# Pharmacist Education and Telephone Follow-up after Hospitalization for an Acute Coronary Event: The Assessment of Cardiology peri-Discharge Counseling (ACDC) Pilot Study

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# BACKGROUND

- Adherence to medications after an Acute Coronary Syndrome (ACS) is poor, with 33% discontinuing at least 1 medication after 1 month and 50% by 1 year
- Studies to improve adherence have shown mixed results and involve complex pharmacist interventions that are difficult to replicate and implement.
- Patient beliefs about medications has been identified as a key modifiable barrier to adherence.

# **OBJECTIVES**

**Primary:** To evaluate the feasibility of conducting a large randomized study to assess a pharmacist intervention, and the feasibility of the intervention itself

**Secondary:** To characterize this intervention's effect on patient beliefs about medications and medication adherence

## METHODS

### Design:

- Post-test only, with non-equivalent groups
- Setting and Sampling:
- 22-bed Cardiology ward at Kelowna General Hospital
- Time period-based, consecutive sampling

### Inclusion:

- Adult ACS patients with planned discharge to home
- Able to communicate in English; access to telephone **Exclusion**:
- Receiving or planned cardiac surgery
- Receiving an oral anticoagulant for any indication
- Residing in a care facility or outside British Columbia
- Cognitive impairment or requiring full-time assistance with medication administration

### Intervention:

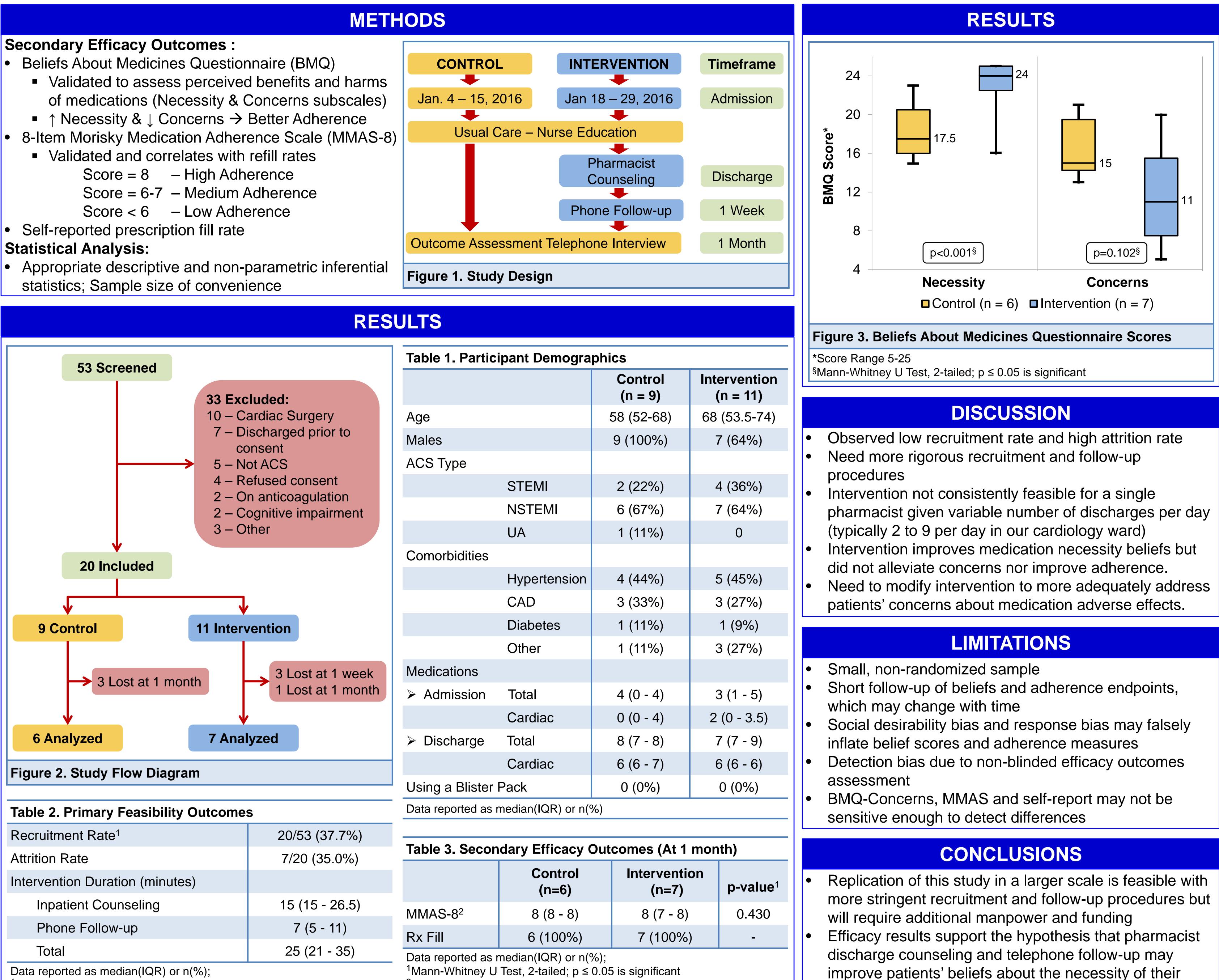
- Cardiology pharmacist inpatient counseling and telephone follow-up, focused on education to improve beliefs about medications; in addition to usual care
- Patient handout with overview of ACS and angioplasty

### Control:

- Usual care orientation to medications, medication calendar and discharge prescription delivered by nurses **Primary Feasibility Outcomes:**
- Recruitment and Attrition Rates
- Duration of Pharmacist Intervention







<sup>1</sup>One Recruit per day, on average

le 1. Participant Demographics				
		Control (n = 9)	Intervention (n = 11)	
<b>;</b>		58 (52-68)	68 (53.5-74)	
es		9 (100%)	7 (64%)	
S Туре				
	STEMI	2 (22%)	4 (36%)	
	NSTEMI	6 (67%)	7 (64%)	
	UA	1 (11%)	0	
norbidities				
	Hypertension	4 (44%)	5 (45%)	
	CAD	3 (33%)	3 (27%)	
	Diabetes	1 (11%)	1 (9%)	
	Other	1 (11%)	3 (27%)	
dications				
Admission	Total	4 (0 - 4)	3 (1 - 5)	
	Cardiac	0 (0 - 4)	2 (0 - 3.5)	
Discharge	Total	8 (7 - 8)	7 (7 - 9)	
	Cardiac	6 (6 - 7)	6 (6 - 6)	
ng a Blister Pack		0 (0%)	0 (0%)	
ronortad as	median(IOR) or $n/2$	26)		

le 3. Secondary Efficacy Outcomes (At 1 month)					
	Control (n=6)	Intervention (n=7)	p-value <sup>1</sup>		
AS-8 <sup>2</sup>	8 (8 - 8)	8 (7 - 8)	0.430		
Fill	6 (100%)	7 (100%)	-		
a reported as median(IQR) or $n(\%)$ ;					

<sup>2</sup>MMAS-8 = Morisky Medication Adherence Scale (Score Range 0-8)

medications.