APPENDICES

Appendix 1: Search Terms by Database

Table 1. Search terms used for PubMed Search Strategy

Concepts	Nutrition	Monitoring	Tools (systems)	Setting
Author keywords	• Nutrition • Malnutrition • Nutritional • Hospital malnutrition • Dietary assessment • Food habits • Eating • Diet records • Nutritional assessment • Nutrition support	• Monitoring • Screening • "Technology-based dietary assessment" • Food*record* • Recording • Assessment • Food diary	• Device • Informatics • Technology • Computer • "web-based" • Image*based • Image retrieval • Picture • Digital photography • Mobile device* • Mobile*technology • Smartphone • Technology*assist* • Multimedia tool • Electronic* • Wearable	• Hospital • Primary*care • Care
MeSH	• Food habits • Eating • Diet records • Nutritional assessment			• Signal processing Computer/assisted-instrumentation • Software • Wireless technology/instrumentation	

Table 2. Search terms used for Scopus Search Strategy

Concepts	Nutrition	Monitoring	Tools (systems)	Setting
Author keywords	• Nutrition • Malnutrition • Nutritional • Hospital malnutrition • Dietary assessment • Food habits • Eating • Diet records • Nutritional assessment • Nutrition support	• Monitoring • Screening • "Technology-based dietary assessment" • Food*record* • Recording • Assessment • Food diary	• Device • Informatics • Technology • Computer • "web-based" • Image*based • Image retrieval • Picture • Digital photography • Mobile device* • Mobile*technology • Smartphone • Technology*assist* • Multimedia tool • Electronic* • Wearable	• Hospital • Primary*care • Care •

Table 3. Search terms used for CINAHL Search Strategy

Concepts	Nutrition	Monitoring	Tools (systems)	Setting
Author keywords	• Nutrition • Malnutrition • Nutritional • Hospital malnutrition • Dietary assessment • Food habits • Eating • Diet records • Nutritional assessment • Nutrition support • Food habits • Eating • Diet records • Nutritional assessment	• Monitoring • Screening • "Technology-based dietary assessment" • Food*record* • Recording • Assessment • Food diary	• Device • Informatics • Technology • Computer • "web-based" • Image*based • Image retrieval • Picture • Digital photography • Mobile device* • Mobile*technology • Smartphone • Technology*assist* • Multimedia tool • Electronic* • Wearable • Signal processing computer/assisted-instrumentation • Software • Wireless technology/instrumentation	• Hospital • Primary*care • Care •

Table 4. Initial Relevance Screening Form

Questions	Options	Exclusion	Additional Notes
1. **What type of source is the result?**	- Journal Paper (go to question 2) - Conference Paper (go to question 2) - Book Section (go to question 2) - Editorial (go to question 2) - Unpublished work (go to question 2) - "Others" (e.g. Commentary, press article)	- If category is in "others"	
2. **Is an abstract available?**	- Yes (go to question 4) - No (go to question 3)		
3. **Can it be concluded from the title that the article deals with technologically-driven nutrition monitoring?**	- Yes (go to question 4) - No	- If category is in "No"	
4. **Does the article imply that technology is implicated in nutrition monitoring?**	- Yes (go to question 5) - No	- No	
5. **Does the article deal with healthcare?**	- Yes (article will stay for further review process) - No	- No	- Healthcare includes: Prevention of diseases, Patient care, healthcare research, healthcare management

List of Abbreviations

PHAC-Public Health Agency of Canada

CVD-Cardiovascular disease

ADL-Activities of daily living

LOS-Length-of-stay

PFP-Pay-for-performance

ICU-Intensive care unit

CCU-Critical care unit