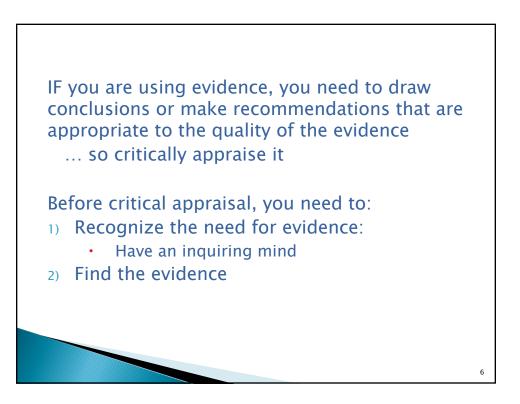
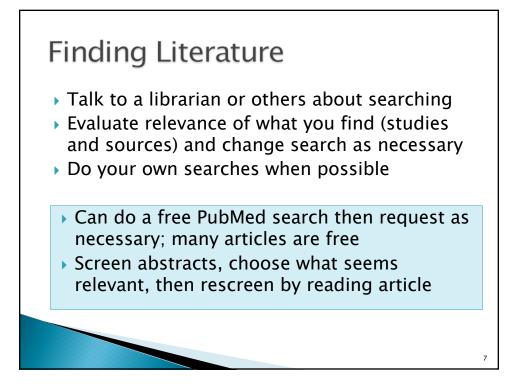
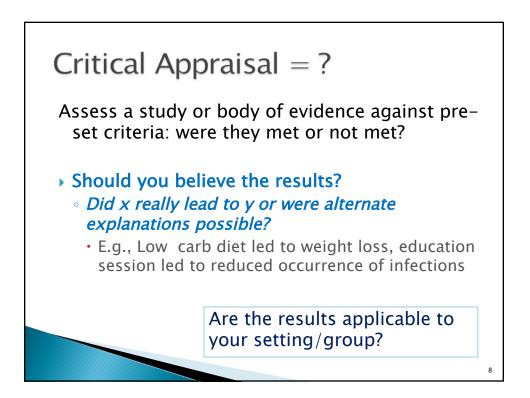
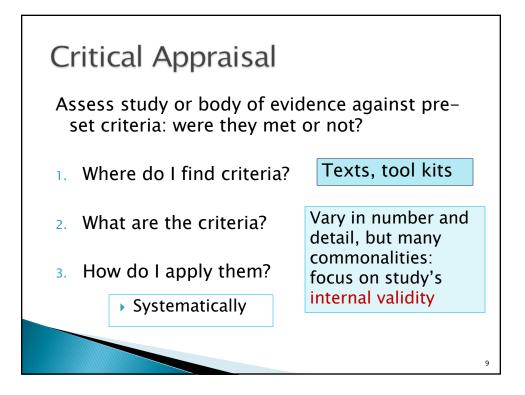


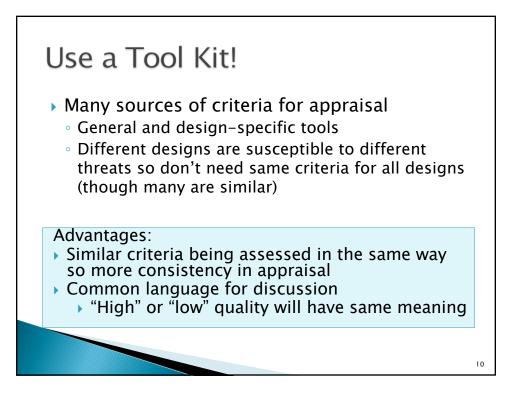
Type of Evidence	Source(s)
Research (qualitative or quantitative)	Published studies Unpublished reports
Indicators	Surveillance, QI
Physical	Lab
Documentary	Documents
Experience	Individuals
<i>Which to use?</i> Depends on what is a to look at the eviden	available and why you want ce







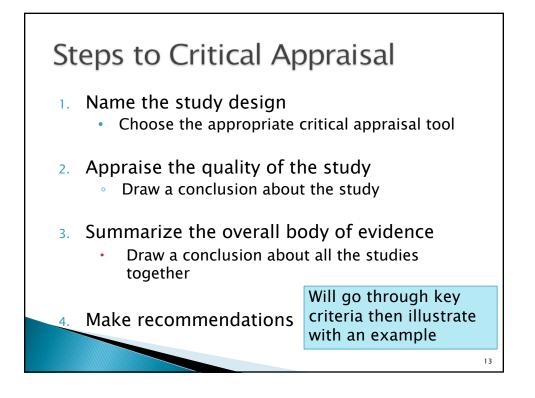


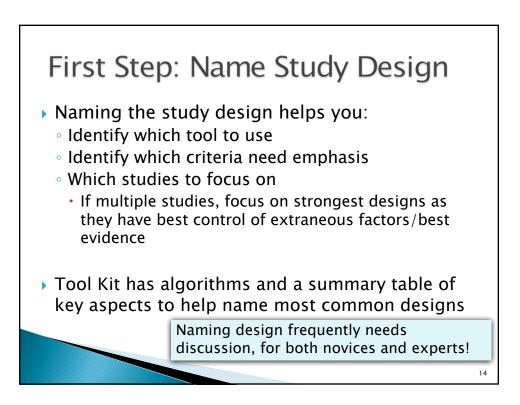


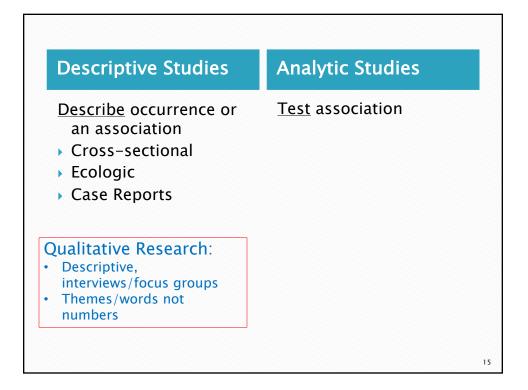


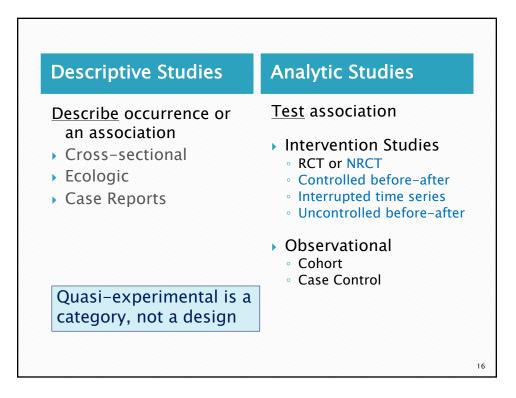
Individual Studies	Support Tools for Appraising Individual Articles	Support Tools for Appraising a Body of Evidence
2 Critical Appraisal Tools, each with a Dictionary: • Analytic Studies • Descriptive Studies	 Naming Study Designs Algorithms Table: Summary of Designs Table: Summary of Common Stats Glossary 	 Literature Review CAT Guidelines for Evidence Summary Table Grading system

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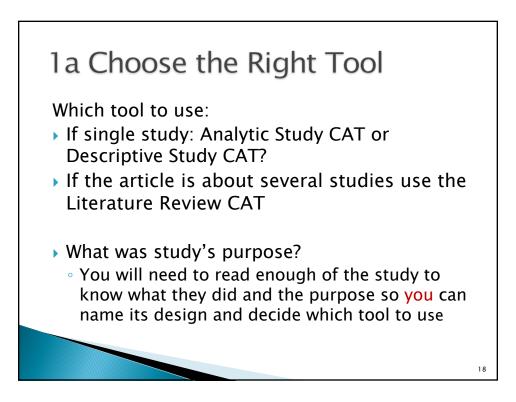


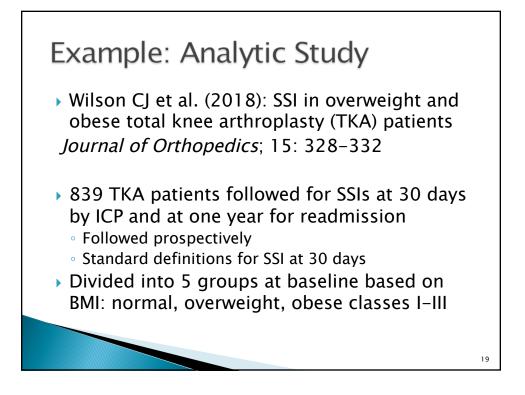


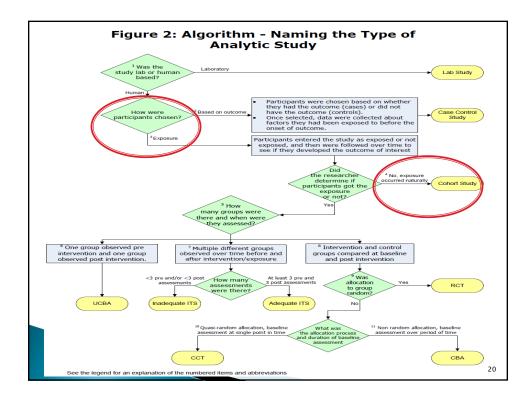




Differe	Different Designs							
Design	Control group?	Allocation to group	Researcher controls intervention	Wha	at is	dor	ıe	
RCT	Yes	Random	Yes	R	0 0	Х	0 0	
Non RCT	Yes	Nonrandom	Yes		0 0	Х	0 0	
Uncontrolled before-after	No	N/A	Yes		0	Х	0	
Cohort	Yes	Natural	No	Ν	0 0	exp	0 0	
Case- control	Cases Controls		having outcon see if had (nat					

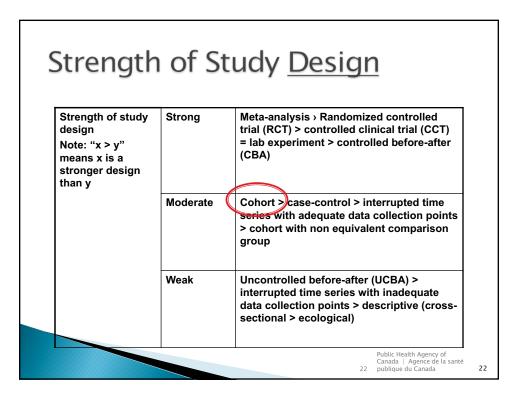




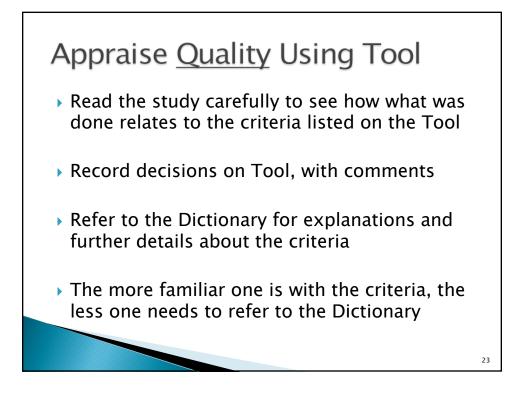


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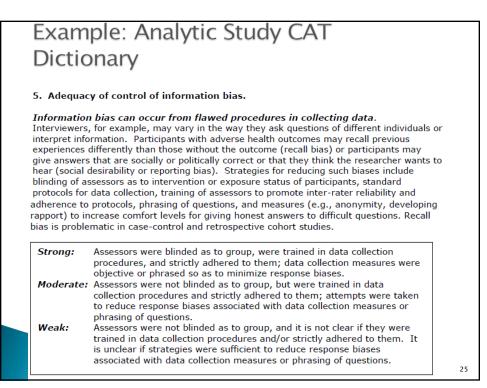


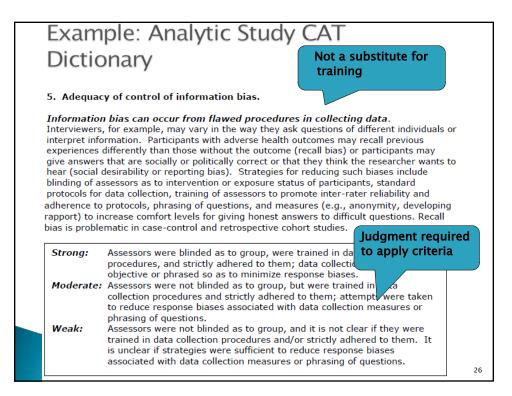


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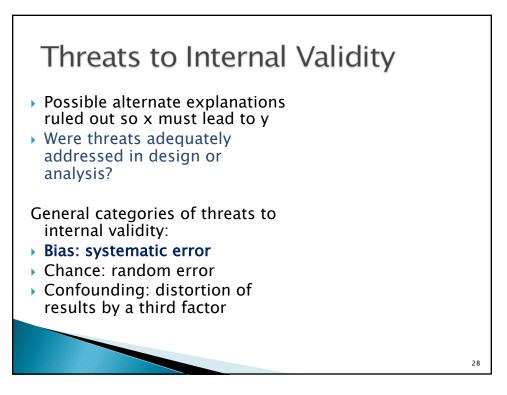


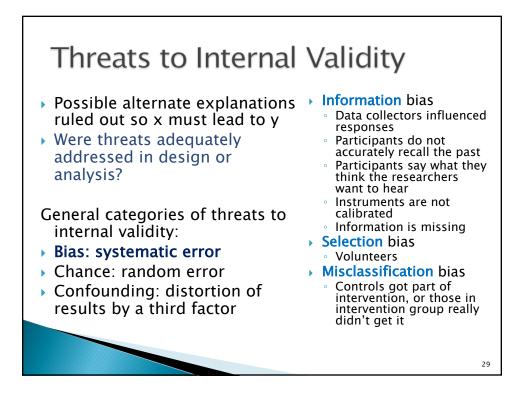
Assess Internal Validity				
	Strong	Moderate	Weak	
4. Adequacy of control of misclassifica- tion bias	Strong intervention integrity with clear definitions of exposure and outcome. Clear temporal association. No missing or inaccurate data.	Strong intervention integrity with clear definitions. Clear temporal association. Some missing or inaccurate data likely creating misclassification in only a few participants.	Any one item: Weak intervention integrity with unclear definitions. Unclear temporal association. Outcomes reported at aggregate level and unclear if individuals had intervention. Missing or inaccurate data likely creating misclassification in many.	
5. Adequacy of control of information bias	Assessors blinded and trained in data collection. Data collection was objective or response bias was minimized.	Assessors were not blinded but trained in data collection. Response bias was minimized.	Assessors were not blinded and unclear if trained in or adhered to data collection methods. Unclear if bias was sufficiently minimized.	

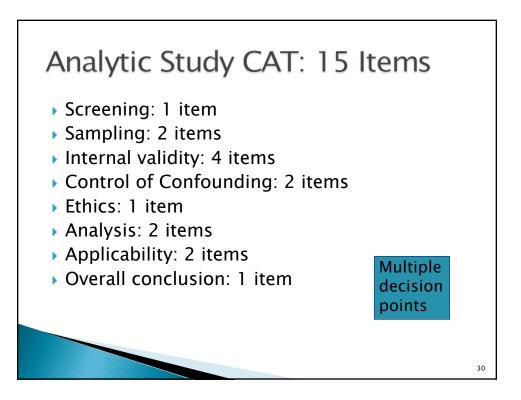


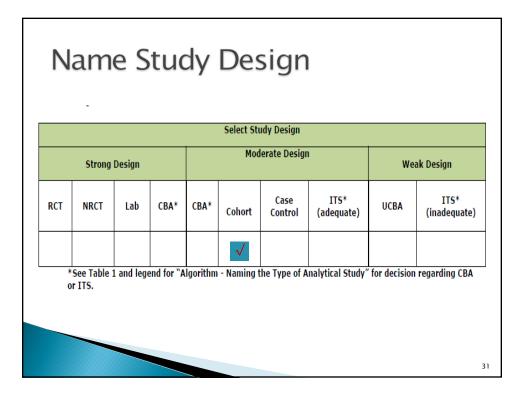


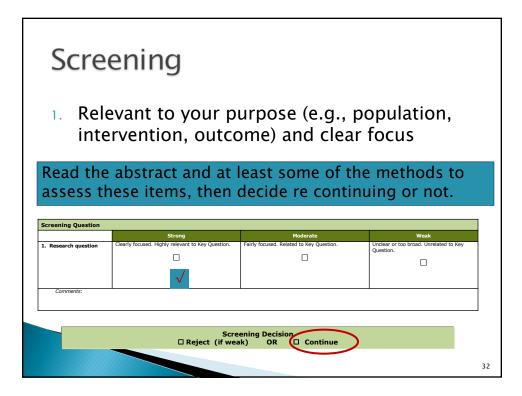
Type of Validity to Appraise				
Purpose	Type of Validity	Assess (criteria related to)		
Believe the <u>study</u> results: Alternate explanations ruled out	Internal validity	Threats to internal validity		
Instrument used measures what it says it measures	Instrument validity	Content, construct validity, (reliability)		
Applicable to your setting	External validity	Generalizability, feasibility		
			27	

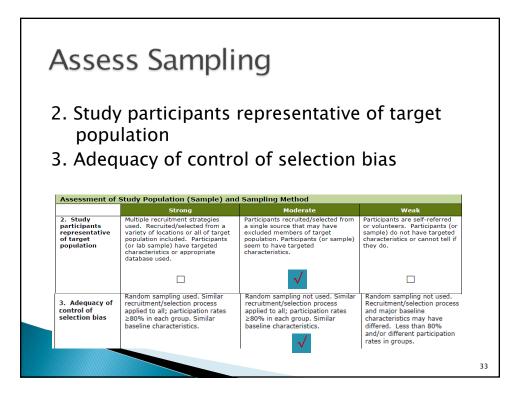


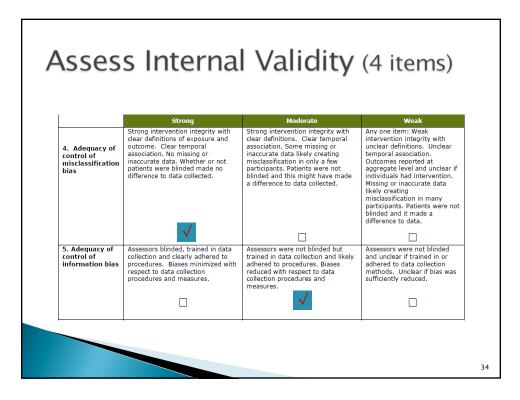










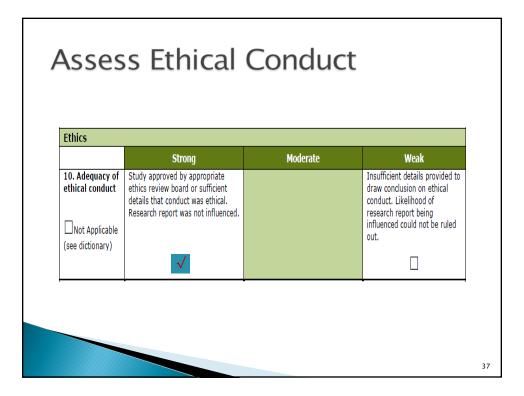


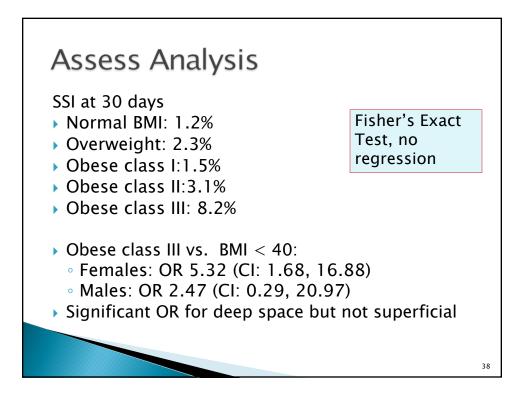
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		Y (continue)	
	Strong	Moderate	Weak
6. Validity and reliability of data collection instruments	Tools are known or were shown to be valid and reliable.	No attempt to assess validity and reliability of tools. Content validity can be assumed based on questions asked and expert involvement.	No attempt to assess validity and reliability of tools. Neithe can be assumed.
		\checkmark	
7. Adequacy of retention and follow-up	>90% of participants completed study. Similar dropout rates between groups with reasons unrelated to exposure.	≥80% of participants completed study. Little difference in dropout rates between groups with reasons unrelated to exposure.	Any one item: <80% of participants completed study Major difference in dropout rates between groups or dropout reasons could be related to exposure.
	\checkmark		

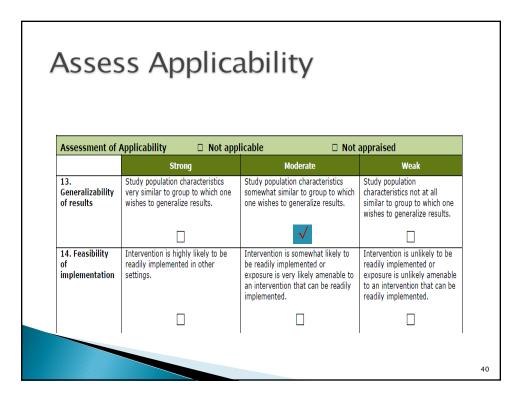
		Inding	
Assessment for	Control of Confounding		
	Strong	Moderate	Weak
8. Comparability of control group and intervention group.	Groups were similar at baseline and assessed concurrently. Appropriate controls used in case-control study.	Groups were comparable at baseline with minor differences. Appropriate controls in case-control study.	Any one item: No concurrent control group or major differences existed between groups or similarity of groups was not assessed.
		\checkmark	
9. Adequacy of control of major confounders	Appropriate randomization to groups or appropriate matching / statistical analysis / lab conditions adequate for controlling confounding. Major confounders examined.	Unclear/inadequate randomization or inappropriate matching but statistical analysis adequately controlled for confounding or lab conditions only partially controlled for confounding. Major confounders examined.	No randomization to groups of appropriate matching. Statistical analysis or lab conditions did not control for confounding. Major confounders not examined.
		\checkmark	

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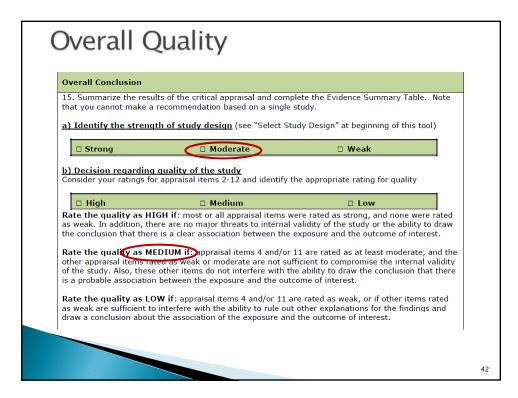


Assessment of	Analysis		
	Strong	Moderate	Weak
11. Adequacy and interpretation of statistical testing	Statistical tests appropriate for level of data and hypothesis being tested. Probability values and confidence intervals interpreted correctly.	Simple tests used correctly but data warranted more sophisticated tests. Control of confounding was limited.	Tests were incorrect for data or information not given on tests used. Results not interpreted correctly.
(See Table 5)		\checkmark	
12. Power and sample size	Significant differences were found, thus sample size was sufficient or no significant differences found but researchers reported sufficient power.	Significant differences not found and researchers reported that study power was insufficient. Sample size seemed reasonable.	Significant differences not found and sample size was small. Adequacy of the study power not reported.
		~	

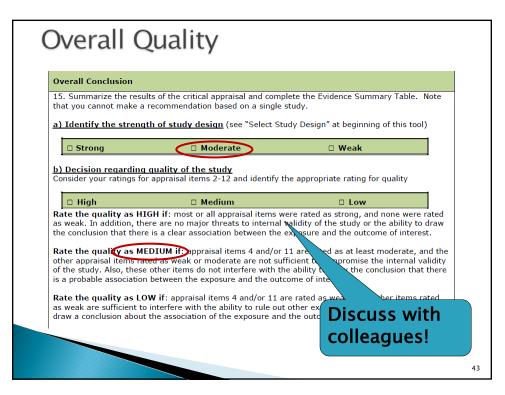


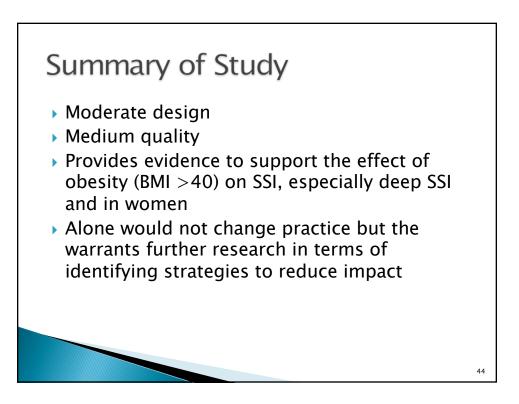
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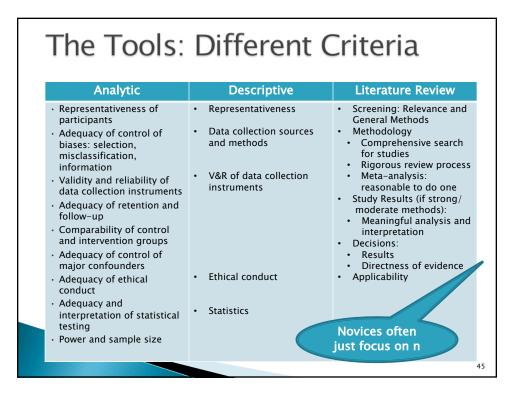
Decision re Quali	ty		
Item	Strong	Moderate	Weak
2. Sample representative		Х	
3. Control of selection bias		Х	
4. Control of misclassification bias	Х		
5. Control of information bias		Х	
6. V&R of instruments		Х	
7. Adequacy of retention	Х		
8. Comparability of groups		Х	
9. Control of major confounders		Х	
10. Ethical conduct	Х		
11. Stats testing		Х	
12. Power and sample size		Х	

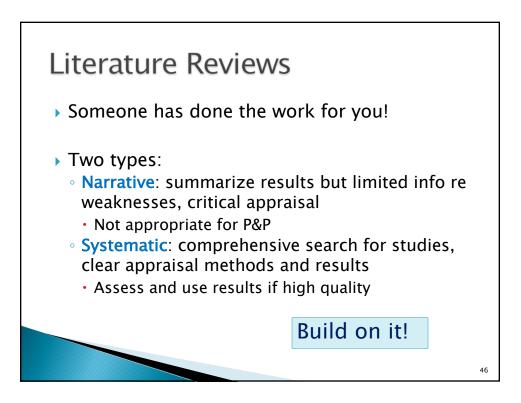


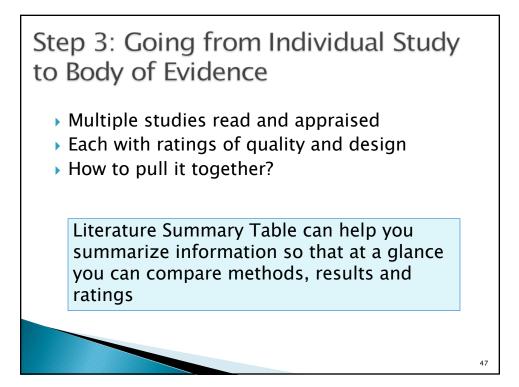
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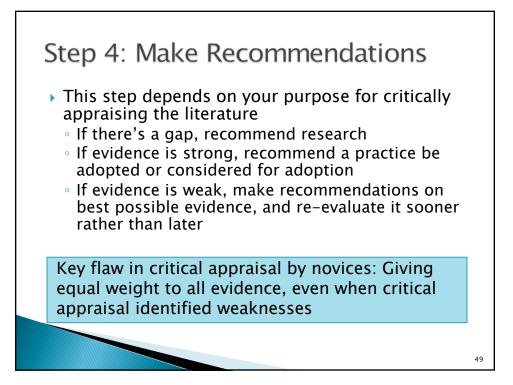


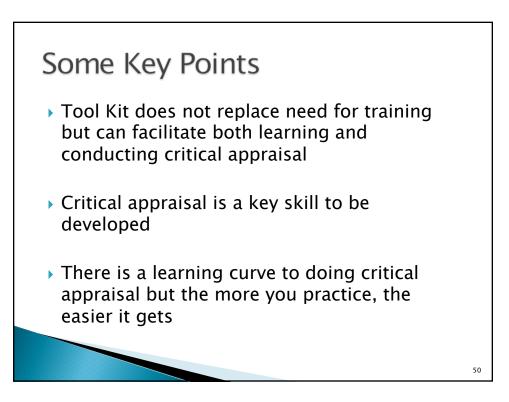


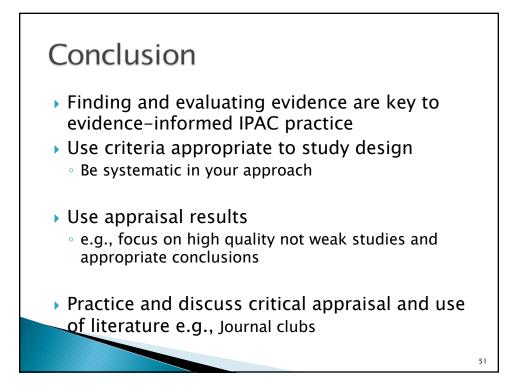
Evidence Summary Table

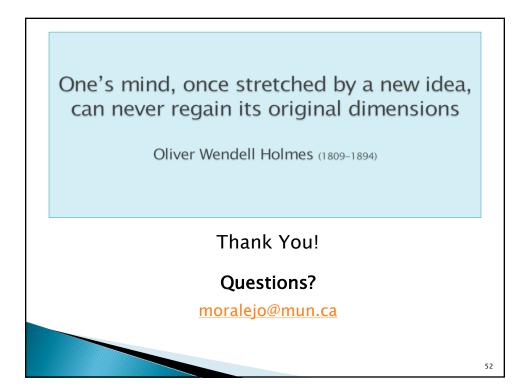
Review body of evidence: at a glance, can see number of studies, magnitude and consistency of results, and quality of studies

Ref. List # Author (Year) ID#	Methods and Outcome Measures	Results	Conclusions and Comments: Strength of Design, Quality and Directness of Evidence	
Pichesathean 2004 #13369	Well-conducted systematic review	Identified multiple other studies not included here, with consistent results re reduction of microbial load with ABHR (different concentrations) in comparison to other solutions and on increasing compliance with hand hygiene.	Multiple studies of strong design and high quality	
100 Kac 2005 #13230	5 wards, 10 HCWs per ward (multiple types of HCWs) Each performed 1 of 2 HH procedures per day (in random order): ABHR = Sterillium or HW with plain soap HH performed right after pt care activity Culture before and after HH	Significant reduction in CFUs for both HW (by 75%) and ABHR (by 99%), but decrease was significantly higher for ABHR ($p < .01$) 8 HCWs of 49 did not follow correct ABHR procedure 73% of those who failed to use correct HW technique did follow correct ABHR procedure	Controlled before-after, cross-over Strong design High quality	
73 Lucet 2002 #13223	5-7 volunteers per ward, 7 wards Each performed 6 HH techniques in random order over one week, right after a procedure on the clinical unit Took a culture just before and after each HH technique HH techniques were ABHR (= Sterillium), HW with antiseptic soap for 10, 30 or 60 sec and HW with unmedicated soap for 10 or 30 sec.	Significant bacterial log reduction with HW with antiseptic soap (1.13- 1.21) and ABHR (1.40) vs. HW with regular soap (.5174) No significant difference in bacterial reduction between HW with antiseptic soap and ABHR	Controlled before-after Strong design High quality	41









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September 6, 2018	MOLECULAR DIAGNOSTICS AND ITS ROLE IN INFECTION PREVENTION Speaker: Sanchita Das, University of Chicago
September 13, 2018	(FREE Teleclass) NEONATAL SEPSIS PREVENTION IN LOW-RESOURCE SETTINGS Speaker: Prof. Dr Angela Dramowski, Stellenbosch University, Cape Town
September 20, 2018	THE SILENT TSUNAMI OF AZOLE-RESISTANCE IN THE OPPORTUNISTIC FUNGUS ASPERGILLUS FUMIGATUS Speaker: Prof. Paul E. Verweij, Radboud University Center of Expertise in Mycology, The Netherlands
September 27, 2018	CHLORHEXIDINE USE AND BACTERIAL RESISTANCE Speaker: Prof. Jean Yves Maillard, Cardiff University, Wales
September 30, 2018	(FREE European Teleclass - Broadcast live from the 2018 IPS conference) Cottrell Lecture SURVEILLANCE BY OBJECTIVES: USING MEASUREMENT IN THE PREVENTION OF HEALTHCARE ASSOCIATED INFECTIONS Speaker: Prof. Jennie Wilson, University of West London
October 2, 2018	(FREE European Teleclass - Broadcast live from the 2018 IPS conference) Ayliffe Lecture (TO BE POSTED) Speaker: Prof. Shaheen Mehtar, Stellenbosch University, Cape Town, South Africa
Ontoiner 11, 2010	(FREE CBIC Teleclass)

