

UBC CENTRE FOR
HEALTH SERVICES AND
POLICY RESEARCH

Musculoskeletal Surgery Outcomes by Surgical Setting and Expedited Status

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THE UNIVERSITY OF BRITISH COLUMBIA



Research Opportunity



- WorkSafeBC diagnostic & surgical procedures:
 - 1996: private clinics
 - 2001: expedited fees
- The longer a worker is off work, the less likely they are to return to work
- Never been evaluated – BC Auditor General
- Comparison of surgical groups: private expedited, public expedited, public non expedited

Methods Summary



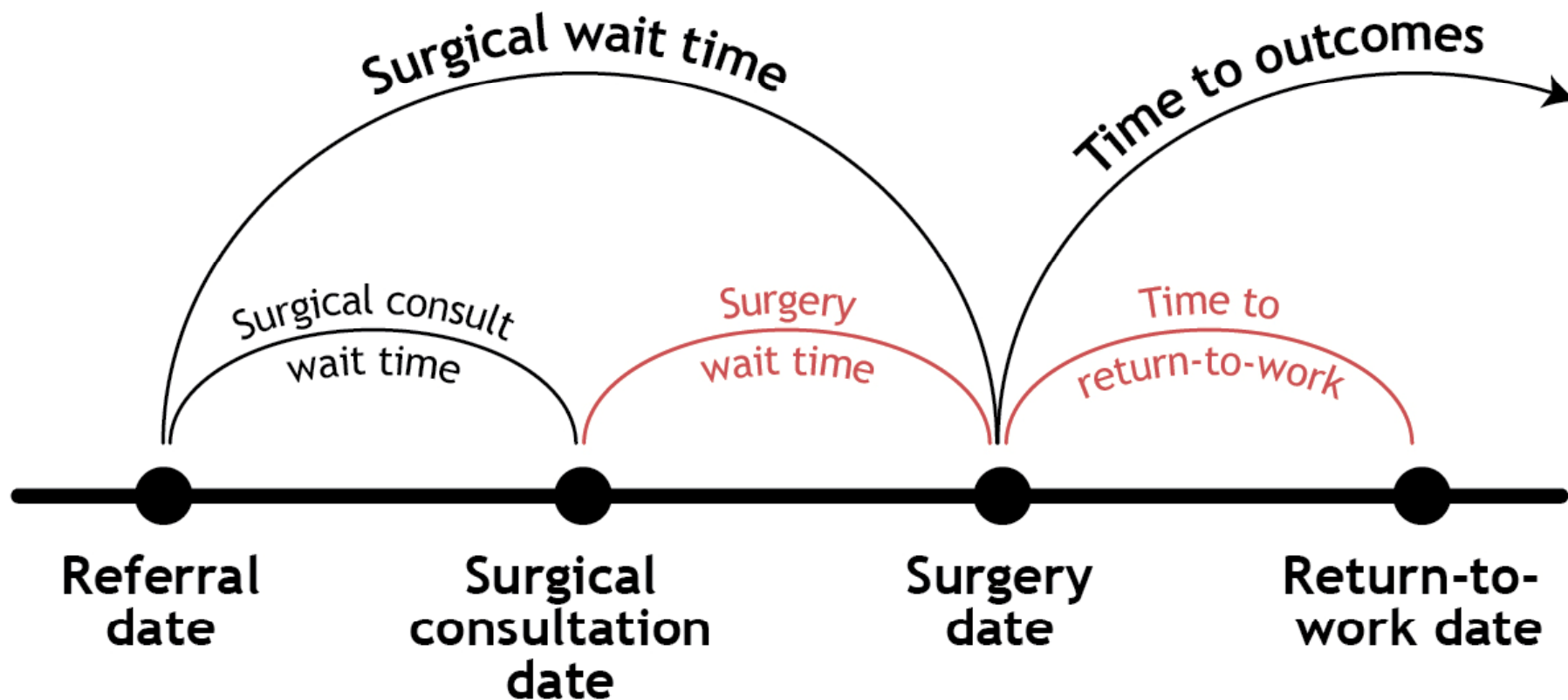
Study Sample:

- Injured workers, time-loss workers' compensation claim for meniscal knee (day) surgery, 2001-2005

Analyses:

- Descriptive characteristics by study groups
- Quantile (median days) regression models
 - Effect of surgical setting and expedited status on wait time and return-to-work time, adjusted for covariates

Defining wait times and outcomes

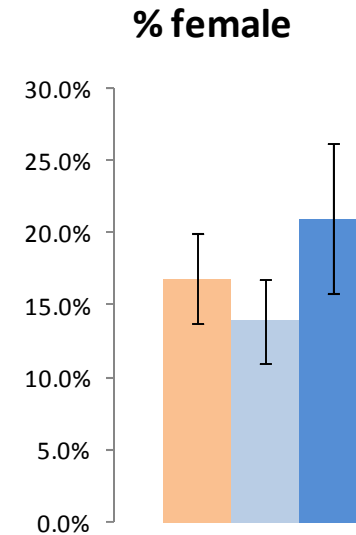
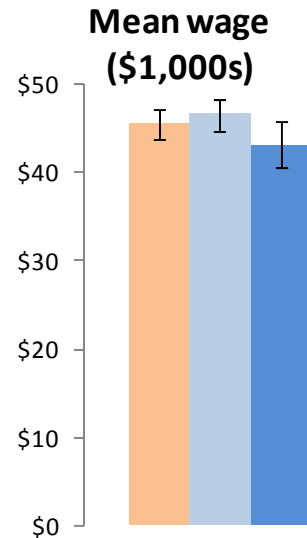
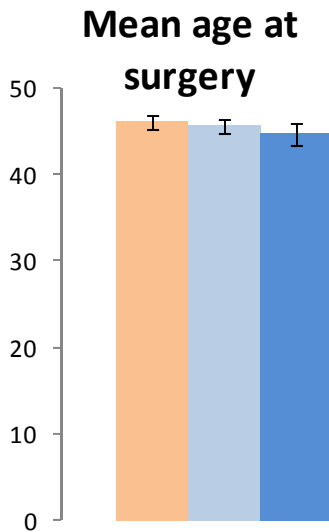
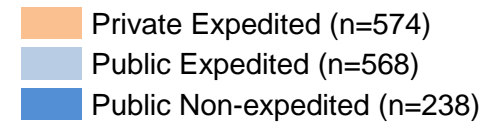


Methods – Study Sample/Groups

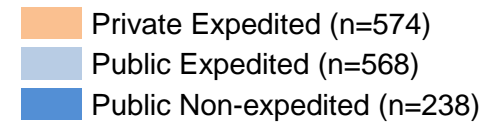
N=1380 individuals

	Public Hospital	Private Clinic
Expedited	568 (41.2%)	574 (41.6%)
Non-expedited	238 (17.2%)	n/a

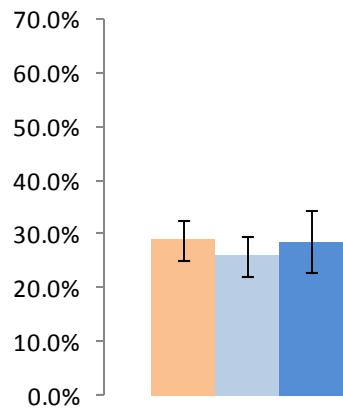
Baseline Characteristics by Surgical Setting and Expedited Status



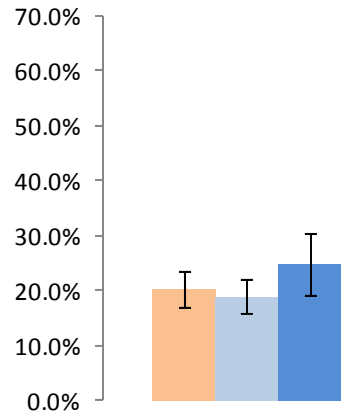
Baseline Characteristics by Surgical Setting and Expedited Status



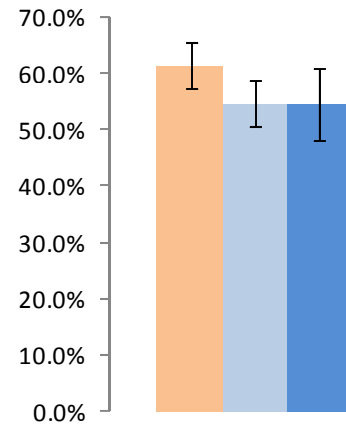
Previous same knee claim



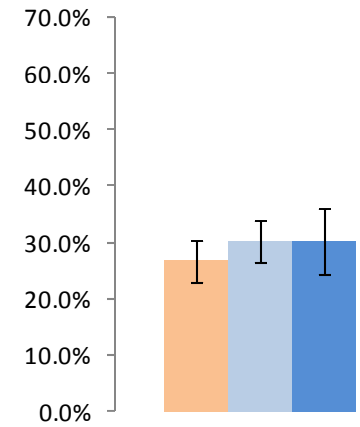
Previous same knee surgery



Osteoarthritis



Other joint co-pathologies



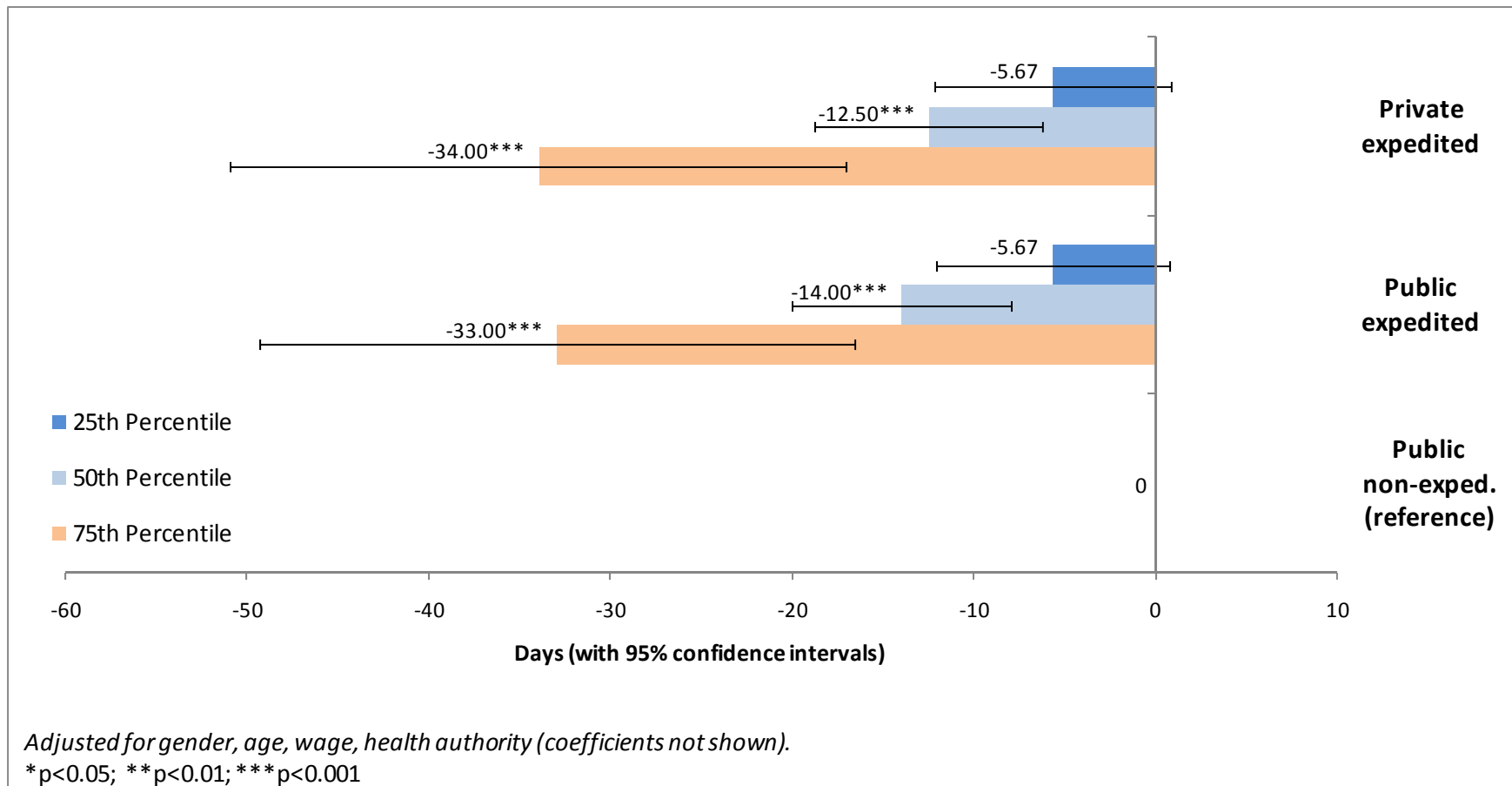
Surgery Wait Time: Last Specialist Consult Date → Surgery Date (Median days (IQR))

	Public Hospital	Private Clinic
Expedited	22 (13-37)	23 (14-38)
Non-expedited	39 (19-69)	n/a

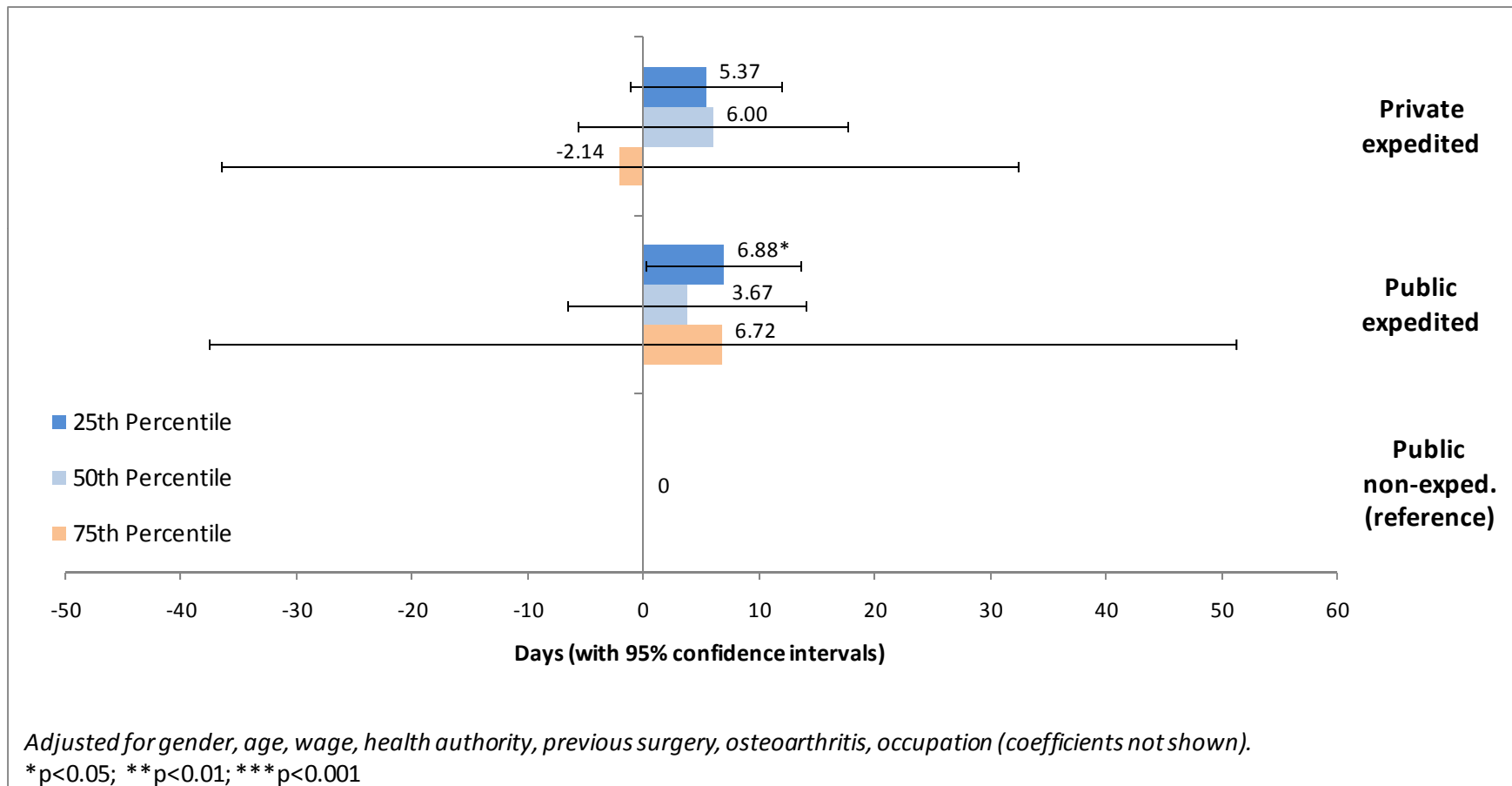
Time to Return to Work: Surgery Date → Return to Work Date (Median days (IQR))

	Public Hospital	Private Clinic
Expedited	55 (32-120)	58 (33-126)
Non-expedited	50 (28-126)	n/a

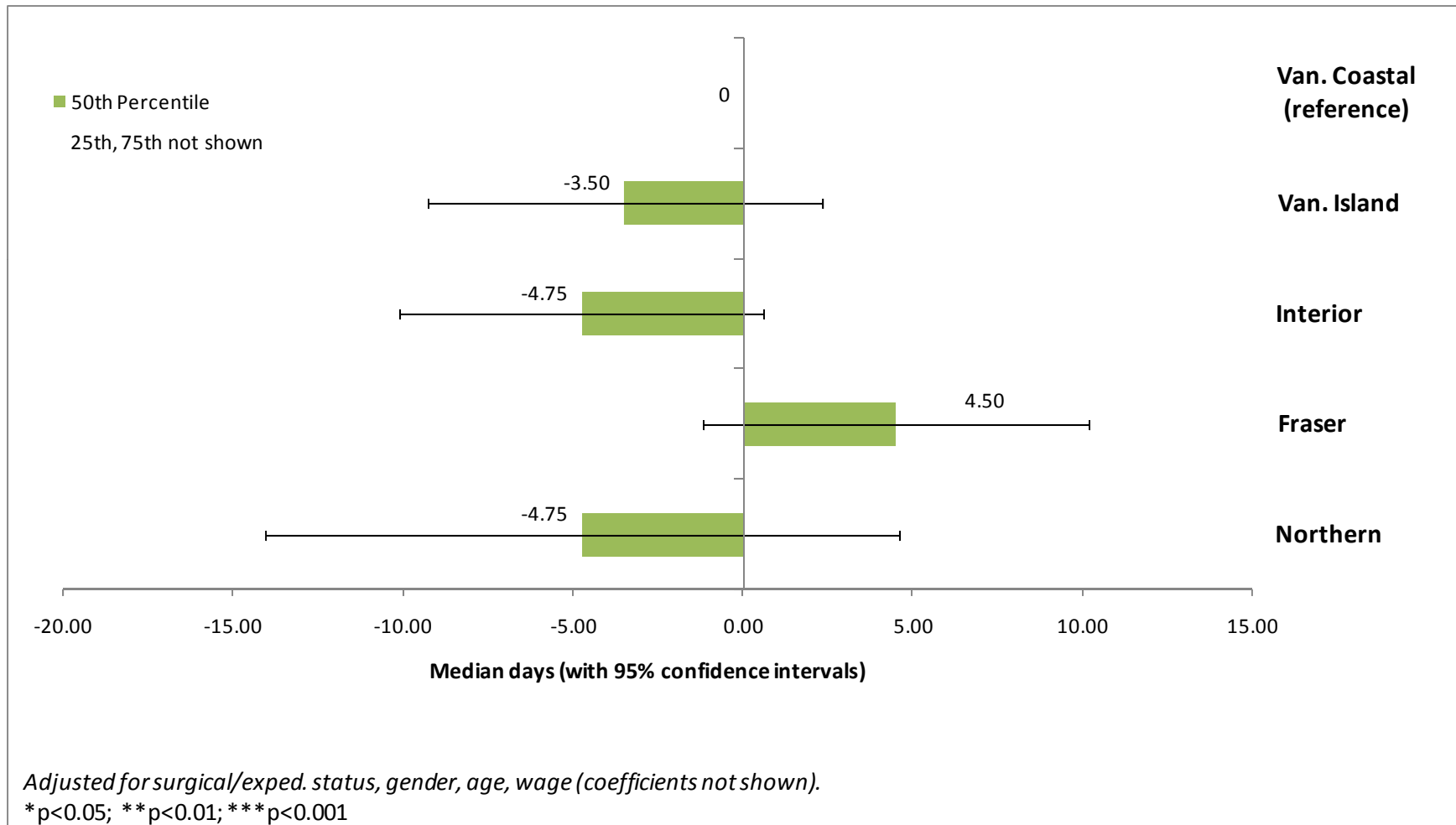
Quantile Regression (comparing median days - surgery wait time) for 25th, 50th and 75th percentiles, adjusted



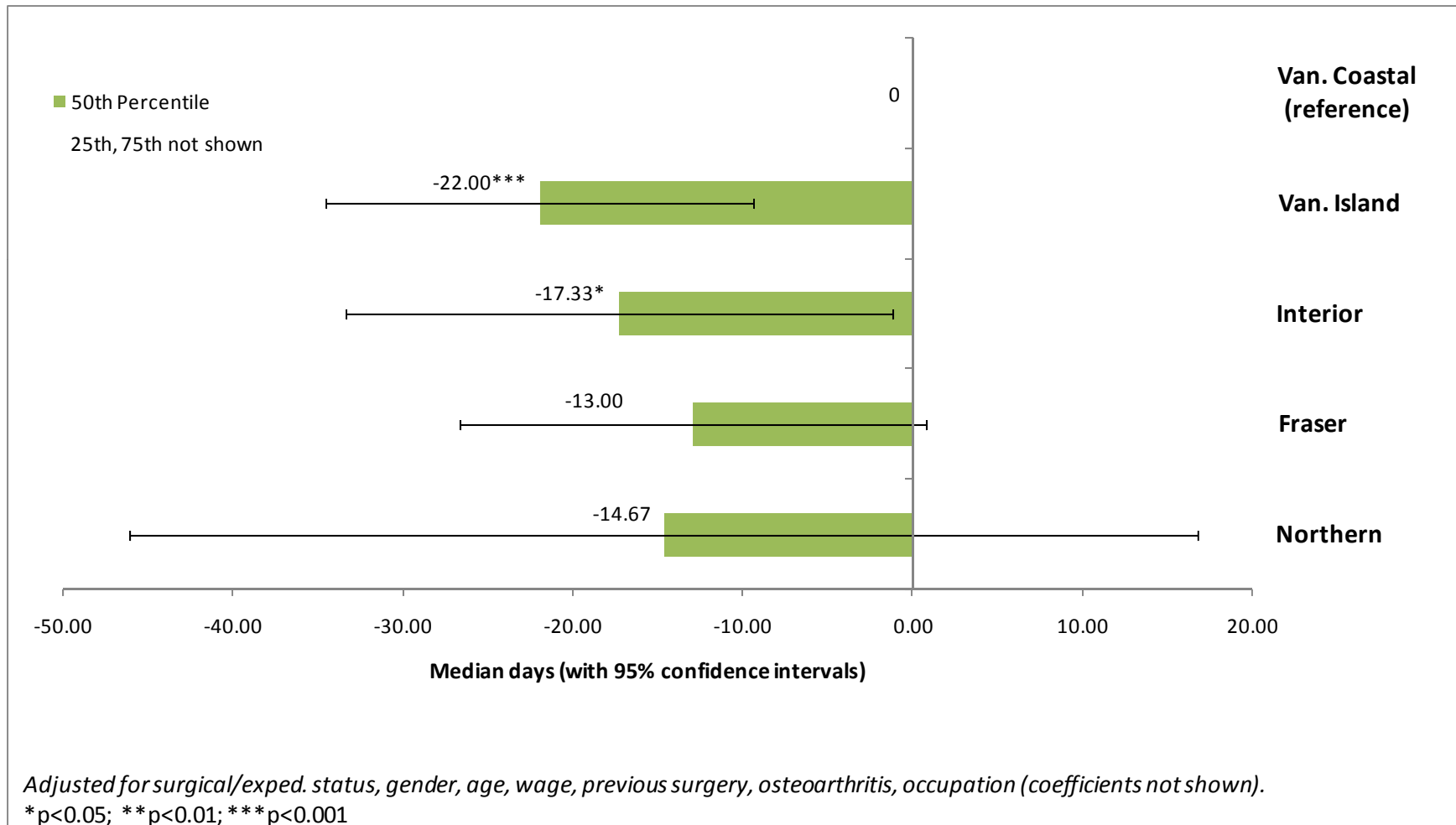
Quantile Regression (comparing median days – RTW time) for 25th, 50th and 75th percentiles, adjusted



Quantile Regression – Differences in Surgery Wait Time by Health Authority 50th percentile, adjusted



Quantile Regression – Differences in RTW Time by Health Authority 50th percentile, adjusted



Thank you!

- WorkSafeBC
 - Partnership
 - Roberta Ellis
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 - Sheilah Hogg-Johnson
 - Research Staff
 - Rahul Chhokar, Eric Lorenz, Lillian Tamburic, Fan Xu, Jonathan Fan, Ronita Nath

More Information

On the Web:

www.chspr.ubc.ca/research/worksafebc

WorkSafeBC

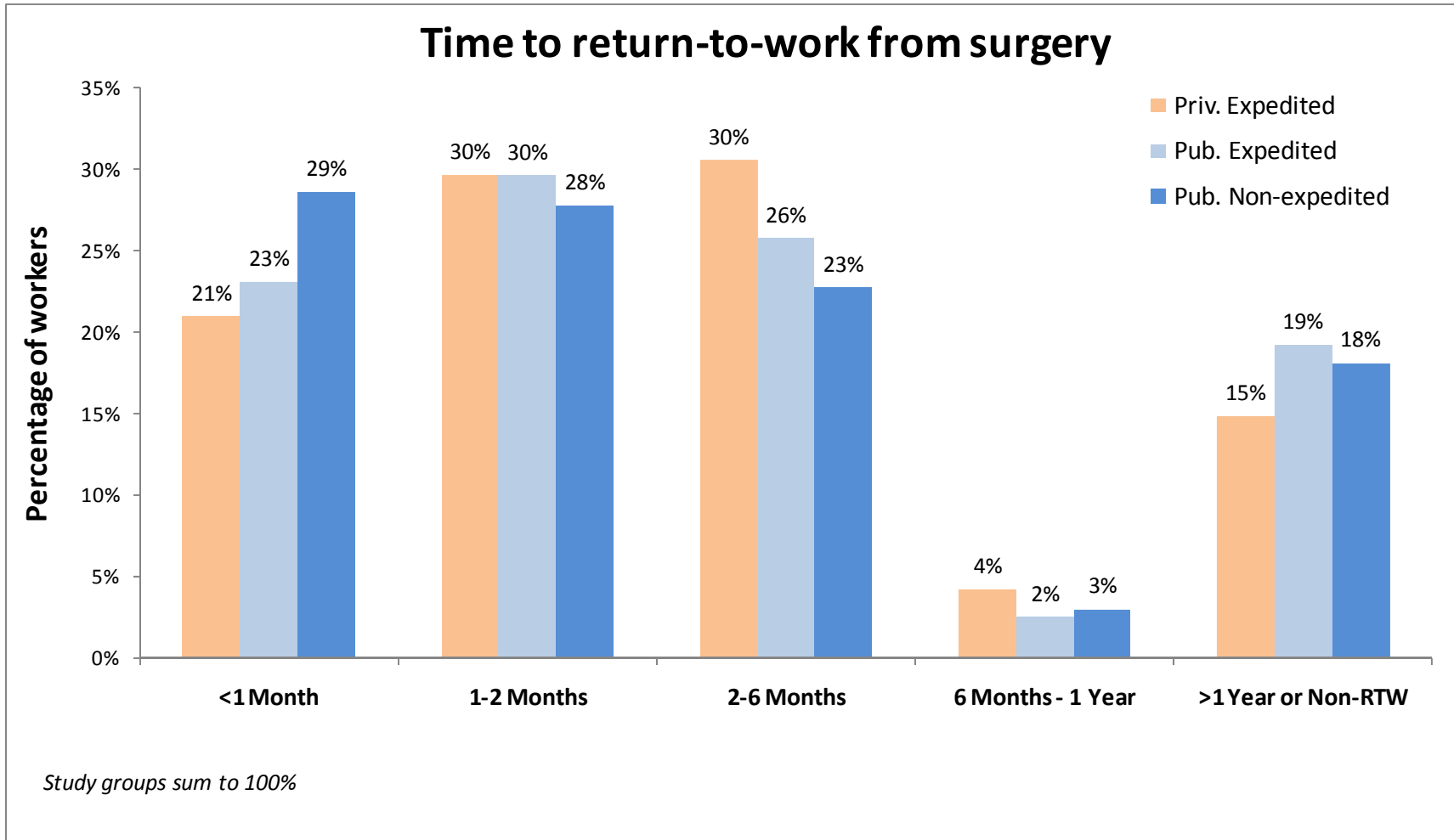
resquery@worksafebc.com

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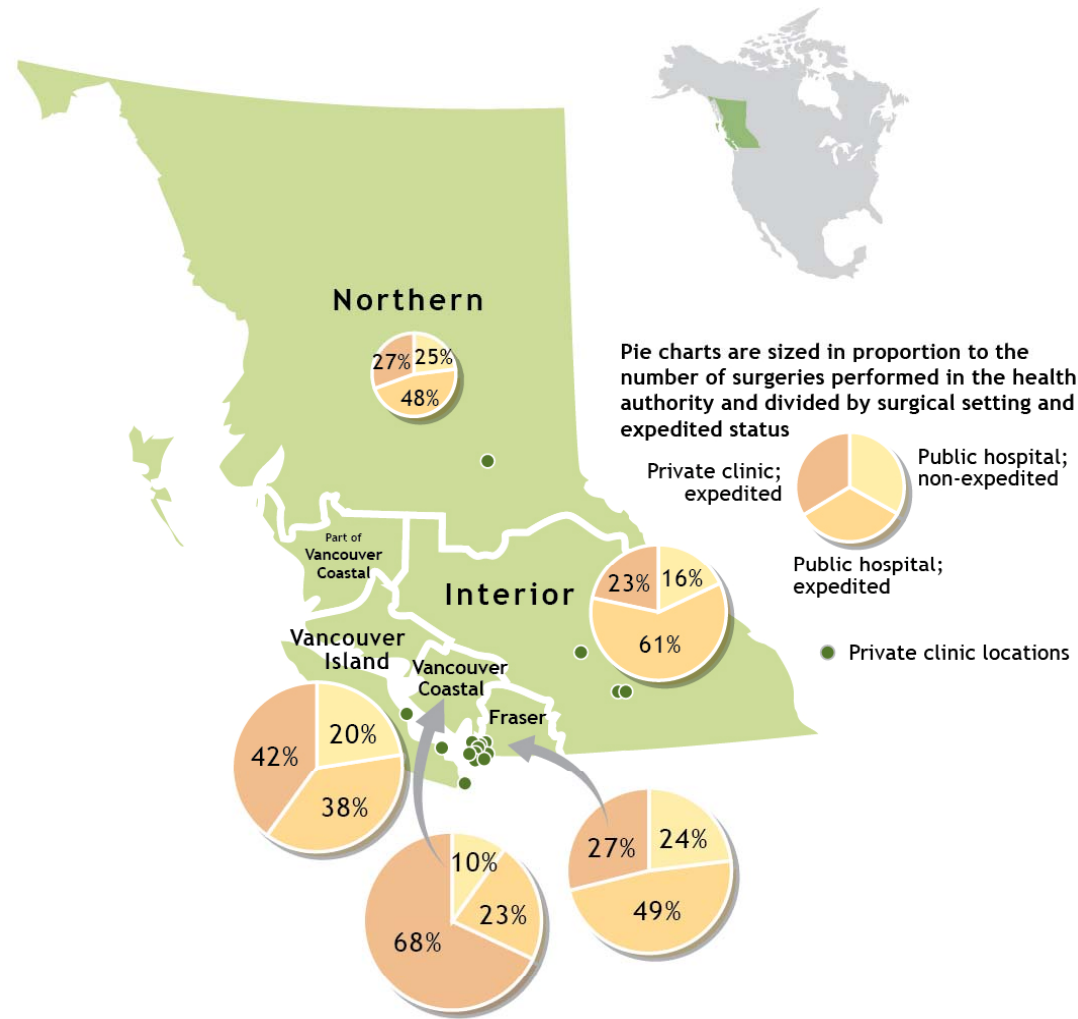
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Results



Meniscal surgeries by surgical setting and expedited status

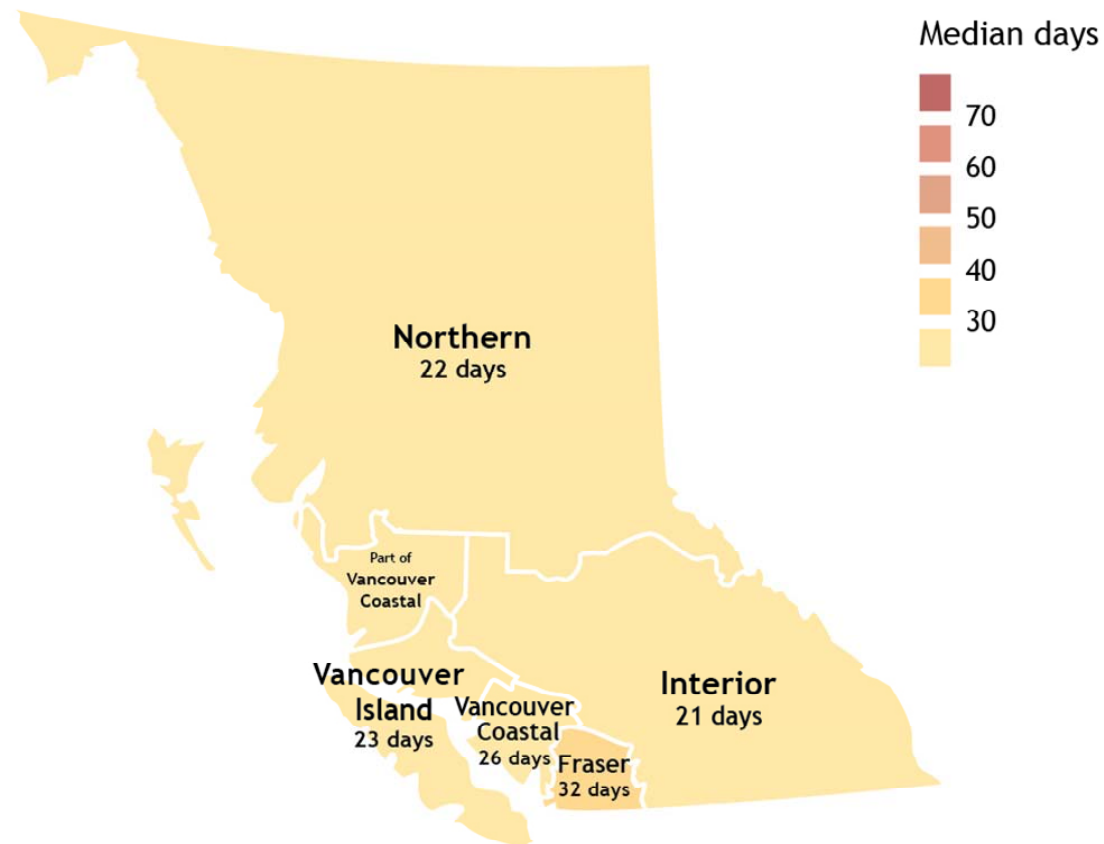


Results

- Adjusted median days, by regional health authority

Surgical wait time

(Last) specialist consult date to surgery date



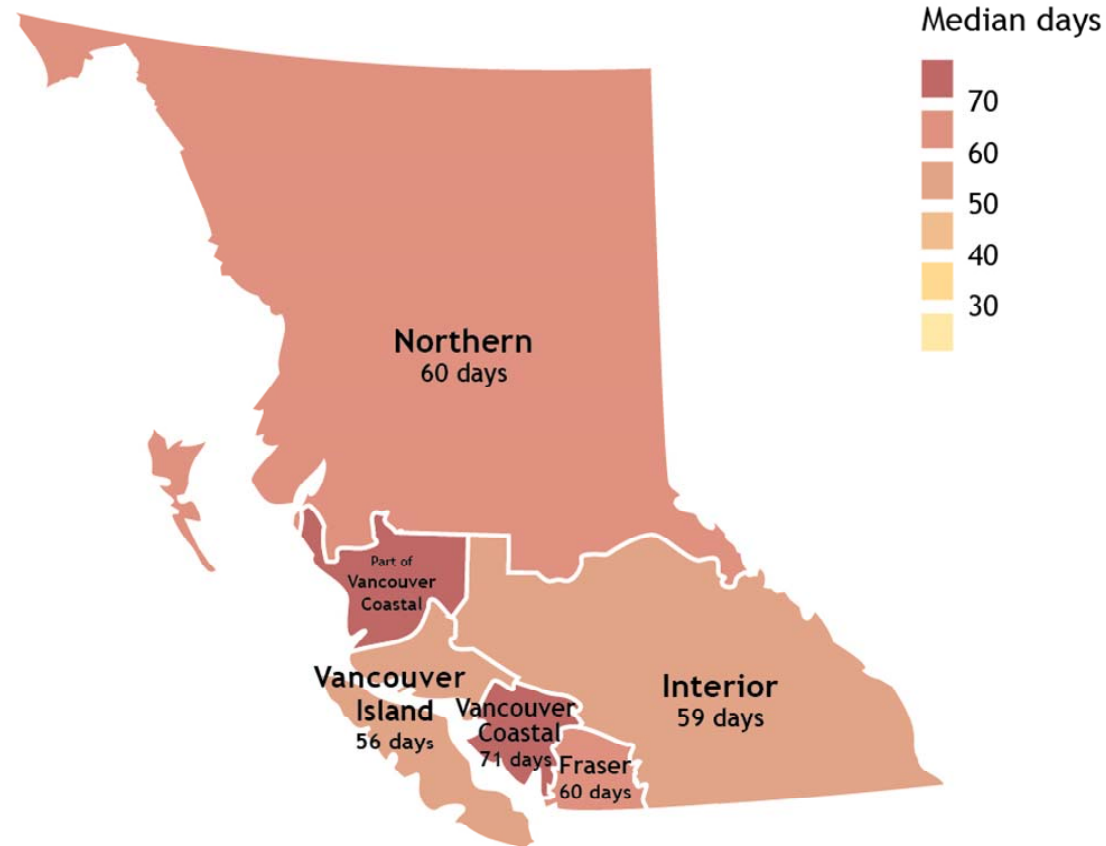
Adjusted for surgical setting/ expedited status, gender, age, wage

Results

- Adjusted median days, by regional health authority

Time to return-to-work

Surgery date to return-to-work date



Adjusted for surgical setting/expedited status, gender, age, wage, previous same-knee surgery, osteoarthritis, occupation