

NURSING INFORMATICS BULLETIN



إدارة معلومات التمريض
Nursing Informatics Department

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Research Review

Mobile Solutions and its Implications on Nursing Practice

Collaboration

Saving Lives with Qatar Early Warning System (QEWS)

Education

Avoiding Identity Theft

Departmental News

HMC Nursing Informatics Team Attends the Cerner Middle East Regional User Group (MERUG) Conference

Teamwork towards Successful Implementation of CIS at Hamad General Hospital (HGH)

Nursing Informatics Department Conducts Cerner Refresher Day in NCCCR



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Call for Contributions to Nursing Informatics Bulletin (NIB)

The Nursing Informatics Bulletin (NIB) publishes articles written by nurses to support the readers in their clinical areas. The topic should be related to Nursing Informatics and its application. These guidelines offer advice on writing and explain our submission and review process.

1. All articles submitted should adhere to the NI department mission and vision.
2. The editorial team reserves the right to accept or reject any article submitted.
3. Article should be no more than 450 words in length. The editorial team reserves the right to edit articles for length, clarity and compliance with NIB standards.
4. The article should have a title and list the full name and job position or title of the author(s).
5. A photo and brief biography should be submitted with the article.
6. Write short sentences and provide one idea per paragraph.
7. The article should be submitted in Word format and emailed to:
nursinginformatics@hamad.qa stating "NIB Contribution" in the subject field.
8. Approval for the article to be included in the bulletin will be given by the Executive Director of the Nursing Informatics Department.

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Foreword Message



Dr. Wasmiya Dalhem

Executive Director of Nursing
Informatics

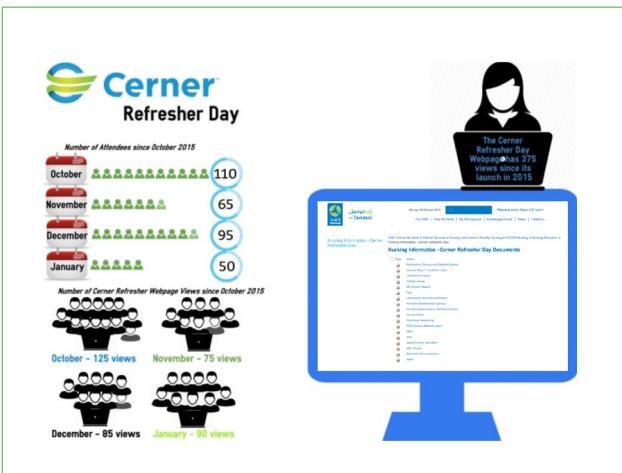
The quality of patient outcomes is the key benefit of having an integrated Clinical Information System (CIS). The implementation of the CIS is almost complete across Hamad Medical Corporation (HMC). Let us take the advantage of this integration and not content ourselves with just utilizing the system as there are a lot of opportunities for improvement. We need a collaborative and organized effort to ensure an optimized CIS utilization and attain the highest quality of care for our patients.

The role of Nursing Informatics, as innovative and creative educators, is the foundation to nursing staff in maximizing the benefits of Electronic Health Record (EHR). They are able to engage the nursing managers and staff and empower them to use all the learning facilities provided through refresher courses. This enables them to enhance their IT skills, highlights issues related to information management and collaborate efforts on quality improvement of documentation. Importantly it also ensures standardization of Nursing Informatics practice across HMC facilities.

We would like you to share your thoughts, ideas or any suggestions on topics you would like us to write about the future editions or enhancements you would like to reflect in our publications via nursinginformatics@hamad.qa.

Nursing Informatics Department Conducts Cerner Refresher Day in NCCCR

By Alexis Ivory Llamas, Informatics Nurse



The Clinical Information System (CIS) was successfully implemented across Hamad Medical Corporation (HMC) and has revolutionized the way nurses perform their daily tasks, from admission to discharge and follow-up appointments. Electronic medical records have made it possible for healthcare providers to quickly access organized and up-to-date patient records.

Since the introduction of CIS in the National Center for Cancer Care and Research (NCCCR) in February 2015, Cerner has become an integral part of the day-to-day activity for nurses. In order to align Cerner instructor-led training with the current workflows, policies and protocols of HMC, the NI team assigned in the facility has organized a series of refresher training sessions called "Cerner Refresher Day" for nursing staffs. The session was conducted as an open forum, enabling

participants to raise their concerns and clarifications about oncology solution-related issues including Joint Commission International (JCI) recommendations. They were also provided with troubleshooting techniques and documentation tips to improve their accuracy in charting.

As revealed in the latest Cerner Refresher Day survey done in April 2016, approximately 93 percent of nurses stated that they were satisfied with the Cerner Refresher Day which served as a launching pad to conduct it on a regular basis. A total of 110 staff nurses participated in the program that started on 1 October 2015. In addition, a nursing informatics guide was introduced into the Cerner Millennium as a reference to all nurses.

Teamwork towards Successful Implementation of CIS at Hamad General Hospital (HGH)

By Nestor Memarion, Informatics Nurse



The Clinical Information System (CIS) in HGH was launched on 6 May 2016 and it was the largest and the most complex Cerner implementation since 2012.

Considering the diversity of hospital services and with different specialties, the Nursing Informatics team has stepped up to the challenges with training, scheduling and manpower distribution. This success would not be achieved without close collaboration with Cerner, Dell, HITC and Clinical Informatics (CI) departments.

The training program was divided into different phases including supervised web-based training (WBT), instructor-led training, competency validation and practice session. This complex training plan was done to ensure all HGH staff were all properly equipped with appropriate

knowledge of the new system. To enhance the training needs of the staff, a supplementary resource was made available through NI CIS E-Library.

HGH nurses were also supported by advanced Super Users from other facilities during the first week of CIS go-live. The success cannot be credited to one department alone but was a coordinated effort and effective collaboration between all stakeholders. The Nursing Informatics Department continues to stand strong and meet the challenges and demands of today's evolution in the world of nursing practice.

HMC Nursing Informatics Team Attends the Cerner Middle East Regional User Group (MERUG) Conference

By Eyad Mohd Ahmad Tubishat, Nursing Informatics Coordinator

Innovation in healthcare is the result of effective collaboration across different people from different fields. Cerner, being one of the leaders in health information technology (HIT) solutions serving approximately 18,000 facilities worldwide, launched the Middle East Regional User Group (MERUG) Conference to gather all stakeholders and to share their experiences and modernizations. The annual event was held on 30-31 May 2016 in the Ritz Carlton Hotel, Jumeirah, Dubai, UAE. The Regional User Groups (RUG) are client-driven communities by geography that provide networking opportunities and knowledge partaking around the implementation and the use of Cerner applications. It also provides an avenue to learn about enterprise-wide topics and new Cerner initiatives.

The conference was attended by over 150 stakeholders in the Middle East from IT, business administration, medicine, and nursing and informatics departments. The agenda is focused on transforming leadership, trends, challenges and future innovations in healthcare and meaningful use of electronic medical records in the Middle East, among others.

The Nursing Informatics Department (NID) of Hamad Medical Corporation (HMC) was represented by Mr. Eyad Tubishat and Ms. Alexis Ivory Llamas. They were given the opportunity to present two of the department's projects



entitled: "NI CIS E-Library" and "NI Cerner Refresher Day". The presentation aimed to showcase the talent, creativity, hard work and dedication of the department. It acquired very positive feedback and enthusiasm to learn more about the project from the audience. The novel idea of delivering the learning materials through a non-conventional method proved to be a hit, even with an international audience who expressed their interest in the project through series of follow up questions. The NID was praised for this unique concept and their initiative to actually implement such innovation.

The NID has once again taken a lead to provide nurses across the corporation with the most up-to-date source of information, aligned with HMC's goal to be the center of healthcare education in the Gulf Cooperation Council (GCC) community in order

to meet their educational learning needs that cannot be adequately achieved in a formal class room training environment. The NI CIS E-library was developed solely by the NID and accessible through iTawasol, Health Information Communications Technology (HICT) gate, and

the NI Guide in the Cerner Millennium Solutions. It contains a repository of all CIS-related educational materials such as: brochures, video tutorials, interactive e-learning and nursing workflow animations.

Reference: <https://en.wikipedia.org/wiki/Cerner>

Go Live Events

Clairvia Go Live

Rumailah Hospital,
1 November 2016

Code Upgrade Go Live

Cerner Version 2015.01.16
11 November 2016

3D Printing in Healthcare

By Senthil Sabapathy, Nursing Informatics Specialist

What is 3D printing?

The term 3D immediately makes one think about three dimensional movies. 3D printing, called additive manufacturing, is a process of making three dimensional solid objects from a digital file. In 3D printing, successive layers of material form under a computer's control to create an object. Each of the layers can be seen as a thinly sliced horizontal cross-section of the eventual object. The process can be used for objects of almost any shape.

How does 3D printing work?

The construction of a building starts with the design. To create an object, we need to first start with a virtual design. By using Computer Aided Design (CAD) software, digital files are created using 3D modeling. 3D scanners create a three dimensional digital copy of an existing object. In preparing a digital file for printing, 3D modeling software is used to 'slice' the final model into hundreds or thousands of horizontal layers. When the sliced file is uploaded to a 3D printer, the object is created, layer by layer. The 3D printer reads every slice (or 2D image) and creates the object, blending each layer with hardly any visible sign of the layers. The result is the creation of the three dimensional object.



3D printing in healthcare

Today, most industries have embraced 3D printing technology. In 2014 alone, the 3D printing industry grew by 35.2 percent. The world of medicine has seen sharp advances in the use of 3D printing technology. Many new 3D printing solutions are available at a reasonable price point.

In healthcare, experts have developed 3D printed skin for burn victims and airway splints for babies with tracheobronchomalacia. Tracheobronchomalacia is a rare condition where the tracheal (windpipe) cartilage is soft. The condition makes the tiny airways around the lungs prone to collapsing.

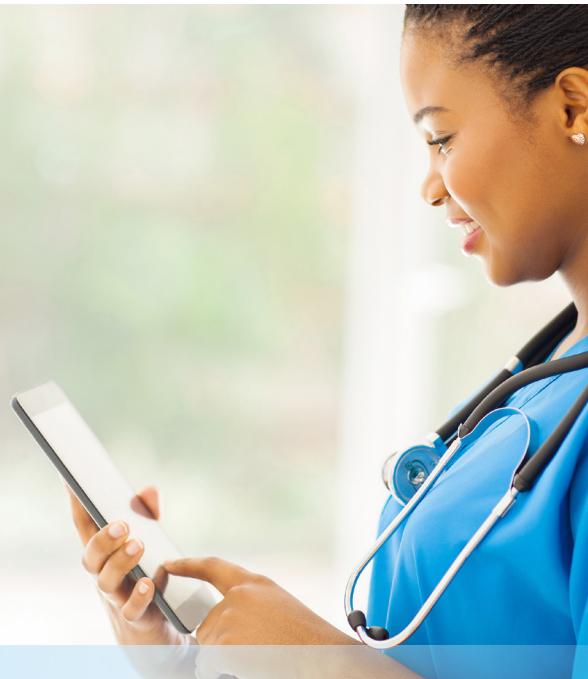
While many 3D printed medical solutions are still at the experimental stage, the outlook is promising. 3D printed ankle replacements, 3D printed noses, 3D printed casts, and 3D printed pills have all been developed and are improving patient outcomes. 3D printed casts, for example, heal bones 40 to 80 percent faster than traditional casts. 3D printed pills allow for interesting new pill shapes that can alter a drug's release rate. Additionally, the low manufacturing cost makes customization possible, which in turn makes treatment more efficient.

References:

1. <http://3dprinting.com/what-is-3d-printing/>
2. <https://hbr.org/2016/03/3d-printing-is-already-changing-health-care>
3. <http://gulfnews.com/news/uae/government/world-s-first-3d-printed-building-in-dubai-1.1833450>

Mobile Solutions and its Implications on Nursing Practice

By Aamna Hamid, Nursing Informatics Coordinator



Mobile solutions have been publicized as having the potential to revolutionize clinical working practice in many healthcare disciplines (Kidd R, 2011).¹ "Tablet computers are a form of mobile personal computer with large, touch-sensitive screens operated using a pen, stylus, or finger; with or without the ability to recognize a user's handwriting - a process known as "pen computing" (Atkinson, 2008).² Tablet computers provide an alternative mobile solution with the benefit of a full computer interface, which most users are familiar with. A potentially important component of future integrated information management systems are handheld computing technologies (Lapinsky, 2005).³

One of the recent research projects of Johansson, et al. (2012)⁴ is the study on nursing experience using mobile devices in their nursing practice. A descriptive intervention study that focused on the usefulness, information retrieval, saving time, patient safety, the quality of care, and confidence in the work. Study sample included 14 registered nurses and seven nursing students. Participants use mobile devices for 15 weeks and they answered two questionnaires before and after the intervention. Study results revealed that nurses perceived the mobile devices as useful and apply more confidence and save time while contributing to improved patient's safety and quality of care by accessing to necessary information. Also a

systematic review by Prgomet ,et al. (2009)⁵, showed that the handheld technology may be beneficial in supporting hospital physicians in patient care by the facilitation of rapid response, data management and accessibility, and medication error prevention.

In conclusion, mobile solutions are changing the ways in which nurses intervene, access health information and communicate with patients, thus, enhancing prevention, diagnosis, treatment of illness and health promotion.

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1. Kidd R (2011). Benefits of Mobile Working for Community Nurse Prescribers. *Nursing Standard*. 25, 42, 56-60.
2. Atkinson, P. (2008). A Bitter Pill to Swallow: The Rise and Fall of the Tablet Computer. *Design Issues*, 24(4), 3-25.
3. Lapinsky, S. E. (2007). Mobile Computing in Critical Care. *Journal of Critical Care*, 22(1), 41-44.
4. Johanson P., Petersson C., Saveman B., & Nilsson C. (2014). Using Advanced Mobile Devices in Nursing Practice – the Views of Nurses and Nursing Students. *Health Informatics Journal*. Vol. 20 No. 3, 220-231.
5. Prgomet, M., Georgiou, A., & Westbrook, J. I. (2009). The Impact of Mobile Handheld Technology on Hospital Physicians' Work Practices and Patient Care: a Systematic Review. *Journal of the American Medical Informatics Association*, 16(6), 792-801.

Avoiding Identity Theft

By Noha Saleh, Nursing Informatics Coordinator

One of the great concerns raised by daily users of social media, online shopping and banking is identity theft – the deliberate use of someone else's identity. It is usually a method to gain financial advantage or obtain credit through the use of another person's identifying information such as their name, identifying number or credit card number without their permission to commit fraud or other crimes.



In 2014, the credentials of 1.2 billion unsuspecting individuals and businesses were stolen. According to the New York Times, the incident prompted many to change their passwords and update their internet security measures.

In order to protect your identity, the following are some simple ways recommended to sharpen your defenses against hackers:

1. **Install firewalls and virus-detection software on your home computer.** That will keep hackers from stealing your information, destroying your files, or using your PC to attack others.
2. **Only access secure websites.** Ensure that you are using an encrypted connection, especially for emails, banking and online payments. (see figure 1)



Figure 1
The prefix "https", rather than "http" signifies that it is secure.
A padlock symbol on the top or bottom of the screen is also a good indicator.

3. **Know the latest scams and avoid them.** Be aware of fake businesses acting as genuine to trick individuals into revealing private account or login information. So be keen to verify web addresses prior to submitting personal information.
4. **Never download potentially unwanted programs (PUPs) like spyware or adware to your PC.** Several free downloadable programs are actually designed maliciously to monitor your keystrokes, including logins. They send your confidential information to fake sites. Some of these programs can be installed on your device simply by clicking on an advertisement link.
5. **Keep software up-to-date.** Updating apps and computer programs regularly can help eliminate bugs and prevent possible problems.
6. **Change passwords frequently.** Hackers often try one site's stolen credentials out on other sites, thus multiple complicated passwords is fundamental to online security.

7. Secure your email account. Use the two-step verification processes to secure email accounts; this is when websites use your phone number to send a code by SMS or another means to verify your identity before login.
8. Invest in reliable security software. This software can stop malicious programs from being installed on your PC.
9. Do not respond to chain emails.
10. Monitor your children's online activity. Use parental control software that lets you track your children's online activity and raise their awareness to the risk of entering explicit websites and sharing personal information.
11. Make regular backups of crucial data. Copy important files on removable media such as external hard drives and USBs. Software backup tools or cloud storage may also be used to backup data.



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1. <http://www.smh.com.au/digital-life/consumer-security/eight-tips-to-improve-your-internet-security-20140806-1012be.html>
2. http://home.mcafee.com/advicecenter/?id=ad_itp_1ttypiai&ctst=1
3. <http://blog.credit.com/2014/06/surprising-ways-identity-theft-can-hurt-you-85080/>
4. <http://money.usnews.com/money/blogs/my-money/2011/03/23/identity-theft-your-chances-of-being-a-victim>

Upcoming NI Educational Courses (Year 2016)

ICDL Preparatory Course

(27 CPD Hours)

2 to 6 / 16 to 20 October

30 October to 3 November

20 to 24 November

Dashboard and Chart Making in Excel Course

(10 CPD Hours)

9 to 10 / 23 to 24 / 25 to 26 / October

6 to 7 / 8 to 9 / 13 to 14 / 28 to 29 November

If you are interested, please email us at nursinginformatics@hamad.qa or inform our Nursing Informatics staff assigned to your facility

Why E-learning is Good for Nursing

By Kit Sumabat, RN, CPHIMS

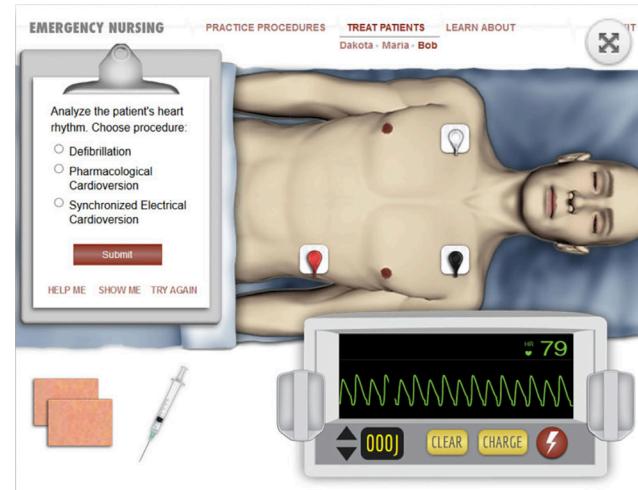
I've been teaching Clinical Nursing Informatics at the Cebu Normal University (CNU) Graduate School of Nursing for over a year now. CNU is one of the top nursing schools in the Philippines, boasting a consistent 100 percent pass rate. The University is about four hours from my home; a two-hour drive by car to the airport in Manila, and an hour plane ride (assuming there's no delay in the flight) and another one-hour cab ride from the airport in Cebu to the University campus. The course I teach, Clinical Nursing Informatics, is a three-hour class that takes place every Saturday. All post-graduate nursing students are required to complete the course.

If I were to take the traditional approach in teaching my class, I would travel four hours and deliver the lecture in front of 20 students, repeating myself every time for three classes, every week, for the entire semester. That is not my idea of teaching in the informatics age.

The challenges of teaching have allowed me to think of innovative ways to teach nursing informatics to my class. I was fortunate in that the college has made the development of 'techno-intelligent nurses' a priority.

It was during the second semester in 2014 when I started teaching. I had three classes with 20 students in each. My students came from diverse backgrounds. Some had clinical functions, others administrative while a few worked in teaching roles. They were all relatively young, ranging between 21 to 30 years old. This was the first trial for an experiment which I carefully outlined on a napkin while waiting for a delayed flight to Cebu.

I started the first face-to-face class introducing myself and asking everyone to do the same. That was one of the few times we had a class inside the classroom. I introduced the concept of 'blended learning', which uses various media together with traditional talk and personal discussion. Then I 'flipped' the classroom. 'Flipping a classroom' is a concept in e-learning where teaching is taken outside the traditional classroom and learning happens online. The students are required to log in to a website called www.MedX.ph, where the lectures are available in the form of PowerPoint presentations, videos, animations, PDF files and other forms of learning. A typical topic will be divided



into three parts: 1) pre-test, 2) lecture and 3) post-test. For my courses, all students are required to complete and pass the post-test before they come into the classroom. In theory, a passing grade will mean students have reviewed the materials and are ready to engage in class discussions.

Hosting my lectures on www.MedX.ph allows me to spend more time on case studies, workshops and other activities, rather than boring the class with long lectures. Last semester, my students learned to design a hospital information system during our workshops. If that's not cool enough, my students this semester are learning to build a fully functional mobile app without any programming language. How I do it is a topic for another day!

About the Author:

Kit Sumabat, RN, CPHIMS, has obtained his BS Computer Science Degree prior to nursing. He specializes in e-learning and Artificial Intelligence (AI). He is the President and CEO of Health Informatics Inc., a global IT company focusing in meeting the needs of the healthcare industry.

Reducing Password Fatigue through Single Sign on (SSO)

By Nestor Memarion, Informatics Nurse

Single Sign-On (SSO) is a session and user authentication service that permits a user to use one set of login credentials (e.g. name and password) to access multiple applications. The service authenticates the end user for all the applications the user has been given rights to and eliminates further prompts when the user switches applications during the same session. The software application will automatically supply the username and password for the application being accessed.

Single Sign-On (SSO) is a session and user authentication service that permits a user to use one set of login credentials (e.g. name and password) to access multiple applications. The service authenticates the end user for all the applications the user has been given rights to and eliminates further prompts when the user switches applications during the same session. The software application will automatically supply the username and password for the application being accessed.

Some other benefits of SSO include:

1. Reducing password fatigue from different username and password combinations.
2. Reducing time spent re-entering passwords for the same identity.
3. Reducing HICT/ IT helpdesk calls about resetting passwords.
4. Minimal end user training required.
5. Does not alter existing workflow.



The implementation of Clinical Information System (CIS) in Hamad Medical Corporation (HMC) brought huge challenges for staff to keep multiple usernames and passwords in order to access the HMC electronic clinical platform. Most of the staff have experienced password fatigue, showing frustrations and exhaustion in memorizing large numbers of passwords from HMC systems such as desktop log-in, Citrix and Cerner. The implementation of single sign-on application using Imprivata was implemented in some of the HMC facilities and selected units. This was received positively by staff which improved their experience in the use of Cerner CIS application.

Al Khor Hospital, Women's Hospital, HGH Emergency Department, including critical care units and operating theaters, have already started implementing the Imprivata Single Sign-On solution. This promising technology enabled users to login securely and quickly to the healthcare solutions that they need to use. It also increased security and improved patient confidentiality.

References:

<http://searchsecurity.techtarget.com/definition/single-sign-on>

Saving Lives with Qatar Early Warning System (QEWS)

By Alexis Ivory Llamas, Informatics Nurse

When early clinical signs of deterioration go unnoticed, it could lead to unintended lifelong injury resulting from incorrect or delayed medical management. Fortunately, the dawn of technology in healthcare allows clinicians to better monitor patient progress and improve clinical outcomes. At HMC, the Quality and Patient Safety Department (QPS) and the Hamad Healthcare Quality Institute (HHQI) designed an ingenious solution that uses the clinical information system as a platform to effectively track-and-trigger a safety-net system that prevents cardiac arrest through early symptom detection and response. With this implementation, the system will be able to identify deteriorating patients by categorizing patient's severity of illness. Nurses will be alerted to call for a medical review or rapid response at specific trigger points. It standardizes the assessment of acute illness severity and enables a more timely response while following a definitive escalation protocol.



QEWS is a new safety system designed and developed on the foundation of the Australian 'between the flags program', a safety net to protect patient from unnoticed deterioration and to ensure they receive appropriate care. This was used as a guide and adapted to meet local clinical requirements at HMC. In 2014, a pilot study using plan-do-study-act (PDSA) conducted at Hamad General Hospital (HGH) revealed that QEWS was beneficial in improving mortality and morbidity outcomes, as well as improving communication

between multidisciplinary teams. Through this, "nurses are now more comfortable in reporting their concerns about patient status based on QEWS criteria which are known as evidence-based and best practice," said Mr. Awad Amayreh, Manager for Clinical Operations and Performance Improvement (COPI).

With the support from the Nursing Informatics Department (NID), QEWS has been rolled out across eight HMC Cerner-live facilities. "The NI team played an important role to make this initiative successful

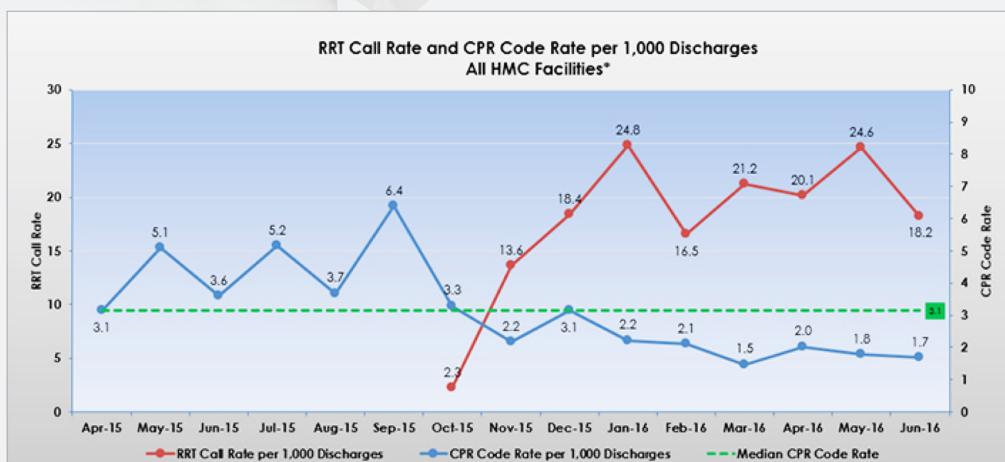


Figure -1

Dashboard Information:

- Women's Hospital data from February 2016 onwards
- Excludes Long Term Care at Rumailah Hospital
- October RRT includes Al Khor Hospital data only

through coaching and training frontline staff on how QEWS functions after integration into Cerner. Some milestones need to be achieved to make QEWS on Cerner more effective and efficient; however, the role of the NID is critical to this new practice and sustaining this improvement, making sure it becomes one of the daily tasks of frontline staff," Mr. Awad added.

The impact of QEWS was evident in the number of CPR calls across HMC; calls significantly dropped, from 120 to 70 since implementation. The program has also led to a 42 percent reduction in cardiac arrests and approximately a QR40 million reduction in operational burden.

During the recently concluded Cerner Middle East Regional User Group (MERUG) 2016, the QEWS project won the Achievement and Innovation in Clinical Decision Support award. The program was recognized for demonstrated success and innovation in the use of clinical decision support as shown by improvement in patient safety or outcomes. (See Figure -1)

References:

1. Piloting of the Qatar Early Warning Scoring (QEWS) System a Clinical Improvement by Patricia Mary Colgan Management of the Deteriorating Patient Qatar Early Warning System (QEWS) By Colin Hackwood, Hamad Healthcare Quality Institute, HMC
2. <http://www.cec.health.nsw.gov.au/programs/between-the-flags>

One-on-One

This section of the Nursing Informatics Bulletin (NIB) highlights the staff feedback and experience using the new system. In this issue, we focus on Ms. Anila Mary Mathew, RN, BSN. Ms. Mathew joined Heart Hospital (HH), on 15th October 2012 as critical care nurse in Coronary Intensive Care Unit (CICU). She was then transferred to the Non-Invasive Department of Heart Hospital and had been working in this unit for the last two years. She earned her degree in nursing from India in 2009, before joining Heart Hospital. She is one of the super users in her unit and an active member of Nursing Informatics Committee. During the Clinical Information System (CIS) implementation, she actively supported her unit during the CIS go live. Let's hear from her what she can say about the new CIS system.



By Rocky San Pedro,
Informatics Nurse

over and shift endorsements uses electronic data which save time.

3. What challenges or problems are you facing using the current CIS application?

The challenges are training new hires. There is lack of uniformity in nursing documentation; each unit had a different way of documenting. There is a need to check the reliability of the information for data analysis and statistics for audit purposes.

4. Do you think the use of the CIS application in your current practice helps you improve quality of care to your patients?

Yes. Mainly with regards to improved patient safety. There is error reduction in documentation and the communication is clearer. It also helped with effective time management and the delivery of quality healthcare.

5. Do you have any suggestions for system improvements?

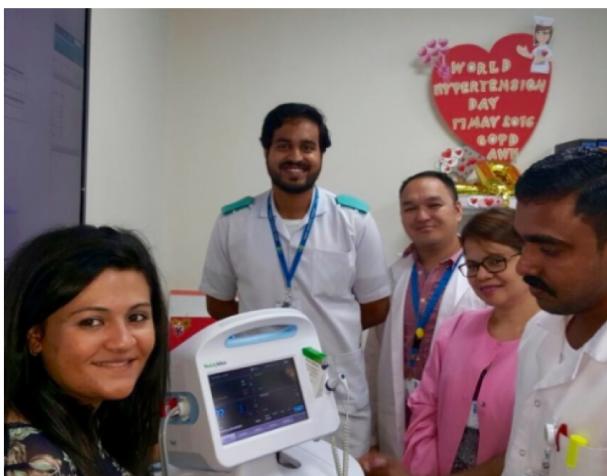
I suggest we include a feedback mechanism in the way of surveys/feedback from end users.

1. Is this your first time to use CIS in your nursing practice?

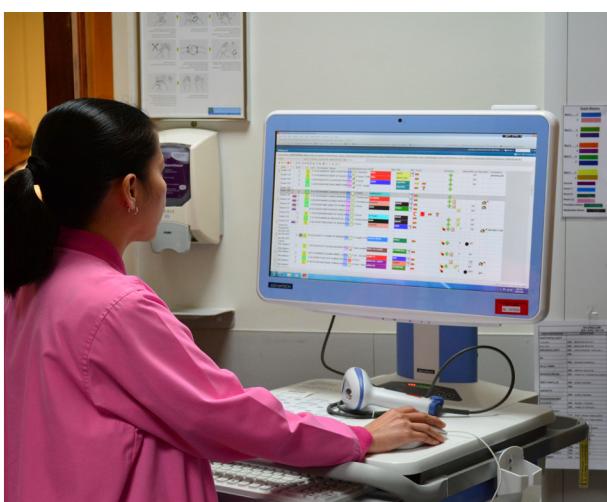
Yes, this is my first time using the system.

2. Tell me your experience working with CIS as compared to using paper documentation?

CIS helped us make the transition from the primitive stage of documentation to a more advanced stage. Information is now at our fingertips. Electronic health records are more legible. They provide accurate, clear and complete information to ensure things don't get missed. They also provide easy access to patients' old files/history. Documentation is more accountable and transparent. Hand



Welch Allen Training in Al Wakrah Hospital.



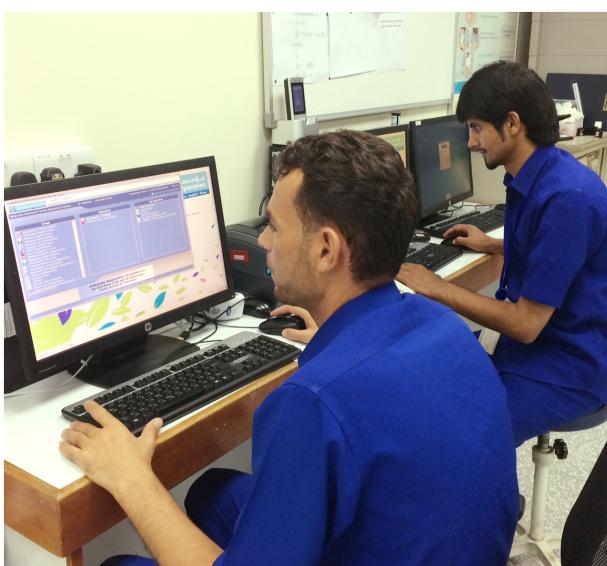
CIS Go Live in Pediatric Emergency Center (PEC) Al Sadd.



NI CIS E-Library Appreciation Award.



Cerner Middle East Regional User Group Conference (RUG) 2016.



Basic IT Training for HGH Emergency Nursing Aides.



NCCCR Cerner Refresher Day

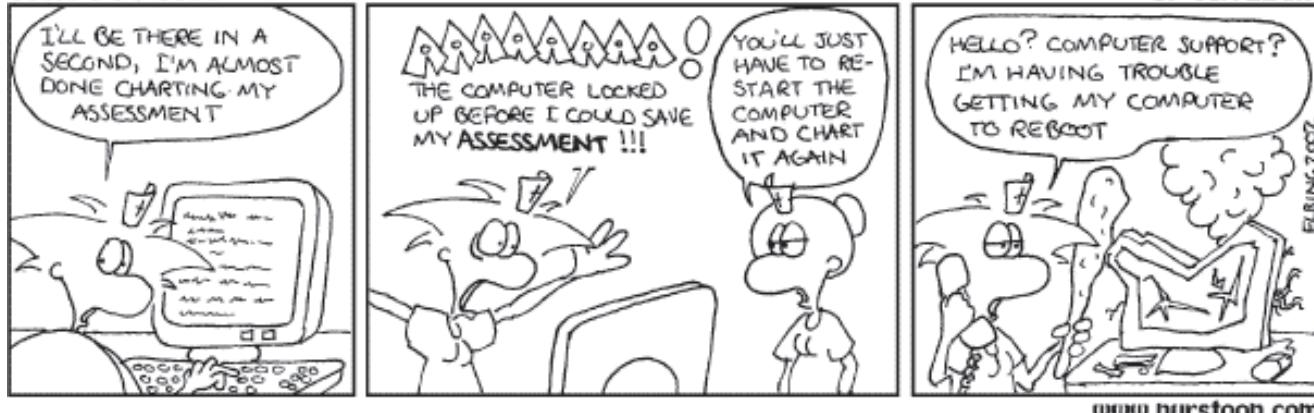


Clairvia Kickoff in Rumailah Hospital.

Q. Where can we find the historical data of a patient's transfer history on the current CIS platform?

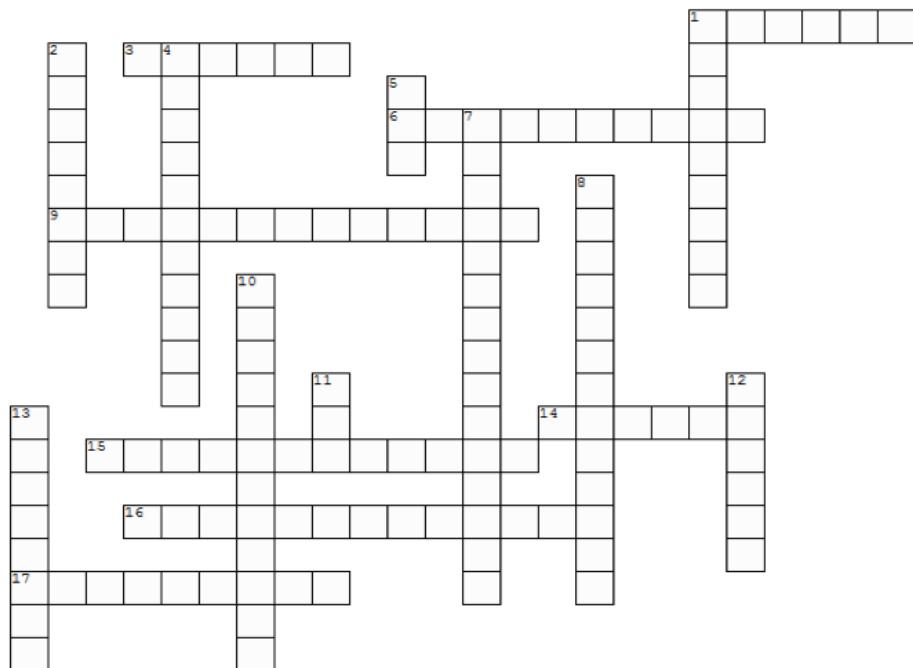
Send your answer to: nursinginformatics@hamad.qa

COMPUTER Nurstoons



www.nurstoon.com

Complete the crossword below



Created with TheTeachersCorner.net Crossword Puzzle Generator

Across

1. Patient Category in ED
3. Icon to open a list of patient
6. Nursing Task
9. To be defaulted as yes
14. To prioritize the patient in ED
15. Main Page of Powerchart Inpatient
16. Ability to switch from different position in Cerner
17. Summary Mpage in ED

Down

1. Number to identify a lab test
2. Apps use for Surgery
4. Use to order Medication supplies in Cerner
5. Place to Record Meds
7. First Net Main Page
8. Ability to run report in Mellineum Apps
10. I need an eye glass
11. Apps use to transfer patient
12. Icon use to discharge a patient
13. It is SBAR

Contact Us

We appreciate and welcome your comments and feedback, please contact:

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Distributed in Qatar by Aamal Medical



Root™

Patient Monitoring Platform Designed to Transform Care



Root™ offers multiple high-impact innovations for broad application across the continuum of care:

- Instantly interpretable, high-visibility display of Masimo's breakthrough rainbow® and SET® measurements from Masimo's Radical-7® handheld monitor
- Intuitive, touchscreen navigation for easy and adaptable use in any hospital environment
- Flexible measurement expansion through Masimo Open Connect (MOC-9™)
 - SedLine® brain function monitoring, designed to improve the care of patients under anesthesia or sedation



ADVANTECH

Distributed in Qatar by
Aamal Medical



Work Station on wheels:



Telemedicine cart

Advantech Telemedicine have set major trend in the healthcare industry by using virtual technology that keeps care providers connected to their patients, regardless of geographical distance thus catering superior patient care.



Advantech is a market leader in the digital healthcare market with years of trusted experience and authorized partner with Aamal medical. All the computer solutions features complete high-performance systems, designed with utmost care and quality to provide uninterrupted , critical care for healthcare applications.

Point of care terminals



Advantech AMiS Medical Carts

The AMiS medical cart series was designed to optimize the provision of patient care and allow mobile point-of-care service. Wireless connectivity increases the accuracy of medical records, thereby reducing the likelihood of medication errors. All AMiS medical carts are EN60601-1, UL60601-1, and IEC60601-1 certified. The AMiS series of medical carts, with their modular design, offers an intelligent, flexible, and customizable upgrade option for mobile nursing stations.

Advantech Point-of-Care POC Series

Advantech's Medical Computers are scalable medical PCs with UL60601-1, EN60601-1, and IEC60601-1 certifications. The POC series produced by Advantech is designed to be easily integrated with new and existing medical equipment configurations in hospitals. The computers in healthcare in this series are convenient to clean and produced using anti-bacterial materials to reduce the risks of bacterial contamination. The energy-saving and fanless computer delivers a high computing performance, making it the ideal medical device for improving hospital workflows and enhancing healthcare services. These medical computers are also equipped with several high-speed I/O connectors, user-friendly function keys, and customizable features.



(From left to right) Prasad Naik, Business Development Manager; Maged Shenouda, Senior Sales Executive; Marwan Soliman, Sales and Marketing Manager; Ahmed El Shaarawy, Senior Sales Specialist; Seifeldin Beibars, Sales and Applications Specialist

Aamal Medical – the leading distributor of medical equipment and devices

Aamal Medical is one of the leading Medical Equipment and Surgical Consumables distributors in Qatar with major market share. The company is a subsidiary of Aamal Q.S.C. a well-established company with diversified activities consisting of more than nine companies under its banner.

Aamal Medical specializes in the sale of medical equipment, medical and surgical consumables, hospital furniture, spare parts and consumables as well as health care and IT solutions to healthcare facilities, and also provides full-service maintenance contracts to customers. Aamal Medical also offers complete integrated solutions such as hospital information systems, enterprise resource planning solutions for health care, integrated operating theatres and total integrity pharmacy robotic systems.

The company works with over 60 medical equipment suppliers from all over the world, and is the exclusive agent for major international well known suppliers. It also caters to a wide base of customers in the medical sector including government, semi-government and private sectors and with the development of the healthcare sector. It is expected that market share will increase as more projects are acquired.

Aamal Medical is committed to supply the Qatari market with high quality medical devices and consumables through dedicated and skilled sales and technical team. It is also one of the main players in the IT healthcare market and has been awarded several times for its distinguished performance by Hamad Medical Corporation

and other authorities. The company has delivered in Qatar the first Health Information System (HIS), Total Solution for the Pharmacy Automation and PACS (Picture Archiving and Communication System), in addition to Complete Integrated Operating Room Solutions (OR1). Aamal Medical is an expert in total package solution projects particularly for operation theatres/ICU and pharmacy automation.

Aamal Medical is a step ahead in health care service. In the last 10 years, healthcare services have moved strongly towards turnkey projects associated with high expectations of total solutions and services integration. It is well prepared with its outstanding performance in healthcare projects, new trends in design and keeping medical applications and requirements up to date.

Through a chain of the finest suppliers from around the world, Aamal Medical has built up a team that can attend to various healthcare projects including the following:

1. Modular rooms (walls, floors, windows, blinds, etc.): Aamal Medical is the first company in Qatar, to make use of these rooms, which can be rearranged by adding or removing components depending on the size and functionality needs of the user.

2. Medical electronics (monitors, defibrillators): Every ambulance rushing to save a life carries a defibrillator supplied and maintained by Aamal Medical; Every Qatar Airways plane carries the same.

3. Comprehensive range of endoscopic products: Supplied by Aamal Medical to assure the best diagnostic treatment in all operating rooms in Qatar.



Sherif Shehata, General Manager

4. Health Services Integration: To reduce the hassle that medical staff face, Aamal Medical supplies the most advanced, fully automated medical delivery systems with global communications for all healthcare facilities. This allows patient information to be accessed with just one click, informing the doctor of his patient's history and the medications he has received in the past.

To ensure a better understanding of the growing demands within the local healthcare sector in Qatar, the company focuses on identifying the market's requirements and maximizing the effective usage of resources. Aamal Medical aims to maintain and enhance their leadership stance while offering their clients an overall distinguished experience by building on its well-entrenched reputation, and providing the most technologically advanced solutions in the medical field, aligned with supporting Aamal's team of professionals with consistent development programs. **MEN**



A leading company in Qatar
Specialized in a Diversity
of Medical Equipment
supplying & providing full-fledged services to
Hospitals, Medical Centers and
Healthcare Facilities.



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