

HANDYAUDIT PUBLICATION SUMMARY

There are several projects, peer-reviewed publications, Quality Improvement Plans, and other publications relating to HandyAudit. This document is intended to give a summary about them.

Peer-Reviewed Publications and Programs

(a) Adoption Research to Improve Care (ARTIC) Program

In 2010 HandyAudit was vetted and chosen to be a demonstration of Adopting Research to Improve Care, a program intended to move research into practice and drive quality improvement. <http://caho-hospitals.com/partnerships/adopting-research-to-improve-care-artic/>

As part of this program, the HandyAudit technology went through a rigorous vetting process including a peer review process (following the CIHR merit review process) carried out by the ARTIC Program Selection Panel: a skills-based multidisciplinary task force including clinical practice and research leaders, knowledge translation experts and representatives from Health Quality Ontario and the Ministry of Health and Long Term Care. Only a small fraction of submissions are accepted as ARTIC projects.

I have attached a detailed Overview and Evaluation for the ARTIC projects as attachments. These reports were commissioned by the Council of Academic Hospitals of Ontario and authored by an arms' length consultancy group. I will ask that you treat these documents as confidential, but I'd like to highlight:

- 1) Phase I Evaluation - The rigor of the evaluation and selection process.
- 2) Phase II Evaluation - Impact of projects - "has proven effective at implementing selected evidence-based interventions in multiple sites consistently, rapidly, and with high levels of fidelity and sustainment."

(b) IDWeek Paramedic HH Poster with HandyAudit – SHEA / IDSA – October 2014

Poster on Hand Hygiene of Paramedic Emergency responders by Denver Health Medical Center, VA Eastern Colorado Healthcare System, VAMC, Children's Hospital Colorado, Johns Hopkins Medical Institutions, VA NY Harbor Healthcare System, Michael E. DeBakey VA Medical Center - <https://idsa.confex.com/idsa/2014/webprogram/Paper47938.html>

(c) Compliance Among Healthcare Workers – SHEA / IDSA – October 2012

By Johns Hopkins University, Denver Health Medical Center, VA NY Harbor Healthcare System, North Florida/South Georgia Veterans Health System, School of Public Health and Health Sciences, University of Massachusetts, Johns Hopkins Medical Institutions and ResPECT Study Team (Jenna Los, BA ; Connie Price, MD ; Michael Simberkoff, MD; Lewis Radonovich, MD ; Nicholas G. Reich, PhD ; Trish M. Perl, MD, MSc, FIDSA, FSHEA) <https://idsa.confex.com/idsa/2012/webprogram/Paper37256.html>



**(d) Validation of a novel electronic auditing tool for hand hygiene activity –
Canadian Journal of Infection Control, Summer, 2011**

On the HandyAudit technology by Toronto Rehabilitation Institute / University of Toronto
Veronique M. Boscart, Jae H. Lee, César Márquez, Michael Tsang, Geoff R. Fernie. (2011)
26 (2) Summer 2011: 119-125.

Quality Improvement Plans

Quality Improvement Plans are required by the Ministry of Health and there have been
QIP 'publications' mentioning HandyAudit from individual hospitals. For example:
http://www.hopitalmontfort.com/sites/default/files/PDF/paq11-12_partie_b_en.pdf

Accreditation Canada / Ministry of Health / Health Quality Ontario

Recognizing HandyAudit as part of an Emerging (Commendable) Practice by the
Health Council of Canada using the Health Innovation Portal Evaluation Framework
<https://accreditation.ca/adopting-research-improve-care-project-artic>

HandyMetrics Presentation about HandyAudit Technology with Minister of Health
(presentation not currently online)
<http://caho-hospitals.com/artic-special-event/>

The CEO of Health Quality Ontario was at the event and published a tweet about us:
<https://twitter.com/DrJoshuaTepper/status/440508339215425536>

Publications Focusing on Hand Hygiene Impact

There have been a few publications about the effectiveness correlated with the use of HandyAudit in
a comprehensive Hand Hygiene Program

(a) Hôpital Montfort decreases their infection rates by over 50%, saving them \$242,000 with
the help of HandyAudit!
http://www.hopitalmontfort.com/sites/default/files/PDF/backgrounder_hand_hygiene.pdf

(b) St. Joseph's wins Best First Time Abstract at IPAC-Canada 2015 National Conference.

Come Clean! Accurate Hand Hygiene Rates Improve Transparency, Drive Change and Help
Reduce Healthcare Associated Clostridium Difficile Infections. Stefania Cloutier¹, Barley
Chironda², Yuka Hutton¹, Jennie Johnstone¹ St. Joseph's Healthcare Centre –

Describes the important move to more accurate hand hygiene (HH) compliance rates (using
HandyAudit). The change facilitated improvement of HH adherence, ultimately helping to reduce
healthcare acquired infections. Related article outlining some of the initiative:

<http://www.stjoestoronto.ca/2015/02/2358/>

Copy of Abstract:

https://www.handymetrics.com/index.php?option=com_content&view=article&id=166&tmpl=component

Innovation Agency Publications:

(a) ONTARIO CENTRES OF EXCELLENCE ANNUAL REPORT HIGHLIGHT, pg 21
<http://www.oce-ontario.org/docs/default-source/publications/oce-ar-2013-14.pdf?sfvrsn=4>

(b) OCE Success Story Highlight
<http://www.oce-ontario.org/our-companies/success-story/2014/10/22/handymetrics>

(c) Techconnex Technology Leadership Award
Most promising startup award winner, 2014
<https://www.youtube.com/watch?v=3ZwFbBr2Ggs&feature=youtu.be>
http://www.yorktech.ca/Resources/Documents/awards/Awards%20Release%20%20Recipients_FINAL.docx.pdf

Popular Press:

(a) Hand-washing audit system cleans up at regional startup awards:
<http://www.canhealth.com/tfdnews1107.html>

(b) University Health Network Launches Startup
http://www.uhn.ca/corporate/News/Pages/tr_launches_handyMetrics.aspx

(c) St. Michael's hospital on success of the Council of Academic Hospitals of Ontario Adopting Research To Improve Care
http://www.stmichaelshospital.com/media/detail.php?source=hospital_news/2014/20140304_hn

(d) Hospital News:
<http://hospitalnews.com/more-hospitals-using-electronic-system-to-measure-hand-hygiene-compliance/>

So those are a sampling of some publications around HandyAudit. You also may be interested in presentations from our clients about their use of the tool <http://handymetrics.com/testimonials.html>