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Increasing Medication Adherence and Income Assistance Access for First- episode Psychosis Patients

A PATHS Equity for Children Project

Dan Chateau, PhD
CAHSPR Annual Conference
Montreal, May 26, 2015



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Collaborators:

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Background

The Early Psychosis Prevention and Intervention Service (EPPIS)

- Established 2003
- Intervention for those with first-episode of psychosis
- Based on previous early intervention programs
- Assertive community treatment (ACT)
 - Assertive case management
 - Community treatment

Emphasized:

- adherence to medication,
- psychotherapy (including group therapy),
- and involvement of family in treatment



EPPIS project

Sought to evaluate the effectiveness of EPPIS

- Main outcomes
 - Hospital usage, and ED usage;
 - Suicidal behaviour;

(Presented by Jason Randall in a moment)



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EPPIS project

Sought to evaluate the effectiveness of
EPPIS

- Other outcomes
 - Medication dispensations
 - Income assistance



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PATHs Studies

Methods

Administrative data

Client info from Manitoba Adolescent Treatment centre (MATC)

Linked to MCHP data repository

EPPIS clients (2003-2012)

Historical controls (1998-2001)

Controls matched to diagnostic pattern of EPPIS clients prior to program entrance



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PATHs Studies

Methods

Propensity-score adjustment for confounders

- SAS macro used to identify potential confounders

- Inverse-probability of treatment weights

- Average Treatment Effect (ATE)

During and post-treatment period assessed

- Odds ratios (binary variables)

- Hazard ratios (binary variables)

- Rate ratios (count variables)

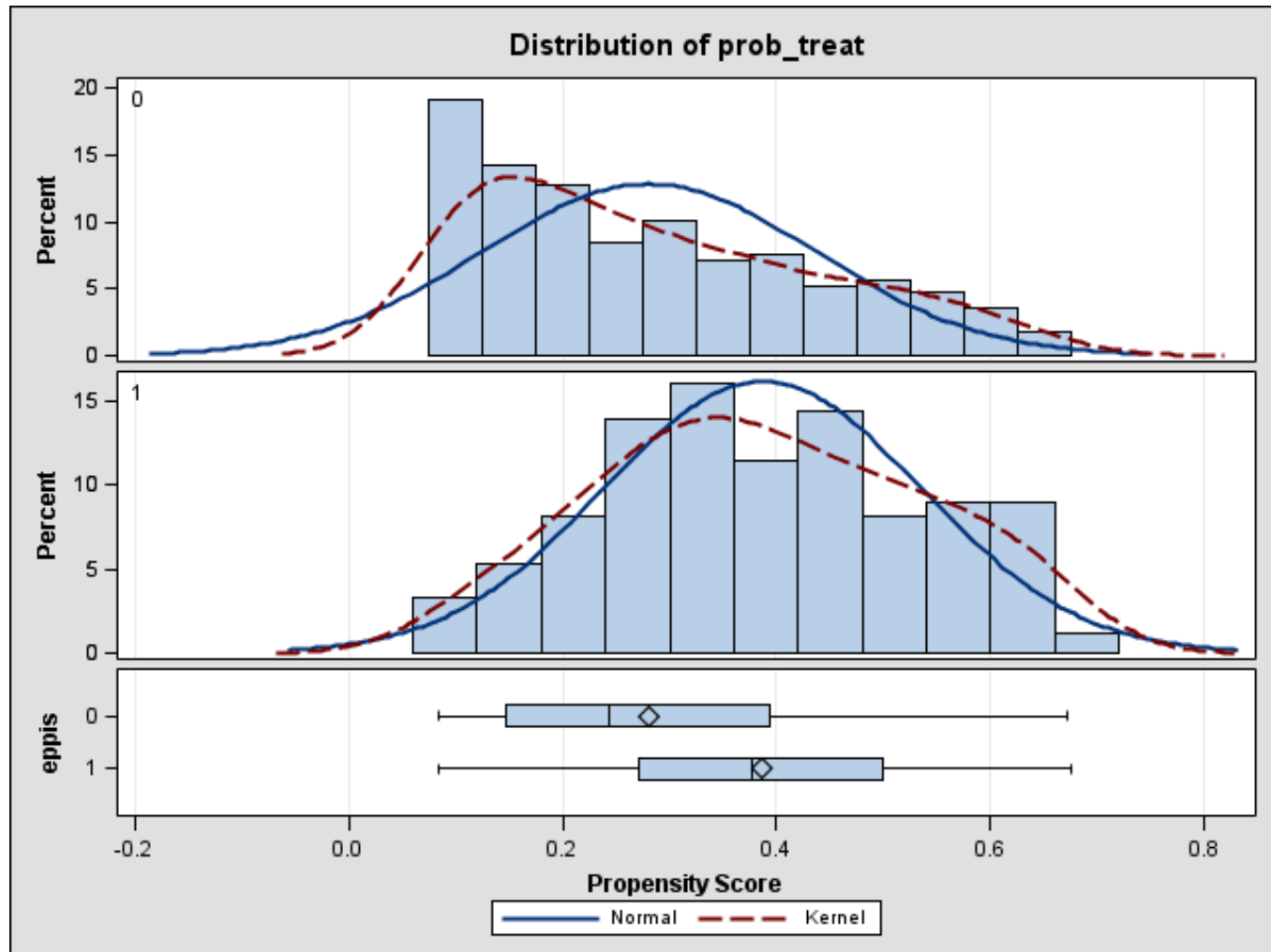


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After
Trimming



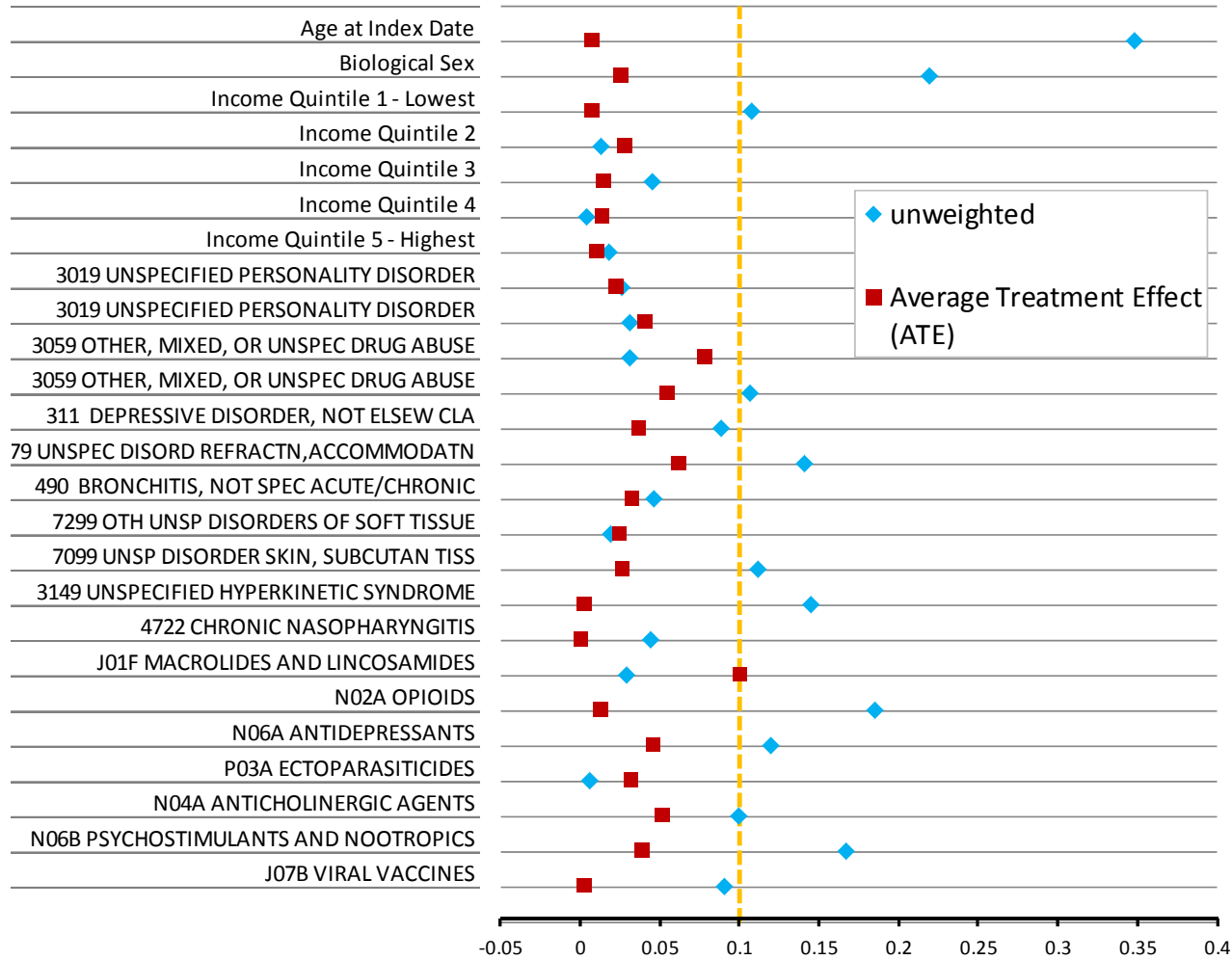
Before Trimming

eppis	N	Mean	Std Dev	Minimum	Maximum
0	1036	0.158	0.187	0.00239	0.8865
1	284	0.423	0.199	0.0234	0.9765

After Trimming

eppis	N	Mean	Std Dev	Minimum	Maximum
0	449	0.2801	0.1557	0.0833	0.6708
1	244	0.3869	0.1481	0.0843	0.6745

Standardized differences



Prescription Dispensations

		in program		Age at Index Date	
At least 1 Antipsychotics Prescription					
during treatment	[Odd R. (95% CI)]	15.05(10.81-20.94)	<.0001	1.01(0.97-1.05)	0.65
post treatment	[Haz. R. (95% CI)]	5.20(4.50-6.02)	<.0001	1.04(1.01-1.06)	0.00
Antipsychotics Adherence					
during treatment	[Odd R. (95% CI)]	4.71(3.75-5.92)	<.0001	0.99(0.96-1.03)	0.57
post treatment	[Odd R. (95% CI)]	2.44(1.96-3.03)	<.0001	1.02(0.98-1.05)	0.33

Income Assistance

		in program		Age at Index Date	
Ever on Income Assistance					
post treatment	[Haz. R. (95% CI)]	2.56(2.22-2.95)	<.0001	1.03(1.01-1.05)	0.01
2 year post treatment	[Odd R. (95% CI)]	3.43(2.73-4.30)	<.0001	1.02(0.99-1.06)	0.20

~ ~ ~ **Save the Date** ~ ~ ~

Conference: **Pathways to Health Equity: Levelling the Playing Field**

May 30 – June 1, 2016

where: **Fort Garry Hotel, Winnipeg**

- International knowledge exchange and dissemination event, building on the theme of ‘from research to policy’
- Themes include: child health; social determinants of health & equity; economics & equity; measuring health equity; indigenous health; health interventions & equity; international health equity; ethics and equity; gender equity

For more information, visit our website at:

www.mchp.ca/equity

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