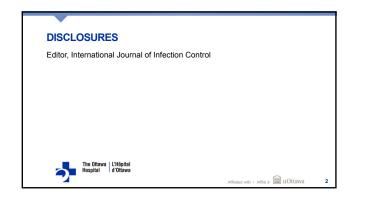
	Inspired by research. Inspiré par la recherche. Driven by compassion. Guidé par la compassion.
MANUSCRIPT PREPARATION	
HOW TO GET YOUR	PAPER PUBLISHED
	KATHRYN N. SUH, MD, FRCPC, CIC
	IFIC IPAC 2019 CONJOINT CONFERENCE QUEBEC CITY, QUEBEC 28 MAY 2019
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International Journal of Infection Control	
Current Archives Announcements About +	Q Search
Current Issue	Information For Readers
Vol 15 No 2 (2019): Second issue 2019	For Authors
	For Librarians
Published: 2019-06-02	
	Open Journal Systems
- Editorial Commentary	
"Clean care for all – it's in your hands": the May 5th, 2019 World Health Organization SAVE LIVES: Clean Your Hands campaign	
Alexandra Peters, Didler Pittet, Toheun Borzykowski, Ermira Tartari, Claire Kilpatrick, Safiah Hwai Chuen Mai,	
Benedetta Allegranzi	
Editorial	
Why should developed countries care about Universal Health Coverage?	
Alexandra Peters, Marie-Anne Pham, Chioé Guitart, Didier Pittet	
D POF	

OBJECTIVES

- Understand why your work should be published!
- Outline steps to maximize your chance of publication:
 - Preparing your manuscript
 - Practices to avoid
 - Dealing with rejection, and getting a second chance (revisions)

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WHY PUBLISH?

- IPAC recommendations are stronger when supported by evidence!
- Share observations, findings, new knowledge with others
 - Understand epidemiology, natural evolution of diseases
 - Learn about new interventions (that work, or don't work)
 - Improve practice, processes, outcomes, safety
- May be required for academic appointment or promotion in some settings

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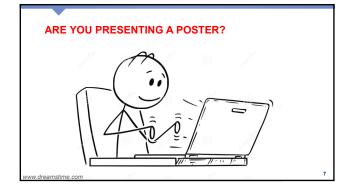
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5

COMPETENCIES AND PRACTICE STANDARDS

- IPAC Canada Core Competencies (2016): "collaborate with others to disseminate research findings both formally, through presentations and publication, and informally"
- APIC Practice Standards (2016): "publish and present research findings to assist in advancing the field"
- IPS Competences (2011): "share best practice through the dissemination of evidence and knowledge"

Moralejo D et al, <u>https://ipac-canada.org/photos/custom/pdf/2016_IPAC_Canada_CoreCompetenciesforICPs.pdf</u> Bubb T et al, Am J Infect Control 2016;44:745; Burnett E et al, J Infect Prevention 2011;12:67





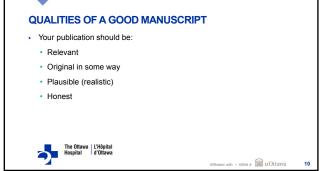
HAVE YOU PUBLISHED?

- Implemented quality improvement initiatives in your setting
- Investigated an (uncommon) outbreak
- Evaluated a change and its impact on an outcome (or process)
- Observed an unusual case of a healthcare-associated infection
- Reviewed the literature to summarize evidence or findings about a specific topic

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THINKING ABOUT PUBLISHING?

- A clear question that you were trying to answer, or a problem that you were trying to solve
- A reasonable idea of what has been studied on the topic in the past (literature review)
- Clear methods a record of what you have done and how
- Clear measurements data points, timelines, survey results, etc. with definitions where applicable
- Collaborators you may need help with statistics, formatting, writing



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SO HOW DO I START? I'VE NEVER DONE THIS BEFORE

- What are you writing about??
- Who should you include as a co-author?
- Develop an outline of your manuscript
 - Jot ideas, notes
- Consider making empty tables or figures at the outset
- No need to write an entire paper in one sitting, or even to write sections in order
 - Take advantage when creativity strikes!

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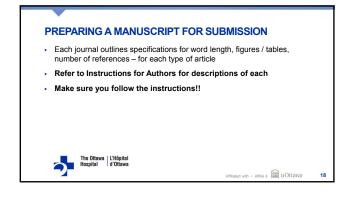
PREPARING A MANUSCRIPT FOR SUBMISSION

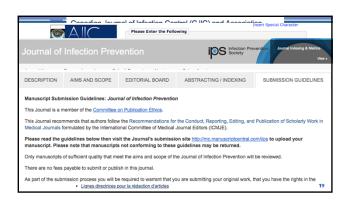
- Most journals offer various manuscript options e.g. original research, review, short reports, letters to the editor
- Look at published papers in journals to see how they are written

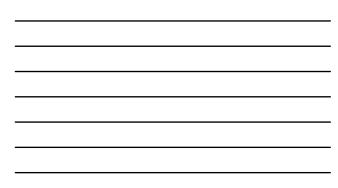
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	ORMATS: EX			
	CJIC (IPAC)	IJIC (IFIC)	AJIC (APIC)	JIP (IPS)
Original Articles	~	~	~	v
Reviews	v	~	v	~
Outbreak Reports	v			
Practice Forum	~	~	v	
Qual Improve't	~			
Concise Reports	~	~	v	~
Letters to Editor	~	~	4	~
Emerging Tech	v			
Commentary			V	~







AUTHORSHIP

- Agree on authorship prior to starting the research if possible
- As per ICMJE, all listed authors should have:
 - · Contributed substantially to the research project / execution / analysis
 - · Contributed to writing and / or revising the manuscript
 - Provided final approval for manuscript publication
- All authors are accountable for the findings in the manuscript
- All should provide authorship agreement and conflict of interest declarations, and confirm prior to publication The Ottawa L'Hôpital Hospital d'Ottawa

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SCIENTIFIC MANUSCRIPT FORMAT

Most original research papers will follow a format that includes:

- Title (title page)
- Key words
- Abstract
- · Introduction or Background: briefly, why is this study needed?
- · Methods: what did we do (and how)?
- · Results: what did we find?
- · Discussion: what does it all mean?



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THE TITLE IS KEY FOR READERS

- The title is the most accessible part of the paper
 - · Readers will see title (+/- abstract) and decide if they will read it
 - Electronic databases (e.g. PubMed) use words in titles
- Use keywords in your title
 - Include study design (e.g. "A retrospective cohort study of.....")
 - Do not use abbreviations
- Running head title (short version title)

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KEY WORDS

- Some journals will ask authors for key words (or phrases)
 - MeSH term (Medical Subject Headings) National Library of Medicine indexing (<u>www.nlm.nih.gov/mesh/</u>)
 - Journals may provide a key word menu
- Words used in title or abstract are more likely to identify your paper
- Avoid unique or outdated terms you want your paper to be found

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THE TITLE

 Hand hygiene reduces transmission of methicillin-resistant Staphylococcus aureus

OR

Impact of hand hygiene on transmission of methicillin-resistant *Staphylococcus aureus*: a cluster randomized trial

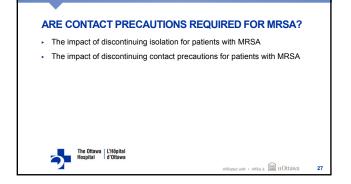
Running head: hand hygiene and MRSA transmission

- How to successfully submit your first manuscript what journal editors look
- for

Running head: submitting your first manuscript
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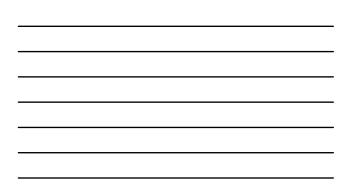
TITLE AND KEY WORDS Inpact of hand hygiene on transmission of methicillin-resistant Staphylococcus aureus: a cluster randomized trial Key words: hand hygiene, MRSA, transmission, cluster randomized trial Image: Staphylococcus aureus: a cluster randomized trial

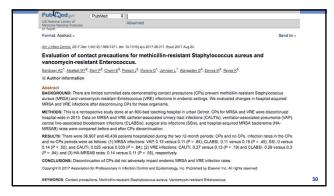


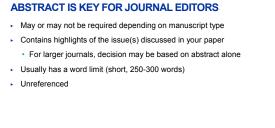
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S NCBI Resources	How To 🕑			Sign in to	NCB
Publed			Contact Precautions for Endemic MRSA and VRE: Time to Retire Legal Mandates, Morgan DJ, Wenzel RP, Bearman G,		
US National Library of	PubMed		Morgan LU, wenzel KP, Bearman G. JAMA. 2017 Jul 25:318(4):329-330. doi: 10.1001/ama.2017.7419. No abstract available.	O Search	
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of WARR			Similar articles		_
			Discontinuing contact precautions for multidrup-resistant organisms: A systematic literature review		
		2.	and meta-analysis,		
			Marra AR, Edmond MB, Schweizer ML, Ryan GW, Diekema DJ.		
			Am J Infect Control. 2018 Mar;46(3):333-340. doi: 10.1016/j.ajic.2017.08.031. Epub 2017 Oct 12.		
			PMID: 29031432		
			Similar articles		
			Evaluation of contact precautions for methicillin-resistant Staphylococcus aureus and		
		3.	vancomycin-resistant Enterococcus.		
			Bardossy AC, Alsafadi MY, Starr P, Chami E, Pietsch J, Moreno D, Johnson L, Alangaden G, Zervos		
			M, Reyes K. Am J Infect Central 2017 Dec 1.45(12) 1369-1371. doi: 10.1016/Laic.2017.08.017. Epub 2017 Aug 24.		
			Am J Infect Control. 2017 Dec 1;45(12):1369-1371. doi: 10.1016/j.apic.2017.06.017. Epub 2017 Aug 24. PVID: 28643143		
			Similar acides		
			Impact of Discontinuing Contact Precautions for MRSA and ESBLE in an Intensive Care Unit: A		
		4.	Prospective Noninferiority Before and After Study,		
			Renaudin L, Llorens M, Goetz C, Gette S, Citro V, Poulain S, Vanson ML, Sellies J.		
			Infect Centrol Hosp Epidemiol. 2017 Nov;38(11):1342-1350. doi: 10.1017/ice.2017.198. Epub.2017 Sep.20.		
			PMID: 28927475		
			Similar articles		
			The Impact of Discontinuing Contact Precautions for VRE and MRSA on Device-Associated		
		5.	Infections,		
			Edmond MB, Masroor N, Stevens MP, Ober J, Bearman G.		
			Infect Control Hosp Epidemiol. 2015 Aug;36(8):976-80. doi: 10.1017/ice.2015.99. Epub 2015 Apr 27.		
			PMID: 25915205		
			Similar articles		
			Reconsidering contact precautions for MRSA and VRE.		29
		6.	Welsh J.		29
		_	Am 1Nore 2015 Mar 115(3) 14.5. doi: 10.1007/01.NA10000451755.01538 ar No abstract evaluation		







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ABSTRACTS

Two formats:

- · Structured: Background or Problem; Methods; Results; Discussion or Conclusions
- · Unstructured: single paragraph

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34

Understanding infection control professionals' educational practice:

There is a pauchy of research exploring infection control professionals' (ICP) educational practice and the daily challenges they face in providing thane worker (HCW) behaviour and promote patient safety. Without closer examination of educational practices. ICP cannot critically reflect on ulticational approaches need to be improved or changed. "research was conducted as part of a larger Dealy-Based Research study that looked at building ICP educational practice and culture within the Abs micricitor Provention and Control IMPC program. AFK TP educational practice was explored using an online survey estormation, and SET of educational practices with the those group in an of ICP educational practice. A qualitative systematic methodology was used to identify interconnected themes regarding ICP educational practice.

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It CP educational practice is more complex than the IPAC educational research iterature suggests. This study provides a detailed understanding of that pre-le issues and processes involved in Ir. Making the complexity of LCP educational practice explicit validates. CPs in their role are docutors and provides as too to build their educational segreties. Although CPA are instrated with the quality and contros of their education, their insight in their educational provides is not indicate they are primed for change. ICPs seek innovative professional development experiences to change and build their educational prefession.

ional practice in the AHS IPAC program.

Denotes the CPC exclusive practice is more complex than the IPIC elucational research instance suggess. This study provides a doubled understanding of the practice are the multiple issues and process insteads in a. Making the complexity of KP exclusional practice applic visibles KPA in the iron is a education application and the multiple issues and process insteads of the Adding the complexity of KP exclusional and accises of the double. This is the iron is a education application are steady to hird in a order grade appendix. Model (KP are insteads with the quality of a document of the document, the the track in the instead of the quality of the steady of the document of the document of the quality of the document of the document, the document of the docum

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INTRODUCTION OR BACKGROUND

- First section of text that readers will look at; concise but informative
- Start broadly and narrow to your specific question
- Should provide information to set the context for your manuscript:
 - What is the issue?
 - · What is already known about the subject?
 - · What is the (unknown) question that you are trying to answer?
- · Clearly state the study objective / hypothesis, and study design

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Hospital-acquired gastroenteritis at a referral hospital in Gaborone, Botswana

Henry D. Welch¹, David M. Goldíarb^{33,45}, Banno Moorad², Margaret Mokomane³, Marek Smieja⁴, Unoda Chakalisa⁶, Andrew P. Steenhoff^{3,33}, Rodney Finalle¹, Susan E. Coffin¹ ¹Children's Hospital of Philadelphia, Philadelphia, PA, United States ²Botswana-UPenn Partnership, Gaborone, Botswana ³The University of Botswana, Gaborone, Botswana ⁴McMaster University, Hamilton, Canada ⁵University of British Columbia, Vancouver, Canada ⁴Botswana Harvard AIDS Institute, Gaborone, Botswana

Welch HD et al, Int J Infect Control 2017;13

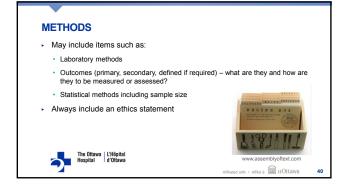
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METHODS

- Well written methods will allow your study to be clearly understood by others
- Depending on the study, include items such as:
 - Study design
 - · Setting (describe; where, what unit, time frame)
 - · Participants or subjects: eligibility criteria and exclusion criteria
 - Subject recruitment or selection, randomization, blinding (single, double)
 - Treatment regimens or intervention also safety monitoring

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Methods	
Study design, setting, and populatio	n
Case finding	
Data collection	
Measured	outcomes
5	Statistical analysis
	paediatric ward. This study was approved by Ethics Boards of Botswana's Ministry of Health, Princess Marina Hospital, and The Children's Hospital of Philadelphia. Written informed consent was obtained from a caregiver for each participant.
Welch HD et al, Int J Infect Control 2017;13	41

		_
	MATERIALS AND METHODS	
	The research and data collection methods reported in this paper	
	took place within the context of a more complex Design-Based	
	Research (DBR) study described in the second paper in this	
	series [15]. The data analyzed in this paper were collected over	
	six months (from mid-April to mid-October 2016) within the	
m		
6	AHS IPAC program. An online survey questionnaire, a focus group interview, and field observations of ICP education sessions	
1.		
33	were used to collect data. Study participants for the survey were	
ò	recruited via email from a convenience sample of all full-time	
2	ICPs employed by AHS. Participants for the focus group and	
Can J Irfect Control 2018;33:198	field observations consisted of a smaller subset of ICPs who were	
0	recruited separately by email from the same convenience sample	
4	to participate in a Community of Learning educational professional	
o	development experience.	
0	The survey included a mix of demographic, structured, and	
ot	closed and open-ended questions. Modifications were made to	
fe	the survey based on feedback from pilot testing. The focus group	
5	was conducted with a small group of ICPs who were participating	
2	in an educational professional development experience using a	
Le Contra	guide with open-ended questions. Focus group questions were	
Ö	designed to align with and build upon survey questions to gain a	
et al.	deeper understanding of ICP educational experiences, expertise,	
t a	beliefs, attitudes, and educational practices. This alignment	
0	allowed for cross-checking of ideas and interpretations of findings	
76	that emerged from the survey.	
5	Survey and focus group data, which are based on self-	
26	report, were subject to the risk of participants under- or over-	
ž	report, were subject to the risk of paracipants under or over-	
Meyers GL	educational activities of the subset of ICPs who participated in	42
`	calcational admites of the subset of fell's who participated in	

METHODS: GUIDELINES / CHECKLISTS

 Studies may be (some are required to be) registered and use reporting guidelines (some studies and journals may require these):

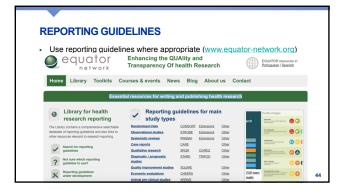
- Search strategies (e.g. for systematic reviews)
- Study registration (e.g. PROSPERO, clinical trials registries)
- Application of reporting guidelines (<u>www.equator-network.org</u>)

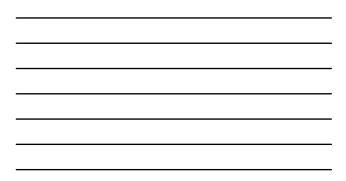
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	Methods	What did you do?	
	7. Context	Contextual elements considered important at the outset of introducing the intervention(s)	
st.pdf	8. Intervention(s)	 a. Description of the <u>intervention(s)</u> in sufficient detail that others could reproduce it b. Specifics of the team involved in the work 	
0-checkl	9. Study of the Intervention(s)	 a. Approach chosen for assessing the impact of the intervention(s) b. Approach used to establish whether the observed outcomes were due to the intervention(s) 	
content/uploads/2012/12/SQUIRE-2.0-checklist.pdf	10. Measures	a. Measures chosen for studying processes and outcomes of the <u>intervention(s)</u> , including nationals for choosing them, their operational definitions, and their validity and reliability b. Description of the approach to the ongoing assessment of contextual elements that contributed to the success, failure, efficiency, and cost . Methods employed for assessing completeness and accuracy of data	
10908/2017	11. Analysis	 Qualitative and quantitative methods used to draw inferences from the data Methods for understanding variation within the data, including the effects of time as a variable 	
ntent/up	12. Ethical Ethical aspects of implementing and studying the intervention(s) and how they were addressed, including, but not limited to, formal ethics review and potential conflict(s) of interest		
202	Results	What did you find?	

RESULTS

- > Do not include additional methods or interpretation in Results section
- Flow charts and algorithms may help
- Tables may help
- Findings: ensure that the outcomes reported reflect what the goal of the study is, and the outcomes of interest identified in the Methods
 - Measures of statistical significance: 95% CIs (or P-value)

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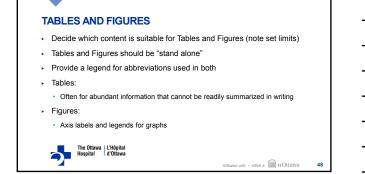
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A WORD ABOUT TABLES AND FIGURES

- Tables and figures should supplement your text but should not reiterate what you have written (or vice versa)
 - More is not better!

All children had diarrhoea at the time of onset of HAGE and 14 (44%) also had vomiting. Mucus in the stool was reported by the parents of 25 (78%) children. Only two (6%) had blood in the stool. The median length of stay prior to onset of HAGE was six days (IQR 4, 12) (Table III). Of the 32 children who developed HAGE, 10 (31%) were admitted for respiratory conditions. Other reasons for admissions are shown in Table II. Welch HD et al, Int J Infect Control 2017;13

Characteristic	Overall
Vomiting	14 (44%)
Diarrhea	32 (100%)
Blood in stool	2 (6%))
Mucous in stool	25 (78%)
Number of days in hospital until gastroenteritis started	
Mean (SD)	10.4 (10.1)
Median (IQR)	6 (4,12)



DISCUSSION

- Summarize your main findings (results) answer your research question!
 Do not repeat all of your results or present new results in the Discussion
- Interpret your findings and put them into context with those of other similar studies
 - · Why might your results differ from those of other authors
 - Discuss reasons why your results may not have been as expected

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DISCUSSION

- Strengths and limitations of your research
- Implications of your findings
- "In conclusion,"

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Discussion In this paediatric ward in sub-Saharan Africa, we found that HAGE was relative was be associated w and appeared to ncluding death. 0 0 Although limi g space and hand hygiene uring the three ly the number days prior to n of CAGE admissi associated with risk of HAGE. A es will be needed to identify whether these factors were associated with an increased risk of HAGE onset.

The aim of this prospective cohort study of children hospitalized at a large academic hospital in Botswana was to determine the incidence and aetiology of HAGE, and explore potential modifiable risk factors for infection. This project was conducted in parallel with an ongoing study of community-acquired gastroenteritis (CAGE).⁹

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Discussion

In this paediatric ward in sub-Saharan Africa, we found that HACE was relatively common and appeared be associated with severe outcomes, including death. Although limited resources, including space and hand hygiene stations, were common during the three days prior to most cases of HACE, only the number of CACE admissions was significantly associated with risk of HACE. Additional studies will be needed to identify whether these factors were associated with an increased risk of HACE onset.

Most children with HAGE were under two years old (94%). Viral pathogens (norovirus and rotavirus) were the most common pathogens isolated. Not suprisingly, the incidence of HAGE increased from June to November (Figure 1) mirroring the peak season for CAGE cases and corresponding to the rotavirus season in Botswana.⁹ Of note, 18% of the tested stools were positive for rotavirus, suggesting that rotavirus HAGE may arise as a consequence of patient-to-atient transmission during times of

The aim of this prospective cohort study of children hospitalized at a large academic hospital in Botswana was to determine the incidence and aetiology of HAGE, and explore potential modifiable risk factors for infection. This project was conducted in parallel with an ongoing study of community-acquired

REFERENCES

- · Some journals or manuscript formats will have limits
- Statements in your manuscript derived from other original research should be referenced in the text
- Reference the original publication
- Verify your references
- Format according to Instructions for Authors
 - Many journals will use the ICMJE Recommendations



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PRACTICES TO AVOID

- Publishing previously published work (by you, or others)
- Plagiarism
- Falsified results
- Undeclared conflict(s) of interest
- Lack of ethics approval for any research (qualitative, quantitative) involving human subjects
- · Concerns re: treatment of human or animal subjects during research
- Author conflicts

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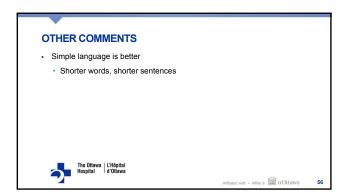
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PAY ATTENTION!!!

- Format your submission as outlined in Instructions for Authors
- Use correct grammar and consistent tenses
- Use consistent language i.e. do not introduce synonyms (hand hygiene, hand washing; specimen, culture, swab)
- Be consistent with reporting of results (e.g. number of decimal points, formatting, formatting tables, etc.)

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A FICTITIOUS EXAMPLE

- Surgical site infections, which were highest in patients undergoing cardiac surgery and in whom antibiotic prophylaxis was not utilized, occurred at a rate of 8.3 per 100 procedures and most (75%) developed within the first 30 days of surgery, with the risk being lowest in patients who had elective surgery and who had not been hospitalized in the past 30 days.
- Surgical site infections (SSIs) occurred at a rate of 8.3 per 100 procedures. Most (75%) developed within 30 days of surgery. Infections were most common in cardiac surgery patients and those who did not receive antibiotic prophylaxis. The risk of SSI was lowest in patients who had elective surgery and had

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OTHER COMMENTS

Simple language is better

- Shorter words, shorter sentences
- Longer text is not better
 - Avoid repetition for sake of lengthening a manuscript
 - · Be as concise as possible
- More tables, figures, references are not better
- Exhaustive tables, reference lists and citations do not indicate a stronger quality manuscript

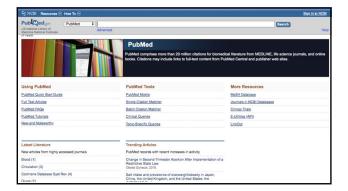
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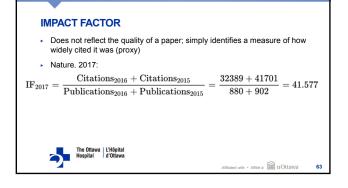
OTHER COMMENTS Language (or content) review Especially if the journal language is not your first language! Formatting





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SUBMITTING YOUR MANUSCRIPT

- Ensure that manuscript is formatted as required by the journal
- Most journals have electronic editorial platforms accessible on the journal's website

Step by step guide with instructions

 Include a cover letter asking for review (briefly state why this manuscript is important and why it is relevant to the journal)

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IF YOU ARE ASKED FOR REVISIONS:

• Read reviewer comments and address all comments:

- · Make changes if indicated, and respond to reviewer queries
- Journals may request tracked changes, and a "clean" copy
- · Ensure all coauthors are included in revisions
- · Resubmit as per website instructions, within allotted timeframe (if given)
- Include letter to editor responding to reviewer comments
 - · Be polite and respectful, even if you disagree with their comments The Ottawa | L'Hôpital Hospital d'Ottawa

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IF YOUR MANUSCRIPT IS REJECTED

- Don't give up most of us have been rejected at some point!
- If you received reviewer comments, use these to improve your manuscript and try again elsewhere

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IF YOUR MANUSCRIPT IS ACCEPTED

- You will receive notification from the journal
- Manuscript will be sent for copy editing
- You will receive proofs prior to publication last chance to correct significant errors
 - Confirmation of authors

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OBJECTIVES

- Understand why your work should be published!
- Outline steps to maximize your chance of publication:
 - Preparing your manuscript
 - Practices to avoid
 - · Dealing with rejection, and getting a second chance (revisions)

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USEFUL REFERENCES

- Equator network: <u>www.equator-network.org</u>
- International Committee of Medical Journal Editors: <u>www.icmje.org</u>
- MacDonald NE et al. Preparing a manuscript for publication: A userfriendly guide.Paediatr Child Health 2006;11:339.
- Kotz D and Kals JWL. Writing tips series parts I-XII. J Clin Epidemiology 2013-2014
 - · These are one page tips on each step of manuscript preparation

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JOURNALS AND WEBSITES

- Canadian Journal of Infection Control: https://ipac-canada.org/online-journal.php
- International Journal of Infection Control: <u>www.ijic.info</u>
- American Journal of Infection Control: <u>www.ajicjournal.org</u>
- Journal of Infection Prevention: <u>https://journals.sagepub.com/pubs/bji</u>
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