



YOUR PRESENTERS



Caroline Nott, MBBS, FRCPC Director, Antimicrobial Stewardship Program, The Ottawa Hospital

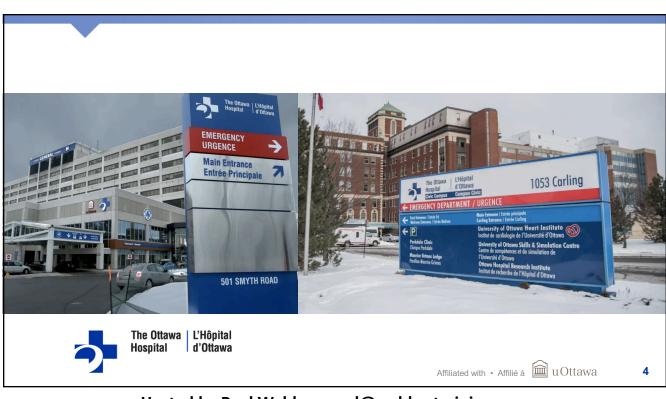


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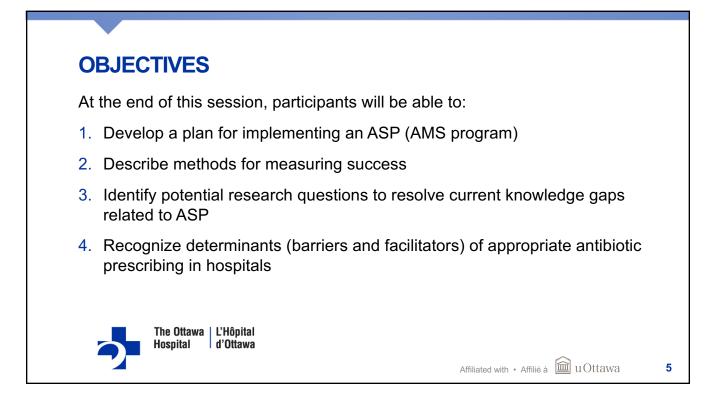


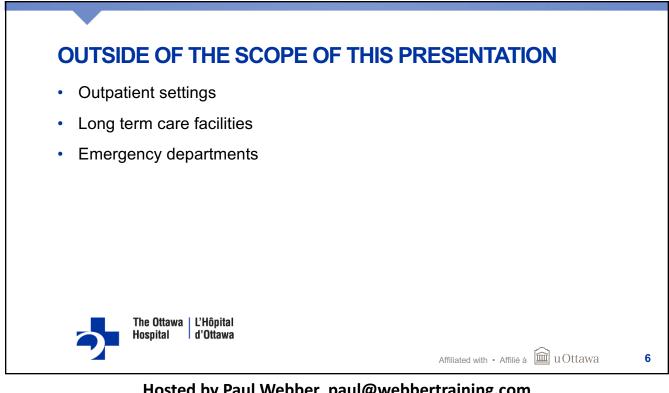
Kathryn Suh, MD, FRCPC Director, Infection Prevention and Control, and Antimicrobial Stewardship Physician, The Ottawa Hospital

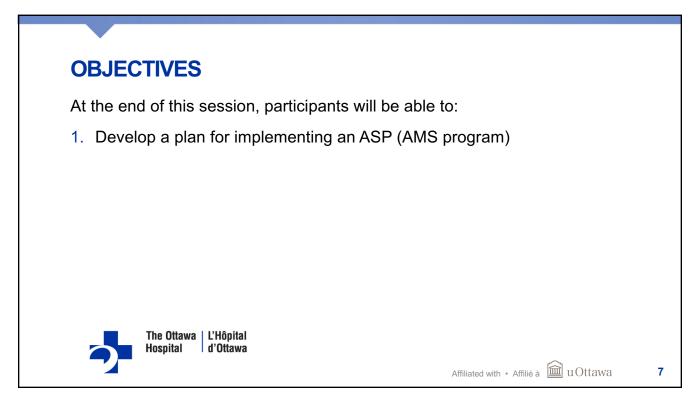




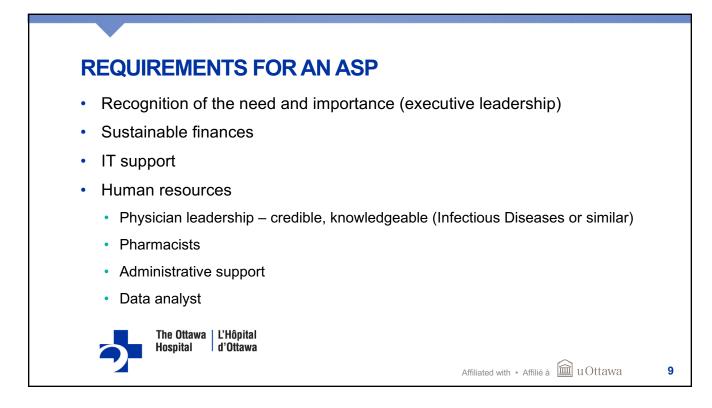
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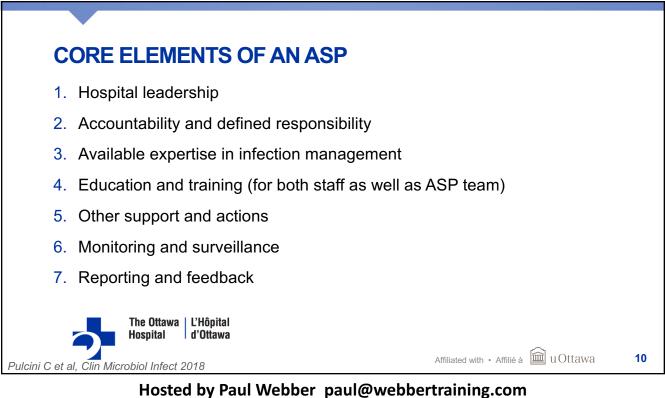


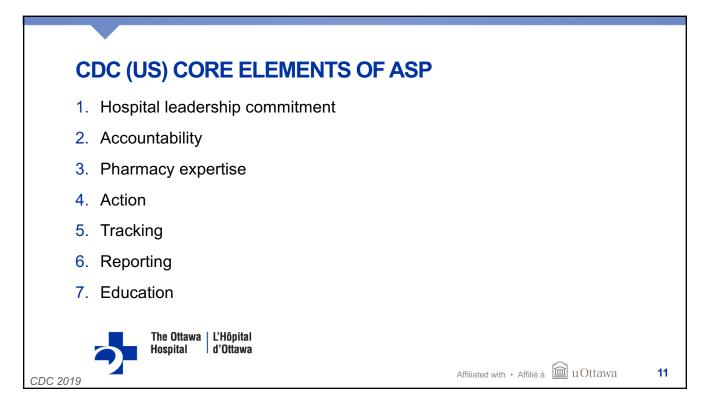


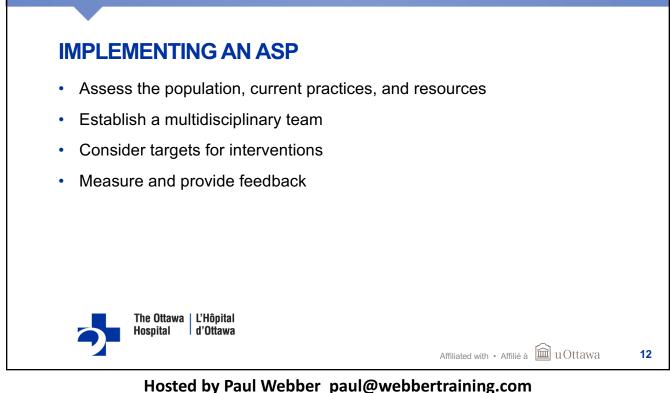


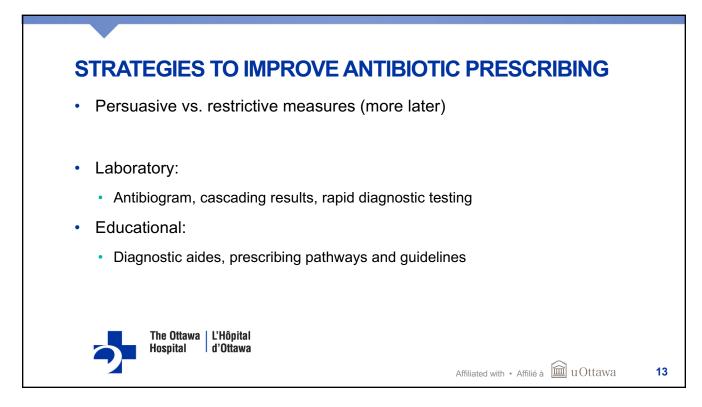


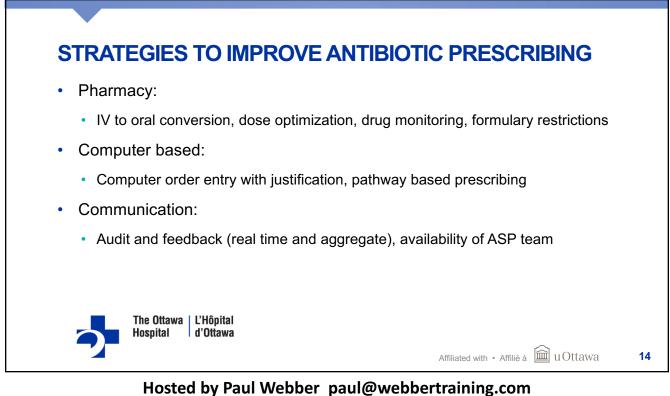


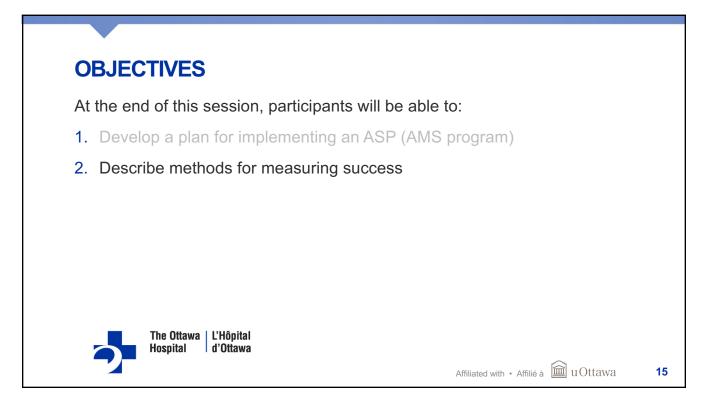




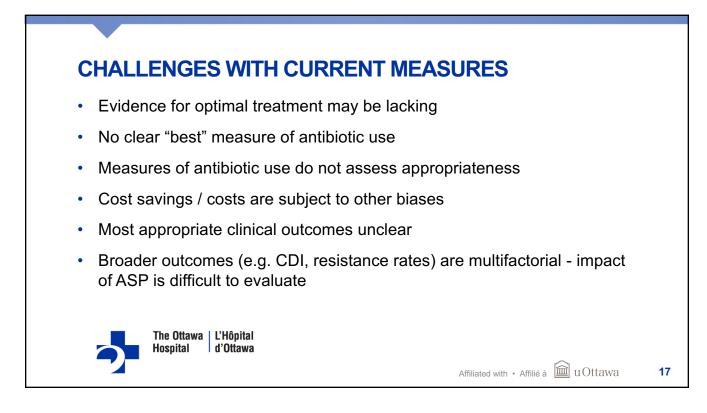


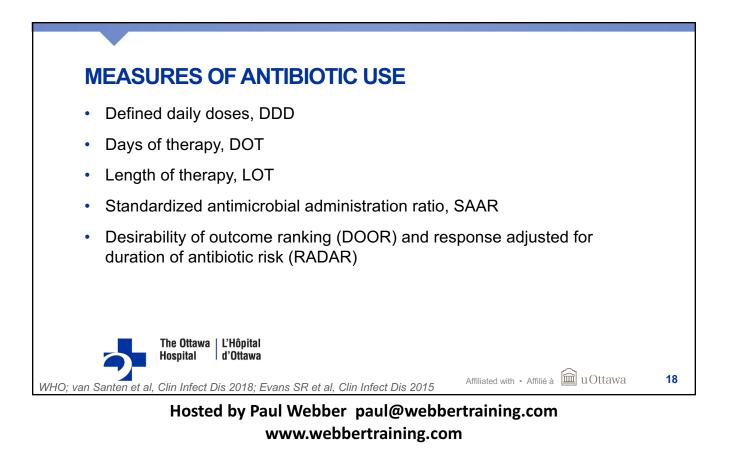




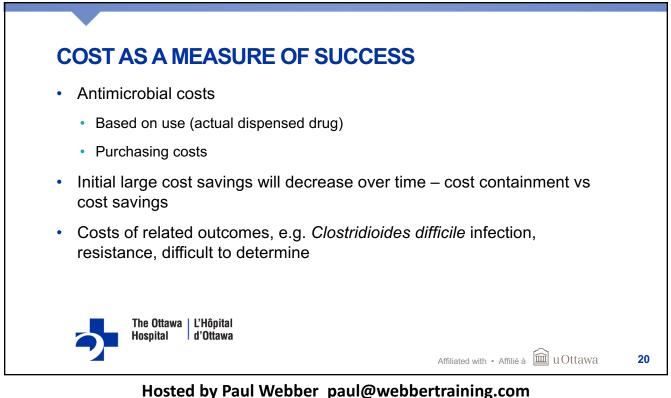






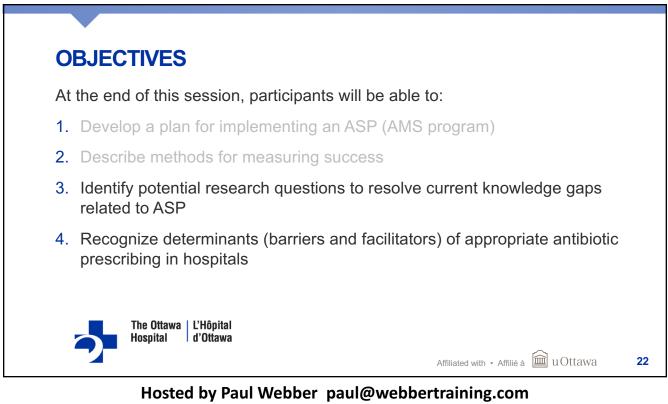


Magazina Advantance Disadvantance		
Measure	Advantages	Disadvantages
DDD	Standardized"easy" to calculate	 Doses for DDDs are sometimes not commonly prescribed doses Not accurate in some populations Subject to change (WHO)
DOT	 Preferred metric (NHSN) More intuitive, comparable	 Needs pharmacy data Favours broad monotherapy > more appropriate combination therapy
LOT	 Allows assessment of treatment duration 	
SAAR	 Allows comparison to benchmark 	 Relies on submission of data to NHSN – generalizability?
DOOR/RADAR	• Research at present, not wi	delv used

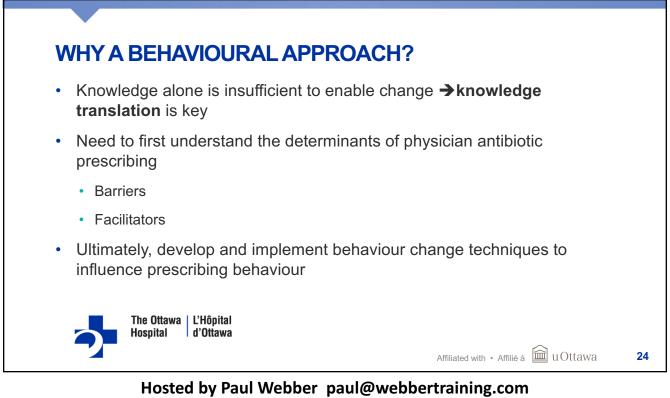


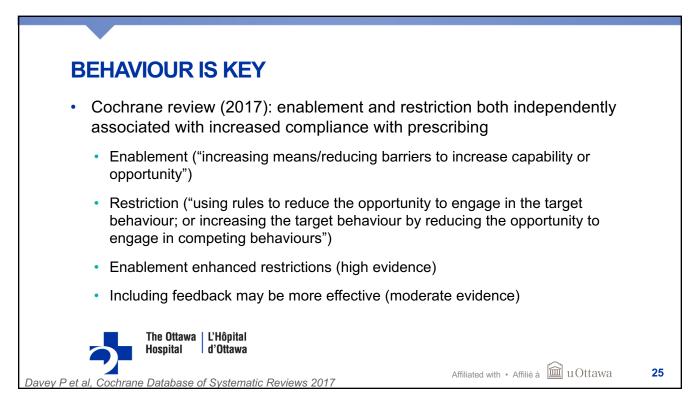
QUALITY INDICATORS FOR ASP

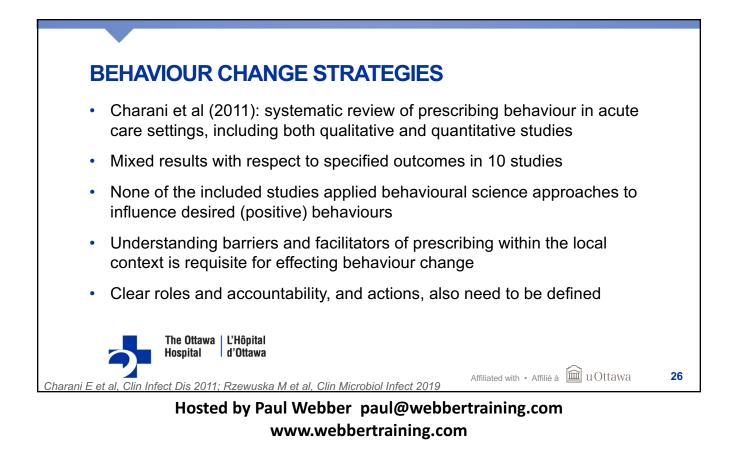
	Morris, 2012	Moehring, 2017	Science, 2019
Antimicrobial Use	DOTS/patient days	DOTs/patient days DOTs/admissions	DOTS/patient days Total antimicr days
Clinical Outcomes	ARO mortality All cause mortality Conservable days 30d readmission		30d readmission
Adverse Outcomes	No. patients with AROs	CDI incidence (2 categories) Drug-resist infection	
Process Measures		Redundant therapy	Adherence to ASP recommendations

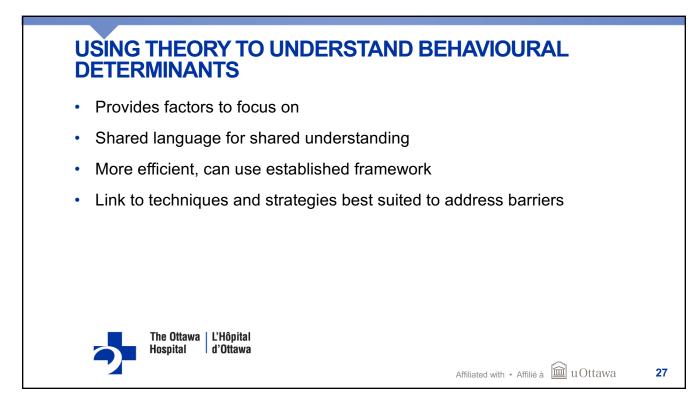


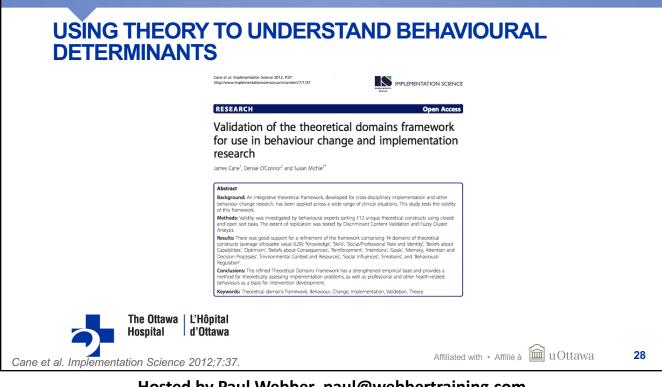




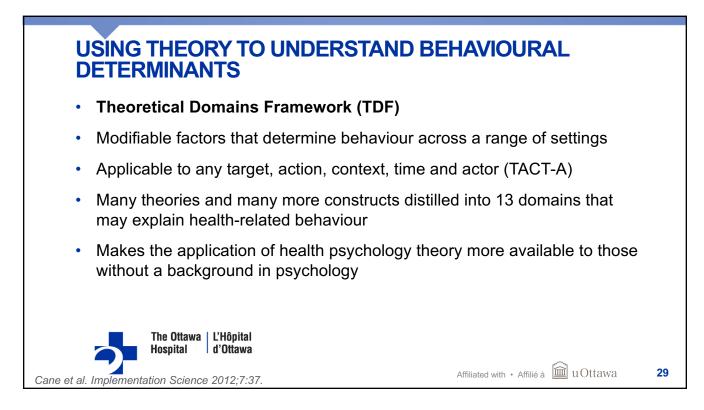








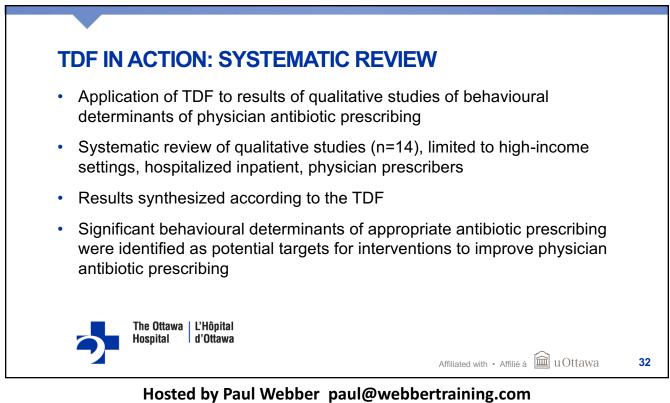
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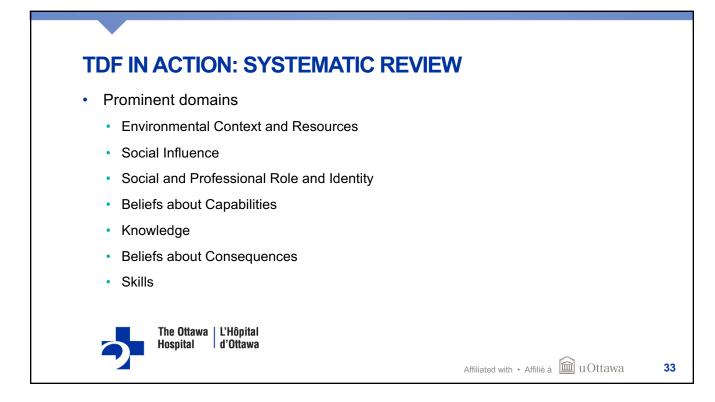


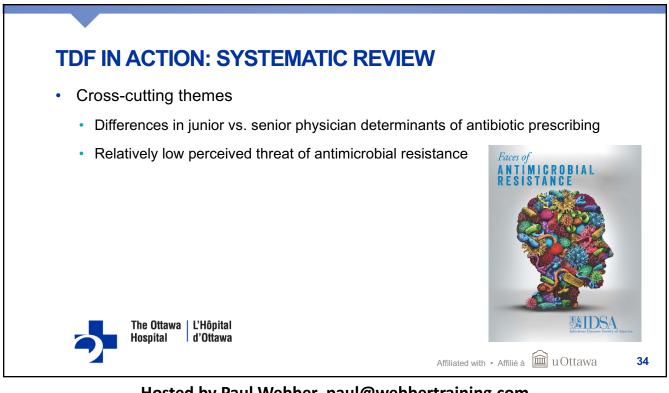
THEORETICAL DOMAINS FRAMEWORK (TDF)

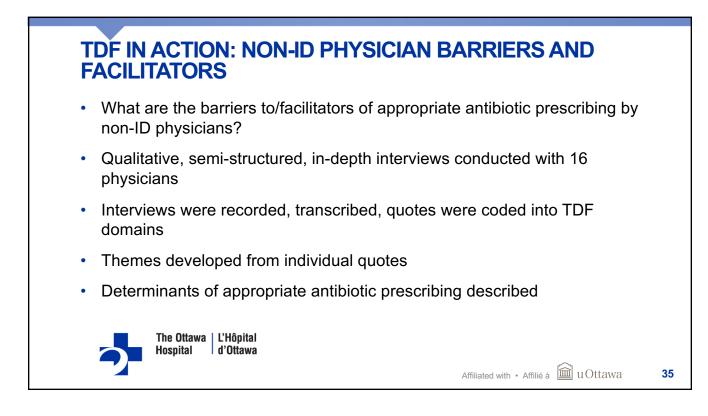
Domain	Description
Knowledge	Existing procedural knowledge, knowledge about guidelines, knowledge about evidence and how that influences what the participants do
Skills	Competence and ability about the procedural techniques required to perform the behaviour
Social / professional role and identity	Boundaries between professional groups (i.e., is the behaviour something the participant is supposed to do or someone else's role?)
Beliefs about capabilities	Perceptions about competence and confidence in doing the behaviour
Optimism	Whether the participant's optimism or pessimism about the behaviour influences what they do
Beliefs about consequences	Perceptions about outcomes, advantages, and disadvantages of performing the behaviour and how that influences whether they perform the behaviour
Reinforcement	Previous experiences that have influenced whether or not the behaviour is performed
entation Science 2012;7:37	

HEORETICAL DOMAINS FRAMEWORK (TDF)				
Domain	Description			
Intention	A conscious decision to perform a behaviour or a resolve to act in a certain way			
Goals	Priorities, importance, commitment to a certain course of actions or behaviours			
Memory, attention, and decision processes	Attention control, decision-making, memory (i.e., is the target behaviour problematic because people simply forget?)			
Environmental context and resources	How factors related to the setting in which the behaviour is performed (e.g., people, organisational, cultural, political, physical, and financial factors) influence the behaviour			
Social influences	External influence from people or groups to perform or not perform the behaviour How the views of colleagues, other professions, patients and families, and doing what you are told, influence the behaviour			
Emotion	How feelings or affect (positive or negative) may influence the behaviour			
Behavioural regulation	Ways of doing things that relate to pursuing and achieving desired goals, standards, or targets Strategies the participants have in place to help them perform the behaviour Strategies the participants would like to have in place to help them			
t al. Implementation Science 2012;7:37.				



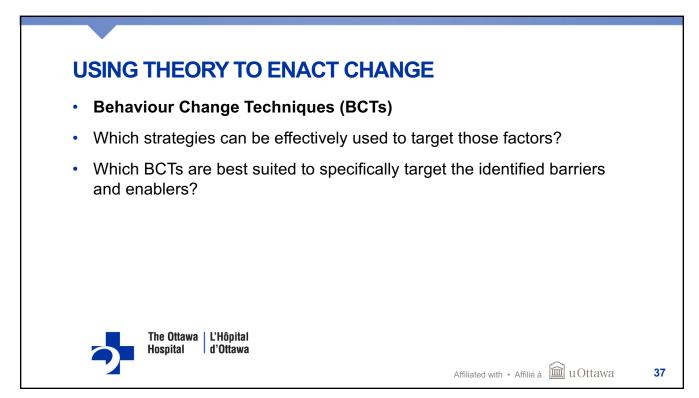


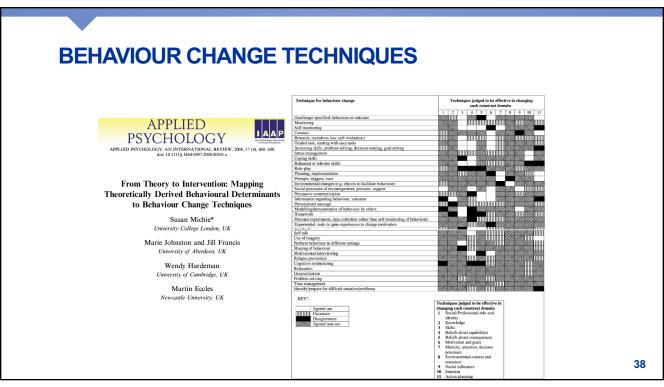


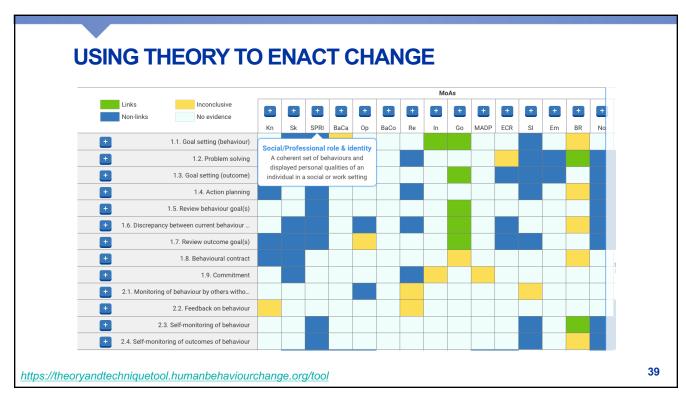


TDF IN ACTION: NON-ID PHYSICIAN BARRIERS

Selected TDF Domains	Dominant Examples (order does not reflect frequency or relevance)
ntention	 I intend to prescribe appropriately I intend to follow guidelines as much as possible
Nemory, attention and decision	 I follow guidelines to help make decisions The sicker the patient, the more anxious I am, the more broadly I prescribe For various steps of antibiotic prescribing my decisions are automatic
kills	 Experience and knowledge of guidelines improve confidence in antibiotic prescribing I have/ have not received training in antibiotic prescribing
nvironment, context and resources	 I have / do not have access to adequate resources to appropriately prescribe antibiotic Prescribing is influenced by the culture where I work My knowledge about prescribing comes from speaking with colleagues
Goals	 Appropriate antibiotic prescribing is / is not a priority to me The "5-steps" of prescribing are important to me (i.e. Does this patient require antibiotic? What empiric antibiotic? Dose? Duration? Switch IV to oral?) Compliance with guidelines
Beliefs about consequences	 Fear of under-treatment Antibiotic prescribing has consequences (including side effects)







TDF IN ACTION: ID PHYSICIAN BEHAVIOUR CHANGE TECHNIQUES (BCTS)

- What BCTs are ID physicians currently using to influence their non-ID colleagues' antibiotic prescribing behaviours?
- Qualitative, semi-structured, in-depth interviews with 12 ID physicians
- Interviews were recorded, transcribed, quotes were coded into TDF domains
- Themes developed from individual quotes
- Explored whether ID physicians see themselves as agents of change for their non-ID peers and described BCTs currently in use

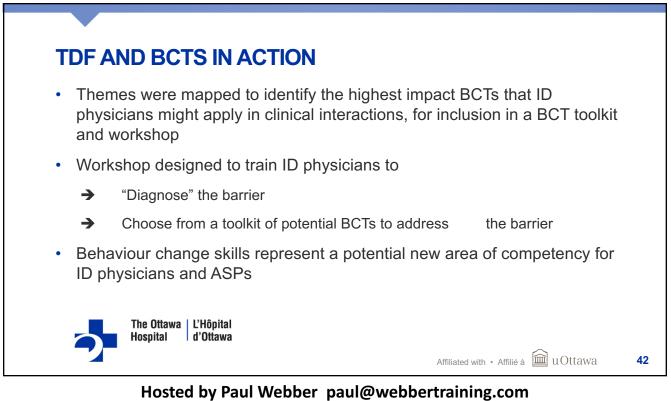


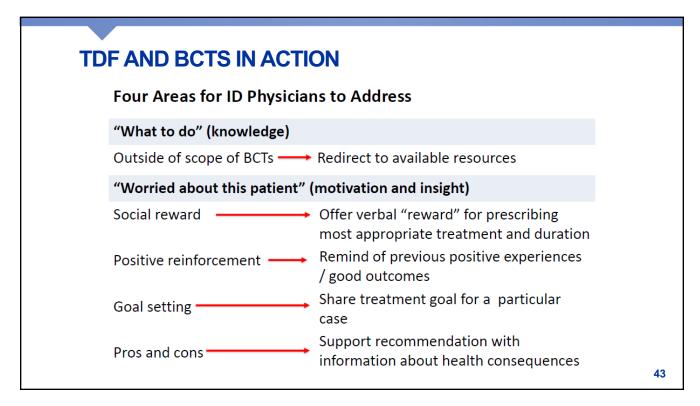
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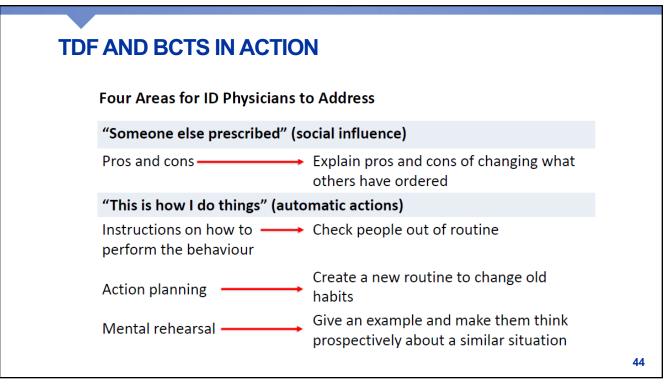
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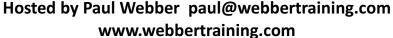
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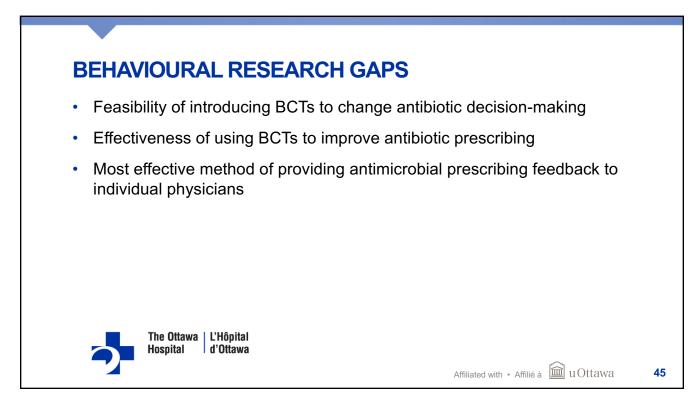
Most Frequently Used Strategies by ID Physicians	Examples
Give instructions on how to perform the behaviour	 Write the recommendation in the chart Refer recommendation to the specific patient, but generalize when possible Discuss in person
Provide social support	 Agree on next steps together "Permission" for non-ID approach first, if appropriate, then ID approach Promote autonomy of non ID physicians
Inform about consequences	Explain rationale for prescribing antibioticsReinforce key messages in consult
Be a credible source	Provide evidence (e.g. guidelines, published evidence, local data)
Focus on past successes	Remind non-ID physicians of their past successes



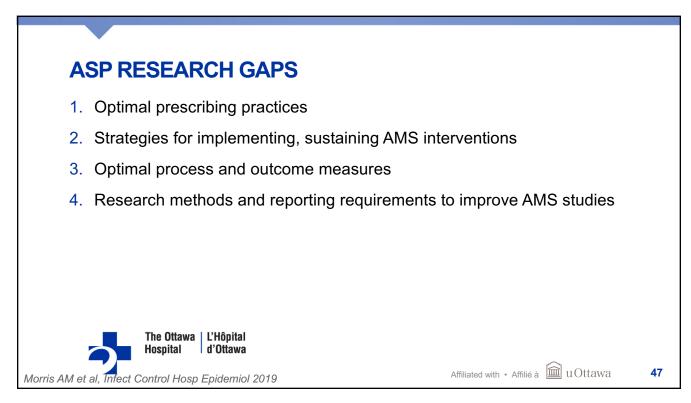


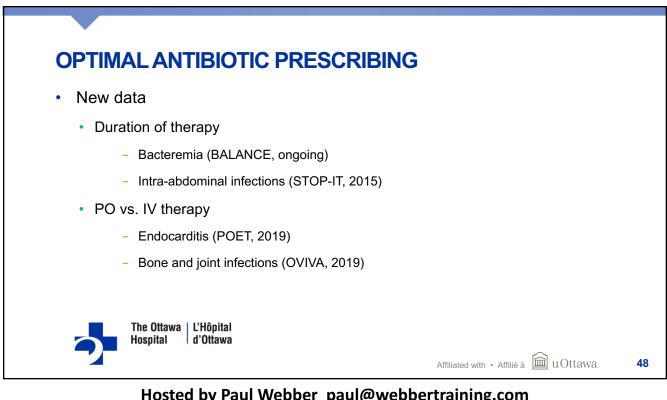


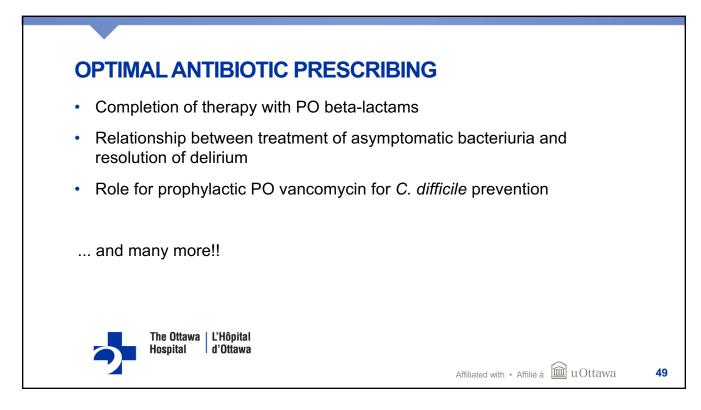


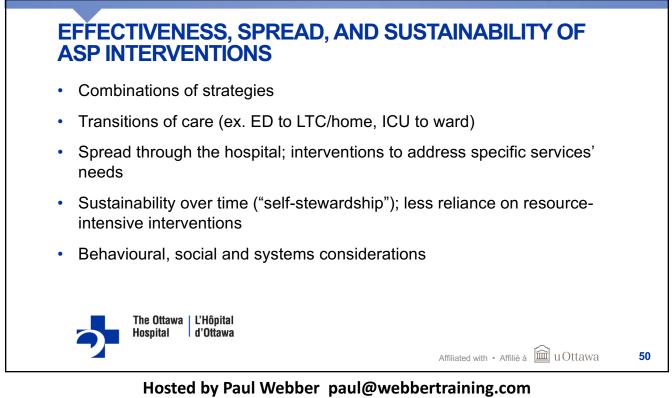




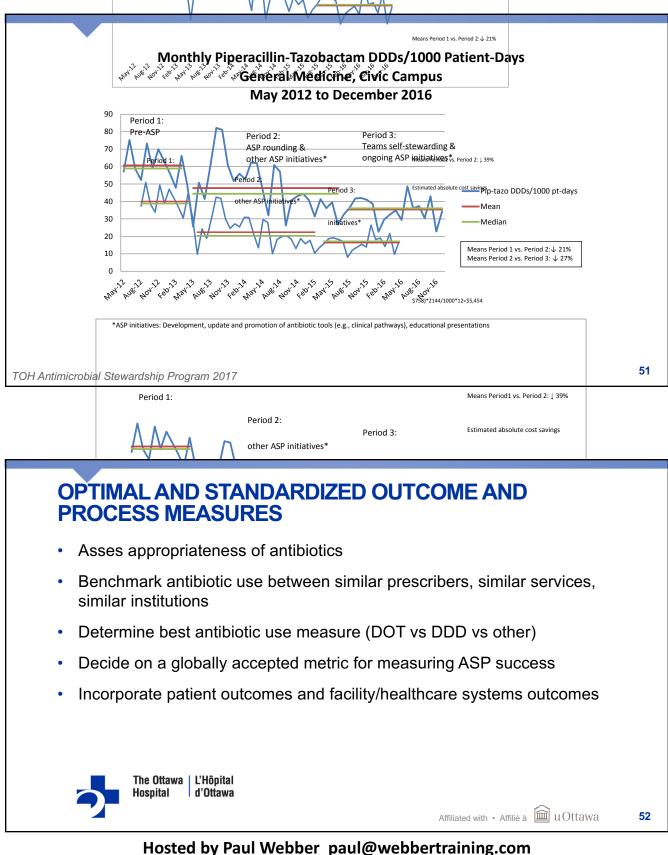


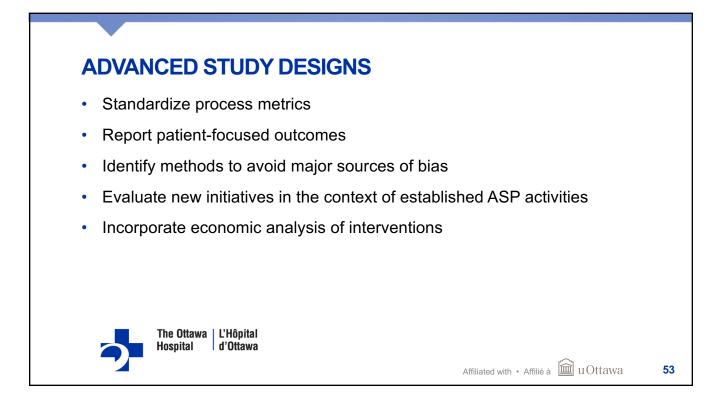


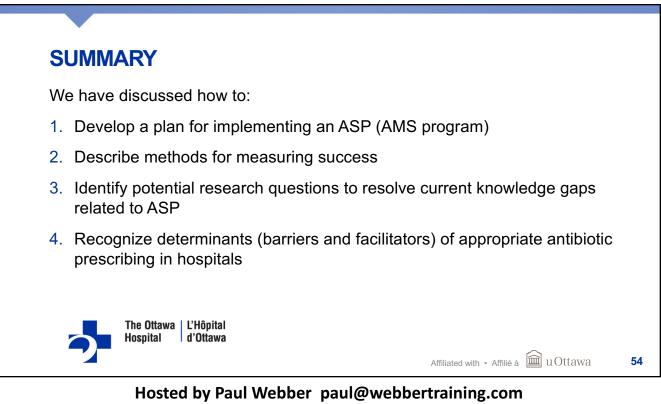


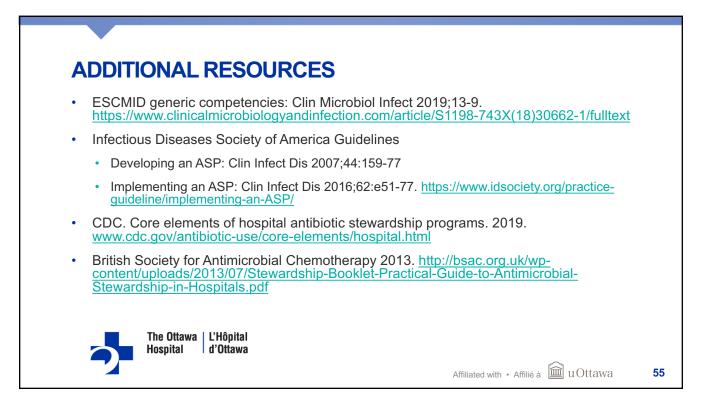


A Webber Training Teleclass









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November 21, 2019	PRIORITIZING RESEARCH AREAS FOR ANTIBIOTIC STEWARDSHIP PROGRAMS Speaker: Dr. Caroline Nott and Dr. Kathryn Suh, The Ottawa Hospital
December 5, 2019	HOW TO COMMUNICATE ABOUT HEALTHCARE-ASSOCIATED INFECTION WITH X, Y AND Z GENERATIONS Speaker: Dr Anne-Gaëlle Venier, Hôpital Pellegrin - CHU de Bordeaux, France
December 18, 2019	(<u>FREE Teleclass)</u> <u>CLEANING IN HEALTHCARE</u> Speaker: Prof. Andreas Voss , Radboud University, The Netherlands
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