

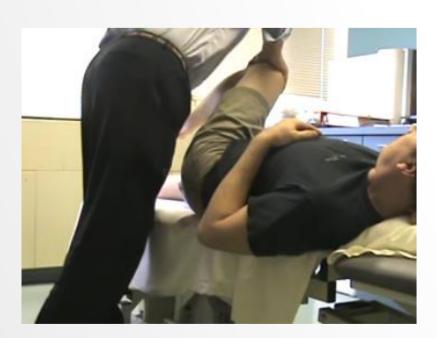


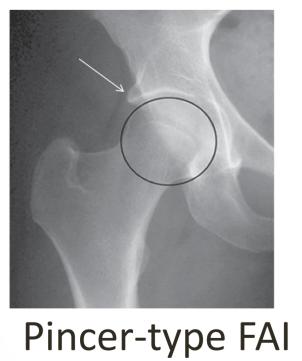
Methods

- This study was conducted within IMPAKT-HiP, a large multi-faceted study on the role of FAI and physical activity in cartilage damage and hip pain.
- Chinese participants were recruited in a cross-sectional telephone survey of a random sample of residents in Vancouver (population=2.3 million, 2011 Census. 19% of the population are ethnic Chinese. Over 25% of new immigrants to Vancouver in the past 5 years were from mainland China).
- **Eligibility:** 1) age 20-49 years; 2) both parents were Chinese descent; 3) were available for an onsite assessment and x-ray session; 4) not have had joint replacement surgery in both hips; 5) not pregnant.
- All calls were initiated in English. Non-English-speaking Chinese respondents received a second call by an interviewer fluent in Mandarin and Cantonese to assess eligibility.
- They are asked the hip pain question: "At any time in the past 12 months, have you experienced any pain, stiffness or discomfort in your groin or the front of your upper thigh?"

Types of FAI

- **Pincer-type FAI** was defined by: 1) presence of focal acetabular retroversion or 2) a lateral center edge angle $>40^{\circ}$.
- **Cam-type FAI** was defined by an alpha angle >55°.







Cam-type FAI

Stafford & Witt. Br J Hosp Med 2009 Feb;70(2):72-73.

Conclusion:

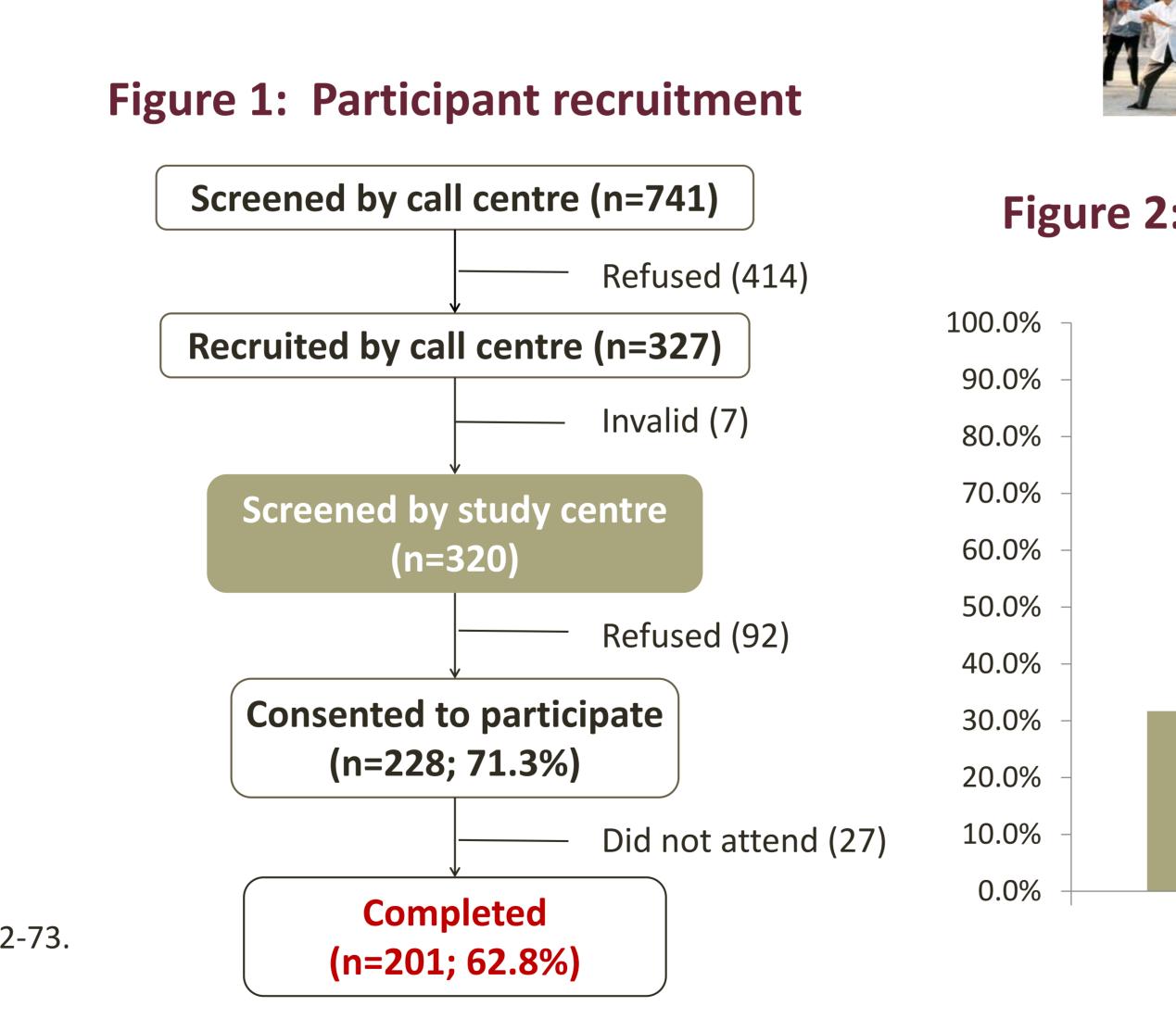
- America.
- into the cause of hip OA.

Prevalence of Femoroacetabular Impingement among Chinese Living in Vancouver, Canada: A Population-Based Study Linda Li^{1, 2}, Jacek Kopec^{1,2}, Hubert Wong^{1,} Jolanda Cibere^{1,2}, Charlie Zhang¹, Eric C. Sayre², Joanna Ye², Morgan Barber², Helen Prlic², John Esdaile^{1, 2} ¹University of British Columbia, ²Arthritis Research Centre of Canada, Vancouver, Canada.

Background

• Femoroacetabular Impingement (FAI) is one source of hip pain in young adults and has been suggested as a major cause of hip osteoarthritis (OA). • The prevalence of FAI was estimated to be over 50% in populations with established OA¹⁻³ and 45% in a primarily Caucasian population in Denmark⁴ Radiographic hip OA is extremely rare in Chinese, but the prevalence of radiographic FAI in the Chinese population is unknown.

- 8 participants (4.0%) had been told they had hip OA by a health professional.
- reported having hip pain (Figure 2).
- 10.4%).
- FAI was present in 44/134 women and 32/67 men.
- had mixed FAI. (Figure 3)



Our findings contribute new information on the prevalence of FAI among Chinese living in North

• Further research to examine prevalence of FAI, using standardized methodologies, in populations with high (e.g., Aboriginal populations) vs. low hip OA prevalence may provide further insight • To estimate the prevalence of hip pain and FAI among Chinese living in Vancouver, Canada.

Results

201 participants were recruited in April 2012-January 2013 (Figure 1, Table 1).

Based on the hip pain question, 59 (29.4%; women=41, men=18) self-

FAI was found in 76 individuals (37.8%; bilateral=55, 27.4%; unilateral=21,

58 participants (28.9%) had pincer FAI, 13 (6.5%) had cam FAI and 5 (2.5%)







Figure 2: Presence of hip pain in 3 age groups

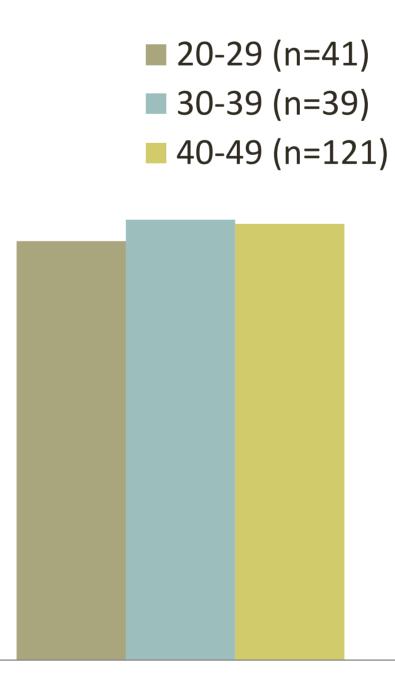
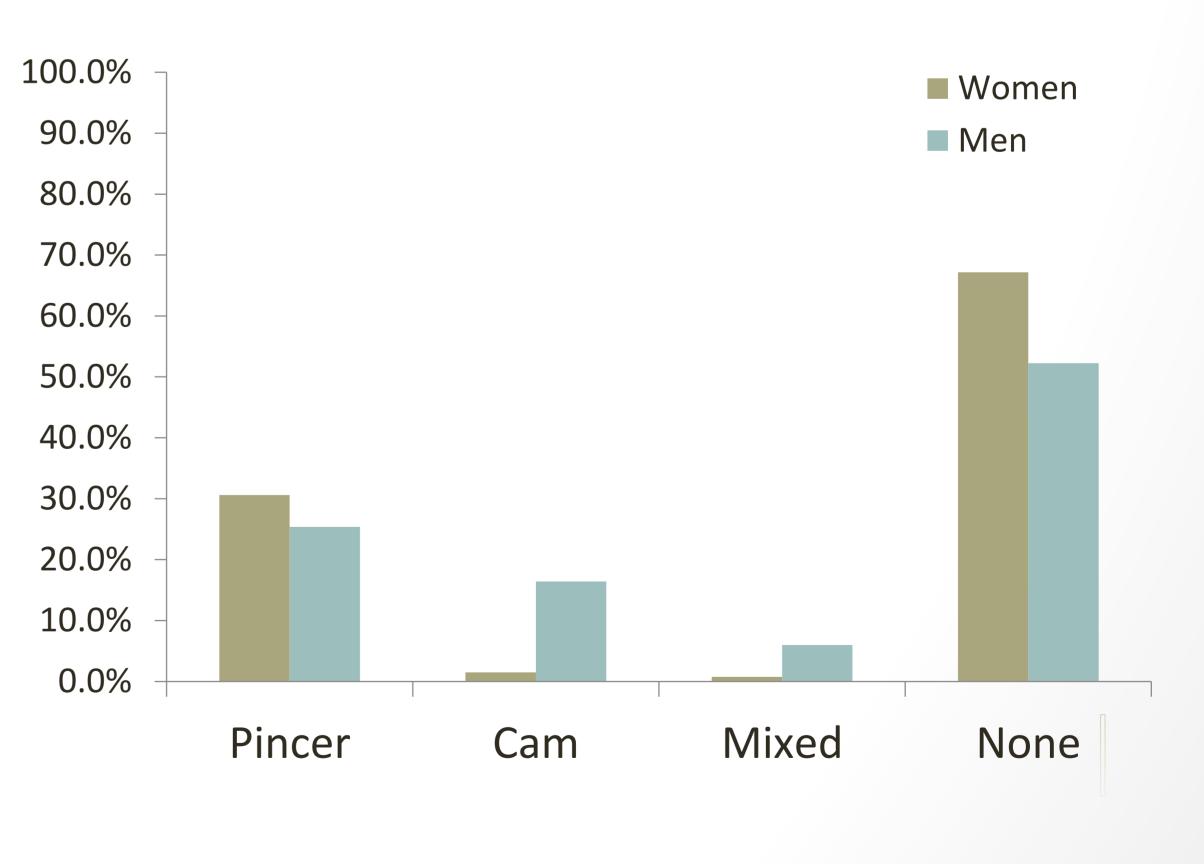


Table 1: Participan

Age Women **Post-secondary scho** Married/common-la Mandarin/Cantones **Annual family incom** HAGOS (0-100; high Symptom/stiffn Pain **Physical function** Sports and recre **Physical activity** Quality of life





No Pain

References:

- I. Lung et al., The prevalence of radiographic femoroacetabular impingement in younger individuals undergoing total hip replacement for OA. Clin Rheumatol, 31:1239-42;2012.
- 2. Ochoa et al., Radiographic prevalence of femoroacetabular impingement in a young population with hip complaints is high. Clin Orthop Relat Res, 468:2710-4;2010.
- Tanzer and Noiseux, Osseous abnormalities and early OA: the role of hip impingement. Clin Orthop Relat Res, 429:170-7.
- 4. Gosvig et al., Prevalence of malformations of the hip joint and their relationship to sex, groin pain, and risk of OA. J Bone Joint Surg Am, 92:1162-9.





Purpose

t Characteristics	
	N = 201
	38.7 years (SD=9.0)
	134 (66.7%)
ool (incl. trade school)	148 (73.6%)
aw	119 (59.2%)
se-speaking	112 (55.7%)
ne <u>></u> CAN\$40,000	101 (50.2%)
er=better)	
ness	89.1 (SD=14.3)
	93.3 (SD=13.1)
on in daily living	93.3 (SD=15.5)
eation	91.2 (SD=16.5)
y	73.0 (SD=24.1)
	88.6 (SD=18.3)

Figure 3: FAI types in men and women



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