

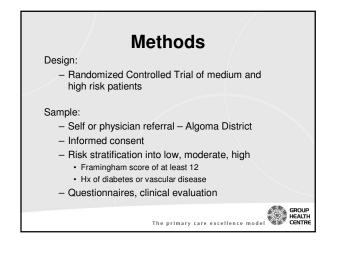
Primary Research Question

What is the effectiveness of a Vascular Intervention Program after 6 and 12 months on the cardiovascular ACTION Score versus usual care (control) for a group of moderate/high risk CV patients at the Group Health Centre in Sault Ste. Marie (Algoma District)?

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GROUP

Secondary Research Questions What is the effectiveness of a Vascular Intervention Program versus usual care (control) for a group of moderate/high risk CV patients at the GHC in SSM after 6 and 12 months on: Individual components of the ACTION Score (e.g. BP, lipids, exercise, diet, etc.)? Patient satisfaction? Quality of life? How has the VIP increased collaboration between family physicians, pharmacists, physiotherapists, dietitians and nurses at the GHC and in the community?



The Intervention: The Vascular Intervention Program (VIP)

Patient-centred, community-based, multi-faceted program that promotes:

- Self-management, family participation and support in health care decision-making;
- · Interdisciplinary health care provider collaboration; and

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· Better use of information technology to improve the management of vascular disease.

The Intervention (continued)

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- Based on Chronic Care Model
- · Patient-centered decision-making with a study nurse
- · VIP workbook, Heart & Stroke
- ACTION score
- · ACTION plan: patient priorities, readiness to change
- Referral to allied health team members •
- Collaboration
- Cohesive approach

Referral to other team members

- Exercise program (VIPEX)
- Algoma Diabetes Education and Care Program -
- diabetes educators Healthy Measures lifestyle education program
- Dietitians / classes / label reading
- Smoking Cessation Counsellor
- Counselling -- stress management / depression (individual and group) Congestive Heart Failure Program
- Anticoagulation Program
- Pharmacist

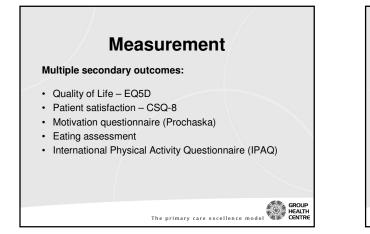
Measurement · Using questionnaires, measurements, lab, ECG - Telephone follow-up - Nurse contact every 6 months for evaluation purposes and in between as needed for clinical situation ACTION score & components - Assessment of Cardiovascular Treatable Intervention Outcome Nomogram - Evidence-based - 10 x 10 table - Maximum score: 100 GROUP The primary care excellence model

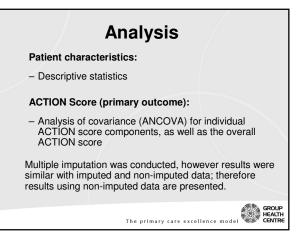
ACTION Score

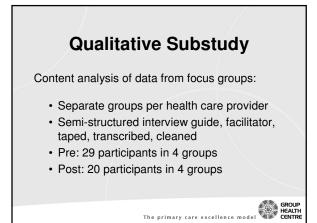
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GROUP HEALTH CENTRE

Patient/Family History	< 40 or knovn CAD, DVD,	Age < 45	Age < 50	Age < 55	Age < 60 or unknown	Age < 65	Age < 70	Age < 75	Age > 75	No History
	PAD				history					
Diabetes	Type 2 > 30yrs or Type 1	Type 2 > 25yrs	Type 2 > 20yrs	Type 2 > 15yrs	Type 2 > 10yrs	Type2 > Syrs	Type 2 < Syrs	N/A	IGT or IFG ***	None
Blood Presure	> 180 / or 110	< 180 / 110	< 160 / 100	< 150 / 95 vith meds	< 150 / 90 without meds	< 140 / 90 with meds ***	< 140 / 90 vithout meds	< 130 / 80 with meds ++++	< 130 / 85 vithout meds	< 120 / 80 vithout meds
Lipid (LDL)	> 4.0	< 4.0	< 3.75	< 3.5	< 3.25	< 3.0	< 2.75	< 2.5	< 2.25	< 2.0
Smoking Status (In months)	> 1 pack / day	< 1 pack / day	Second Hand Smoke or Quit < 3	Quit > 3	Quit > 6	Quit > 9	Quit > 12	Quit > 18	Quit > 24	Never Smoked
Nutrition	0-9	> 10	> 20	> 30	> 40	> 50	> 60	> 70	> 80	> 90
Abdominal Girth	M+ > 120cm F- > 110cm	M < 120 F < 110	M < 115 F < 100	M < 110 F < 100	M < 105 F < 95	M < 100 F < 90	M < 95 F < 85	M < 90 F < 80	M < 85 F < 75	M < 80 F < 70
Activity Level	None	< 30min / veek	> 30min / veek	> 60min / veek	> 90min / veek	> 120min / veek	> 150min / veek	> 200min / week	> 260min / veek	> 350min / week
Physiologic Age	5	n/a	4	n/a	з	n/a	2	n/a	1	0
Psychosocial	0 - 1	2	3	4	5	6	7	8	9	10
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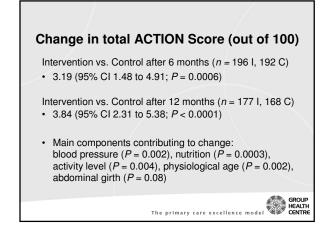


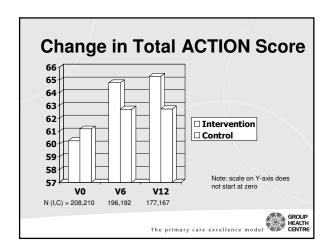




660 patients screened; 420 were enrolled in the study

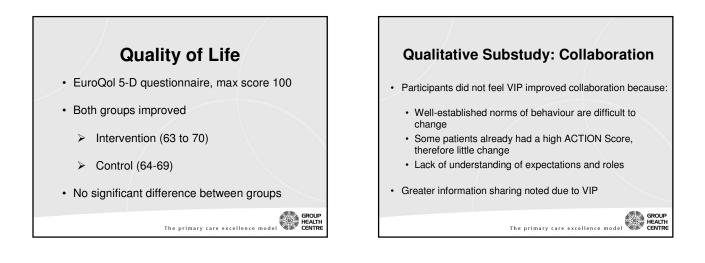
Characteristic	Intervention	Control
	N=208	N=212
Sex (% male)	55.3	53.3
Age (mean, SD)	65.2 (10.2)	64.3 (9.2)
Diabetes (%)	49.5	55.2
Hypertension (%)	76.0	73.6
Hyperlipidemia (%)	68.8	74.5
MI (%)	25.0	21.7
Stroke (%)	6.7	3.3
Current smoker (%)	11.5	8.5
Current alcohol	2.9	2.9
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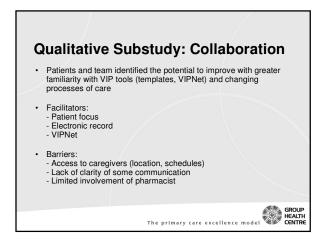


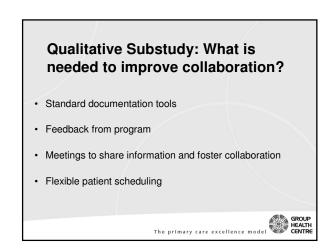


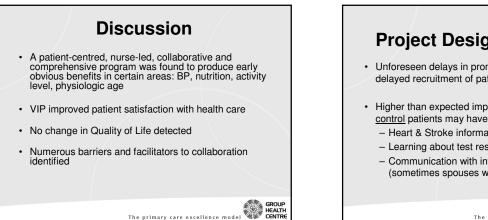
Score at 12	months				
	Interventio	n (<i>n</i> =177)	Control (n =169)	
Risk Factor	> -1 / no ∆	< 1 Δ	> -1 / no ∆	<1Δ	P-value
Family history	100	0	98.2	1.8	0.20
Diabetes	99.4	0.6	99.4	0.6	0.81
Blood pressure	45.7	54.3	62.1	37.9	0.007
Lipids	68.9	31.1	66.3	33.7	0.80
Smoking	86.4	13.6	92.3	7.7	0.04
Nutrition	35.0	65.0	50.9	49.1	0.009
Abdominal girth	59.9	40.1	69.2	30.8	0.045
Activity	53.1	46.9	69.2	30.8	0.0036
Physiologic age	66.1	33.9	78.7	21.3	0.016
Psychological	49.1	50.9	56.2	43.8	0.25

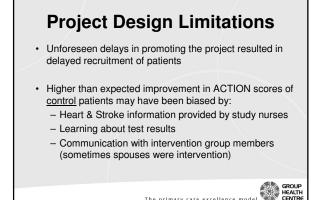
	Patient Satisfaction						
Clie	Client Satisfaction Questionnaire - 8 (max score = 32)						
Visit	Intervention	Control	Difference, (95% Cl); p				
	n=210	n=210	value				
V0	26.77 (SD 3.19)	26.73 SD (3.56)					
V6	27.92 (SD 4.06)	25.42 (SD 4.30)	2.50 (1.65, 3.35), p<0.0001				
V12	28.55 (SD 3.89)	25.21 (SD 4.32)	3.33 (2.46, 4.21), p<0.0001				
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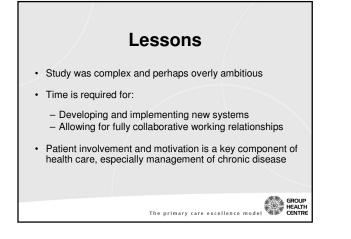


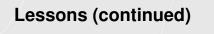












- · Regular follow-up and assessment
- Education must be adapted to the needs and comprehension of the patient
- · Clear communication and role definition
- The pace of change may be slow, and not recognized by a scoring system, yet still may be meaningful to the patient
- · Generalizable to other settings

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