# Characteristics of Primary Care Settings That Succeed in Achieving High Quality of Care

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Research Rounds
PHCS Program Network, February 16 2012

Project funded by the Canadian Institutes of Health Research









# **Background**

- «PHC in Canada has entered a period of potentially transformative change»<sup>1</sup>
- Characteristics of key initiatives
  - Interprofessional teams
  - Group practices & networks
  - Patient enrollment with PC provider
  - Financial incentives & blended reimbursement
  - New governance models
  - IT and quality improvement support

Hutchison B et al., Primary Health Care in Canada: Systems in Motion, Milkbank Quaterly, 2011;89:256-88

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# Are new models more effective?

- Alberta (PC Networks) (Manns BJ et al., CMAJ 2012)
  - Better diabetes care in patients enrolled in PC Networks (20% less hospitalizations et 20% more opht. care)
- British Columbia (Full Service Family Practice Incentive Program) (Hollander, Health care Quaterly 2009)
  - Increased affiliation; hospital costs 5 900\$ vs
     16 900\$ in patients followed in practices in the program

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### Are new models more effective?

- Ontario (CHC, FFS, FHG, FHN, HSO):
  - Chronic care (Russel, Dahrouge, Hogg et al. Ann Fam Med 2009)
    - · Superior in CHCs
    - NP (+), panel size>2 000 (-) and > 4 FTE mds(-)
  - Prevention (Dahrouge, Hogg, Russel et al, CMAJ 2011)
    - · no clear impact of models
    - Panel size <1 600, presence of female FPs, electronic reminders
  - Access (Glazier et al. 2009)
    - · Less after-hours care & more ER visits in capitation models

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# ...to summarize

- Some primary care organizational models may perform better than others – none is perfect
  - Tensions between access and quality of care
- Different mix of characteristics per model
  - What are the key characteristics that matter?
- Research has focused on structures rather than processes
  - Processes can explain between and within model variations in quality of care

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# The challenges of primary care Chronic care Chronic care CRCHUM Centre de recherche du Centre hospitalier de l'Université de Montréal

# **Research questions**

- 1. Are there organizational characteristics associated with higher quality of care that transcend PC settings models?
  - Contribution of processes vs structures
- 2. Are some characteristics specific to episodic care vs chronic illness care or prevention?

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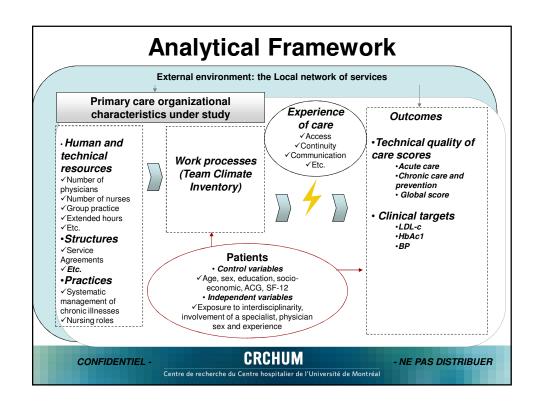
# PC settings in Québec

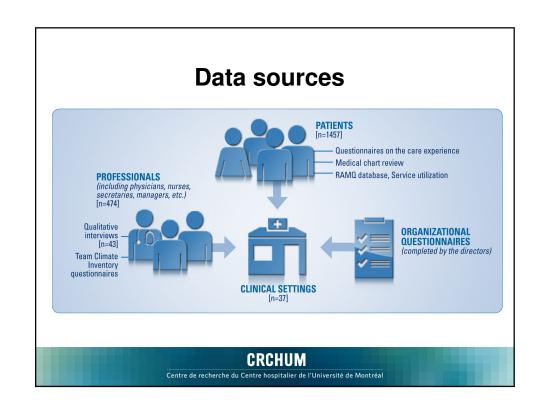
	CLSCs	FMGs	Traditional
Governance	Community	Professional	Professional
Contract RH	No	Yes	No
Pt enrollement	No, population	Yes	Yes
Team care (nurses)	Not dedicated	Dedicated	No
Remuneration	Salary	Salary/FFS + incentives	FFS + incentives

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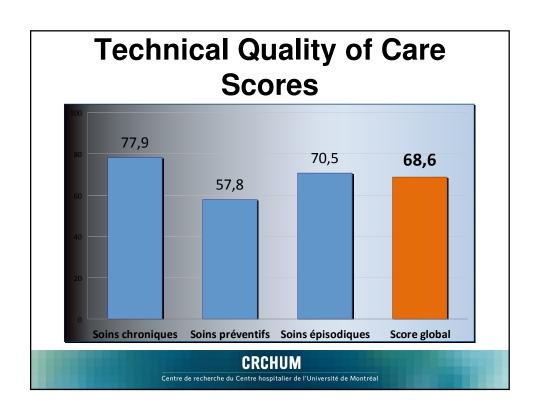
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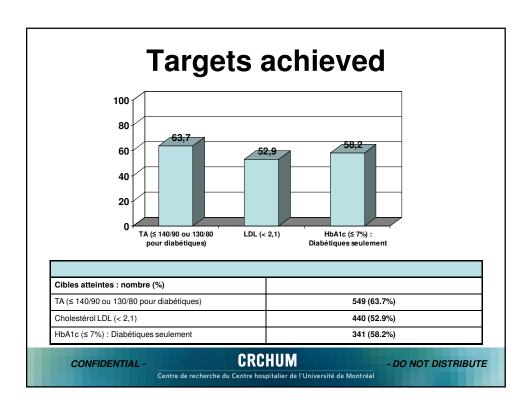
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# Key finding # 1

- Organizational characteristics explain an important proportion of the TQC scores:
  - 17% of the global TQC
  - 15% of the acute TQC
  - 25% of the Chronic Care & Prevention TQC

We are first to report a contribution of this magnitude

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# Impact of structural characteristics

 Salary remuneration is the strongest structural predictor of the global TQC score (23 points) and duration of visits (30 min) of the Chronic Care & Prevention TQC score (15 points)

Other structural characteristics were number of FPs (7-10) and the presence of other professionals and specialists on the premices

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# Key finding # 2

 The most successful settings are those that <u>value comprehensive primary care</u> and manage their ressources accordingly (internal coherence)

ie: not only continuity of care and chronic illness care, but also access to care and their capacity to respond appropriately to all types of health problems, wether chronic or episodic

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# How do they succeed?

- Crucial role of group processes and of the leadership of the physician manager to foster a common vision of quality and management of resources accordingly
  - Group practice (shared among physicians)
  - Team climate (common objectives, task orientation, communication, support of innovation)
  - Continuing professional education as a team
  - Managing appointment schedules to response to urgent or immediate needs

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# How do they succeed?

- Roles of nurses
  - Exposure to interdisciplinary care has a modest impact on Chronic Care & Prevention TQC (3 points)
  - Diversity of roles for nurses in the clinic has a positive impact on organizational accessibility

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# Key finding #3

Organizational accessibility — as defined by the capacity to reach the clinic by phone, talk to a PC provider for advice and obtain an appointment in a reasonable delay- is associated with Global and Chronic Care & Prevention TQC scores (5 points per 10% increase of OA)

We are first to report that organizational access is a predictor of TQC

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# Key finding #4

- Finding balance:
  - No unique model in terms of structures— the quality observed is the result of trade-offs to aligne available resources to the common vision of quality
  - Dilemna between populational accessibility and quality of care
  - Less autonomy to manage resources in community oriented models and FMGs

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# Main messages

 Innovations targeting only care for chronic conditions rather than comprehensive primary care may play disservice to the clientele most in needs as well as jeopardizing overall quality of care

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 Leadership development and support of efficient team processes (involvement of professionals & staff) are more likely to produce results than the sole modification of structures

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## Caveats/limitations

- No estimate of panel size:
  - Technical quality of care vs productivity?
- Caution in the interpretation of the impact of salary remuneration as predictor of quality in the light of:
  - Absence of true blended remuneration schemes in Québec
  - High nurses\physicians ratio that do not permit optimal complementarity

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# Which model is more likely to support effective primary care?

Chronic Care Model	Medical Home	
	Affiliation to a PC provider	
Financing and remuneration	Financing and remuneration	
Community resources		
Work organization (team care,	Team care	
coordination)	Coordination et integration	
Decision support	Quality and security	
Information system		
Fostering self-care		
	Comprehensiveness	
	Efficient and timely access	

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