Comparison of EMRs in Use in Ontario Public Health Units

Created: August 2015

	Intrahealth Public health unit: Niagara	Excelicare Public health unit: Wellington Dufferin Guelph	OSCAR Public health unit: Kingston	Nightingale Public health unit: Waterloo	PS Suite Public health unit: North Bay	QHR Accuro Public health unit: Northwestern
Overview of EMR (programs in use, # of users, # on implementation team, # on ongoing maintenance team, # champions) [clarify if this includes all staff or just public health]	BackgroundStarted in sexualhealth in May2012.Programs in useSexual healthclinics, secondaryschool team,dental clinic, travelimmunizationclinic. May beexpanding to childhealth.UsersApprox. 70 users.	Background Implementation occurred over 5 years. Started with sexual health. Program in use For clinical documentation: sexual health and clinical services, control of infectious diseases (also use iPHIS), travel clinic, school health (also use Panorama), chronic diseases,	Background Oscar was implemented in June of 2013. Programs in use Smoking cessation (3 users), breastfeeding (5 users), travel clinic (closed now – had 3 users). Sexual health implementation in progress (8 users). Users 16 users	Background Issued RFP in 2005. EMR implementation in 2006. Programs in use Sexual health, TB skin test clinic, active TB clinic, vaccine preventable diseases (also use Panorama), dental health. Functionality in use: scheduling,	BackgroundInvestigationstarted in 2010.Went live in Feb2011.Programs in useSexual healthclinics only. Labscome in by fax.Approx. 20 users.ImplementationTeam consisted of2 super users, 1manager and 1administrator(from IT).	Background Previously used Xwave 2011-15. Switched to Accuro in late June 2015 as Xwave is phasing out. <u>Programs in use</u> Sexual health clinics only. Will not be expanding. <u>Users</u> 32 users (includes support staff, nurses, doctors).
	Implementation Year long process for sexual health, including RFP and customization time. 3 main staff	child and family health kids line (also use ISCIS). For scheduling: dental clinics and speech clinics, as	Implementation Internal team: 6-8 people (2 technical, 2 for testing, few	billing, nursing documentation, case management task follow up, charting. Note: use of	Implemented in sexual health all at once. <u>Maintenance</u> 5 super users. IT	Implementation Implementation to Xwave was difficult as paper was being used.

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(business ar manager, te lead) and 5 users all trai Intrahealth. Similar mod used for oth programs bu less time to implement. <u>Maintenanc</u> One IT perso devoted to I	am continuing education classes. ned by el <u>Users</u> clinic users: 50 Scheduling users: ut took 20-30 people + all 170 staff for internal classes. <u>e</u> <u>Implementation</u> Vendor team: 4	business analysts). <u>Maintenance</u> 1 person for maintenance. Have 1 super user per area.	functionality varies by clinic. <u>Users</u> 100 (includes admin, nurses, hygienists, coordinator). <u>Implementation</u> Project team: lead, coordinator, nursing lead, program admin lead, management (5-10 for one division). <u>Maintenance</u> Champions in each area. Manager, clinical supervisor, and project coordinator have system maintenance as part of their role (decentralized).	coordinates with PS Suite for updates.	Implementation of Accuro involved 5 people (2 of 5 are super users) and IT (4 people). Low maintenance now and Accuro helpdesk is being used. No champions in clinics. Staff were given online training and a practice training environment before implementation. <u>Maintenance</u> Vendor supported. Ongoing IT support provided by Helpdesk.

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		with EMR roadmap.		<u>Next steps</u> Nightingale moving to Nexia/ Nightingale 10. When upgrading, they will expand to other program areas (prenatal nutrition, tobacco cessation, infant & child development, breastfeeding).		
Why did you	Why an EMR?	Why an EMR?	Why an EMR?	Why an EMR?	Why an EMR?	Why an EMR?
choose to get an EMR and	1) Move to	1) Streamline and	1) Paperless	1) Reduce amount	1) Paperless environment	1) Easy to access client information
this EMR in	paperless environment and	improve patient care	environment 2) Appropriate	of paper 2) Improve	2) Efficient	across multiple
particular?	reduce transport	2) Improve info	information	documentation	documentation	sites
	of documents 2) Program	sharing between offices	management. Better access to	and consistency in documentation	3) Easy to access client information	2) Green friendly
	efficiencies	3) Complete view	stats and	3) Have	across multiple	Why this EMR?
		of client's	reporting.	scheduling, billing	sites	Xwave: had
	Why this EMR?	interaction with		documentation in		functionality of
	Has inventory and	public health	Why this EMR?	one spot	Why this EMR?	locking fields that
	point of sale –	4) A desire to	1) Low cost	4) Reporting	Not known as EMR	had been signed
	unique. Intricate data extraction	interface with	2) Open source 3) Flexible – can	capabilities	was not chosen by Sexual Health	so it could not be modified. Other
	and reporting	government	3) Flexible – can customize on our	Why this EMR?		EMRs did not have
	capabilities.	reporting systems	own	In 2005 there	program.	this functionality.

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		Why this EMR? A boxed system for sexual health.	4) Local FHT also uses OSCAR Note: did not explore other EMRs.	were not many EMR vendors on the market. Nightingale was the successful vendor (of three applicants) in the RFP process.		Accuro: Seemed most user friendly. Also it is an ASP model with a safe cloud based system that can't be hacked. Price point was also appealing.
Does it have any unique functionality? (compared to a typical clinic EMR). Did you need to do any customizations? In what (high level)?	<u>Unique</u> <u>functionality</u> 1) Inventory and point of sale capability 2) Intricate data extraction and reporting capability <u>Customizations</u> Customized EMR to meet program needs.	Unique functionality Robust case management and labs results capability. Ability to integrate with other systems. Customizations Forms only.	Unique functionality 1) A community of users who will share solutions they have come up with. 2) Ability for doctor to make notes an image of the human anatomy in the chart. 3) Electronic signature pads for the client for consent. Customizations	Unique functionality None Customizations Built own templates and some custom reports (created by Nightingale) to meet billing and immunization reporting needs.	Unique functionality Unknown <u>Customizations</u> 1) vendor creates customized reports	Unique functionality1) Send notes to other users and others can mark it as reviewed then it can be locked. Assists with communication across a geographically spread health unit. 2) Private lab results come in electronically.Customizations 1) Flow sheets for different types of

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			None			visits 2) Requisitions 3) Resource scheduling
What worked well? Where were the benefits seen? If you had to do it all again, what would you do the same?	Implementation 1) Dedicated program resources 2) IT involvement 3) Staff buy in by listening to their work flow needs 4) Vendor assistance (e.g., creating forms) Benefits of EMR 1) Great functionality 2) Adaptable to your workflow 3) Ability to make changes without vendor cost 4) Great reporting capability 5) Ability to monitor workload of providers and locations	Implementation 1) In person training 2) Having a clinic lead helped for staff training 3) Took some time to understand the system but once this occurred it assisted with identifying user needs Benefits of EMR 1) Ability to access chart offsite 2) One client record 3) Access control to view different areas of the chart 4) Data in one place assists with planning and	Implementation Community of sharing. Benefits of EMR 1) Ability of programs to collaborate 2) Ability to see metrics to make decisions about their programs 3) Believed to have helped with staffing / resource planning	Implementation Adopting a staged approach. Benefits of EMR Nurses supported e-documentation due to: 1) Functionality 2) Consistent documentation practices 3) One file for the client	Implementation Training everyone at same time with dummy clients to slowly learn all the functions <u>Benefits of EMR</u> 1) Ability to access chart offsite 2) Ease of communication between staff via instant messaging 3) Believed to have saved time charting and space for keeping records and to have reduced chance of human error and amount of paper used	Implementation All data migrated from Xwave to Accuro went through a quality assurance process Benefits of EMR 1) Ability to access chart offsite 2) One client record 3) User friendly 4) Ability to customize and share customizations via database 5) Provides different levels of access to different types of users

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	6) Security	reporting				
	features	5) Ability to add new forms				
What didn't	Implementation	Implementation	Implementation	Implementation	Implementation	Implementation
work so well?	1) Recommend to	1) Should have	1) Approach it as a	1) Underestimated	1) Trainers didn't	Train the trainer
Lessons	redeploy and back	had a resource	corporate	time to implement	understand public	model by Xwave
learned? If you	fill core team	with experience in	initiative, with a	as well as	health needs	was stressful.
had to do it all	2) Have an IT	implementation	central strategic	challenges along	2) Vendor did not	Preferred Accuro's
again, what	person specifically	2) Virtual training	vision that has buy	the way	understand	method of having
would you do	dedicated to EMR	didn't work well	in	2) People were	importance of	a trainer on site
differently?	3) Get a good	for older staff	2) With a	not used to e-	customized	for a week to
	understanding of	3) Vendor and	staggered	documentation in	reporting function	provide training
	capabilities of	development	implementation,	2005.	 long timeline 	for staff plus 1:1
	EMR and your	team in different	each program	Would use past		intensive training
	business workflow	time zones	wanted to use it	experience to	Limitations of EMR	for super user.
	to determine how		differently.	design better	1) Time lag for	
	you want to use	Limitations of EMR	Understand	templates	support from	Limitations of EMR
	the system (e.g.,	Currently, lack of	business needs		vendor and all	1) Xwave
	customizing roles	integration with	and rules so have	Limitations of EMR	customizations	reporting function
	and views)	other systems	consistent use	EMR reporting	need to be done	did not meet
		leads to duplicate	across the health	capabilities are	through tech	needs. Accuro's
	Limitations of EMR	charting	unit	limited. Would	support	tool seems better.
	1) Poor vendor			spend more time	2) Lab reports	2) Xwave was
	support		Limitations of EMR	on customizing	need to be	inflexible and not
			Open source so	this function. In	scanned or data	user friendly.
			there can be	addition, EMR is	entered manually.	
			incomplete coding	designed for	Charts with	
			or testing and	primary care.	scanned info are	
			bugs. However,	Additional ability	slower to open.	

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			can engage the community for solutions.	to customize to public health practices would be beneficial.	 3) Incompatible with mandated systems resulting in duplicate charting 4) OHIP billing feature unusable 5) Reporting functionality does not meet requirements 	
Advice:	Recommend an	Recommend an	Recommend an	Recommend an	Recommend an	Recommend an
Would you	EMR?	EMR?	EMR?	EMR?	EMR?	EMR?
recommend	Yes	Yes. It is an	Yes	Yes	Yes	Yes. Electronic
this EMR to		industry trend. It				data is secure
another health	Recommend this	enables sharing of	Recommend this	Recommend this	Recommend this	while paper
unit? Why?	EMR?	information and	EMR?	EMR?	EMR?	records are not.
Would you	Yes, provided you	breaks down silos.	Yes, provided you	Excited by the	Not at this time.	Less paperwork
recommend an	have in-house		have resources	next generation	1) Many	and workarounds
EMR at all?	expertise to	Recommend this	internally to	(Nexia). Vendor	customizations	are needed.
	reduce reliance on	EMR?	manage	will migrate data	required to make	
	vendor. Vendor	Yes.	development,	to the new	it suitable for	Recommend this
	support and	1) Robust	changes, and	system. Templates	public health	EMR?
	troubleshooting is	capability (see	flexibility of an	can also be	2) May not work	Yes, see benefits
	weak. You will	benefits above)	open source	migrated upon	for other program	above.
	develop greater	2) Ability to	system.	request.	areas due to	
	expertise as you	integrate with			required	No formal
	continue to use	other systems	No formal	Look at your	documentation on	evaluation done.
	the system.		evaluation done.	individual health	mandated systems	

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		No formal ROI evaluation. Program specific evaluation has been done.		unit circumstances to determine the best EMR for you. <u>Evaluation</u> Did an informal evaluation. Have also documented health unit's requirements/ criteria for an EMR. Also reviewed other EMRs on the market (to determine whether to stay with Nightingale or switch to a new EMR). MOH indicated PHU must use an Ontario MD	No formal evaluation done.	
Other Health Units that Use this EMR	Durham Algoma Porcupine Brant County	Used in the UK	Hamilton Timiskaming	certified EMR. None	None	None