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Nick Kates, MB.BS FRCPC Chair Dept. of Psychiatry & Behavioural Neurosciences, McMaster University



Pallavi Dham MBBS FANZCP Dept. of Psychiatry Queensland Health





FACULTY DISCLOSURE

The presenters of this session <u>have NOT</u> had any relevant financial relationships during the past 12 months.





CONFERENCE RESOURCES

Slides and handouts shared by our conference presenters are available on

https://www.integratedcareconference.com/ and on the conference mobile app.

All sessions will be recorded and posted to https://integratedcarelearning.talentlms.com/ shortly following the conference.





Plan for today

- Reasons for the project
- What we did
 - Goals
 - Methodology
- Findings
- Implications of our findings for
 - Implementing the pathway in other practices
 - Future research and standardisation of the ICP
 - Seniors mental health and wellness and the role primary care could play
- Questions and discussion





Why did we conduct this study





Reasons for the Study

- Anxiety, Depression and Mild Cognitive Impairment (MCI) are highly burdensome in late life and increase risk of Alzheimer's dementia (AD).
- Detecting these conditions early and treating them better could modify the risk for AD.
- These conditions are more likely to present themselves in primary care than specialty care settings.
- Collaborative mental health care between primary care providers and mental health clinicians has been demonstrated to be effective at the patient and system levels.
- Evidence-based **Integrated Care Pathways (ICPs)** are promising approaches to care that standardize assessment and care for better detection and treatment.
- Thus, the overall goal of this project is to assess impact and feasibility of implementing Collaborative Care ICP to diagnose and manage anxiety, depression and MCI in primary care, and how it could be introduced more broadly into primary care.





Specific Objectives

• **Objective 1:** Assess the impact of the ICP on patient-related outcomes

 Objective 2: Examine the implementation of the ICP in a primary care practice

 Objective 3: Assess the impact of ICP on identification of Anxiety, Depression, and MCI within the primary care setting





What we did





Components of the study

- Identified an Intervention (ICP) group and a comparison (Treatment as Usual) group, each drawn from a dates of birth cohorts in each practice
- Screened for MCI, Depression and Anxiety in both populations
- Introduction of Integrated Care Pathways (ICPs)
- Preparation of handouts and educational materials
- Measurement of outcomes at regular intervals
- Tracking of process changes made by the practices during the study
- Focus groups with participating practices





Patient Participants

150 participants (75 + 75) meeting the following criteria

Inclusion criteria

- Anxiety, Depression, or MCI
- Born in 1951, 53, 55: ICP
- Born in 1950, 52, 56: Treatment-As-Usual (TAU)
- Able to provide consent

Exclusion criteria

- Dementia diagnosis
- Substance use currently meeting level of disorder
- Unstable medical condition
- Palliative





The Main Assessment Tools

PHQ-9: to assess depression

GAD-7: to assess anxiety

MoCA: to assess cognition

QOL: to assess quality of life





Follow-Up & Monitoring

• Every 6 months for 24 months for all participants

Moderate to severe symptoms: If medications initiated, every 2 weeks until remission

 If patient has moderate to severe symptoms and refuses medications, follow-up every 4 weeks by PCP and every 3 months by the research staff





What did participants receive in the ICPs?





General Intervention (for all ICP participants)

- Education
- Exercise
- Stress Management
- Encouraging Social Engagement
- Encouraging Cognitive Activation
- Management of Comorbid Medical Conditions: diabetes, hypertension, hypercholesterolemia, smoking





Psychological Interventions

Structured brief psychological intervention

 Provided by a trained clinician: general practitioner, psychologist, psychiatrist or other health professional





Medication Trial

TRIAL 1

Sertraline

- Initiation dose: 25 mg/day
- •Increase after one week to 50mg/day (minimal effective dose)
- Review and titrate every 2 weeks. Max dose is 200 mg/day

TRIAL 2

Venlafaxine XR

- Initiation dose: 37.5 mg/day
- •Increase to 75 mg after one week (minimal effective dose)
- Review and titrate every 2 weeks. Max dose is 300 mg/day



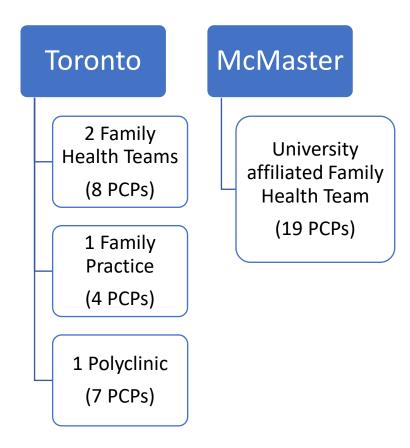


Participant Recruitment



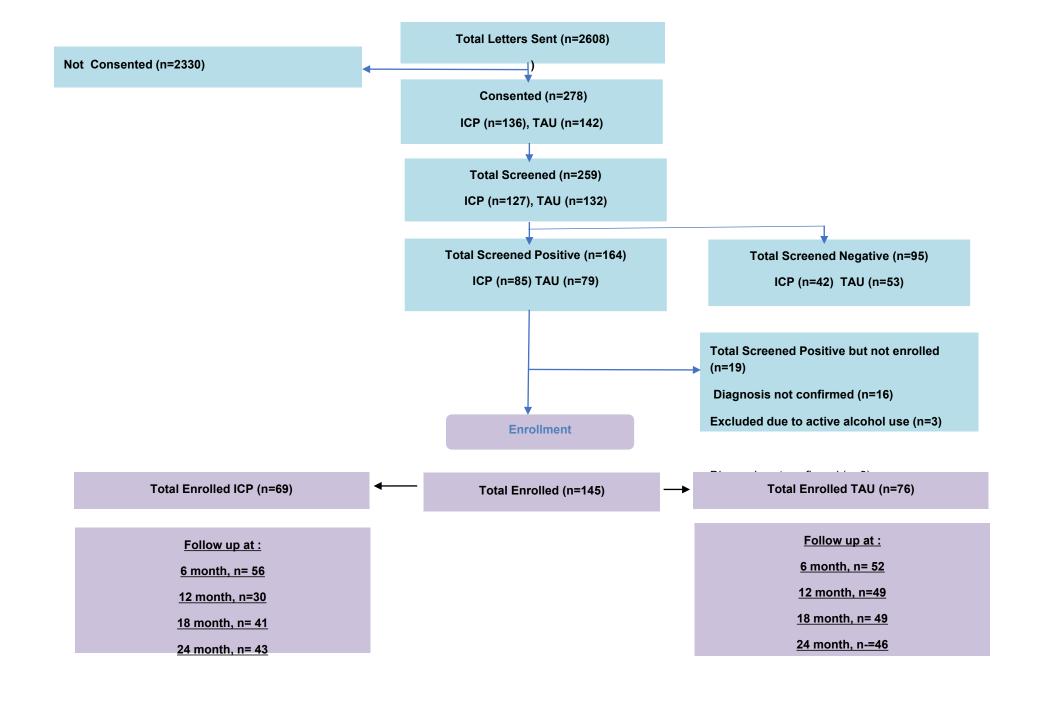


Participation Settings









Results





Objective 1: Outcomes



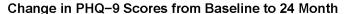


Baseline Demographic Data

	ICP	TAU	N	р
Site (N, %)	69, 47.59%	76, 52.41%	145	-
Gender				
Male (N, %)	32, 46.38%	34, 44.74%	66	0.843
Female (N, %)	37, 53.62%	42, 55.26%	79	
Marital status				
Not married (N, %)	35, 50.72%	33, 43.42%	68	0.379
Married (N, %)	34, 49.28%	43, 56.58%	77	
English as a first language				
No (N, %)	10, 14.49%	14, 18.42%	24	0.525
Yes (N, %)	59, 85.51%	62, 81.58%	121	
Employment status				
Retired (N, %)	34, 49.28%	39, 51.32%	73	0.806
Not Retired (N, %)	35, 50.72%	37, 48.70%	72	
Years of education (min-max, IQR, N)	8-20, 2	1-20, 2.5	145	0.350

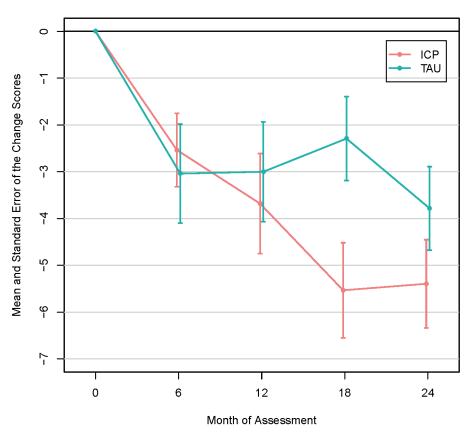
Objective 1: Patient-Level Outcomes:

More reduction in anxiety and depression symptoms in ICP vs. TAU



0 ICP Mean and Standard Error of the Change Scores φ 12 18 24 Month of Assessment

Change in GAD-7 Scores from Baseline to 24 Month



F (1, 223)=4.0, P=0.047



Linear Mixed Model, accounted for repeat measures, controlled for covariates (age, gender, sites, baseline scores)

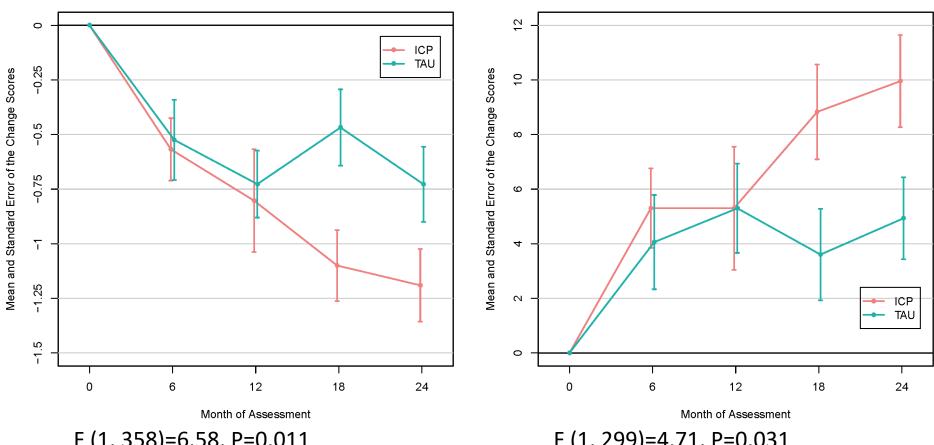


Objective 1: Patient-Level Outcomes

More reduction in anxiety and depression symptoms combined and more improvement in quality-of-life in ICP vs. TAU

Change in Standardized Scores from Baseline to 24 Month

Change in QOL Scores from Baseline to 24 Month



F (1, 358)=6.58, P=0.011

F (1, 299)=4.71, P=0.031

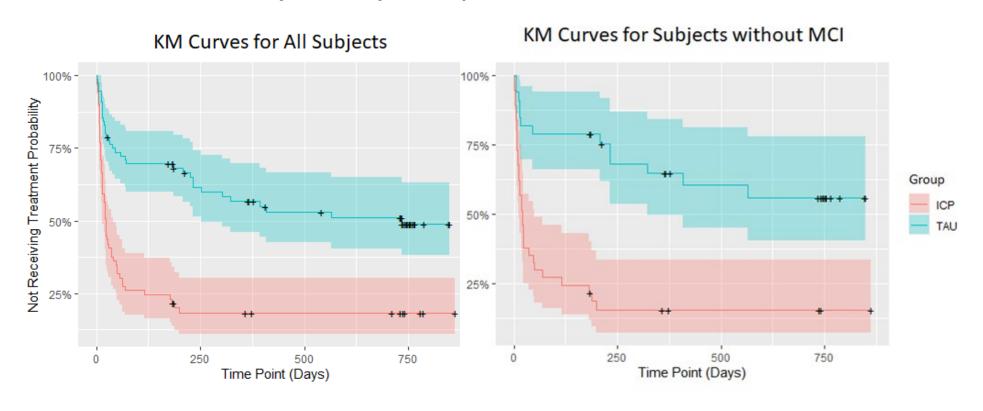


Linear Mixed Model, accounted for repeat measures, controlled for covariates (age, gender, sites, baseline scores)



Objective 1: Time-To-Treatment

Much shorter time to treatment initiation in ICP vs. TAU for all conditions combined and for anxiety and depression combined without MCI



Chi-square (df = 1) = 25.28, P<0.001

Chi-square (df = 1) = 17.01, P<0.001





Objective 3: Impact on Identification





Objective 3: Impact on Identification

Study screening improves detection rates

	Before the ICP (N=848)	During the ICP (N=259)	P value
Dep Dx. (N, Rate)	63, 7.43%	98, 37.84%	<0.001
Anxiety Dx. (N, Rate)	55, 6.49%	87, 33.59%	<0.001
MCI Dx. (N, Rate)	2, 0.24%	75, 28.96%	<0.001
Dep/Anx/MCI Dx. (N, Rate)	91, 10.73%	145, 55.98%	<0.001





Objective 3: Impact on Identification

But the detection rates went back to pre-study rates when active screening by research staff stopped and study was withdrawing from the sites

	Pre-study arm (N=848)	Post-study arm (N=740)	P value
Dep Dx. (N, Rate)	63, 7.43%	61, 8.24%	0.546
Anxiety Dx. (N, Rate)	55, 6.49%	48, 6.49%	1.000
MCI Dx. (N, Rate)	2, 0.24%	3, 0.41%	0.547
Dep/Anx/MCI Dx.(N,Rate)	91, 10.73%	93, 12.57%	0.254

Objective 2: Implementation





Objective 2: Factors affecting Implementation (1)

Acceptability – acceptable, willingness to use the ICP

Factors that positively impacted acceptance:

Seen positively by many family physicians and worth including if feasible

Factors that negatively impacted acceptance:

Medication component not always realistic for primary care

Feasibility – how realistic it is to use in primary care

Factors affecting feasibility of the ICP:

- Workload Mixed responses but the major concern
- Needs a dedicated person, who understands the clinical context
- Need for larger system changes, especially to improve access to mental health supports





Objective 2: Factors affecting Implementation (2)

Utility – perceived usefulness of the ICP

Benefits for primary care providers:

Increased Knowledge, Comfort, and Skills

Not always aligned with how primary care works – cultural differences between mental health and primary care approaches

Benefits for patients:

Could track their own results / progress (support for self-management)

Barriers & Facilitators to implementing the ICP

Barriers

Culture – Provider, patient and practice

Facilitators

 Having one clinician on the primary care team who was well-versed in the ICP

Lessons Learnt: The IPC

• The algorithm was effective in improving outcomes and detection rates but... detection rates went down again to pre-study levels in the last 6 months of the study when staff presence was lower and active screening was not happening

Outcomes may be positively affected by

- Shorter time to treatment
- Physician buy-in and engagement

Family Physicians

 Responses were mixed but were generally positive in their overall acceptance of the ICP (time and workload being the main concerns)

Changing physician practice is hard

- Require wider changes in the practice
- The algorithm may need to be adapted for individual physicians





Lessons Learnt: The System of Care

Engaging the team and practice was very important

The tiered interventions need to be culturally congruent

Many challenges – especially time and workload demands

Importance of overall awareness of seniors mental health





Implications: Future Research and Standardization





Next steps: Research and standardisation of care

While many of the lessons learned from this project and others can be implemented in practices, three research questions emerge directly from our study:

- 1. What changes are needed to sustain the benefits of the ICPs in primary care?
- 2. What ingredients within the ICPs had the strongest impact and for what patients?
- 3. What are the long-term effects of standardizing care for these dementia risk conditions on rates of cognitive decline and dementia?





Broader implications for seniors mental health and wellbeing





Improving the mental health and wellbeing of seniors in primary care

- Importance of early recognition and intervention
- Need to integrate mental health care with all other care
- Opportunities that virtual care presents ie education / pro-active care
- Lifestyle changes need to be part of every visit
- Innovative approaches to education
 - Needs to include health literacy
- Pro-active care
 - Early identification
 - Develop lists of seniors in a particular cohort
 - Δ
 - At risk groups
 - Use of the phone
 - Monitoring
 - Use of phone / zoom
- Embed measurement (patient and system levels) into care

Summary of the Results

- Collaborative-care based standardization of anxiety, depression and MCI care:
 - Is feasible
 - Results in a reduction in symptoms and an improvement in quality of life
 - Results in more than 50% improvement in access to recommended treatments
 - Increases detection of anxiety, depression and MCI by more than 5-fold
 - Without support from the study, benefits in detection rates were not sustained
- Its spread to other practices will require:
 - Integration with existing practice processes as much as possible
 - Better links with mental health services
 - An identified lead or point person
 - Flexibility with the medication component





SESSION EVALUATION

Use the CFHA mobile app to complete the evaluation for this session.





Thank you And Questions



