

Academy EHR Checklist

Use it to start your conversation with vendors

In the August *Ophthalmology*, the Academy's Medical Information Technology Committee published "Special Requirements for Electronic Health Record Systems in Ophthalmology." The article included a checklist of 23 EHR features—17 of them deemed essential; six desirable—for accommodating the workflow and data management needs of ophthalmology practices.

Following up on that article, the committee contacted EHR vendors¹ to see which of these essential and desirable features their products offer. The checklist and vendor responses appear on the next pages. Because not all vendors were able to respond to the request for information in time for this publication, a more extensive list of EHR vendors² is on the back page so that you can speak with them directly.

When you visit these vendors in the exhibit hall, ask for a demonstration of the features on the checklist that you consider the most valuable to your practice. In addition to checking into these ophthalmology-specific features, remember to confirm that the product has been HIT certified as having the more general features that you would need in order to qualify for the federal "meaningful use" incentive payment.

This spreadsheet is meant to be used as only one information-gathering tool in the EHR search. Be sure to visit www.aao.org/ehr for step-by-step advice about selecting and implementing an EHR system. Several key steps among the many you will find on "EHR Central" are:

- defining your goals,
- evaluating your needs (the checklist will be helpful for this),
- developing a timeline and
- negotiating a contract.

The spreadsheet information on the next pages is current as of Sept. 30, 2011. Note that a product that does not include all the checklist features at this time may include them in the future. Be sure to ask vendors about their plans for upgrades, and check back quarterly at www.aao.org/mit for updates to the vendor checklist.

We hope this information is helpful and that your time in the exhibit hall is productive!

1 Vendors who purchased booth space in the exhibit hall as of Aug. 15, 2011.

2 Vendors who selected "EMR" as a product category for their listing as of Sept. 30, 2011.

NOTE: All information and claims are those of the manufacturers and have not been verified, nor does the appearance of the product constitute an endorsement of the company or product by the American Academy of Ophthalmology, the American Academy of Ophthalmic Executives or EyeNet Magazine.

AT THE MEETING

Sunday's Special Meeting. Five members of the Medical Information Technology Committee will present "**Making Electronic Health Records Meaningful: Special Requirements and Case Studies in Ophthalmology Implementation**" (event code "Spe49").

Learn what to look for when selecting an EHR system, and hear individuals describe their implementation experience, with an emphasis on the benefits of EHR adoption and ease of use. *Sunday, 12:45 to 1:45 p.m., in Room W314a. Admission is free.*

EHR Courses in Orlando. Check the online program at www.aao.org/2011.

The Electronic Office—IHE Eye Care Showcase (Booth 3345). See how the electronic office enhances efficiency and quality of care.

Technology Pavilion (Booth 3379). Four presentations about EHRs will take place in the Technology Pavilion. See page 129 of the *Pocket Guide* for a schedule of events.

ARTICLES

August *Ophthalmology* article. "Special Requirements for Electronic Health Record Systems in Ophthalmology." Chiang, M. F. et al. *Ophthalmology* 2011;118:1681–1687. Downloadable from www.aao.org/one. Reprinted in the Friday/Saturday *Academy News*, pages 19–22.

EyeNet Extra "EHR Essentials: Move Your Practice Forward." This 16-page supplement serves as a guide to augment the *CMS Attestation User Guide*. Downloadable from www.eyenetmagazine.org.

EyeNet October article "EHRs in Ophthalmology: Our Specialty's Differences." October's *EyeNet* is in your registration bag. Also available at www.eyenetmagazine.org.

ONLINE

EHR Central. This AAOE website takes you through the EHR selection and implementation process at www.aao.org/ehr.

EHRs in Ophthalmology. Pick up EHR tips in this Academy Online Community group at bit.ly/gKGcHn.

The Academy's Medical Information Technology site. Get information on EHRs, interoperability, e-prescribing and more at www.aao.org/mit.

IHE Eye Care. Learn about the importance of interoperability at www.iheeyecare.org.

SPECIAL REQUIREMENTS FOR ELECTRONIC HEALTH RECORD (EHR) SYSTEMS IN OPHTHALMOLOGY

FUNCTION	ESSENTIAL (E) DESIRABLE (D)	Compulink (V 10)	Eyefinity (V 10.5)	EyeMD EMR (V 1.1.1.1)	First Insight (V 1.1.0.0)	iMedicWare (V 4.15)
CLINICAL DOCUMENTATION						
Enable entry and storage of all ophthalmology-specific data required to support Academy <i>Preferred Practice Patterns</i>	E	Y	Y	Y	Y	Y
Organize ophthalmology-specific elements separately (e.g., past ocular history, ocular medications)	E	Y	Y	Y	Y	Y
Conform or map to vendor-neutral standard terminologies (e.g., SNOMED CT, ICD) to represent problem lists	E	Y	Y	Y	Y	Y
Conform or map to RxNorm to represent medications	E	Y	P (2012)	Y	Y	Y
Conform or map to vendor-neutral standard terminologies (e.g., SNOMED CT) to represent:						
• Diagnoses and procedures	E	Y	Y	Y	Y	Y
• Allergies and clinical findings	D	Y	P (2012)	Y	Y	Y
Enable physicians and technicians to keep multiple records open simultaneously and securely in different rooms, with easy reauthentication	E	Y	Y	Y	P (2012)	Y
Provide tools for incorporating color drawing, including ocular templates	E	Y	Y	Y	Y	Y
Analyze clinical workflow before and after EHR implementation	E	Y	Y	Y	Y	Y
Exchange full set of ophthalmic clinical data with EHRs from other vendors	D	Y	Y	Y	P (2012)	Y
Link clinical documentation to billing and charge capture and integrate with practice management	D	Y	Y	Y	Y	Y
Allow physician to review patient information easily before entering room	D	Y	Y	Y	Y	Y
OPHTHALMIC VITAL SIGNS AND LABORATORY STUDIES						
Record visual acuity and refractive discrete elements in accordance with DICOM Supplement 130	E	Y	P (2012)	Y	Y	Y
Record IOP as a discrete data element	E	Y	Y	Y	Y	Y
Display and graph visual acuity and IOP over time	E	Y	IOP not VA	Y	Y	Y
MEDICAL AND SURGICAL MANAGEMENT						
Electronically associate all preoperative, operative and postoperative documents	E	Y	Y	Y	Y	Y
Support documentation of office-based and operating room procedures	E	Y	Y	Y	Y	Y
Allow physician to generate operative report at time of surgery	D	Y	N	Y	Y	Y
OPHTHALMIC MEASUREMENT AND IMAGING DEVICES						
Conform to vendor-neutral standards (e.g., DICOM) for receipt and representation of data from all ophthalmic instruments and devices	E	Y	P (2012)	Y	P (2012)	Y
Conform to vendor-neutral standards and profiles for ordering ophthalmic imaging and measurement studies (e.g., DICOM Modality Worklist and IHE Eye Care Workflow)	E	Y	P (2012)	P (2012)	P (2012)	Y
Document completion and interpretation of ophthalmic imaging and measurement studies	E	Y	Y	Y	Y	Y
Request, retrieve, display and communicate all imaging and measurement data generated by ophthalmic instruments in a standard vendor-neutral format (e.g., DICOM)	E	Y	P (2012)	P (2012)	P (2012)	Y
Manage all ophthalmic imaging data in vendor-neutral format (e.g., DICOM) or provide tight integration with external PACS in vendor-neutral format	D	Y	P (2012)	P (2012)	N	Y

Items are classified either as “Essential” (**E**) for current systems or as “Desirable” (**D**) for current systems and essential for future systems.
Y = Yes, our current product version includes this.

N = No, we do not include this feature in current products and have no immediate plan to include.
P = We plan to include this feature in the future (year).

Integrity Digital (V 10.5)	IO Practiceware (V 7.0)	Key Medical (V 4.0)	MDOffice (V 8.10)	Medflow (V 7.6.2)	NextGen (V 5.7)	OIS/Merge Healthcare (V 4.1.7)	Penn Medical (V 9.7)	SRSsoft (V 8)	VersaSuite (V 8.0)
Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y P (2012)	Y Y	Y N	Y P (2012)	Y Y	Y P (2012)	Y Y	Y Y	Y Y	Y Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	P (2012)	Y	Y	Y	Y*	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	P (2012)	P (2012)	Y	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
P (2012)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y	N	Y
P (2011)	Y	Y	Y	Y	Y	Y	Y	N	Y
P (2011)	Y	Y	P (2012)	Y	Y	Y	Y	Y	Y
Y	Y	Y	Y	Y	Y	Y*	Y*	Y	Y
P (2011)	Y	Y	P (2012)	Y	Y	Y	Y*	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y*	Y	Y
P (2012)	Y	Y	Y	Y	Y	Y	Y*	Y	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

* OIS/Merge and Penn Medical indicate that add-on modules or programs are needed to satisfy the requirements. Note that products in this spreadsheet are HIT certified.

VENDORS AT A GLANCE

PRODUCT	COMPANY & WEBSITE	IHE STATEMENT PROVIDED TO AAO	HIT CERTIFIED	BOOTH
Allscripts Enterprise EHR	Allscripts : www.allscripts.com	No	Yes	875
MyWinmed EHR	Complete Medical Solutions : www.doctornetwork.com	No	Yes	1912
Advantage/EHR	Compulink Business Systems : www.compulinkadvantage.com	Yes	Yes	1201
Doctorsoft EMR	Doctorsoft : www.doctorsoft.com	No	No	3434
ExamWriter	Eyefinity : www.eyefinity.com	No	Yes	1283
EyeMD EMR	EyeMD EMR Healthcare Systems : www.eyemdemr.com	Yes	Yes	3075
MaximEyes SQL EHR	First Insight : www.first-insight.com	No	Yes	245
SuiteMed's IMS	Fox Meadows Software (distributor) : www.foxmeadows.com	No	Yes	775
Multi-Specialty EyeMD	Health Care Intranet Technologies : www.hcit-emr.com/company.html	No	No	2909
ifa EMR	ifa united i-tech : www.ifa-united-i-tech.com	Yes	Yes	3021
iDoc	iMedicWare : www.imedicware.com	No	Yes	2577
My Vision Express	Insight Software : www.myvisionexpress.com	No	Yes	2477
Integrity EMR for Eyes	Integrity Digital Solutions : www.integrityemr.com	No	Yes	3269
Patient Manager	Intuitive Database Solutions : www.patientmanager.com	No	No	3339
IO Practiceware	IO Practiceware : www.iopracticeware.com	No	Yes	3439
Drs Enterprise	Keiser Computers : www.drdoc.com	No	Yes	3213
KeyChart	KeyMedical Software : www.keymedicalsoftware.com	No	Yes	900
EMRlogic's ActivEHR	Kowa Optimed (distributor) : www.kowascope.com	No	Yes	1646
ManagementPlus EHR	ManagementPlus : www.managementplus.com	Yes	Yes	2401
IntelleChart	MDIntelleSys : www.mdintellesys.com	No	No	3427
MDoffice	MDoffice : www.mdoffice.com	Yes	Yes	3228
Medflow EHR	Medflow : www.medflow.com	Yes	Yes	975
MedInformatix EHR	MedInformatix : www.medinformatix.com	No	Yes	2226
EMA	Modernizing Medicine : www.modernizingmedicine.com	No	No	2183
NexTech Practice 2011	NexTech Systems : www.nextech.com	No	Yes	3358
NextGen Ambulatory EHR	NextGen Healthcare : www.nextgen.com	No	Yes	3047
OIS EMR	OIS/Merge Healthcare : www.oisi.com	No	Yes	2444
EyeDoc EMR	Penn Medical Informatics Systems : www.pennmedical.com	No	Yes	2871
Practice Authority	Practice Authority : www.practiceauthority.com	No	No	3341
QuickView Medical Records	QuickView Medical Records : www.quickviewmedical.com	No	No	3413
SRS EHR	SRSsoft : www.srssoft.com	No	Yes	121
VersaSuite-eHR	VersaSuite : www.versasuite.com	Yes	Yes	3248
GE Healthcare's Centricity	Virtual Officeware (reseller) : www.virtualofficeware.net	No	Yes	1878
EMRlogic's ActivEHR	Walman Instrument (distributor) : www.walmaninstruments.com	No	Yes	1913

Information is current as of Sept. 30, 2011.

Companies: This chart lists vendors who offer complete EHR systems and are exhibiting at the Annual Meeting.

IHE: The information in this category notes whether the company has provided the Academy with an IHE Eye Care Integration statement. Physicians/offices should review

the statement to make sure that their needs for interoperability are addressed.

HIT: This refers to whether a product is certified by the Office of the National Coordinator for Health IT. Physicians/offices should check the Certified HIT Product List to make sure that they have the correct, certified version of a company's EHR product.

(Owners of earlier versions may need to upgrade to the version that is certified for meaningful use.) Note that some vendors are in the process of working toward HIT certification. For the most current information about certification status, go to <http://onc-chpl.force.com/ehrcert/chplhome>.