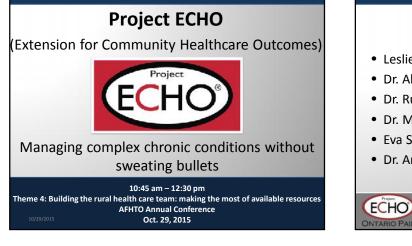
ECHC



Presenters:

- Leslie Carlin, PhD
- Dr. Allison Crawford, MD FRCPC
- Dr. Ruth Dubin, PhD, MD, FCFP, CCAPM, DAAPM
- Dr. Mayur Brahmania, MD MPH
- Eva Serhal, MBA
- Dr. Amanda Steiman, MD, MSc, FRCPC

Contributors:

- Dr. Andrea Furlan, MD, PhD (Co-Chair of ECHO Ontario Chronic Pain and Opioid Stewardship)
- Paul Taenzer, PhD (ECHO Ontario Pain executive hub member)
- Hannah Sidrak, MD (ECHO Ontario qualitative research student)
- Jane Zhao, MSc (ECHO Ontario Pain research coordinator)





Conflicts of Interest Declaration

- Dr. Ruth Dubin, Dr. Jordan Feld, Dr. Allison Crawford, Leslie Carlin, and Eva Serhal have no conflicts of interest to declare
- Dr. Amanda Steiman:

 Honorarium (Abbvie); Clinical trial co-investigator (until June 2014: UCB, Teva, Astra-Zeneca)
- ECHO Ontario is funded by the Ontario Ministry of Health and Long-Term Care and an OMA Complex Patient grant to Dr. Dubin



Learning Objectives

- Understand the basic principles of ECHO
- Become familiar with the ECHO Ontario chronic pain/opioid stewardship and ECHO Ontario Mental Health Projects
- Envisage how complex chronic conditions (Hepatitis C, rheumatology) benefit from an ECHO Model
- Participate in a mock ECHO session

(ECHO)



Meet Daniel in 1995...

• 35 years old

ECHO

- Referred to you for primary care after prolonged hospitalization for severe depression 25 years ago
- History of severe childhood abuse, illiterate, "tied to a chair".
- All siblings had substance abuse issues (Alcohol, cocaine, IVDU).



Daniel continued...

- Has severe low back pain with sciatica
- Also has episodes of very sore and swollen joints
- Also found to have hepatitis C: "not a candidate for interferon" due to depression
- Continues to drink alcohol and uses marijuana
- Occasional violent altercations with wife who is also your patient
- No children





This is a real patient!

- How keen are you to look after him?
- What barriers exist to effectively manage his conditions for:
 - Chronic Pain
 - Mental Health and Addiction
 - Hepatitis C
 - Joint Pain
- ECHO

(ECHO)

entre de la set





- Wait times for pain clinics can stretch into years
- People's mood and quality of life suffer while waiting; pain and disability increases
- 25 to 30 % of pain patients have suicidal thoughts

ECHO

 Costs of care (private and government insured): average >\$3000/month (travel, meds, lost wages, OHIP billings, 3rd party costs)

Training provided for pain management (acute and chronic) in Canada		
Med students	16 hrs	
GP trainees	3.5 hrs	
Vet students	87 hrs	
There are minimal pre-licensure requirements for pain for Canadian physicians.		

There is even less time spent on addiction training (VALE-WALLONE 4J, 2008 Pain Res Manage 13.111; Dubin et al, 2011 Pain Res Manage 16.105; WALE-WALLONE et al 2013 Pain Res Manage 18.25) 10/29/2015



ECHO

LANCIDIK VALIANA Andres - Marcin M

Anthropology in ECHO



 -Woman walks into a seminar room....

-Studying up: the role of the ECHO anthropologist

- ECHO Ontario (Pain) as a community of practice

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ECHO

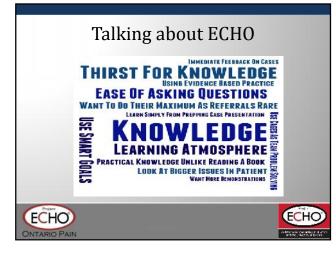


Qualitative data from ECHO Ontario-Chronic Pain

- 6 focus group discussions (FGDs)
- Setting: semi-annual 'boot camps' (mini-residencies) in Toronto, Thunder Bay, and Kingston, 2014-2015
- Total = 42 participants
 - 21 MDs, 7 NPs, 3 OTs, 3 Pharm, 3 SWs, 2 PAs, 2 RNs, 1 PT
 - 12 men, 30 women

ECHO

 FGDs recorded, transcribed, annotated; analyzed by hand and with help from NVivo (qualitative data analysis software program)





(ECHC

Burden on Family MDs

My chronic pain patients-- I don't have a huge number-- are my most challenging patients, and I've got their faces in my brain... My top three probably take more brain and mental energy than the next 500 most challenging people. I often feel helpless.





Emerging themes

Problems

- 'I have to learn more': inadequate training in management of chronic pain
- 'Another roadblock': lack of resources and the challenge of northern medicine

Solutions

ECHO

- 'It's okay to say "no": managing challenging conversations with patients
- 'We now share this common language': building a community of practice

Further investigation

- Semi-structured interviews with 'spokes'
- Interviews with 'hub' participants
- Compare and contrast with other ECHO incarnations- what works, why, what doesn't, why not?





Mental Health and Addictions

- 1/5 Canadians and 1/4 Ontarians experience a mental illness or addiction in their lifetime
- The disease burden of mental illness in Ontario is 1.5 times higher than all cancers combined
- The presence of a mental illness increases the likelihood one will suffer from one or more chronic disease including:
 - cancer

- cardiovascular disease
- type 2 diabetes



Mental Health and Addictions Lack of access to specialized care for MH + A; both in rural/remote and urban areas Delays in Rx in rural areas add to the heavy burden of complex mental illness

- Clinicians in rural areas manage +++ patients with great degree of complexity and comorbidity
- More than 20% of all PCP visits in ON related to MH
- feel equipped to manage straightforward
 feel ill equipped to manage complex/ severe cases



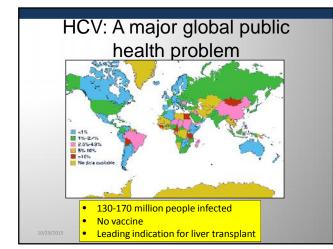
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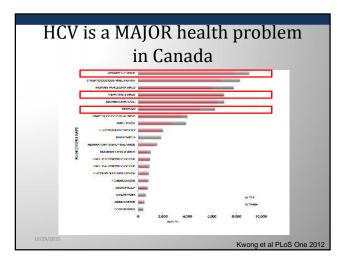


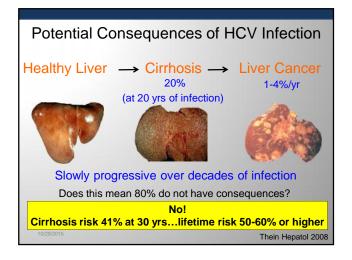
Mental Health and Addictions

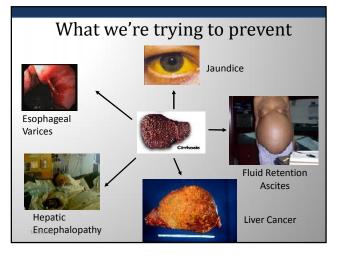
- Complexity **compounded** by Rx side effects, drug toxicities, and co-morbidities
- Optimal management of complex conditions = consultation with specialists from multiple areas
 - Can be \$\$\$ or difficult to access
- For <u>complex patient</u>, far more effective to bring expertise together, than send the patient to multiple experts

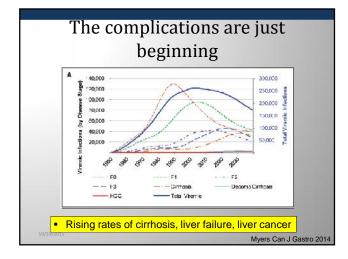


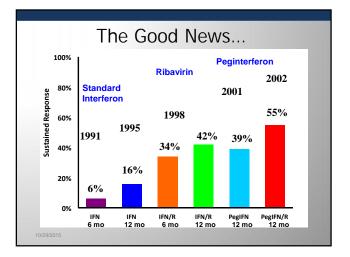


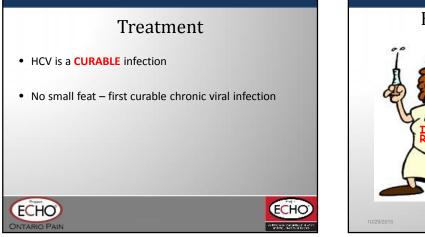




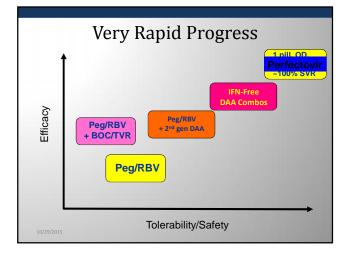


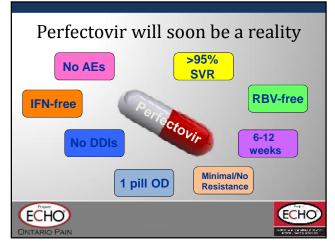


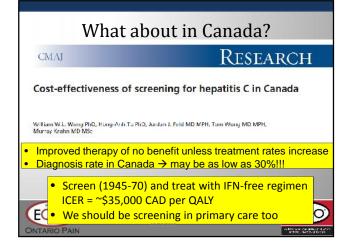


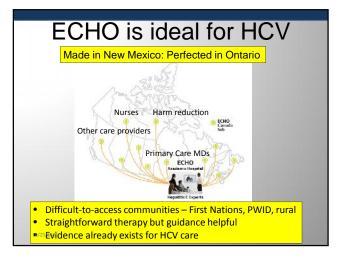


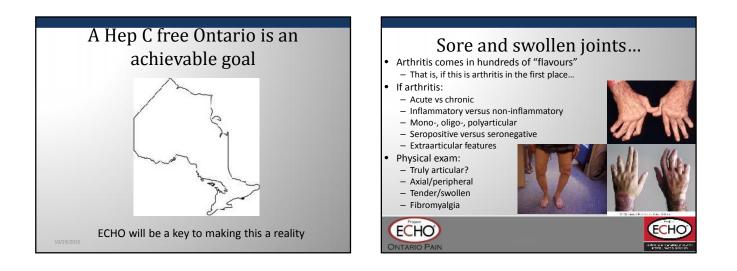
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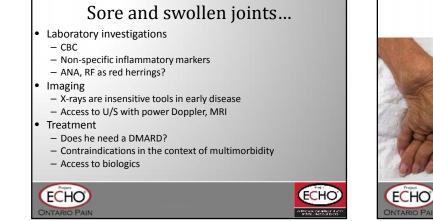












Rheumatology

Widdifield et al Can J Public Health 2013

ECHO

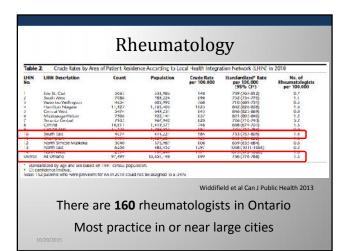
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1.20%

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110x

ECHO



Rheumatology

Rheumatoid arthritis (RA)

In Ontario, RA prevalence

has doubled since 1996

- This reflects 1% of

(ECHO

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the population

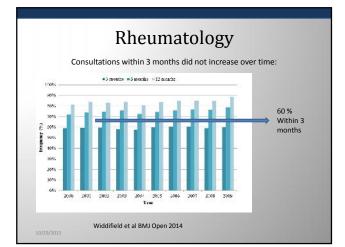
Widdifield 2013, 2014

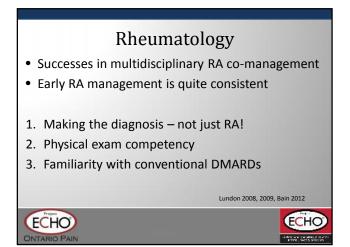
is highly morbid, but

TIME IS JOINT

treatable

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There is a Global Specialist Shortage

- How can specialists:
 - better manage 1000's of patients with complex conditions who live far from his/her office?

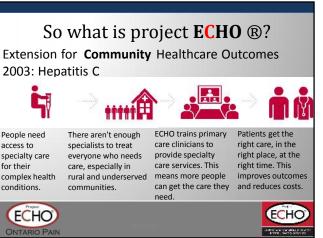


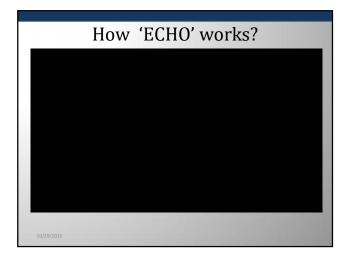
 reach underserved populations (low income, rural, FNIM)?

...Within the existing infrastructure, and without adding to the workforce?











ECHO USES:

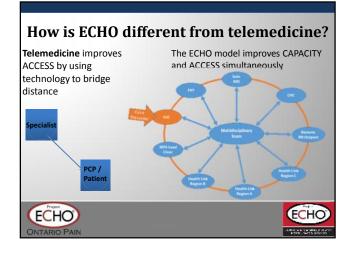
- Video conference technology to leverage scarce healthcare resources
- The disease management model to improve outcomes by sharing 'Best Practices'

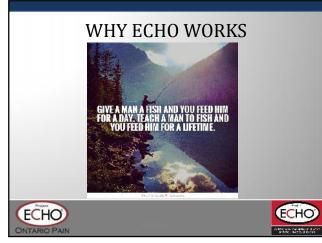


 Case-based learning to help community practitioners 'Learn by Doing'. Cases are managed by community practitioners with support from university specialists
 Databases to monitor outcomes









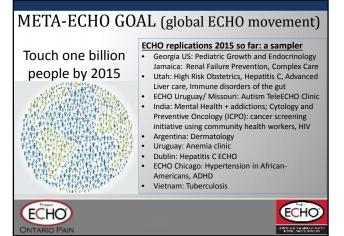


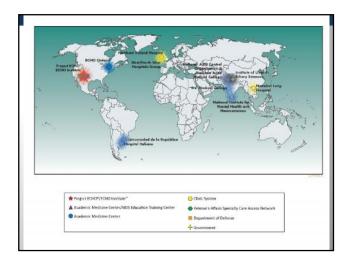
ECHO: Case Discussion Model

- PCP'S SPEAK FIRST, THEN EXPERTS
- Clarifying questions do you need more information?
- Recommendations for other investigations/testing?
- Suggestions re: referrals and management?
- NB: Patients are never seen during ECHO sessions but will be fast-tracked to a specialist if necessary





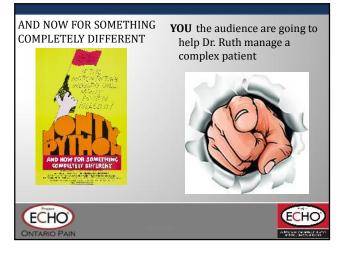












Remember Daniel? 35 years old Referred to you for primary care after prolonged hospitalization for severe depression 25 years ago History of severe childhood abuse, illiterate, "tied to a chair". All siblings had substance abuse issues (Alcohol, cocaine, IVDU).

Daniel continued...

- Has severe low back pain with sciatica
- Also has episodes of very sore and swollen joints
- Also found to have hepatitis C: "not a candidate for interferon" due to depression
- Continues to drink alcohol and uses marijuana
- Occasional violent altercations with wife who is also your patient
- No children





Questions?

- How do I treat his inflammatory arthritis?
- What about his hepatitis C? His use of alcohol and marijuana?
- What can I use to treat his depression?
- What about his chronic pain?



