What are the outcomes associated with the use of online consumer health information? Insights from a systematic mixed studies review

Background

- Online consumer health information (OCHI) associated with improved knowledge, involvement, and health
- Little is known about its "value" in primary care
- No comprehensive tool to assess informationuse

Objectives

- Identify types of OCHI outcomes
- Revise conceptual framework
- Identify conditions associated with positive outcomes

Methods

Eligibility criteria

- Qualitative, or quantitative, or mixed methods study
- French or English (1990-2014)
- Community-based primary health care setting OCHI use

Information sources

Medline, Embase, PsycINFO, CINAHL, LISA, and grey literature (search strategy developed and peer-reviewed by librarians)

Selection

2 reviewers (DistillerSR)

Appraisal

2 reviewers using the Mixed Methods Appraisal Tool (MMAT)

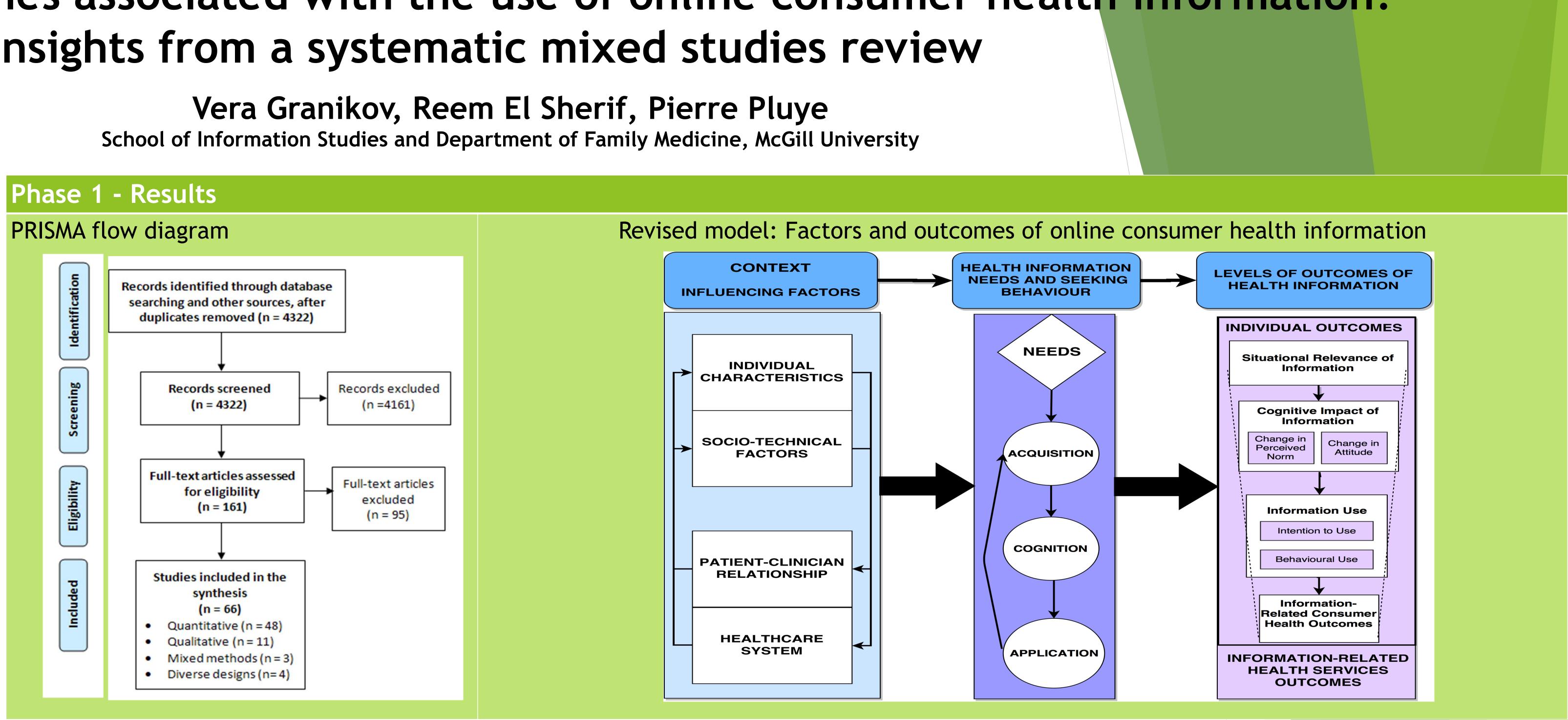
Data extraction and synthesis

Phase 1:

- Deductive-inductive thematic analysis (Nvivo)
- Harmonization of themes to develop terminology
- Card sorting exercise to organize influencing factors
- Framework synthesis

Phase 2:

- Configurational Comparative Method (Boolean analysis)
- 3 conditions: health problem, health information literacy, and confidence in OCHI
- Aim to identify conditions that are necessary and sufficient for a positive outcome



Main results from the thematic analysis, harmonization of themes, and card-sorting

Influencing factors

- Individual characteristics: e.g. age, health status, health information literacy
- Socio-technical factors: e.g. social support system, access to Internet
- Patient-clinician relationship: e.g. perception of clinicians towards OCHI
- Healthcare system: e.g. access to health care services

Individual health outcomes

- Positive: increased involvement in health care, health improvement, better communication with health care providers
- Negative: deterioration of the patientclinician relationship, increased worry, overuse or misuse of health services

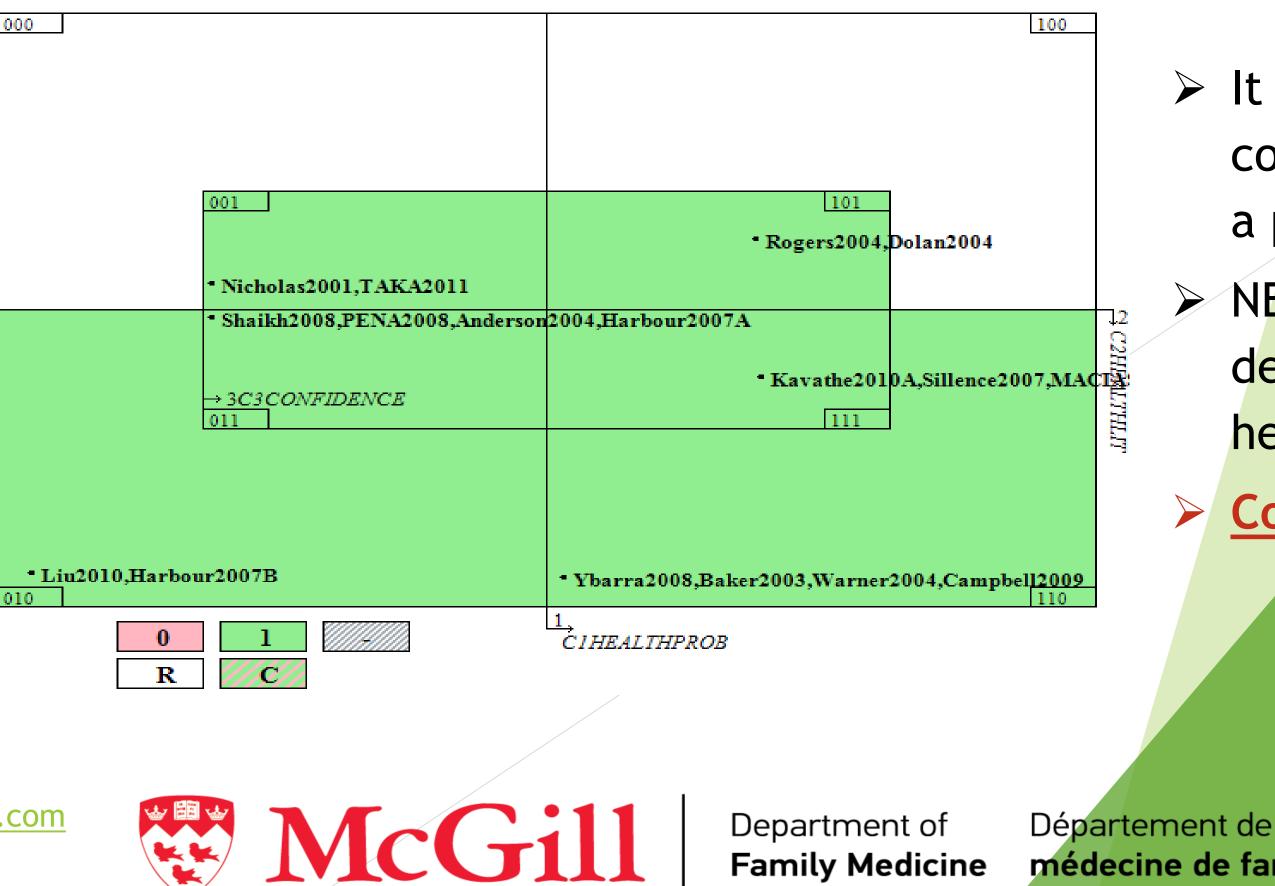
Health services outcomes

Increased physician's responsibilities, excessive ER visits and longer wait times

References

- . Pluye et al. JASIST, 2013, 64(1): p. 108-125
- 2. Pluye, et al. (2011) http://mixedmethodsappraisaltoolpublic.pbworks.com
- 3. Pluye et al. JMIR Res Protoc 2014; 3(1):e7
- 4. Granikov et al. JCHI, 2015

Phase 2 - Preliminary results				
Case ID	Health problem	Health literacy	Confidence	Outcome
Shaikh2008, PENA2008, Anderson2004,	Ο	1	1	1
Harbour2007A	U		Ι	
Rogers2004, Dolan2004	1	0	1	1
Nicholas2001, TAKA2011	0	0	1	1
Kavathe2010A, Sillence2007,				
MACIAS2008, Fox2007, Powell2011,	1	1	1	1
Porter2007				
Ybarra2008, Baker2003, Warner2004,	4	4	0	4
Campbell2009			U	
Liu2010, Harbour2007B	0	1	0	1



Family Medicine

- > It appears that whenever there is "high confidence" OR "high literacy", there is a positive outcome
- NEXT STEPS: Results will be used to develop a *Patient Information Aid* to help people find and use relevant OCHI

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