and make sure you ask all your questions, but you may want to see a particular function all the way through and then ask questions at the end.
7. After seeing all the vendor demos and narrowing your choices down to the serious contenders, **request references from each of the vendors.** These references will be other customers who use the EHR product and can communicate their experiences. Your implementation team can schedule phone call interviews with these references to get an idea of their experiences.
8. After the product demos and reference phone calls, you will be able to further narrow your list of EHR vendors. Experts **say to enter contract negotiations with at least two vendors** to provide the necessary leverage to get the best deal. For these remaining few vendors, request references from these vendors for practices that you can visit onsite. These may or may not be the same references called previously for telephone interviews.

3 Scenario to Provide the Vendor

The information in Exhibit 1 is a sample scenario that can be provided to the vendor to pre-populate prior to the demonstration.

The purpose of this demonstration is to get a good idea of the workflow capabilities and efficiency of the program to meet your practice needs. It is important to ask the vendor to highlight how their product will assist with ease of documentation, generating actionable reports, and the tracking quality measurement. This will also be helpful for quality improvement programs such as Meaningful Use and the Physician Quality Reporting System. Additional key capabilities to discuss and demo include patient engagement functionality, population health management tools, care management, and care coordination functionality, as well as tools to fit your practice, specialty, and patient population specific needs. Key additional questions to ask are in Exhibit 4.

Exhibit 1 Scenario to Provide Vendor¹

Item	Scenario
Patient	<ul style="list-style-type: none"> • Daisy Duck, DOB 1/4/40 • Married, mother of 3, retired • HIPAA form signed 5/1/06
Problems	<ul style="list-style-type: none"> • Hypertension • Diabetes Type II • Esophageal Reflux
Medications	<ul style="list-style-type: none"> • HTCZ 12.5 mg qid • Lopressor 100 mg bid • Prevacid 30mg hs • Metformin 500mg bid
Allergies	<ul style="list-style-type: none"> • Penicillin>urticaria
PMH/PSH/FH/Soc.Hx.	<ul style="list-style-type: none"> • Diabetes • Hypertension • GERD
Other	<ul style="list-style-type: none"> • Three normal, spontaneous vaginal deliveries • Hospitalized once for Pneumonia in 1998 • Nonsmoker • Last Tetanus 1998 • Influenza vaccine 10/04 • Pneumovax 1999 • Mammography 1999

¹ Information included in this scenario may appear to contain personally identifiable data; however, these data are representational only. No personally identifiable information (PII) or protected health information (PHI) is contained herein.

4 Information to Be Entered During Demonstration

Do not provide this information to the vendor prior to the demonstration. Have them enter it during the demonstration to see how the system handles it.

Exhibit 2 Information to Be Entered During Demonstration²

Item	Scenario
Complaint	<ul style="list-style-type: none"> Follow-up care to patient for diabetes, hypertension, and reflux. Patient states FBS elevated at home.
PE	<ul style="list-style-type: none"> Weight: 180; Height: 5'9" BP: 180/95, repeat 130/78 P: 89 R: 28 regular unlabored T: 97.6 F General: no distress noted HEENT: nasal congestion Lungs: clear to auscultation Abd: soft on palpation, nontender Neuro: alert, orientated x3 Foot exam: (visual) normal
Lab	<ul style="list-style-type: none"> Accucheck in office 220 Urine for microalbumin: negative Previous lab (> 6 mos ago) HgbA1c: 8 Lipid Profile (fasting) HgbA1c Referral to Dr. Mickey Mouse for dilated eye exam Referral to Dr. Olive Oil for Pap smear
Assessment	<ul style="list-style-type: none"> Hypertension, controlled Diabetes Type II GERD Pt to call back in 1 month if no improvement in FBS Diabetic teaching reinforced in regards to diet and home monitoring of blood sugars Patient Instructions provided Health Summary provided F/U in 3 months
Plan	<ul style="list-style-type: none"> Rx <ul style="list-style-type: none"> HCTZ 12.5 mg qd x 6 months Lopressor 100mg bid x 6 months Prevacid 30mg q HS x 6 months Discontinue: Metformin 500mg bid x 3 months Add: Actos 10mg daily

² Information included in this scenario may appear to contain personally identifiable data; however, these data are representational only. No PII or PHI is contained herein.

5 Evaluating the Scenario

Use the evaluation matrix to evaluate how each vendor does with the scenario.

Vendors should be able to walk through these scenarios once they have entered the background data provided. Allot time for the vendor to demonstrate other features of interest after the scenario is completed.

Instructions: Note difficulties in performing the documentation tasks, and score the ease of each task from 1 (very difficult or time-consuming) to 5 (easy and quick). Make sure to pay attention to the number of mouse clicks and screen changes it takes to complete one task and check for visibility of key information and the intuitiveness of the user interface.

Exhibit 3 Scenario Evaluation³

Duty	Task	Notes	Score (1–5)
Receptionist	Patient calls in to schedule a follow-up appointment for diabetes, HTN, GERD.	<ul style="list-style-type: none"> • Scheduling of patient. • Documentation of visit reason. • Health maintenance prompts. • Ability to auto-confirm appointments. • Prompts to remind patient to fast due to fasting blood sugar. 	Click here to enter text.
Receptionist	Patient comes in for appointment.	<ul style="list-style-type: none"> • Insurance information entered/Insurance card scanned. • Signed HIPAA release. • Eligibility checked electronically. • Health history gathered? • Patient checked in/Alert to MA that patient is in waiting room. 	Click here to enter text.
MA	MA sees alert and rooms the patient.	<ul style="list-style-type: none"> • Patient identified. • Patient visit status updated. • Patient's chart pulled up. 	Click here to enter text.
MA	MA reviews visit reason and patient's chart.	<ul style="list-style-type: none"> • Patient's chart. • Easily identify visit reason. • Preventive care prompts and action. 	Click here to enter text.

³ Information included in this scenario may appear to contain personally identifiable data; however, these data are representational only. No PII or PHI is contained herein.

Duty	Task	Notes	Score (1–5)
MA	MA documents chief complaints: Diabetes, HTN, GERD.	<ul style="list-style-type: none"> Multiple chief complaints. Entered in a note template or in MA view. 	Click here to enter text.
MA	<p>MA Documents:</p> <ul style="list-style-type: none"> Weight: 180 Height: 5'9" BP: 180/95 Pulse: 89 Temp: 97.6F <p>MA Reviews:</p> <ul style="list-style-type: none"> Allergies: Penicillin>urticarial. Medication List: HCTZ 12.5mg.qid, Lopressor 100mg bid, Prevacid 30mg. hs: Metformin 500mg bid. 	<ul style="list-style-type: none"> BP: lying, sitting, standing (Prompts for out of range). Pulse: oral, radial, pedal, femoral. Temperature: Fahrenheit, Celsius. Height: feet/inches, centimeters. Calculates and displays BMI. Allergy documentation: food, drug, environment. How are medications updated? 	Click here to enter text.
MA	<p>MA Reviews:</p> <ul style="list-style-type: none"> PMH: Diabetes, Type II, Hypertension, GERD. Surg/Hosp Hx: hospitalized pneumonia 1998. Family Hx: mother L & W, father dec. CHF. 3 children normal vag. deliveries. Social Hx: nonsmoker, retired. Immunizations: Tetanus 98, flu 10/04, Pneumovax 99. Advanced Directive: signed 1/3/02. Preventative Care: mammogram 99. <p>MA completes entry.</p>	<ul style="list-style-type: none"> Content specific to each Hx item. Ease of documenting year and relationship to patient. PQRI prompt for smoking status. 	Click here to enter text.
Physician	Physician is prompted that patient is ready.	<ul style="list-style-type: none"> Physician prompt easily identified. Identify correct patients chart. Patient's chart/medical Hx easily accessible. 	Click here to enter text.
Physician	Physician looks at CC, PMH, and past visit.	<ul style="list-style-type: none"> Chief complaint entered by MA visible/can it be edited. Option to default PMH into note. Ease of viewing past visit. Alerts reminders when a note is opened. 	Click here to enter text.

Duty	Task	Notes	Score (1-5)	
Physician	Physician opens new note and documents HPI.	Follow-up diabetes, hypertension, GERD. Patient states experiencing elevated fasting blood sugar at home.	Click here to enter text.	Click here to enter text.
Physician	Physician reviews/updates PMH/PSH/FH/Med. list/Soc. Hx/Allergies/Immunizations.	Diabetes Type II, Hypertension, GERD	Click here to enter text.	Click here to enter text.
		Meds: HTCZ 12.5mg qid, Lopressor 100mg bid, Prevacid 30mg hs, Metformin 500mg bid.	Click here to enter text.	Click here to enter text.
		Allergies: Penicillin>urticaria.	Click here to enter text.	Click here to enter text.
		Three normal, spontaneous vaginal deliveries.	Click here to enter text.	Click here to enter text.
		Hospitalized once for Pneumonia in 1998.	Click here to enter text.	Click here to enter text.
		Nonsmoker.	Click here to enter text.	Click here to enter text.
		Last Tetanus 1998.	Click here to enter text.	Click here to enter text.
		Influenza vaccine 10/04.	Click here to enter text.	Click here to enter text.

Duty	Task	Notes	Score (1–5)
	Pneumovax 1999.	Click here to enter text.	Click here to enter text.
	Mammography 1999.	Click here to enter text.	Click here to enter text.
Physician	Physician documents the physical exam.	Resp. 28 regular and unlabored.	Click here to enter text.
		Repeat B/P: 130/78.	Click here to enter text.
		General: no distress noted.	Click here to enter text.
		HEENT: nasal congestion.	Click here to enter text.
		Lungs: clear to auscultation.	Click here to enter text.
		Abd: soft on palpation, nontender.	Click here to enter text.
		Neuro: Alert, oriented x3.	Click here to enter text.

Duty	Task	Notes	Score (1–5)
	Foot exam: (visual) normal.	Click here to enter text.	Click here to enter text.
Physician	Physician documents lab	Accucheck in office 220.	Click here to enter text.
		Urine for microalbumin: negative.	Click here to enter text.
		Previous lab (>6 mos ago). HgbA1c: 8.	Click here to enter text.
Physician	Physician documents assessment	Viral URI.	Click here to enter text.
		Hypertension, controlled.	Click here to enter text.
		Diabetes Type II.	Click here to enter text.
		GERD.	Click here to enter text.
Physician	Physician documents plan	Rx: HCTZ 12.5mg qd x 6 months, Lopressor 100mg bid x 6 months, Prevacid 30mg q HS x 6 months, Discontinue: Metformin 500mg Add: Actos 10mg daily	Click here to enter text.

Duty	Task		Notes	Score (1-5)
		Lipid Profile (fasting), HgbA1c, Referral to Dr. Mickey Mouse for dilated eye exam. Referral to Dr. Olive Oil for Pap smear.	Click here to enter text.	Click here to enter text.
		Patient to call back in 30 days if no improvement in fasting blood sugar. Routine follow-up in 3 mo.	Click here to enter text.	Click here to enter text.
Physician	Physician chooses charge level		<ul style="list-style-type: none"> • Current diagnosis and procedure codes built-in. • E&M coding advice to providers based on documentation. • Data validation procedure to diagnosis, procedure/diagnosis to patient age and gender. • Billing/coding interface. 	Click here to enter text.
Physician	Physician completes and signs note		<ul style="list-style-type: none"> • Prompts unfinished patient chart documentation. • Spellchecking. • Provider alerts for missing charting elements. • Records locked after signature. • Ability to make amendment to record. • Option to put note on hold. 	Click here to enter text.
Biller	Billing		<ul style="list-style-type: none"> • Invoice creation. • Claim scrubbing. • Electronically submit claim. • Payments received distributed with adjustments. • Electronic remittance advice. • Collections. 	Click here to enter text.

Exhibit 4 Additional Questions

Questions	Answers	Score (1–5)
Can you submit insurance claims electronically?	Click here to enter text.	Click here to enter text.
Can you provide patient health status on request?	Click here to enter text.	Click here to enter text.
Can you provide clinical summaries per visit?	Click here to enter text.	Click here to enter text.
How do you provide care summaries for referrals?	Click here to enter text.	Click here to enter text.
Can you provide data exchange with immunization registries?	Click here to enter text.	Click here to enter text.
Can you provide surveillance data to public agencies?	Click here to enter text.	Click here to enter text.
Can you report quality measures to the Centers for Medicare & Medicaid Services?	Click here to enter text.	Click here to enter text.
Do you have a relationship with any health information exchanges?	Click here to enter text.	Click here to enter text.

(Note: See also the Vendor Comparison and Matrix Tool).