Engaging Community Providers and Patients in Clinical Research



Faculty / Presenter Disclosure

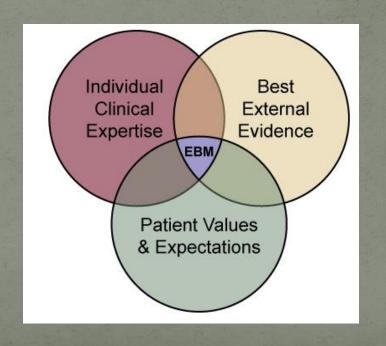
• Faculty: Scott Garrison MD, PhD
Assoc. Prof, U of A, Family Medicine
Director, Pragmatic Trials Collaborative

- Relationships with commercial interests:
 - Grants/Research Support:
 - Speakers Bureau/Honoraria:
 - Consulting Fees:
 - Other:



Full Time Fee-for-Service Family Physician (1st 20 Years)

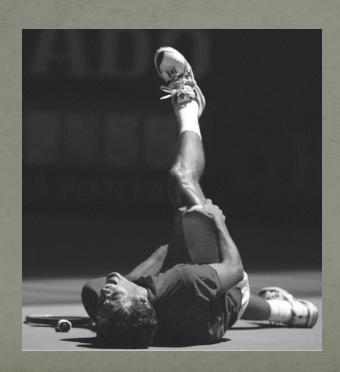




The pivot point



Rest Cramps (Nocturnal Leg Cramps)





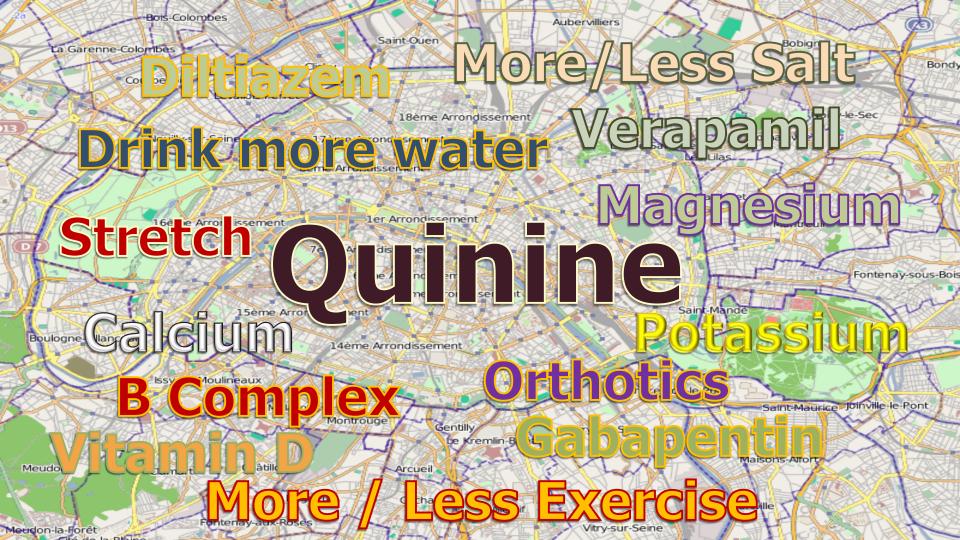
Rest Cramps Coming soon to a leg near you!



Not only the elderly



















Magnesium





























Magnesium















Research Question

Are magnesium supplements efficacious in providing rest cramp prophylaxis?

RCT





Research Question

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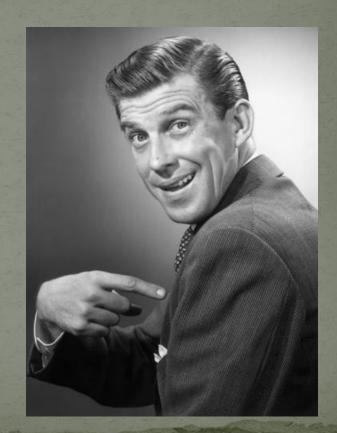
RCT





How this relates to YOU...

- Common problem # common presentation
- Docs will not dig beyond the presenting problem
- "Compelling" is subjective
- Expecting Docs to recruit during normal patient care is asking for trouble







A Learning Healthcare System



The big ask...



The big ask...







Broad Base of Support

- BC Divisions of Family Practice Innovation Fund
- Richmond Family Physicians
- Vancouver Coastal Health Research Institute
- Richmond Hospital Foundation (Donation)





The Pragmatic Trials Collaborative

Measuring What Matters



Physicians engaged •



What about Data?



Beware the unexpected...







Freedom To Create. Spirit To Achieve.



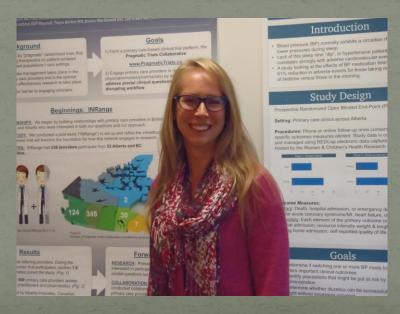
If you build it...will they come?



INRange







INRange

- 236 Physicians Recruited (51 BC, 185 Alberta)
- 54 Communities
 (26 BC, 28 Alberta)
- Of those receiving letters
 16.7% called to enroll
- Loss to follow-up and non-adherence 3.7%



INRange

- Every Pragmatic Trials
 Collaborative Physician
 brought in (on average)
 an additional 1.6
 physicians to participate.
- i.e. Our members were recruiting their own officemates to participate

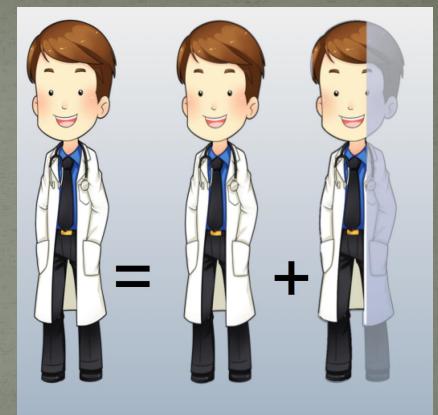
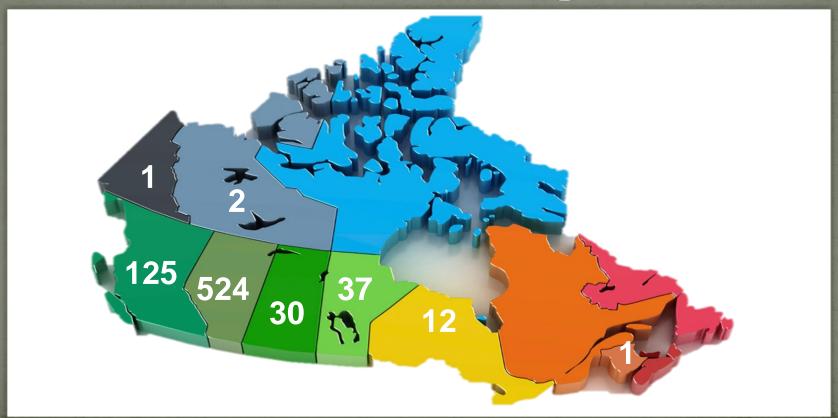


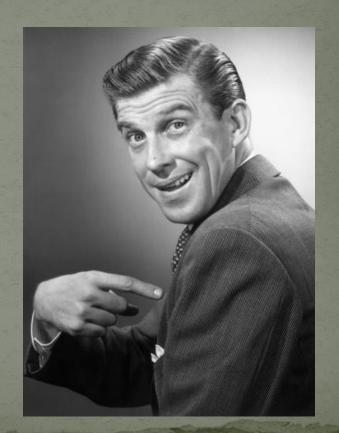
Figure 1. Referral rate during INRange RCT 1:1.6

Our Current Membership



How this relates to YOU...

- Pilots aren't compelling
- Docs will participate in large numbers if you make it easy and ask the right question
- Very low loss to follow-up
- Running a study is a great way to grow a network!



ALBERTA INNOVATES





BedMed

- MAPEC:
 - 2010 Spanish RCT
 - 2,156 Patients x 5.6 years
- 61% reduction in a composite of mortality and cardiovascular morbidity if BP meds taken at bedtime



Making the Case

- Cost Utility Analysis (Markov)
 - 6,943 fewer deaths, 5,550 fewer strokes, 8,448 fewer CHF admissions, 16,418 fewer ACS admissions
 - Discounted lifetime savings of 8.8 billion (current cohort)
 - Life expectancy \$\int_{5.5}\$ years



Making the Case

- New & Unique Research Capacity
 - Many clinicians participating in research for the first time
 - Most remote from academic centres
- Multiprovincial Network
 - Alberta (SPOR)
 - BC (SPOR)
 - Manitoba (MCHP)



Methods

- Randomized registry trial with admin data outcomes
- 8750 Participants (approx. 3-4 years)
- Event Driven (406 PO)
- Quarterly reporting
- Cochrane IDSMB
- Volunteer Docs
- MOA 25¢/letter
- Online consent



Methods

- Key Outcomes
 - Mortality / Morbidity
 - Independence
 - Costs
- Safety Outcomes
 - Fractures
 - Vision
 - Cognition



Patient Engagement

- 10 member Patient Working Group
- Redrafted all materials
- New Objective
 - Can diuretics be taken at bedtime without causing or worsening nocturia?





Current Status

- 219 AB Docs have mailed
- 0.62 office mates
- 1655 randomized pts
 - 66.7 yrs
 - 36.3% rural
 - 19.4% physically frail
 - 23.3% ≥6 total Rx
- 79% online consent
- 68% online follow-up for 6 months onward
- Saskatchewan?

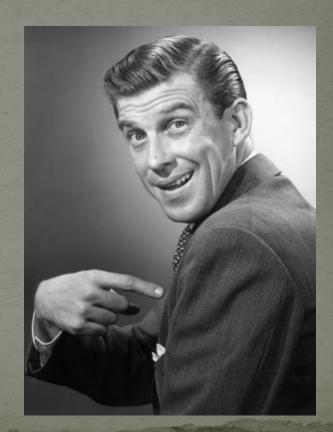
- 100 letters mailed per clinic (expected 200)
 - Telus pushing EMR query to 50% of Docs
 - Alberta Health providing patient lists
 - CPCSSN Central Query
- 4% → 8% recruitment rate (expected 12%)
 - Remove consent / single page
 - Habit social media campaign

BedMed Social Media Campaign



How this relates to YOU...

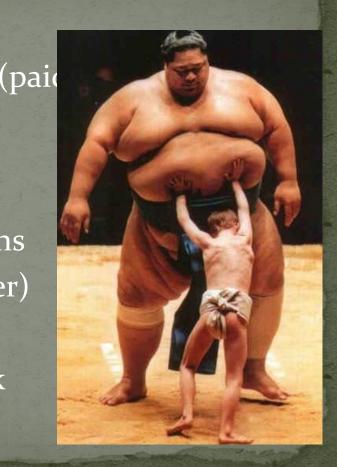
- Remove the consent forms from mailouts
- Most pts choose online follow-up
- For physicians, an in person pitch is needed
- Pilot for patient response
- Evolve recruitment info (RCT within the RCT)



Time Trial

- UK Clinical Research Networks physicians)
 - NIHR Clinical Research Network
 - Scottish Primary Care Research Network
- >8000 physicians

 21,116 pts / 16 months
- Internet based interactions only (younger)
- BID medication users excluded
- 2.7% response to GP letter, 4.1% Biobank
- Social media unhelpful



BedMed-Frail

- Long Term Care Facilities
 - Institute for Continuing Care Education and Research (ICCER)
- ≥ 30 Clusters of 50-100 residents
- 40 participants per cluster (1200 patients total) over roughly 2-3 years to observe 368 primary outcomes
- Hinges on a waiver of consent





