

Patient Participation Programs on Hand Hygiene in Canada

Summary of our experience

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Disclosures

- I have the following financial relationships to disclose:
- Consultant for: AMG Medical Nocospray
- Speaker's bureau for
 - Merck
 - Pfizer
- Grant/ Research support from:
 - Fonds de Recherche en Santé du Québec,
 - Lady Davis Research Institute
 - Jewish General Hospital Foundation
 - AMG Medical Nocospray



Objectives

 Present the Canadian (and Swiss) experience on Patient Engagement





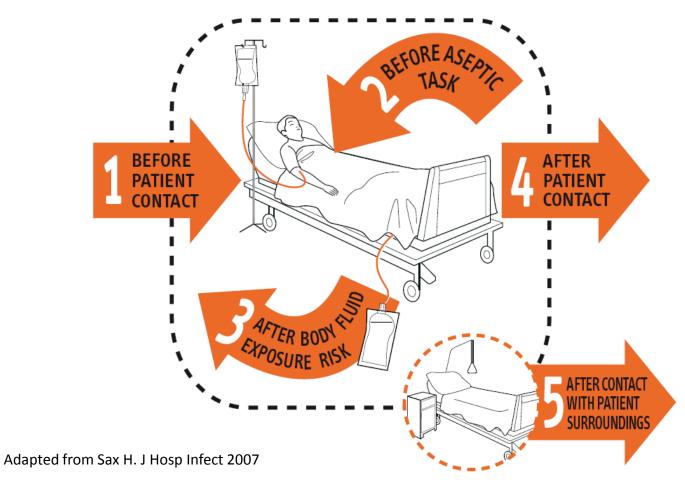
Importance recognized

Hand hygiene, either by handwashing or hand disinfection, remains the single most important measure to prevent nosocomial infections.1 The importance of this simple procedure is not sufficiently recognised by health-care workers (HCWs),2 and poor compliance has been documented repeatedly.3-5 Although some

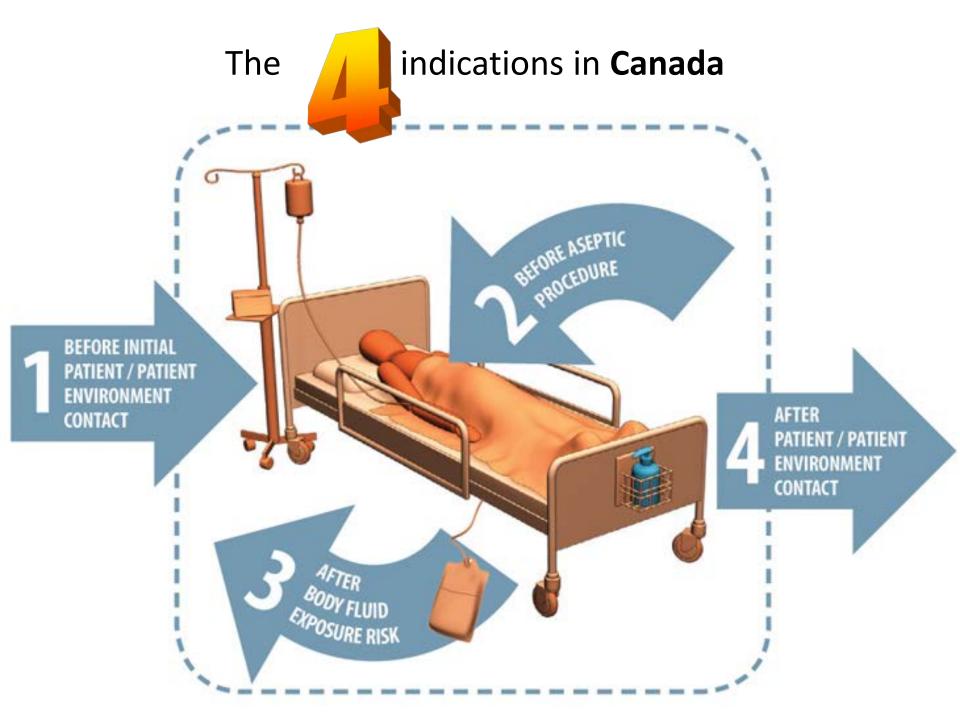
Pittet D et al., Lancet, 2000



Indications







Patient Participation

The CANADIAN EXPERIENCE







Patients are your partners. Why and how this partnership works.







Kim Neudorf



Judy Birdsell



Ioana Popescu

Special thanks to: Bernie Weinstein, Dr. Yves Longtin, Paul Webber



Reasons PFPSC engage:

Believe:

- We have a story to tell
- We have insights into system improvements
- When engaged we are healthier, safer
- Together we can do better so that, Every Patient is Safe



Patient harm in Canadian hospitals: The stats

How often does it happen?

In 2014–2015,

In 18

hospital stays

in Canada involved at least 1 harmful event (138,000 out of 2.5 million hospital stays).





What kinds of harmful events happen

There are 4 categories of harmful events — 2014-2015 breakdown.



Note

All numbers exclude Quebec and selected mental health diagnoses.

What can be done about this

We are collecting data on how often these events are happening, using a new hospital harm measure. And we are providing information on how these events can be prevented. Hospitals, along with patients and families, have a hand in helping make care safer for all.

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Healthcare Acquired Infection

- >200,000 Canadians suffer from HAI/year
- 4th leading cause of death



Who: Funding Partners











Policy

Consultation

- Presentations http://www.patientsafetyinstitute.ca/en/toolsResources/Pages/You-are-kidding-right-Patients-to-hel with-antimicrobial-resistance-2016-11.aspx
- Campaigns https://www.canada.ca/en/public-health/services/antibiotic-antimicrobial-resistance/true- stories/mary.html
- Briefs to Government http://parlvu.parl.gc.ca/XRender/en/PowerBrowser/PowerBrowserV2/20171107/- 1/28306?Language=English&Stream=Video&useragent=Mozilla/5.0
- Multi-media (video where have your hands been)

Involvement

- Publish https://doi.org/10.1108/IJHG-02-2016-0008
- Citizen voice

Partnership

- CPSI
- Regulatory body: public rep





"Nothing About Me Without Me"

PATIENTS FOR PATIENTS POUR LA PATIENT SAFETY SÉCURITÉ DES PATIENTS CANADA DU CANADA



Organizational level







Membership

- Membership: clear criteria, interview by peers
- Orientation: about patient safety, key stakeholders
- initial
- ongoing

http://www.patientsafetyinstitute.ca/en/About/Progra ms/PPSC/Membership/pages/default.aspx



Patients for Patient Safety Canada Membership Criteria

Interested patients, families and caregivers can apply to become members of PFPSC.

Completed applications will be reviewed by the Membership Group of PFPSC to ensure that individuals seeking membership meet the following criteria:

- Prospective members should support the PFPSC Charter, including our Vision, Mission and
- Prospective members should have:
 - Direct experience with an adverse event or harm as a patient, family member or friend;
 - Significant experience interacting with healthcare providers as a patient or the caregiver of a patient; and/or
 - Experience in working to improve patient safety and/or quality of care¹.
- Prospective members should:
 - Be willing to work locally but also with regional, provincial, national, and international. groups to address patient safety issues;
 - Be prepared to serve on PFPSC committees and work groups;
 - Be willing to work in partnership with governments, healthcare organizations, healthcare providers, and or policy makers to advance patient safety;
 - If able, be willing to tell their own patient safety story publicly and identify its lessons for
 - Be committed to advancing the PFPSC agenda rather than a personal agenda;
 - Declare any potential or perceived conflicts of interest that might interfere with the work or reputation of PFPSC:
 - g. Be prepared to offer a minimum time commitment of 2 hours per month to the work of PFPSC.

See if membership is right for you and what our members do inlease click here to apply





Requests management

- Best fit between patient and initiative
- Initial and on demand support to all parties
- Evaluation

About the requesting organization	
Name of organization and department/ project	
Contact person name, position, email, phone	

About the collaboration	n					
WHY Aim of collaboration	Why is it important to have a patient/family representative contribute to this initiative? (Include outcomes/objectives if known at this time.)					
WHAT	Provide enough information so the patient/family volunteers can understand the type and amount of work required, what their role is, and if specific skills are needed					
WHO	Describe the audience/ customers					
WHEN	Date, time, duration of collaboration					
WHERE	Location					
Classification Highlight the best of the 4 options in each category	Type of participation Speaking engagement (e.g. panel, plenary, video) Committee/ board/ group member Product/ policy design. development or implementation (e.g. strategy, standards, tool. campaign, research) Other	Degree of collaboration Consult (e.g. share experience, provide input via focus group, surveys, etc) Involve (e.g. advisor, influence decisions, priorities) Partner (e.g. co-lead, contribute to direction, decisions and/or resource allocation) Other	bystem level Care delivery organization or system Provincial/territorial Canadian Other			

A few more details:	Yes	No	Details
Has this group worked with a patient representative before?			
Is there a preferred patient representative?			Name(s):
Is a local (e.g. within province) representative a must?			
Is there an honorarium available for the volunteer?			
Confirm expense reimbursement (travel, accommodation, meals)			It is expected to offer reimbursement
By when is a response expected?			Date:
Are supporting documents available (TOR, charter, agenda)?			Attach to email



Partnership outcomes

- 100% of programs developed/ delivered in partnership with patients
- Key corporate functions (CEO, staff recruitment, strategic and operational planning)
- The National Patient Safety Consortium including the Infection Prevention and Control Action Plan

http://www.patientsafetvinstitute.ca/en/About/PatientSafetyForwardWith4/Pages/Infection-Prevention-and-Control.aspx

Patients for Patient Safety Canada PATIENTS FOR PATIENTS POUR LA PATIENT SAFETY SÉCURITÉ DES PATIENTS CANADA DU CANADA



www.patientsforpatientsafety.ca



Service Design: Partnering to prevent harm

Examples - where patients are involved

- Co-designing educational materials and approaches
- Discharge planning processes
- Process improvement teams
- Educate providers

What engagement specialists can do

- Learn about and champion good PE practices
- Build coalitions, seek feedback, get support
- Support patient partners and team members
- Create safe spaces for all

What leaders can do

- Create expectations
- Communicate about patient safety inside and out
 - Provide organizational framework, training and support



Partnering is more than asking

Levels of engagement

Continuum of engagement

Direct care

Organization

- Service Design
- Governance

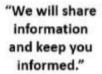
Promise to patient













"We will seek your input and ideas and provide feedback on how it influences decisions."



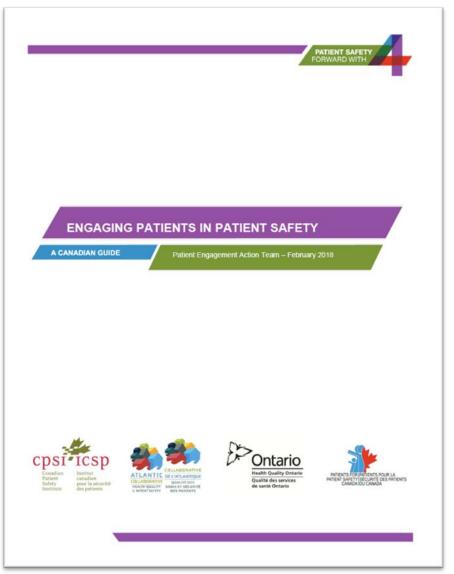
"We will partner with you to address an issue and apply solutions."

Canadian guidance

- To help HCWs, managers, patients and other stakeholders work together effectively to improve patient safety
- 76 pages!
- For all types of individuals
 - HCWs,
 - Managers
 - Patients
 - Families
 - Anyone else

www.patientsafetyinstitute.ca/engagingpatients





Canadian guidance

Components

Evidence-based **GUIDANCE** on:

- Practical patient engagement practices
- Consolidated information, resources, and tools
- Supporting evidence and examples from across Canada
- Experiences from patients and families, providers, and leaders
- Outstanding questions about how to strengthen current approaches
- Strategies and policies to meet standards and organizational practice requirements

www.patientsafetyinstitute.ca/engagingpatients





Patient Engagement in Policy

- Kingston General Hospital
 - 60 patient Experience Advisors
 - 5000 hours of work/year



- Involving patients from the beginning of a project
 - E.g. initiative to reduce specimen collection errors
 - Reduce patient falls
 - Improve HH
 - Improve patient identification



McGill University Health Network

- Patient representatives on committees since 2010
- Patients are members of the quality improvement teams
- Led to co-development of solutions such as whiteboards to improve communication and improved nursing hand-offs
- Overall perceived benefit from staff of getting patient input









- Increase patient and family involvement in:
 - Medication safety
 - Surgical care safety
 - Infection Prevention and Control
 - Patient-provider communication
 - Patient identity
 - Transition of care
 - Family presence



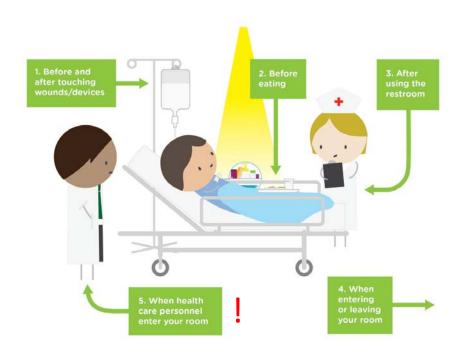
Accrediation Canada Standards – infection prevention and control

- 6.0 The organization engages clients and families in infection prevention and control practices.
 - 6.1 The organization provides clients and families with information about routine practices and additional precautions as appropriate in a format that is easy to understand.
 - 6.2 The organization provides client, families and visitors with access to hand hygiene resources and PPE based on risk of transmission of microorganisms.
- 14.3 The organization seeks input from staff, services providers, volunteers, and clients and families on components of the IPAC program.
 - Surveys, focus groups, interviews, meetings, etc.
- 14.5 The organization shares evaluation results with staff, service providers, volunteers, clients, and families.









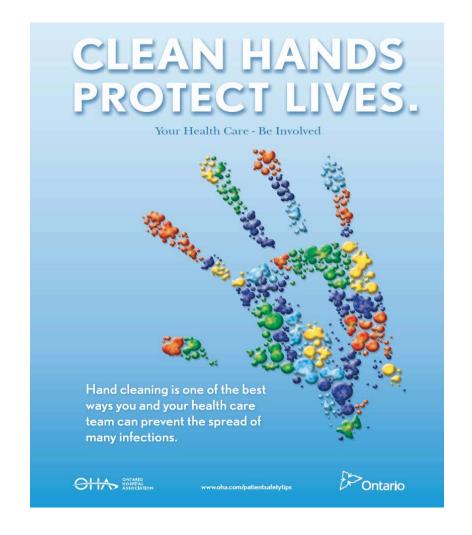
4 Moments

5 Moments



 Reframing the message to include patient HH

https://www.oha.com/Documents/English%20-%20Poster.pdf







HH technique for patients



When you come to a hospital, hand cleaning is your job too.

Whether you are a patient or a visitor, do your part to prevent germs from spreading.

Think about the times that you would clean your hands at home, such as:

- · Before and after eating
- · After using the washroom
- · After sneezing or coughing

Make sure you clean your hands at these times and even more often when you are in the hospital.



There are two ways to clean hands.

You can clean your hands by using:

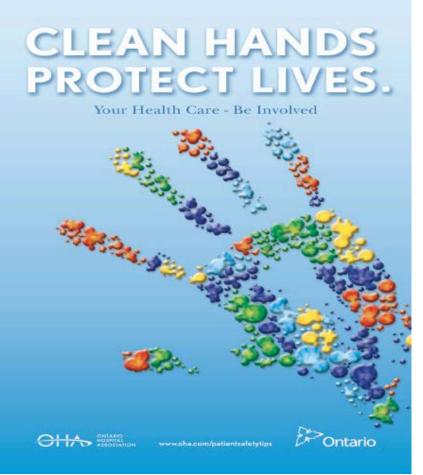
- Hand rub provided by the hospital
- Soap and water using the soap in the dispensers at the sink

After cleaning, make sure your hands are dry before you touch anything. This is very important when you use the hand rub.

Visitors who do not feel well should not come to see you.

When you are in the hospital, don't be shy about telling visitors to stay home if they are not feeling well. That's another big way we can keep infections from spreading in the hospital.





HH education



Hand cleaning is one of the best ways you and your health care team can prevent infections from spreading.

Did you know that the main way germs can spread is by hand?

Keeping hands clean is the best thing you and your health care team can do to prevent infections from spreading to others. That's so important in hospitals and other places where the risk of infection is high.



In Canada, one in nine patients gets an infection while in hospital.

Sometimes patients get infections when they are in the hospital.

Thousands of times a day, members of your health care team handle things that could have harmful germs. Without good hand cleaning, these germs can spread to patients and cause infection.

Your health care team works hard to keep their hands clean.

Your health care team plays a big role in preventing the spread of infection. They are committed to giving you clean, safe care.



There are important moments when your health care team should clean their hands, such as:

- After touching objects in a patient's room and going to another room
- Before and after treating patients
- Before and after special procedures, such as giving a needle
- After contact with body fluids, such as blood or urine

When should your health care team wear gloves?

Wearing gloves does not prevent germs from spreading from patient to patient. So, don't expect your health care team to always wear gloves. But do expect them to clean their hands at the right time and in the right way.

There are times when your health care team should wear gloves. For instance, they wear gloves when they are treating open wounds or taking blood.

They may also wear gloves when taking care of a patient in isolation (in a room by themselves). These patients need special care and protection. If you are visiting a patient in isolation, you may also have to wear special protection, such as gloves, a mask, or a gown.

Once your health care team is finished with a task, they will throw the gloves away. They clean their hands carefully both before and after using the gloves.

HH education



Measurement of Patient Hand Hygiene in Multiorgan Transplant Units Using a Novel Technology: An Observational Study

Jocelyn A. Srigley, MD, MSc;1 Colin D. Furness, PhD, MPH;2 Michael Gardam, MD, MSc3

- 279 patients, Canadian hospital
- Automatic electronic monitoring of patient HH behavior

Patient hand hygiene compliance

Indication	Compliance
Mealtime	39.1%
Upon room entry	2.9%
Upon room exit	6.7%
After bathroom visit	29.7%



Measurement of Patient Hand Hygiene in Multiorgan Transplant Units Using a Novel Technology: An Observational Study

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TABLE 2. Descriptive Statistics and Hand Hygiene Rates by Sex for Bathroom Visits

Variable	All patients	Females	Males
No.	222	96	126
No. of bathroom visits	12,649	6,428	6,221
Proportion of visits associated with hand hygiene, %	29.7	35.6 ^a	23.6ª
Proportion of soap use (vs ABHR), %	92.0	94.6 ^b	87.9 ^b

NOTE. ABHR, alcohol-based hand rub.

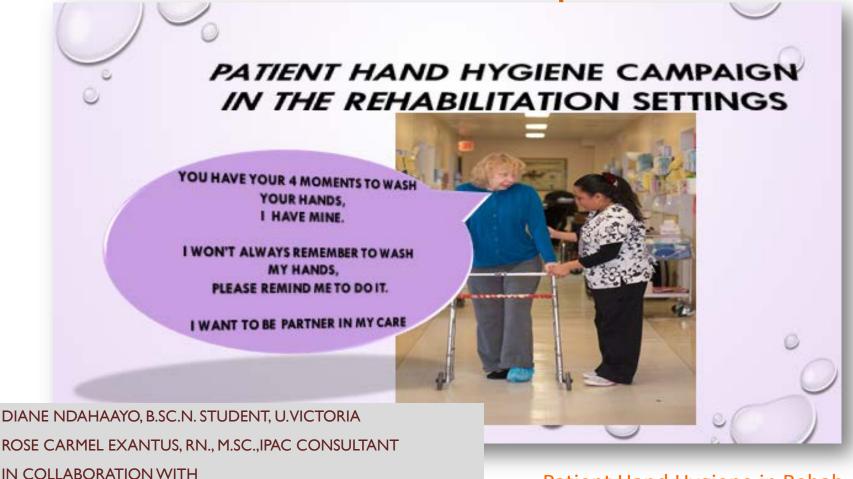




 $^{^{\}rm a}$ P < .001.

 $^{^{\}rm b}$ P < .001.

Jewish General Hospital



Patient Hand Hygiene in Rehab



SABINE CAINER, B.SC., IPAC CONSULTANT

GOAL OF REHABILITATION SETTINGS

- ☐ Relieve disease process (post acute care)
- ☐ Restore function
- Reestablish self-care/independence
- ☐ Help patient to return back into the community

(APIC, 2014)





CHALLENGES in REHAB

Administrative and organizational measures

- Patients interact with many healthcare personnel throughout the day.
- Healthcare personnel are in contact with multiple patients that can be carrier of antibiotics resistant organisms (ARO), which significantly increase the chances for crosscontamination.
- Multiple colonized patients with different bacteria (VRE, CRO/CRE, MRSA, ESBL etc.) on the same unit.
- ☐ Can't isolate the patients because they need rehabilitation time.
- Multiple referring hospitals and multiple follow up in different hospital or clinics

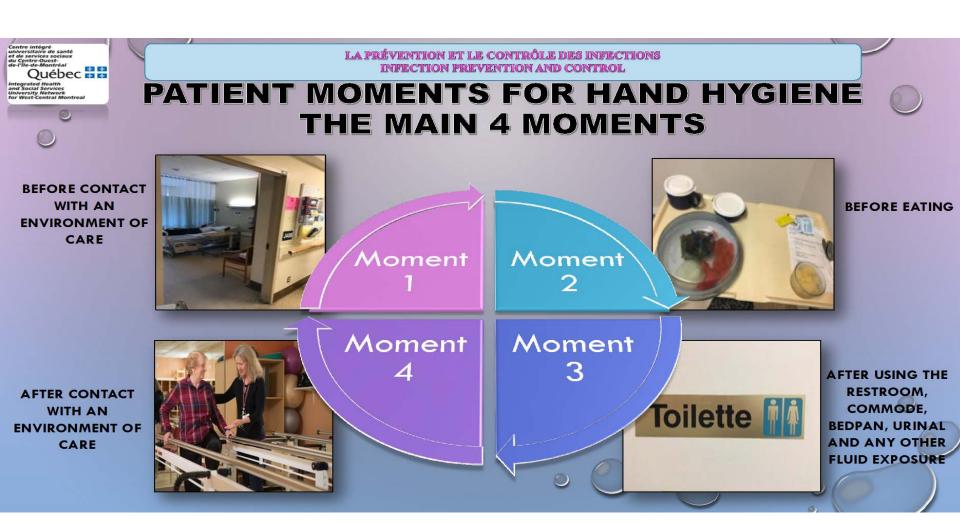
APIC, 2014



- Many shared areas, as:
 - Room (2-4 beds/rooms)
 - Common bathroom and showers
 - Lounges
 - Rehabilitation department
- ☐ Limited space (room, rehab department)
- Not adapted for caring multiple colonized patients
- Limited equipment (BP machine, parallele bar, steps, walkers, commode etc.)
- Equipment not always cleanable

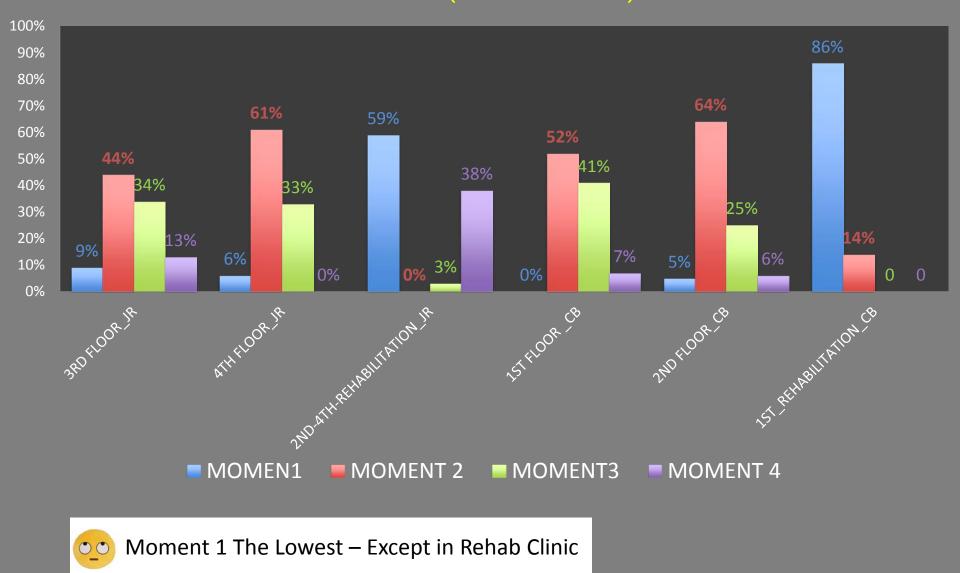
(CBH and JRH data)







RESULTS OF PATIENTS HAND HYGIENE AT J-RICHARDSON AND C-BOOTH (BY MOMENT)



BARRIERS TO PATIENT HAND HYGIENEquestionnaire

PATIENT RELATED

- Inaccessibility to hand hygiene products
- heavy patients who need assistance
- Ignorance, laziness

STAFF RELATED

- Heavy work load- patients who need assist and reminding
- Lack of enough staff
- Limited time with too many patients to be cared for
- Staff unable to monitor the patients all the time





Patient Engagement in Reminding Staff to perform HH

The Swiss Experience







Si vous êtes suivi par un professionnel de la santé, n'hésitez pas à lui dtemander de se nettoyer les mains avant de vous examiner.

Les patients, les membres de leur famille et les travailleurs de la santé ont tous un rôle à jouer dans la réduction des infections nosocomiales. En tant que patient, en plus de veiller à vous laver souvent les mains, n'hésitez pas à demander à votre professionnel de la santé de faire de même avant de vous prodiguer des soins. Ensemble, nous pouvons changer les choses et réduire les infections en adoptant pour de bon une hygiène des mains optimale.



Patients as reminders





Andrew James Stewardson*, Hugo Sax*, Angèle Gayet-Ageron, Sylvie Touveneau, Yves Longtin, Walter Zinga, Didier Pittet

Summary

Background Hand hygiene compliance of health-care workers remains suboptimal despite standard multimodal promotion, and evidence for the effectiveness of novel interventions is urgently needed. We aimed to assess the effect of enhanced performance feedback and patient participation on hand hygiene compliance in the setting of multimodal promotion.

Lancet Infect Dis 2016

Published Online September 2, 2016 http://dx.doi.org/10.1016/ S1473-3099(16)30256-0

The Swiss Experience

 Large scale study to evaluate efficacy of patient reminders to improve HH





Andrew James Stewardson*, Hugo Sax*, Angèle Gayet-Ageron, Sylvie Touveneau, Yves Longtin, Walter Zinga, Didier Pittet

Summary

Background Hand hygiene compliance of health-care workers remains suboptimal despite standard multimodal promotion, and evidence for the effectiveness of novel interventions is urgently needed. We aimed to assess the effect of enhanced performance feedback and patient participation on hand hygiene compliance in the setting of multimodal promotion.

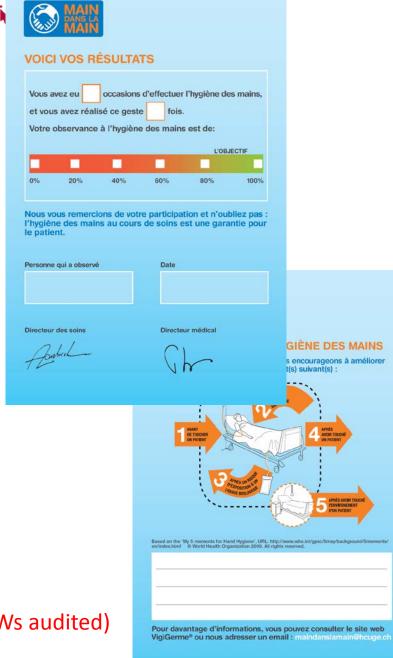
Lancet Infect Dis 2016

Published Online September 2, 2016 http://dx.doi.org/10.1016/ S1473-3099(16)30256-0

- Single-center Cluster RCT
- 3 groups:
 - Control (n=21 wards)
 - ② Enhanced Performance Feedback (EPF) (n=24)
 - \bigcirc EPF + <u>PP</u> (n=22)
- 15 months baseline and 2 year intervention



- Enhanced Performance Feedback
 - Immediate Feedback on HH compliance at the end of each session to HCWs present on ward
 - Individualized report cards



HUGW W

611 cards distributed (34% of all HCWs audited)



- Enhanced Performance Feedback
 - Immediate Feedback on HH compliance at the end of each session to HCWs present on ward
 - Individualized report cards
 - Reports and Posters q 3 months
 - Reports emailed to head nurses and senior medical staff











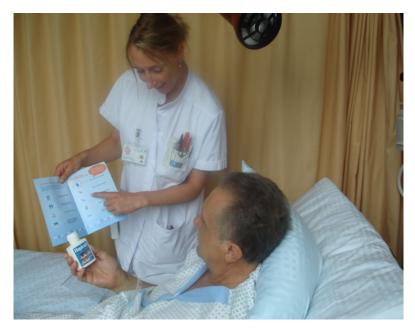


Patient Participation

- Emphasizes HCW-Patient partnership
- Welcome pack on admission
 - Brochure
 - ABHRS bottle
- Patient HH indications
- Patient Education by Ward Staff
 - About HCW HH and Patient HH
- Patients invited to remind Staff about HH
- HCWs invited to remind Patients about HH

Patient indications for hand hygiene

- 1. Before and after eating
- 2. After going to the toilet
- After blowing your nose
- 4. When you leave and return to your space



33% of patients received a welcome pack





Patient Participation

- Posters displayed promoting PP
- HCWs invited to wear promotional badges
- Information sessions to HCWs at beginning of study
- HCWs determined if patient was "eligible" to PP
 - Excluded for the duration if incapacity



VOS INDICATIONS À L'HYGIÈNE DES MAINS

Pour vous protéger contre les infections, pratiquez l'hygiène des mains en les frictionnant avec une solution hydro-alcoolique ou en les lavant à l'eau et au savon.



NOS INDICATIONS À L'HYGIÈNE DES MAINS

Si l'un d'entre nous oublie l'hygiène des mains avant de vous toucher, dites-lui l



Avant de toucher le patient



Avant un geste aseptique



Après un contact avec des liquides biologiques



Après avoir touché le patient



Après avoir touché l'environnement du patient





- RESULTS

- 1367 Observation sessions
- 12,579 HH opportunities found
- Inter-observer agreement: 0.94
- Median No. observed HCWs per session: 3 (IQR, 2-4)





Overall HH

Increased HH compliance in all 3 groups (p<0.0001)

No group met the a priori threshold for clinical significance of 15% increase

	Number of hand hygiene actions	Number of hand hygiene opportunities	Mean compliance* (95% CI)	Absolute change*† (95% CI)	Odds ratio* (95% CI)
Overall hand hyg	iene				
Control					
Baseline	935	1430	66% (62-70)	-	1
Intervention	1631	2239	73% (70-77)	7% (4–10)	1.41 (1.21-1.63)
Follow-up	631	949	70% (66-75)	4% (0-8)	1-21 (1-00-1-47)
Enhanced perform	nance feedback				
Baseline	1040	1629	65% (62-69)		3% 🛧
Intervention	2160	2920	75% (72-77)	10% (7-13)	Attributable
Follow-up	1356	1956	72% (68-75)	7% (4–10)	P=0.19
Enhanced performance feedback plus patient participation			N.S.		
Baseline	1024	1594	66% (62-70)	₩	4% ↑
Intervention	2107	2767	77% (74-80)	11% (8–14)	Attributable
Follow-up	1485	2100	72% (69–76)	6% (4–10)	P=0.048

F/Up: 2 year period post intervention





Moment 1 only

Increased M1 HH compliance in all 3 groups (p<0.0001)

Increase PFE+PP significantly superior to control arm (but only 10% increase)

	Number of hand hygiene actions	Number of hand hygiene opportunities	Mean compliance* (95% CI)	Absolute change*† (95% CI)	Odds ratio* (95% CI)	
WHO Moment 1-	WHO Moment 1—before patient contact					
Control						
Baseline	216	424	54% (46-61)	-	1	
Intervention	355	604	61% (54-67)	7% (1–14)	1.34 (1.03-1.75)	
Follow-up	135	236	63% (54-71)	9% (0-17)	1.45 (1.02-2.06)	
Enhanced perform	ance feedback					
Baseline	244	494	51% (44–58)	-	7%	
Intervention	473	750	65% (59-71)	14% (8-20)	Attributable	
Follow-up	301	481	65% (58-71)	14% (9-20)	P=0.099	
Enhanced perform	ance feedback plus	patient participati	on	N.S.		
Baseline	199	432	48% (41-55)	V	10%	
Intervention	470	743	65% (59-70)	17% (11-23)	Attributable	
Follow-up	325	543	62% (56-68)	14% (7-20)	P=0.035	

^{*}Obtained from a generalised linear mixed-effects model with ward included as a random effect. †Absolute percentage point difference between baseline and intervention period, and from baseline to follow-up.

Table 2: Hand hygiene compliance overall and with WHO Moment 1





"Observers witnessed <u>no</u> episodes of patients reminding HCWs to perform HH during HH opportunities before patient contact"





Monthly mean requisition for ABHRS (L per 1000 patient-days)

	Baseline	Intervention
Control group	31.8	27.8
Enhanced feedback	30.4	29.8
Enhanced feedback and PP	27.9	30.5

Requisition was high at baseline b/c H1N1 pandemic (2009)

	Coefficient (95% Cl), L per 1000 patient-days	p value
Change in monthly requisition of alcohol-based handrub durin	g the intervention period	
Control	0-0003 (-0-0064 to 0-0070)	0-93
Enhanced performance feedback	0-0025 (-0-0040 to 0-0091)	0-45
Enhanced performance feedback plus patient participation	0-0079 (0-00013 to 0-0140)	0-02
Change in monthly requisition of alcohol-based handrub expla	ined by the interventions	4
Enhanced performance feedback alone vs control	0-0022 (-0-0025 to 0-0070)	0-35
Enhanced performance feedback plus patient participation vi control	o-0076 (0-0028 to 0-0123)	0-002
Patient participation vs enhanced performance feedback	0-0053 (0-0008 to 0-0099)	0-02
Change in monthly requisition of alcohol-based handrub between baseline and intervention periods*	-0-0014 (-0-0057 to 0-003)	0-54
*Centred on the start of the intervention period.		



Help yourself, help others!





Help yourslef, help others

 A single patient enquiry can induce long-lasting change in HCW behaviour

 –81% of HCWs reminded to perform hand hygiene by a patient were more careful about it during subsequent patient care activities



Patient as Staff HH Observers



Compliance measurement



Required Organizational Practice

Standardized by WHO



Hand Hygiene Monitoring

- Main strategies
 - Self-report
 - Direct observation
 - Usually trained HCWs (The Gold Standard)
 - Indirect methods
 - Product consumption
 - Electronic monitoring



DIRECT OBSERVATIONS

Observations made by trained nurses who scout wards to (1) identify HH opportunity and (2) whether the HCW performed HH as indicated

PROs	CONs
Standardized Methodology	Labor-intensive
Distinguishes among HH indications	Requires training and certification
Recognizes the "patient zone"	Limited scaling-up potential
Can collect additional information (type of HCW, glove use, time of day, etc.)	Impossible in some settings (outpatient, homecare, "drawn curtain")
	Disruptive to care
	Hawthorne Effect





Impact of covert vs. overt observers

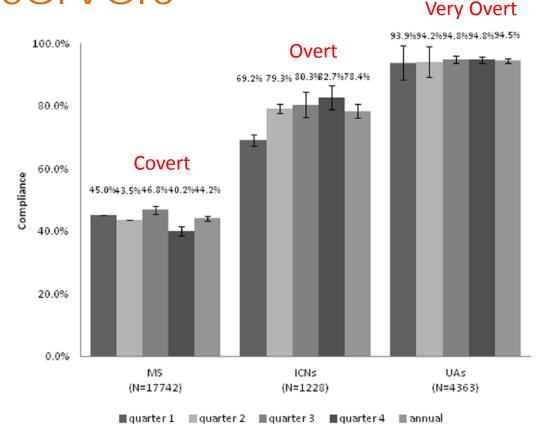


Figure 1. Hand hygiene compliance rates by type of observers and quarter. The compliance rates observed by medical students (MS) were significantly lower than those by infection control nurses (ICNs) and unit HH ambassadors (UAs) in each quarter (all the *P* value <0.001). The numbers in parenthesis represented hand hygiene opportunities observed. T-bar represented one standard deviation. doi:10.1371/journal.pone.0053746.g001



Electronic Monitoring





INFECTION CONTROL & HOSPITAL EPIDEMIOLOGY

ORIGINAL ARTICLE

Quantifying the Hawthorne Effect in Hand Hygiene Compliance Through Comparing Direct Observation With Automated Hand Hygiene Monitoring

Stefan Hagel, MD;^{1,2} Jana Reischke;¹ Miriam Kesselmeier, Dipl Math;^{2,3} Johannes Winning, MD;⁴ Petra Gastmeier, MD;⁵ Frank M. Brunkhorst, MD;^{2,4,6,7} André Scherag;^{2,3} Mathias W. Pletz, MD¹





Assessing concordance

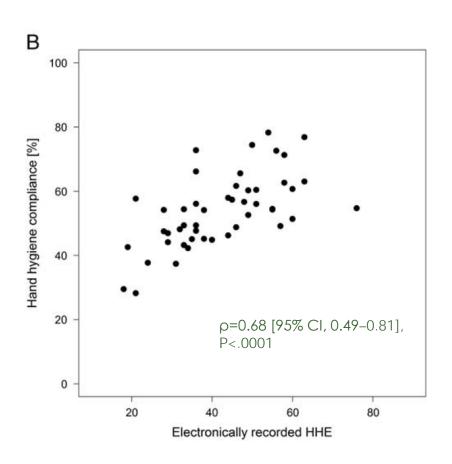
- Comparing HH compliance by direct observation and electronic monitoring
- Comparator: HH Episodes per hour
- Duration observation:
 - 96 h direct + electronic
 - 384 h electronic only







Concordance during double observation



N=2,029 observations (96 h)

Compliance = 51% (95% CI, 49%–53%)

HH activity = 21 HH/h

FIGURE 1. *A*, Hand hygiene compliance versus directly recorded hand hygiene events (HHEs) during the 2-hour direct observation period. *B*, Hand hygiene compliance versus electronically recorded HHEs during the 2-hour direct observation period.

Hagel F et al. Infect Control Hosp Epidemiol 2015;00(0):1–6



Estimating Hawthorne Effect

RESULTS

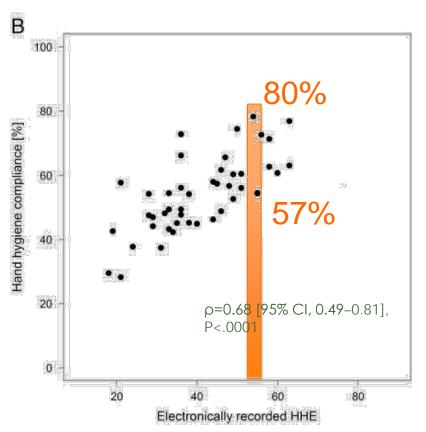
– HH activity in PRESENCE of observer:21 HH Episodes/ h

– HH activity WITHOUT observer :8 HH Episodes/ h





Concordance dual observation (direct and electronic)



55 HH per hour: good or bad compliance?

FIGURE 1. *A*, Hand hygiene compliance versus directly recorded hand hygiene events (HHEs) during the 2-hour direct observation period. *B*, Hand hygiene compliance versus electronically recorded HHEs during the 2-hour direct observation period.

Hagel F et al. Infect Control Hosp Epidemiol 2015;00(0):1–6



So correlation is not perfect between electronic and direct observation by certified professionals...

... But the presence of certified professionals skews results

Could we perform "valid" observations while

limiting the Hawthorne effect?



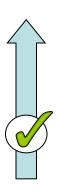


Patient Participation in their care



Healing/ Care process

Diagnosis



Patient Participation

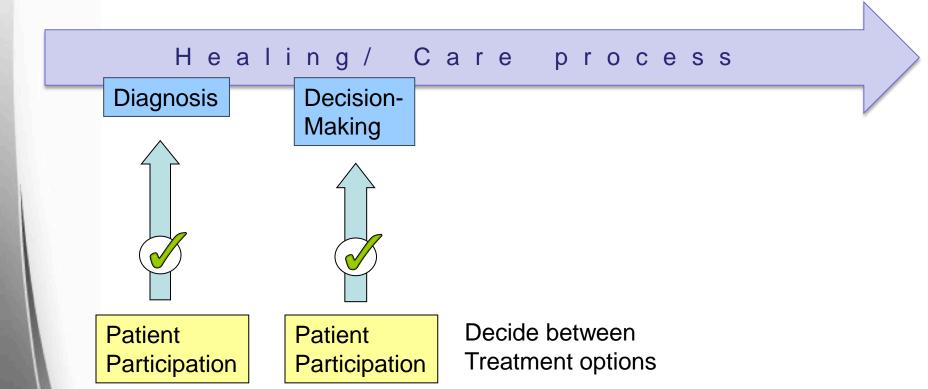
Explain symptoms
Undergo physical exam
Undergo diagnostic tests









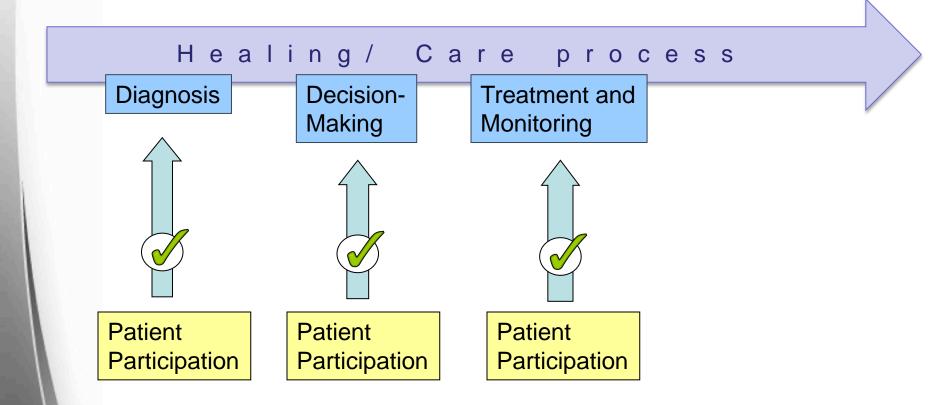










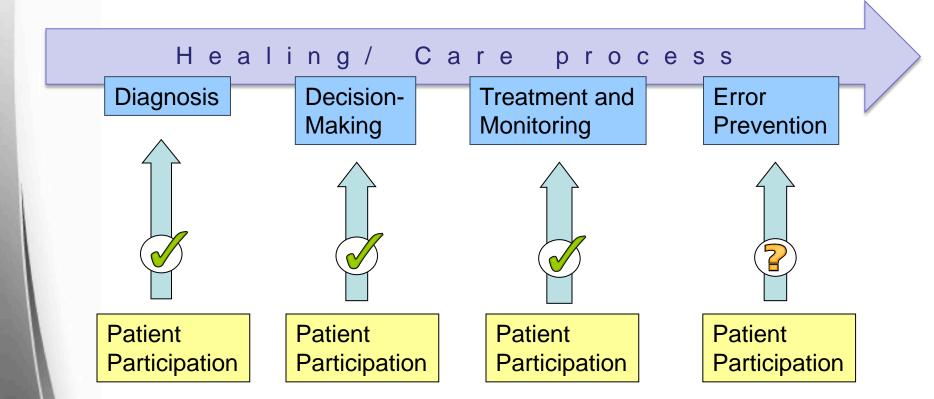




















Patient Participation to Prevent Medical Errors

- - Heavy media coverage
 - 91% believe that patients can help prevent medical errors
 - 98% believe that hospitals should train patients how to prevent errors



Patient Participation in the Evaluation of the quality of care

Already accepted in the form of Patient Satisfaction Surveys

- 1. Hampton T. 7-country survey of patients: US adults most unhappy with health care. Jama 2007; 298: 2730-1
- 2. Howell E et al. Comparison of patients' assessments of the quality of stroke care with audit findings. Qual Saf Health Care 2007; 16: 450-5
- 3. Durieux P et al. Comparison of health care professionals' self-assessments of standards of care and patients' opinions on the care they received in hospital: observational study. Qual Saf Health Care 2004; 13: 198-202
- 4. Idvall E et al. Patient and nurse assessment of quality of care in postoperative pain management. Qual Saf Health Care 2002; 11: 327-34





Patient Participation in the Evaluation of the quality of care

- Limitations of patient satisfaction surveys
 - Reliability of patient assessment?
 - Patients not trained
 - Limited medical knowledge
 - Retrospective evaluation
 - Capacity to assess outcomes other than "satisfaction"?





Research



Patients' own assessments of quality of primary care compared with objective records based measures of technical quality of care: cross sectional study

Mala Rao, Aileen Clarke, Colin Sanderson, Richard Hammersley

- Relationship between patient assessment of technical quality of care (medical knowledge, thoroughness of physical examination, arrangement of tests when needed, making the right diagnosis, and prescribing the right treatment)
 and
- 3 indicators of technical quality:
 - 1. Monitoring of BP
 - Control of BP
 - 3. Influenza vaccination coverage of patients

23 clinical practices (3487 patients) evaluated

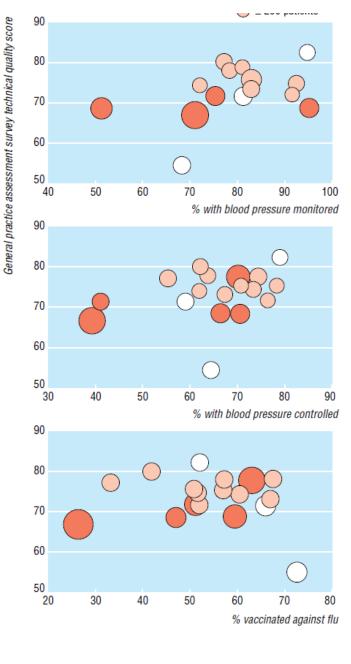


No relationship between patient assessment of the quality of care and 3 indicators of quality

> < 150 patients</p> 150-199 patients ≥ 200 patients

Scatter plots for general practice assessment survey scores for technical quality compared with three records based measures. Size of marker indicates confidence interval around survey score estimate





Annals of Internal Medicine

IMPROVING PATIENT CARE

Patients' Global Ratings of Their Health Care Are Not Associated with the Technical Quality of Their Care

John T. Chang, MD, MPH; Ron D. Hays, PhD; Paul G. Shekelle, MD, PhD; Catherine H. MacLean, MD, PhD; David H. Solomon, MD; David B. Reuben, MD; Carol P. Roth, RN, MPH; Caren J. Kamberg, MSPH; John Adams, PhD; Roy T. Young, MD; and Nell S. Wenger, MD, MPH

Background: Patient global ratings of care are commonly used to assess health care. However, the extent to which these assessments of care are related to the technical quality of care received is not well understood.

Objective: To investigate the relationship between patient-reported global ratings of health care and the quality of providers' communication and technical quality of care.

Design: Observational cohort study.

Setting: 2 managed care organizations.

Patients: Vulnerable older patients identified by brief interviews of a random sample of community-dwelling adults 65 years of age or older who received care in 2 managed care organizations during a 13-month period.

Measurements: Survey questions from the second stage of the Consumer Assessment of Healthcare Providers and Systems program were used to determine patients' global rating of health care and provider communication. A set of 236 quality indicators, defined by the Assessing Care of Vulnerable Elders project, were used

to measure technical quality of care given for 22 clinical conditions; 207 quality indicators were evaluated by using data from chart abstraction or patient interview.

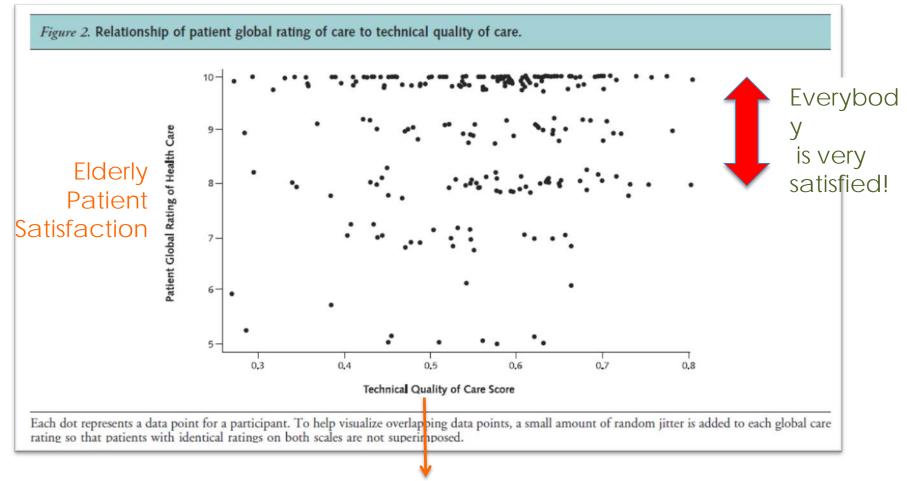
Results: Data on the global rating item, communication scale, and technical quality of care score were available for 236 vulnerable older patients. In a multivariate logistic regression model that included patient and clinical factors, better communication was associated with higher global ratings of health care. Technical quality of care was not significantly associated with the global rating of care.

Limitations: Findings were limited to vulnerable elders who were enrolled in managed care organizations and may not be generalizable to other age groups or types of insurance coverage.

Conclusions: Vulnerable elders' global ratings of care should not be used as a marker of technical quality of care. Assessments of quality of care should include both patient evaluations and independent assessments of technical quality.

Ann Intern Med. 2006;144:665-672. For author affiliations, see end of text. www.annals.org





236 objective quality indicators Assessing Care of Vulnerable Elders

Chang JT *Ann Intern Med.* 2006;144:665-672.





Patient evaluation of quality of care

- Retrospective evaluation of technical quality of care = not reliable
 - Reasons
 - Lack of training?
 - Lack of expertise?
 - Patient do not pay attention
 - Easy to miss something you are not looking for
 - Assume it is correctly done
 - Delay between events and survey/ recall bias?



HOWEVER

We must not conclude that patients are too weak and vulnerable



Some patients MUST BE ABLE to evaluate care process!



We must stop seeing our patients as weak and vulnerable



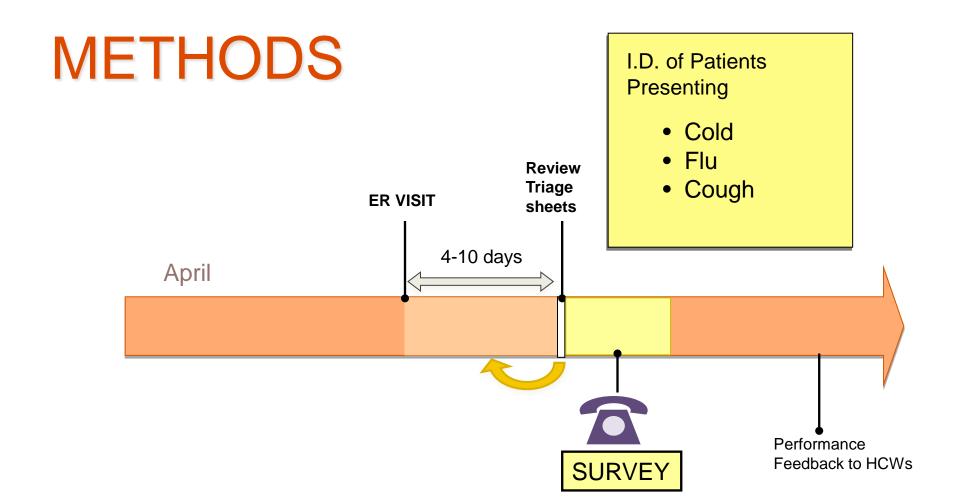
Patients CAN evaluate care process!



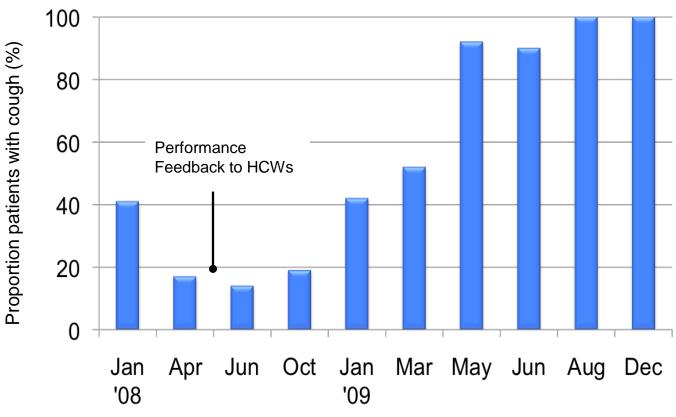
Assessment of Compliance
with
Cough Etiquette
in the
Emergency Room
Using a
Patient-Based Survey







Proportion who received Cough Etiquette Kit







Professional organizations and patient involvement in hand hygiene evaluation



MEASURING HAND HYGIENE ADHERENCE: **OVERCOMING** THE CHALLENGES

This monograph was authored by The Joint Commission in collaboration with the following organizations:

- The Association for Professionals in Infection Control and Epidemiology, Inc.
- The Centers for Disease Control and Prevention
- The Institute for Healthcare Improvement
- The National Foundation for Infectious Diseases
- The Society for Healthcare Epidemiology of America
- The World Health Organization World Alliance for Patient Safety

This monograph was supported in part by an unrestricted educational grant provided by GOJO Industries, Inc., Akron, Ohio















Patients

In some organizations, patients are asked to provide information on health care worker hand hygiene. (Using patients as observers is not the same as using patients to remind health care workers to perform hand hygiene, which is a commonly used strategy for improvement; that strategy is described in more detail in Chapter 9.) Using patients as observers may be most effective in settings such as ambulatory care, in which patients are relatively healthy and where independent observers are rarely used. Keep in mind that staff need to know they should perform hand hygiene in front of a patient; the patient will not see hands being cleansed if it is done outside a patient's field of vision.

ACCREDITATION CANADA



• Client and Family-centered care requirements:

- Partner with patients and families in planning, assessing, and delivering their care
- Include patient partners on advisory boards and planning groups
- Monitor and evaluate services and quality with input from patients and families



Accreditation Canada

Standard 4.5

- The organization monitors compliance with IPC policies and procedures and makes improvements to the policies and procedures and/or education program based on the results
- Observation can be done by a trained observer within an organization, or by patients/families within an organization or in the community
- Organizations providing services in client homes who find direct observation not possible can consider alternative methods, such as Questions on client satisfactions surveys that ask about staff's hand hygiene compliance.

Standard 8.2

 Hospitals must implement processes for clients and families to report non-compliance with IPC policies and Procedures



On what evidence are these recommendations based?





Patient evaluation of Hand Hygiene compliance

- Semmelweis Hand Hygiene Project
 - Published as abstract only (AJIC 2008)
 - Tripler Medical Army Center, Honolulu, HI
 - Single Hospital outpatient clinic
 - Intervention:
 - Patients handed a 3x5" card upon registering
 - Patients invited to fill out and drop in designated receptacle

 Yamada SM AJIC 2008:36(5);E114-E115



Patient information card

Be Involved in Your Care!

- Using soap and water or alcohol rubs is one of the ways that helps us to prevent the spread of germs.
- Please observe our health care provider to see if they wash or use the alcohol rub before providing your care.
- Take an active part in your care by completing the reverse side of this card and placing it in the receptacle in the reception area.

Name of clinic: Date:
Type of healthcare worker
Physician □
Nurse
Other
Performed Hand Hygiene? Yes □ No □

Yamada SM AJIC 2008:36(5);E114-E115



Semmelweis Hand Hygiene Project

Table 1. Number and Percent Observation Tools Returned

Patient Surveys	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
# Distributed	NA	NDC	150	NDC	NDC	348	331	298	NDC	365
# Returned	65	NDC	65	NDC	NDC	212	165	165	NDC	272
% Return	NA	NDC	43.3%	NDC	NDC	60.9%	49.8%	55.4%	NDC	74.5%

NA = Not available

NDC = No Data Collection

Overall monthly compliance for all providers varied from 87% to 99%.

Table 2. Monthly Compliance Data by Provider

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Physician	99.2%	NDC	92.4%	NDC	NDC	91.3%	91.4%	94.4%	NDC	96.9%
Nurse	100.0%	NDC	100%	NDC	NDC	100%	90.0%	100%	NDC	94.4%
Other	100.0%	NDC	100%	NDC	NDC	96.6%	80.0%	90.0%	NDC	100%
Overall	99.7%	NDC	97.5%	NDC	NDC	96.0%	87.1%	94.8%	NDC	97.1%

NDC = No Data Collection



The Joint Commission Journal on Quality and Patient Safety

National Patient Safety Goals

Engaging the Patient as Observer to Promote Hand Hygiene Compliance in Ambulatory Care

Mark J. Bittle, Dr.P.H., M.B.A.; Suzanne LaMarche, M.B.A.

- Johns Hopkins Hospital
- Switch in HH policy:
 - HH upon entering and leaving patient room
- Baseline HH compliance rate (trained nurses):
 - 68% (range, 63-78%)
- Need: extend compliance to outpatient clinics

Bittle MJ et al. Jt Comm J Qual Patient Saf. 2009;35(10):519-25.



The Joint Commission Journal on Quality and Patient Safety

National Patient Safety Goals

Engaging the Patient as Observer to Promote Hand Hygiene Compliance in Ambulatory Care

Mark J. Bittle, Dr.P.H., M.B.A.; Suzanne LaMarche, M.B.A.

Methods

- Patients recruited upon registering at outpatient clinic
- If patient accepts
 - Scoring card (yellow) + pencil
- Patient drops card in ballot box upon leaving clinic





JOIN	EDICINE	be a partner in your health care:
BE A PARTNER IN	YOUR HEALTHCARE	
Clinic		> Our goal is to provide you with safe, high
Date		quality healthcare. We welcome any additional comments or suggestions.
Healthcare Worker	Performed hand hygiene	> Using soap & water or alcohol rubs (such as purell) helps to prevent the spread of germs
"Engaging the	patient to report on h	nand hygiene compliance was found to
be efficient an	nd acceptable to patien	nts and providers, and the results of
the observation	ons were representativ	ve of actual provider behavior."
	No Unsure	be a partner in your nealth care by complet-
Comments:	_ clisure	ing the reverse side of this card and placing in
		receptacle in the reception area.

* The card is issued to the patient at check-in. The patient receives a small pencil to complete the card and places the card in a yellow drop box on leaving the clinical practice.



The Joint Commission Journal on Quality and Patient Safety

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Engaging the Patient as Observer to Promote Hand Hygiene Compliance in Ambulatory Care

Mark J. Bittle, Dr.P.H., M.B.A.; Suzanne LaMarche, M.B.A.

Results

- Number enrolled patients: ?
- Response rate: 22% (range, 12-77%)
- Observed compliance: 88%
- Validation of accuracy of observation (n=65)
 - Independent observer in room
 - Concordance: 100%



The Joint Commission Journal on Quality and Patient Safety

National Patient Safety Goals

Engaging the Patient as Observer to Promote Hand Hygiene Compliance in Ambulatory Care

Mark J. Bittle, Dr.P.H., M.B.A.; Suzanne LaMarche, M.B.A.

Number of patients enrolled?

Ethical approval?



Women's College Hospital

- Pilot project,
 10 months
- Outpatient clinics
- Survey card handed upon registration
- " A great tool for keeping up with HH routine" a physician



Healthcare	Cleaned hands before				
provider	Not	Yes			
	applicable				
☐ Staff physician					
☐ Resident					
□ Nurse					

We always welcome your fe

Comments:

Please drop off your completed survey car the receptionist.

Thank you!



BE A PARTNER IN YOUR HEALTHCARE!

Background:

- At Women's College Hospital, our goal is to provide you with safe and high quality healthcare.
- We use soap and water or hand sanitizer to clean our hands and help prevent the spread of germs.
- Be a partner in your healthcare and let us know how well we are doing.

Instructions:

- Please observe your healthcare providers while you are in clinic today to see if they are cleaning their hands <u>before</u> <u>physical contact with you</u>.
- Complete the reverse side of this card and drop it off in the drop box near the receptionist.



Women's College Hospital

- Direct observation is challenging in outpatient setting
- 11-month pilot project in ambulatory care clinics at the Women's College Hospital (Ontario, Canada)
- 75% (381/507) cards returned
- 97% hand hygiene compliance before direct contact with a patient
- 87% concordance between patients & nurse auditor

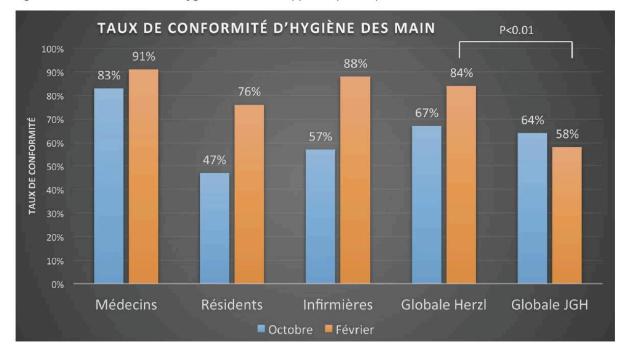


Le-Abuyen et al. American Journal of Infection Control. 2014;42:439.



Jewish General Hospital

Figure 1: Taux de conformité d'hygiène des mains rapportés par les patients.



At the request of Fam Medicine Outpatient Clinic
Patient invited to report on staff HH practice
Reported whether HCW performed HH at least once
2 audits and performance feedback
54% participation rate
Significant increase in HH compliance



SOYEZ UN PARTENAIRE DANS VOTRE SANTÉ! BE A PARTNER IN YOUR HEALTHCARE!



SONDAGE SUR L'HYGIÈNE DES MAINS HAND HYGIENE SURVEY

SVP déposez ce sondage dans la boîte de collection.

Instructions:

Please observe your healthcare providers while you are in consultation today to see if they are cleaning their hands at least once during that time.

Complete this survey and drop it off in the drop box at the end of the corridor or team window.

Please drop off your completed survey in the drop box.

Healthcare Provider/	Cleaned their hands during the consultation (V) A lavé ses mains (V)									
Professionnel de soins	N/A	Yes/Oui	No/Non	Don't Know / Ne sais pas						
Staff physician/ Médecin										
Resident	0	0	0	0						
Nurse/Infirmière										

MERCI / THANK YOU

Patient Involvement in HH observation

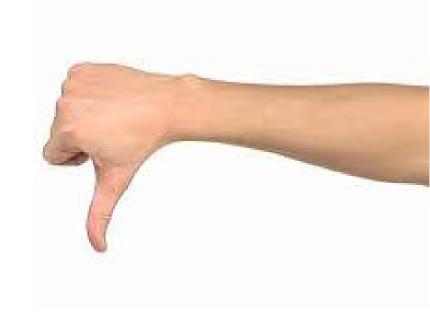
- Logical step in the involvement of patients
- Recommended by many organizations (CDC, Accreditation Canada)
- However, many questions remain unanswered:
 - Reliability, Validity
 - Patient acceptance
 - HCW perception
 - Impact on patient-HCW relationship
 - Support from organizations
 - Ethical considerations





Risks and Benefits

- Potential disadvantages the patient's perspective
 - Could cause anxiety to patients if they witness suboptimal quality of care
 - Could modify patient-caregiver relationship negatively
 - Relationship could become more confrontational
 - Once trained, a patient cannot be "detrained"
 - Possible bias:
 - Desire to please HCW/desire to take "revenge"
 - Fear of reprisals
 - Places more responsibility onto vulnerable patients
 - Share responsibility in case of adverse event?





Risks and Benefits

- Potential disadvantages the HCW's perspective
 - Could be victim of bad observations or bad observers
 - Could be perceived as healthcare institutions asking patients to "work" for free
 - Unions could be hostile.
 - Fear of lawsuits and bad publicity
 - Health institutions could lose control over the dissemination of results
 - In case of excellent compliance, this could help boost the institution's image. However, this could have a negative impact if patients observe sub-standard practices.



Ethical considerations

Have been almost entirely overlooked

 Even though the proposed project transforms a >2000 year-old contract between patients and HCWs

NOT trivial considerations!



Patient Observer Study

(POST)

Engaging hospitalized patients in the evaluation of staff hand hygiene compliance – a prospective study





POST

 Initiated Institut Universitaire de Cardiologie et de Pneumologie de Québec (IUCPQ)

- Objectives
 - Develop a new method to evaluate HCWs' HH compliance
 - 2. Explore a new strategy for involving patients in improving patient safety.



POST

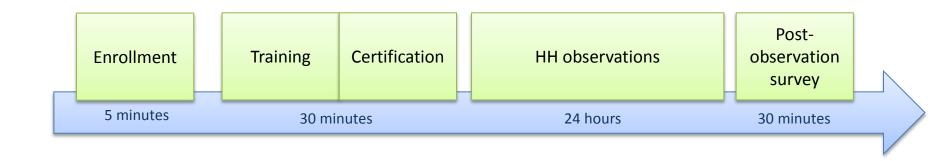
- Principal research question
 - Can patients be engaged to evaluate prospectively staff HH compliance?
- Primary hypothesis
 - A sizeable proportion of patients will accept to participate, be able to correctly recognize indications for HH and appreciate whether HH occurred according to institutional recommendations, and appreciate their experience





- Study design
 - Interventional, uncontrolled prospective study
 - "proof-of-principle" pilot study
- Population
 - Patients from bariatric surgery unit, IUCPQ
 - 32-bed unit
- Collaborators
 - Maria-Cecilia Gallani RN, PhD
 - Laval University Faculty of Medicine
 - Lori Côté RN IPC cert.
 - Msc candidate





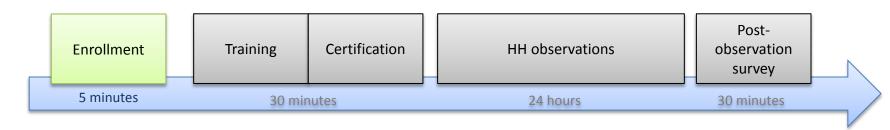
Timeline. Patient recruitment and observation



- Eligibility criteria
 - Recovering from bariatric surgery (24h postop)
 - No acute or life-threatening condition
 - Absence of additional precautions
 - Adequate language and writing skills
 - >18 years old

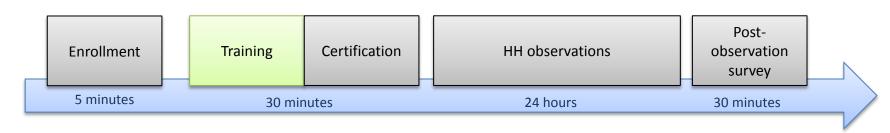


- Identification of potential participants
 - Research nurse in conjunction with head nurse/assistant head nurse
- Pre-enrollment questionnaire
 - Objectives
 - 1. Determine proportion who accept to participate
 - 2. Understand the reasons for declining to participate
 - 3. Collect very limited demographic information





- Training
 - Required to provide the patient with sufficient knowledge
 - Given by research team
 - Objective: teach HH Moment #1
 - Patient Zone
 - Recognize opportunities for HH
 - Determine whether HH was performed as required
 - Record observations in form





Training of patients

20-30 minutes

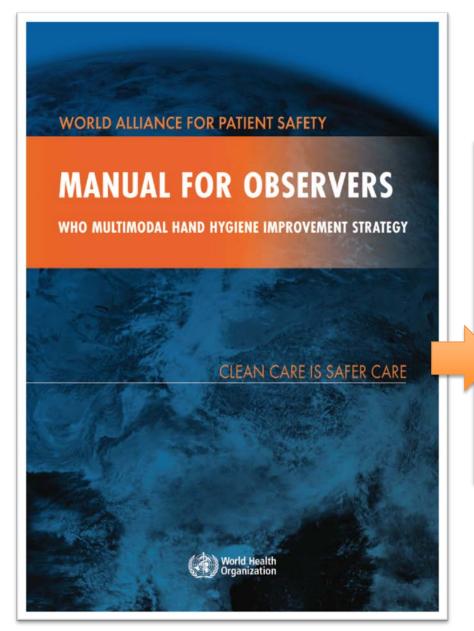
Section 1: theoretical basis

- Role of hands in transmission of microbes and infections: importance of hand hygiene to prevent nosocomial infections in the community and in healthcare settings;
- 2 hand hygiene techniques (hand rubbing and hand washing);
- Notion of « patient zone »
- 4 Moments to hand hygiene (in particular Moment No. 1)
- Concept of hand hygiene opportunity
 - Only encounters in which there was an opportunity to perform HH may be evaluated;
 - Only HCW who touch either the patient or a surface within the patient zone must be evaluated
 - Some encounters are « not evaluable » if cannot assess whether the HCW has touched a surface outside of the patient zone;
- Significance of not witnessing HH
 - May have been conducted in the corridor so care may still be safe.
- Observations only concerns HCWs, not patients or visitors.

Section 2 : Practical training

- Scenarios of encounters between patients and healthcare workers and are enacted by the research nurse.
- The subject is invited to fill out the observation booklet. Any uncertainty or error is corrected by the research nurse.
 - Moment No. 1 correctly performed (nurse touches object outside of Patient Zone and then touches the patient)
 - Moment No. 1 correctly performed but non evaluable (observer cannot see HCW touch object outside of Patient Zone)
 - Moment No. 1 not respected (HCW comes directly from corridor and touches the bed without performing HH)
 - Moment No. 1 respected (HCW places cup on bedside table, performs HH and touches the patient)
 - Moment No. 1 not respected (HCW touches the bedside table before HH)
 - Superfluous HH (HCW performs HH but does not touch the patient or the patient zone)
 - Moment No. 1 missed (HCW puts on gloves instead of perfoming HH)
- Miscellaneous information
- Observations must be discreet but not hidden;
 - If HCW asks about HH, answer that you are participating in a study to see whether patients can evaluate quality of care
 - Remember: HCWs are aware of this project and posters have been placed to explain the objectives
- Anonymous observations (do not identify the HCW)
- DO not present results to HCW (data will be aggregated before restitution)
- Keep booklet in the room. Research assistant will pickup booklet in 24h





	ORLD A			o	7	ANNEX 34 SERVATION FORM					World Health Organization			
Country City			Hospital			Site ID								
Date	server (initials) e (dd.mm.yyyy) rt/End time (hh:mm) sion duration (mm)			Period No. Session No. Form No.			on No.	Department Service name Ward name						
Prof. Code Num	Code				Prof.cat. Code Number				Prof.cat. Code Number					
pp	Indication	Action	Орр	Indication	Action		Орр	Indication	Act	ion	Орр	Indication	Action	
1	□ bef-pat. □ bef-asept. □ aft-bfluid □ aft-pat. □ aft-surr.	□ rub □ wash O missed	1	□ bef-pat. □ bef-asept. □ aft-bfluid □ aft-pat. □ aft-surr.	□ rub □ wash ○ missed		1	☐ bef-pat. ☐ bef-asept. ☐ aft-bfluid ☐ aft-pat. ☐ aft-surr.	□ rub □ wa O mi:	sh	1	☐ bef-pat. ☐ bef-asept. ☐ aft-bfluid ☐ aft-pat. ☐ aft-surr.	□ rub □ wash ○ missed	
2	□ bef-pat. □ bef-asept. □ aft-bfluid □ aft-pat. □ aff-surr	□ rub □ wash ○ missed	2	☐ bef-pat. ☐ bef-asept. ☐ aft-bfluid ☐ aft-pat. ☐ aft-surr	ub wash missed		2	☐ bef-pat. ☐ bef-asept. ☐ aft-bfluid ☐ aft-pat. ☐ aff-surr	□ rub □ wa O mis	sh	2	□ bef-pat. □ bef-asept. □ aft-bfluid □ aft-pat. □ aft-surr	□ rub □ wash ○ missed	

WHO observation tools: too complicated for patients



Hand Hygiene Observation Forms	Research Assistant:
1. Did the healthcare worker touch the patient or an object within the patient zone ? No → Do not fill out for Yes □	For any question/comment: - Dial XXXX on the phone in the patient room. You can leave a message if no answer.
2. Did you see the healthcare worker touch an object or a surface No outside of the Patient Zone before entering the Patient Zone of the patient?	OR - Dial XXX-XXXX (pager) and enter the number to call back after the beep. The research nurse will call you back as soon as possible.
3. Did you see the healthcare worker perform hand hygiene before touching the patient or a surface within the Patient Zone?	
4. Type of Healthcare Nurse	Patient observation tools: - Focusing only on moment #1
Date :Time : AM PM	

Certification of participants

- Essential prior to actual observations
- Only certified patients will proceed to actual observations
- Methods: 6 HH videos from WHO
 - Used to certify IPC nurses to conduct HH observations
- Passing mark: 100% (6/6)









Enrollment

Training

Certification

HH observations

Postobservation survey

5 minutes

30 minutes

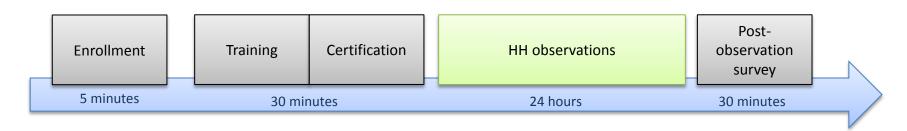
24 hours

30 minutes



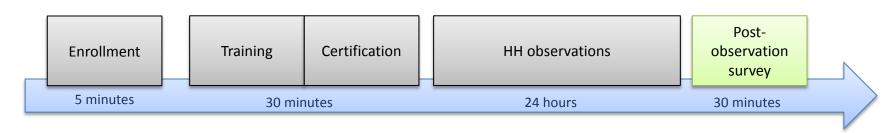
Observation sessions

- Patients invited to systematically collect
 HH observations during 24-hour period
- Record their observations in booklet





- Post-observation survey
 - Objective: collect participants' experiences and perceptions
 - 20-minute verbal survey
 - >30 items + sociodemographic information
 - Based on Theory of Planned Behavior (TPB) + Health Action Process Approach (HAPA)
 - Open questions and Likert scales





Post-observation survey – Key Elements

- General perception of the experience
- Perception of being sufficiently competent to conduct observations
- Trust in one's observations
- Technical difficulty
- Unforeseen difficulties/challenges
- Comments from HCWs
- Uneasiness to perform observations
- Modification of perception of quality of care
- Modification of relationship with HCWs
- Whether observer has witnessed non-compliance
- Whether observations were anxiety-provoking
- Would accept to evaluate other aspects of care



Support from Institution

- Support obtained from CEO of IUCPQ with ONE CONDITION:
 - Should not start study before <u>obtaining support from all stakeholders</u>
 - Ethical Committee and Scientific Committee
 - CEO
 - DSI
 - DSP
 - CMDP (Medical Executive)
 - HR
 - Unions
 - Head nurse + nurses on bariatric surgery unit
 - All bariatric surgeons
 - Funded by the Foundation of IUCPQ
 - Research focusing on patient rather than the HCW
 - Ask HCWs to help patients succeed and asked to let us know if any adverse events







Information signs

Jewish General Hospital





Projet pilote au 2º Notre-Dame :

Implication des usagers dans la mesure de l'hygiène des mains des soignants





MISE EN CONTEXTE

- L'hygiène des mains est la principale mesure pour prévenir les infections nosocomiales.
- Mesurer le respect de l'hygiène des mains des soignants est obligatoire dans tous les centres hospitaliers canadiens (exigence d'Agrément Canada)¹.
- Les usagers sont encouragés à participer activement à leurs soins de santé.
- Les usagers ont un rôle à jouer en ce qui concerne la sécurité et la prévention des événements indésirables¹.

PROBLÉMATIQUE

L'observation directe de l'hygiène des mains des soignants par les infirmières en prévention des infections comporte plusieurs limites.

OBJECTIF DU PROJET

Vérifier si certains usagers hospitalisés, spécialement identifiés et formés, peuvent participer à mesurer de façon anonyme l'hygiène des mains des soignants.

DÉROULEMENT DU PROJET

- Huit (8) usagers seront recrutés à chaque mois, pour une période de 9 mois consécutifs (total 72 usagers).
- Les usagers seront recrutés 48 à 72 h postopératoire, s'ils rencontrent les critères d'inclusion.
- Les usagers recrutés, formés et validés, rempliront 10 fiches de mesure, sur une période de 24 h.
- Les données récoltées seront totalement anonymes : elles ne permettront pas de connaître l'identité des travailleurs.
- Les usagers mesureront le moment #1 pour l'hygiène des mains: « Avant de toucher à l'usager ou à son environnement ».
- Le vécu des usagers et des soignants sera collecté durant le projet.
- Lorsqu'il sera en cours, le projet sera bien annoncé à l'unité de soins.

PARTENAIRES

Madame Mélanie Lemelin, infirmière-chef du 2º Notre-Dame, Équipe soignante du 2º Notre-Dame, Équipe des chirurgiens bariatriques, Fondation de l'IUCPQ, Direction générale, Direction des soins infirmiers, Direction des ressources humaines, Conseil des infirmières et infirmiers, Conseil des médecins, dentistes et pharmaciens, Conseil multidisciplinaire, Comité de prévention des infections, Programme de prévention des infections, Syndicat interprofessionnel de la santé de l'IUCPQ, Alliance du personnel professionnel et technique de la santé et des services sociaux-IUCPQ, Syndicat canadien de la fonction publique-IUCPQ.

Ce projet a été approuvé par le Comité de révision scientifique (axe obésité et métabolisme) et par le Comité d'éthique de la recherche de l'IUCPQ.

CONTACT

Questions, commentaires ou suggestions? Veuillez contactez Lori Côté, Conseillère en prévention des infections, étudiante à la maîtrise et responsable du projet. Téléavertisseur : 418-684-7240 Téléphone : 418-656-8711 poste 5605

RÉFÉRENCES

1 Agrément Canada. 2011. Le programme d'agrément : Pratiques organisationnelles requises. Consulté en ligne : http://accreditation.ca/programmes-d-agrements/ qmentum/pratiques-organisationnelles-requises/



Results



RESULTS

- Recruitment period: August 2014- March 2015
- No. eligible patients: 71
- No. patients not available: 25
 - Main Reasons: sleep 17/25 (68%)
 - Other reasons: Visitors, Other HCWs
- No. patients approached:
 - -46
 - Accepted: 25 (54%)
 - Age: average = 44 (range, 23-67)
 - 64% female



Reasons for refusing to participate

- Physically unwell, pain, nauseated (n=6)
- Not interested (n=5)
- Tired (n=3)
- Need to receive care (HD, therapy) (n=2)
- Will soon be discharged (n=1)
- Visitors (n=1)
- Fear of annoying HCWs (n=1)





Training

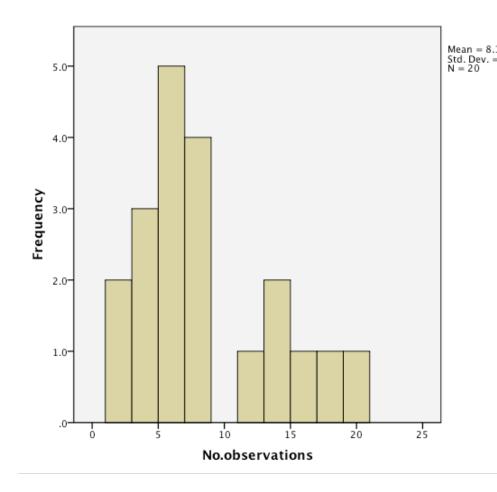
- Average duration training:
 - 19 minutes (range, 13-40)
- Average duration validation:
 - 11 minutes (range, 10-20)
- Score:

```
- 100% 7/25
- 80% 12/25
- 60% 5/25
- 40% 1/25
```



OBSERVATIONS

- No. observations: 167
 - 83 (49%) excluded because patient had not seen HCW touch a surface outside patient zone
- Average: 8 obs/24h





Type HCW observed

Nurses 57%

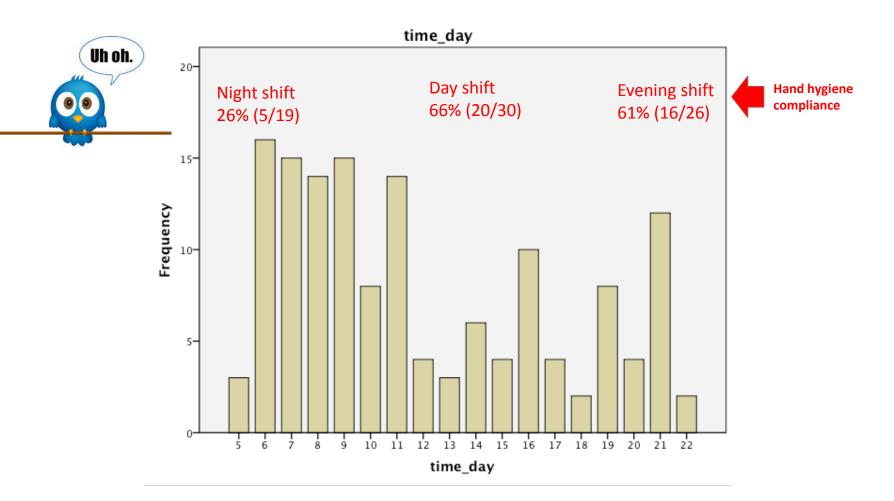
• MD 6%

Orderlies 21%

Other/unknown: 15%



Time of the day vs. observations





Patients' experience

- Qualitative assessment
 - Positive experience: 23/25

- Funny
- easy
- not a burden
- happy to collaborate
- feel useful
- kills time

- important study
- will help improve HH
- not a burden
- not afraid to be judged by HCW
- Helps you realize importance of HH



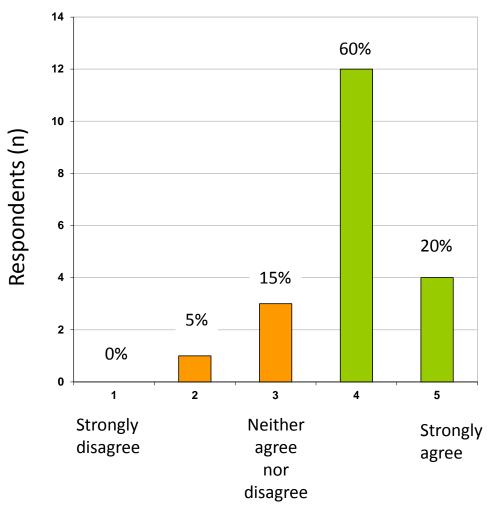
Patients' experience

Qualitative assessment

- Negative experience: 2/25
 - Surprised to witness such low HH compliance
 - Afraid will affect relation with MD
 - Have other priorities

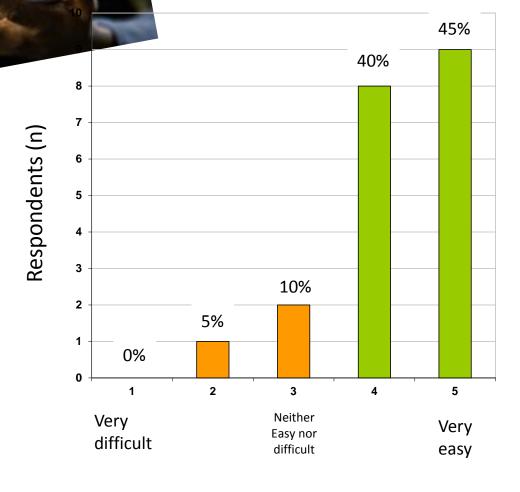


How **easy** were the observations to perform?





How easy was it to **record** the observations?

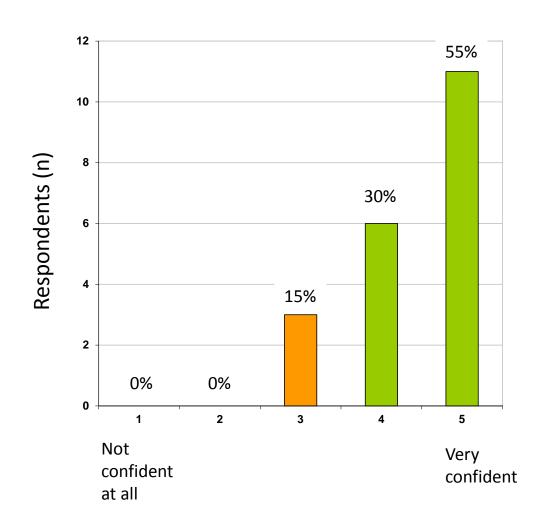


Main difficulty: not seeing properly

- Curtains drawn
- Cannot see what happens in the corridor
- Not paying attention
- Darkness at night
- Distributors outside of the curtains

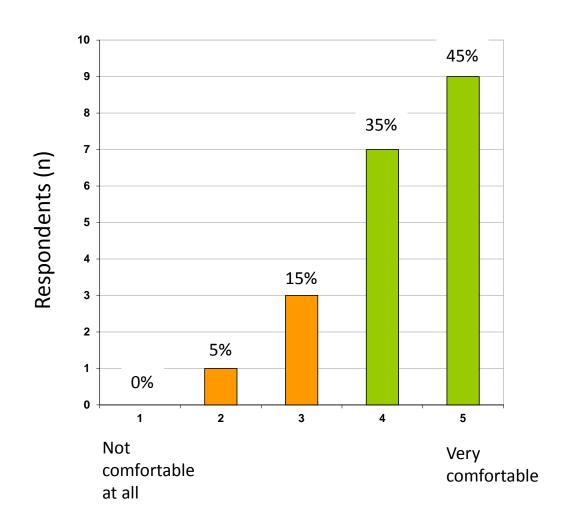


How **confident** are you in the quality of your observations?



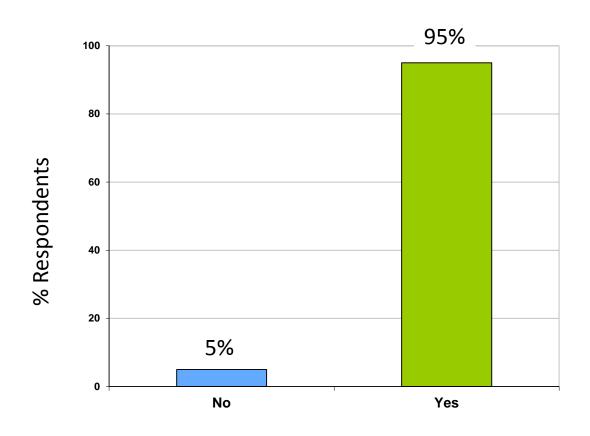


How **comfortable** were you observing healthcare workers?

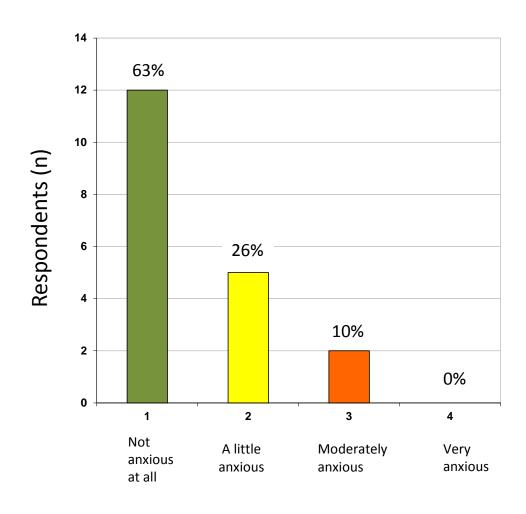




Did you observe HCW **not complying** with HH?

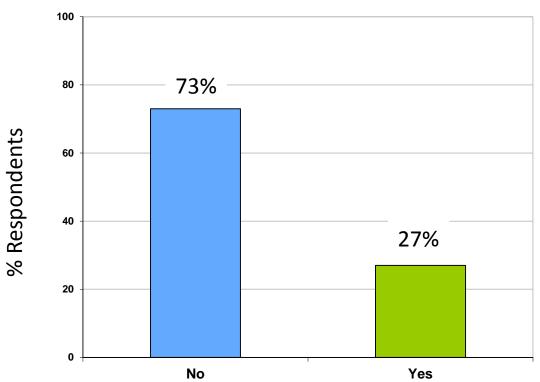


How <u>anxious</u> did you feel when witnessing non-compliance?



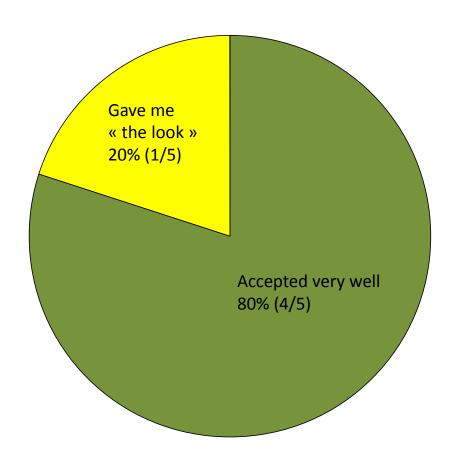


Did anyone <u>discover</u> you were performing HH audits?



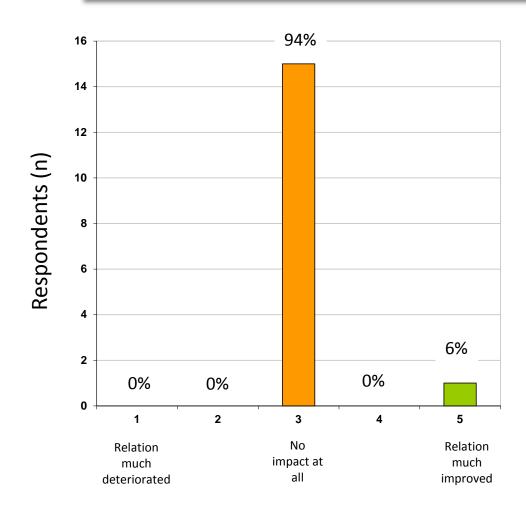


How did the <u>HCW react</u> to discovering that you were observing them?



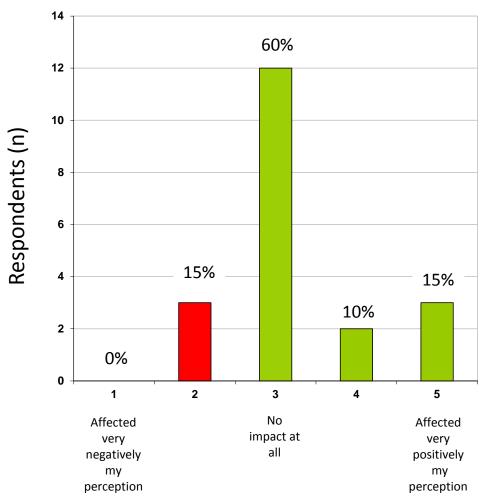


Did observing HCW change the **relationship** you had with them?



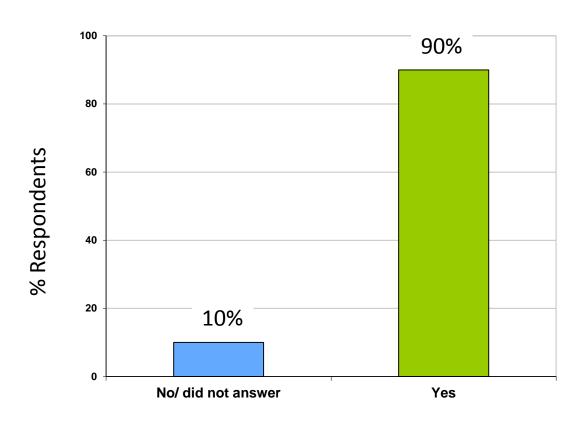


Did observing HCWs' HH behavior change the perception you had of the **quality of care**?





If you were rehospitalized in the **future**, would you Accept to evaluate other aspects of care?





HH compliance

HH compliance

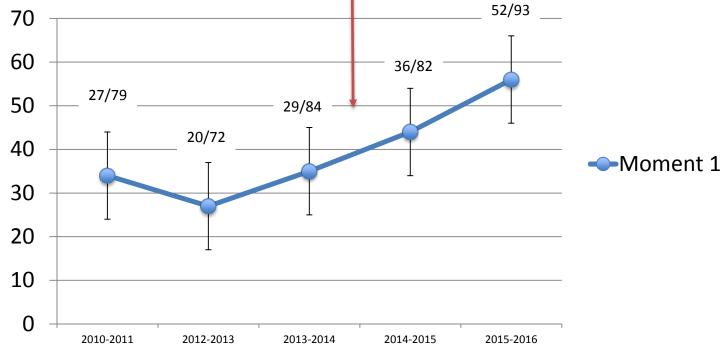
- Valid observations: 43/84 (51%)

 Including events without observation touching surface outside patient zone: 67/154 (44%)



Impact?





Hand hygiene compliance, 2010-2015 Bariatric surgery ward



Harnessing the Hawthorne Effect





Present only in the presence of the observer

Biases observations



Present at all time

Improves compliance





Hand Hygiene Monitoring

Direct Observation by patients

PROs	CONs
Standardized Methodology	Labor-intensive
Distinguishes among HH indications	Requires training and certification
Recognizes the "patient zone"	
Can collect additional information (type of HCW, glove use, time of day, etc.)	
Scaling-up potential	
Possible in all settings	
Less disruptive to care	
Hawthorne Effect exploited?	



PERSONAL EXPERIENCE





Potential areas for involvement





Conclusions



Conclusions

- Canada is involving patients at many different levels to improve patient care
 - Systems level
 - Advocacy
 - Patient HH
 - Patient reminding about HH
 - Patient observers



Questions?

Thank you!

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