COMMUNICATIONS IN AN ELECTRONIC ERA

Eric Benchimol, MD, PhD, FRCPC, NASPGHAN-F

Associate Professor of Pediatrics and Epidemiology, University of Ottawa Pediatric Gastroenterologist, Children's Hospital of Eastern Ontario

Daniel Tardif, MD, MBA, LMCC, CRHP, CCPE

Director, Regional Affairs and Chief Privacy Officer Canadian Medical Protective Association



CanMEDS Roles Covered



2

	Medical Expert (as <i>Medical Experts</i> , physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills, and professional values in their provision of high-quality and safe patient-centered care. <i>Medical Expert</i> is the central physician Role in the CanMEDS Framework and defines the physician's clinical scope of practice.)
X	Communicator (as <i>Communicators</i> , physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.)
X	Collaborator (as <i>Collaborators</i> , physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.)
	Leader (as <i>Leaders</i> , physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.)
X	Health Advocate (as <i>Health Advocates</i> , physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.)
	Scholar (as <i>Scholars</i> , physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.)
x	Professional (as <i>Professionals,</i> physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.)

Conflict of Interest Disclosure





(Over the past 24 months) Name: Eric Benchimol

Commercial or Non-Profit Interest	Relationship		
Organization	Committee Member, Chair		
Company A	Advisory Board, Consultant, Investigator		
Company B	Speaker		
Company C	Stockholder, Employee		
Company D	Advisory Board, Research Support		

Conflict of Interest Disclosure





(Over the past 24 months) Name: Daniel Tardif

Commercial or Non-Profit Interest	Relationship
Centre intégré de la santé et des services sociaux de l'Outaouais	Employee
Canadian Medical Protective Association	Employee

Conflict of Interest Disclosure





(Over the past 24 months) Name: Eric Benchimol

No relevant relationships with any commercial or non-profit organizations

(Over the past 24 months) Name: Daniel Tardif

No relevant relationships with any commercial or non-profit organizations

CASE #1



• You are a gastroenterologist in the community, specializing in care of patients with chronic diseases. You have heard that patient satisfaction scores are higher when electronic communication with their physician is possible. You are considering providing your patients with your email address and cell phone number, to enable What's App messaging.

GUIDELINES FOR ONLINE COMMUNICATION



Canadian Diaestive Diseases Week





Information Privacy Code and Code

well as specific laws or requirement

jurisdiction for guidance in this resp

These guidelines take as their start

and best practices that have develo

use of paper documents, mail, tele

facsimile in the setting of physician

They also take account of the unique

posed by digitization and online co

as well as their potential to open u

to facilitate the provision of care an

dissemination of information. This

address physician communications

health care providers, government

Given the possible range of uses for

communications, physicians should

not and that decomber hour make

parties.

COMMUNICATION WITH PATIENT



PHYSICIAN GUIDELINES FOR ONL



Use of Email by Physicians

This section will:

BRITISH

COLUMBIA

MEDICAL ASSOCIATION

- Summarize the benefits and risks associated with the use of email in
- Identify key considerations required when using email for transmitting
- Identify key considerations required if planning to use email communi

The use of email for communication in medical offices has in some cases becc Email is a quick and efficient method for sharing information between provider and patients. When used in addition to face-to-face communication, email can provider relationship. It can reduce non-essential office visits and save time oth communicating by phone. Email permits both parties to read and respond whe also allows supporting documents to be attached, if necessary.

Steps must be taken to reduce the risks associated with email communication reasonable safeguards are in place to protect personal information exchanged

What are the risks?

In general, any type of email communication has some embedded risks:

- 1. An email message, because it is usually not encrypted, can be intercepted forwarded to unintended recipients or delivered to the wrong address.
- 2. Email messages containing personal information can be sent or received such as a publicly accessible computer or a home computer. These mess



Fact Sheet

Communicating Personal Health Information by Email September 2016

Email is one of the dominant forms of communication today. Individuals and organizations have come to rely on its convenience, speed and economy for both personal and professional purposes. Health information custodians (custodians) are no exception. While email offers many benefits, it also poses risks to the privacy of individuals and to the security of personal health information. It is important for custodians to understand these risks and take steps to mitigate them before using email in their professional communications.

OBLIGATIONS UNDER THE PERSONAL HEALTH INFORMATION PROTECTION ACT

The Personal Health Information Protection Act establishes rules for protecting the privacy of individuals and the confidentiality of their personal health information, while at the same time facilitating effective and timely health care. Custodians have a duty to ensure that health records in their custody or control are retained, transferred and disposed of in a secure manner. They are also required to take reasonable steps to protect personal health information against theft, loss and unauthorized use or disclosure.

LINDERSTANDING THE RISKS

Like most forms of communication, email entails an element of risk. An email can be inadvertently sent to the wrong recipient, for example, by mistyping an email address or using the autocomplete feature. Email is often accessed on portable devices, such as smart phones, tablets and laptops, which are vulnerable to theft and loss. An email can also be forwarded or changed without the knowledge or permission of the original sender. Email may also be vulnerable to interception and hacking by unauthorized third parties.

Personal health information is sensitive in nature. Its unauthorized collection, use or disclosure may have far-reaching consequences for individuals, including stigmatization. discrimination and psychological harm. For custodians and their agents, privacy breaches may result in disciplinary proceedings, prosecutions and lawsuits. In addition, such privacy breaches may result in a loss of trust and confidence in the entire health sector that was entrusted to protect this sensitive information.

INTRODUCTION

The increased availability and use of the Internet have facilitated online communication between physicians and patients when the patient is not physically present at the physician's place of practice. Online communications may be directly related to the provision of patient care or may be used for transmitting more general information for administrative, educational or health promotional purposes. These guidelines are primarily concerned with the two most common vehicles of online communications: email and physician web sites.

Electronic communications offer many benefits. but require safeguards that differ from other forms of communication, such as paper document, telephone and fax. The digitized nature of eninations facilitates manid and and

GUIDELINES FOR ONLINE COMMUNICATION – MAIN POINTS





- Not confidential
- Frequently stored or backed up outside of Canada
- Obtain consent from patient
- Develop office policy for eCommunication use
- Regularly check accuracy of email addresses
- Use encryption and secure passwords
- Ensure all communications are in the medical record

INSTANT MESSAGING -APPS



RESEARCH ARTICLE

WhatsApp in hospital? An empirical investigation of individual and organizational determinants to use

Anna De Benedictiso^{1,2@oa}*, Emanuele Lettieri^{3@oc}, Cristina Masella^{3@oc}, Luca Gastaldi^{3@oc}, Giordana Macchini^{2@ob}, Camilla Santu^{3@oc}, Daniela Tartaglini^{1,2@oa}

1 Department of Healthcare Professions, Hospital General Management, University Hospital Campus Bio-Medico, Rome, Italy, 2 Faculty of Medicine & Surgery, University Campus Bio-Medico, Rome, Italy, 3 Department of Economics, Management and Industrial Engineering, Politecrico of Milan, Milan, Italy

 These authors contributed equally to this work.
 a Current address: Department of Healthcare Professions, University Hospital Campus Bio-Medico, Rome, Italy.

b Current address: Department of Nursing, University Campus Bio-Medico, Rome, Italy.
 c Current address: Department of Economics, Management and Industrial Engineering, Politecnico of
Milan, Milan, Italy.

* a.debenedictis@unicampus.it

De Benedictis A, et al. PLoS One 2019; 14(1): e0209873





WhatsApp Doc?

Donnchadh Martin O'Sullivan,¹ Eoin O'Sullivan,² Margaret O'Connor,¹ Declan Lyons,¹ John McManus¹

¹Department of Geriatrics, University Hospital Limerick, Limerick, Ireland ²Department of Renal Medicine, Royal Infirmary of Edinburgh, Edinburgh, UK

Correspondence to Dr Donnchadh

Martin O'Sullivan, Department of Geriatrics, University Hospital Limerick, Limerick, Ireland; dosullivan373@gmail.com

Received 12 August 2017 Accepted 6 October 2017 Interest continues to grow around the most appropriate use of smartphones, tablet devices and related software in the modern healthcare setting. The meteoric rise of the smartphone in broader society has resulted in increasing numbers of healthcare professionals informally introducing this technology to the workplace. High-quality data to support device use in treatment and decision making are thus far lacking, but the potential benefits of deploying such technology are increasingly recomsed.¹²

Research we have conducted at the University Hospital Limerick (UHL), Ireland, identified the widespread use of the instant messenger software 'WhatsApp' for communication between health professionals. Responding to an anonymised survey, 80% (n=41/51) of the intern cohort at UHL confirmed that instant messaging systems are already informally integrated into modern medicine in Ireland. We found that 100% of

information on instant messenger without acquiring patient consent, despite the fact that 68% are concerned about sharing this information in such a manner. This cognitive dissonance is concerning, and perhaps reflects the pressures of modern medicine forcing doctors to behave in this way despite medicolegal misgivings.

Modern medicine thrives on rapid, efficient communication, driven in part by the ever-increasing numbers of patients, increasing complexity of patient data and the multidisciplinary nature of medicine. Every member of a team feels they need to be in multiple places simultaneously and needs the ability to exchange information rapidly for the efficient day-to-day running of the hospital. In fact, 90% of physicians feel that they cannot provide the best possible clinical care without using instant messaging. Thus, there may be a compelling patient safety argument for the use of instant messengers when one considers that 95% of respon-

O'Sullivan DM, et al. BMJ Innovations 2017; 3(4): 238-9



INSTANT MESSAGING -CHALLENGES

- How does it get into the medical record?
- Who has access to the patient or doctor's mobile devices?
- Where are the messages stored?
- Encryption?
- Remote wipe capability?

Information governance considerations for staff on the use of **instant messaging software** in acute clinical settings





INSTANT MESSAGING -OPPORTUNITIES





MyCh	art				
	Français MyChart				
HyChardWarrame <u>ericben</u> Pasared	realth	Visits	Messaging	Resources	Profile
SIGN IN	Message Center	(Noah)			÷
Forgot Username? Forgot Part	ASK A QUESTION				
SIGN UP NOW	Inbox Sent Messages				
SickKids CHE	Search message list				٩
	Filters: All Messages	•			
App Store	FAQs Privacy Policy Terms a				
MyChard* Exercised from Epic Systems Corporation 8	1200-2018 Mychart M 27/09/2019 08:04 #	Арроі	ntment Reminder		
	Mychart M 13/09/2019 08:05 #		ntment Reminder		
	Mychart M 08/01/2019 08:06 A	Арроі	ntment Reminder		
	Mychart M 22/11/2018 08:06 A	Арроі	ntment Reminder		
			There are no more messages available.		
			BACK TO THE HOME PAGE		

INSTANT MESSAGING -OPPORTUNITIES



×



TG .

Join Extra Crunch

Login

Search Q

Startups

Apps Gadgets

Videos

Audio

Newsletters

Extra Crunch

Advertise

Events

More

Transportation Apple Tesla Security

Siilo injects \$5.1M to try to transplant WhatsApp use in hospitals

Natasha Lomas @riptari / 7:42 am EDT • October 5, 2018

Comment



Consumer messaging apps like **WhatsApp** are not only insanely popular for chatting with friends but have pushed deep into the workplace too, thanks to the speed and convenience they offer. They have even crept into hospitals, as time-strapped doctors reach for a quick and easy way to collaborate over patient cases on the ward.

Yet WhatsApp is not specifically designed with the safe sharing of





• You have noticed many of your patients are accessing health information on social media platforms like Facebook and Twitter. You are considering joining the conversation online to help educate patients and the public. What should you be worried about when it comes to interacting with patients?

TIPS FOR SOCIAL MEDIA





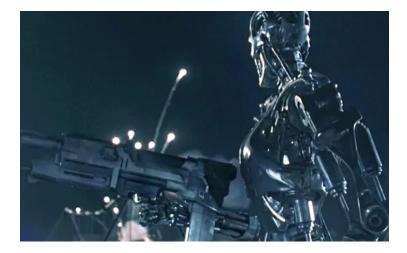
- Contact hospital/university PR first
- DON'T friend your patients/families
 For patients: bring the conversation offline
- Diamonds aren't as forever as your posts
 What is private could be public at any moment

TIPS FOR SOCIAL MEDIA





- Say online only what you would say in person
 What would your mother say?
- Learn your privacy settings
- Google isn't human
 (it may be SkyNet)



CMA: KEY ISSUES





- Patient confidentiality
- Professionalism



WEATHER HIGH 8 C | SUNNY | MAP S8

MONDAY, FEBRUARY 27, 2017

> STAR EXCLUSIVE

Ontario doctors rocked by vicious infighting

Bullying, threats and intimidation have escalated since failed ratification vote, resignations at OMA

THERESA BOYLE HEALTH REPORTER

A damaging wave of cyberbullying and medical students. intimidation is sweeping through the patient referrals from adversaries.

rio Medical Association, which represents the province's 34,000 doctors and

ways been a problem in medicine, in On- fore to this degree," said Dr. Sharon president Dr. Virginia Walley. tario it has escalated since last summer's Straus, vice-chair of the department of failed ratification vote over a proposed medicine at the University of Toronto zation during one of the most tumultu-

ashamed and distressed." She said the perpetrators of unprofes-

sional behaviour are a minority among physicians.

The targets are mainly doctors who opposed the move last month to oust the OMA executive team and who voiced The problem has grown even harsher support for last summer's tentative deal ranks of Ontario doctors, complete with since the sudden decision by the OMA between the province and OMA. They obscene emails, threats against each oth- executive to resign en masse following a range from the youngest in the profeser's medical careers and refusals to take vote of non-confidence by the group's sion - students seeking training posi-260-member elected council last month. tions in hospitals and universities - to Although experts say bullving has al- "I have not heard anything like this be- those at the top, including past OMA

Walley served at the helm of the organideal between the government and Onta- and a researcher in the area of bullving ous periods in its 136-year history until DOCTORS continued on A9

within the profession. "It makes me sad, her resignation this month. She and the rest of the six-member executive resigned a week after the OMA's council passed a non-confidence motion against them. (Votes on motions to force each member of the executive to step down failed.)

> The Star has learned that dozens of disturbing emails were sent to Walley via the OMA. They include this misogynistic one from a southwestern Ontario anesthesiologist sent shortly before last August's ratification vote: "You are a c---. Crash and burn as you deserve to do!! This will be a NO vote and the end of the OMA. Sincerely, F---- YOU and the OMA !!!" DEPARTMENT

"It makes me sad, ashamed and distressed." DR. SHARON STRAUS

OF MEDICINE

https://policybase.cma.ca/documents/policypdf/PD12-03.pdf





- Understand the technology
- Be transparent
- Respect others
- Focus on areas of expertise

https://policybase.cma.ca/documents/policypdf/PD12-03.pdf

CPSO GUIDELINES



- Assume all content is public and accessible to all
- Exercise caution when posting information online that relates to an actual patient. Bear in mind that an unnamed patient may still be identified through a range of other information, such as a description of their clinical condition, or area of residence.
- Refrain from providing clinical advice. It is acceptable to use social media to disseminate medical information.

https://www.cpso.on.ca/Physicians/Policies-Guidance/Statements-Positions/ Social-Media-Appropriate-Use-by-Physicians





- Virtual care is the new thing.
 - Patients can consult their physician, receive their drug or lab prescriptions, reschedule their followup visit, all online.
 - Physicians can consult their colleagues and see their patients when at the cottage, new billing codes are in discussion and the private sector is moving in really fast...



Virtual Care Challenges





- Virtual Care will take many different forms
 - Some of these forms will challenge the current legal and ethical framework
- Challenges:
 - Patient safety
 - Privacy
 - Adapting the regulatory framework
 - Billing







- General obligation to ensure that the technology used will allow the physician to:
 - Satisfy all relevant and applicable legal and professional obligations;
 - Meet the standard of care.







- Illustration: CMQ Utilisation de plateformes Web pour la consultation médicale: derrière l'écran, de vrais patients! par la Direction des enquêtes
 - Effectuer une évaluation complète et de qualité.
 - Obtenir du patient un consentement éclairé.
 - Rédiger une ordonnance selon les règles.
 - Assurer le suivi médical pour éviter tout délai de prise en charge.
 - Constituer et maintenir un dossier médical Protéger l'information.
 - Éviter toute situation potentielle de conflit d'intérêt.





- Some considerations does the virtual care platform
 - Provide all necessary information (patient's allergies?)
 - Provide trustworthy information (current medication?)
 - Allow an appropriate trust relationship between the patient and the physician
 - Allow the physician to make proper use of his or her clinical judgment (no guessing...)
 - e.g.: algorithm-aided diagnosis

Patient Safety and Privacy





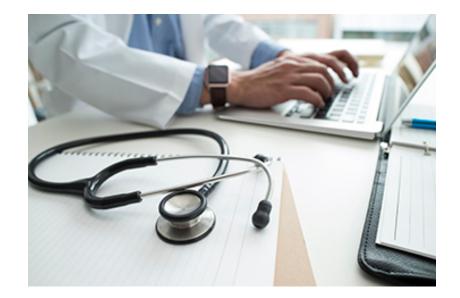
- Informed Consent
 - Patient must receive adequate information about the benefits and risks of the proposed treatment
 - Virtual care platforms may present additional challenges: patients must be informed
 - Informed consent comes from the discussion with the patient, not the signature or click on a consent form

Patient Safety and Privacy





- Record Keeping
 - How will the care be documented?
 - Will the information be available to other and subsequent caregivers?







- Virtual care platform must ensure
 - Technology and physical setting used by the patient permits the sharing of the information in a private and secure manner;
 - Information kept by the platform safe from unauthorized access and disclosure



Privacy

- Cloud Based Systems:
 - Does provider have access to information?
 - Are appropriate security measures in place?
 - Access by third parties
 - Encryption
 - What use will be made of information?
 - What procedures are in place in case of breach?
 - What procedures are in place in case of data loss?
 - What will happen with the patient information when physician stops using the platform?
 - Source: Office of the Privacy Commissioner of Canada: Cloud Computing for Small and Mediumsized Enterprises







Regulatory Framework



- Important to ensure that the proposed virtual care platform is authorized
- Challenges
 - Existing regulations may not be adapted to novel care delivery platforms;
 - Uncertainty as to whether novel care delivery platforms are authorized by relevant regulator

Regulatory Framework





- Jurisdiction
 - Must ensure that medical act is authorized (cross borders...)
 - Is licensure required in the jurisdiction where the patient is located?
 - Regulatory framework is not uniform across jurisdictions...



Regulatory Framework

SCMD Semaine canadienne des maladies digestives^{act}



- Liability Protection
 - Is appropriate liability protection in place?
 - Limits to CMPA assistance
 - Non Canadian residents
 - Product Liability







- Billing codes may not be adapted to novel care delivery platforms
 - Is the service provided covered by the provincial health insurance regime?
 - Can the patient be billed directly for the virtual care provided?

Key takeaways



Patient safety first Protect yourselves Call you college or

Call you college or call the CMPA if you have questions

