Canada's "COVID-19 Referendum": Voting in the Federal Election of 2021

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Impacts of COVID Research Panel December 5th, 2024, 1:30-3:30 pm

Early Call: Canada's Recent Federal Election History

- Canada's next federal election, its 45th, is expected to be held sometime between now and October 20th, 2025.
- Canada Elections Act specifies that a general election be held on a fixed date since May 2007, on the 3rd Monday of October in the 4th calendar year following the previous election.
- Even if called early in 2025, it would not come nearly as early as its 44th federal election held on September 20th, 2021.
- That federal election of 2021 was only two years after the on-cycle 43rd federal election on October 21st, 2019.

Early Call: "COVID Referendum" and Incumbent Victories

- Objective of early election call was the Liberal government's perceived opportunity to turn minority government, from 2019, back into a majority for 2021, which they had gotten in 2015.
- Reasoning for early call was mostly based on their response to the COVID-19 pandemic, making this an unofficial referendum on their pandemic response. The first listed mandate on their election platform was "Finishing the Fight Against COVID-19".
- But, it was also partly based on the incumbent success rate at the provincial level, from the onset of COVID-19 to the early federal election call, which was one hundred percent (5 of 5): New Brunswick (9/14/2020), British Columbia (10/19/2020), Saskatchewan (10/26/2020), Newfoundland and Labrador (3/25/2021), and the Yukon (4/12/2021).

Early Call: Research Questions of Our Current Study

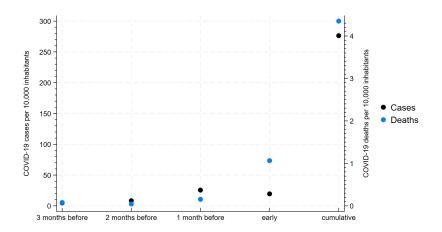
- Our original goal was to examine the impact of working from home, which greatly increased during COVID-19, on voting outcomes. We intended to simply cite the paper that already examined the impacts of COVID-19 on voting in order to do. Despite many COVID papers for Canada, it didn't exist!
- Research Question #1: How did COVID-19 influence voter behaviour and outcomes in Canada's 2021 federal election?
- Research Question #2: Was the Liberal Party correct in calling an early election in order to regain a majority?

Data: Sources for Health and Voting Data

- Health Data: COVID-19 Canada Open Data Working Group
 - Collected from national websites, like Public Health Agency of Canada, and provincial websites, in weekly surveillance reports.
 - Data are daily confirmed cases, deaths, hospitalizations, and vaccinations at the provincial level, along with daily confirmed cases and deaths at the within province health region level.
 - Daily cases and deaths were calculated based on changes from the previous day, which sometimes results in negative numbers.
 - Aggregated from daily to monthly in order to minimize the number of empty cells, especially for deaths.
 - Five forms of COVID severity: three months before, two months before, one month before, early, and cumulative.

• Voting Data: Elections Canada (more on this in Estimation)

Data: Five Forms of COVID Severity



Method: Harmonizing Data Across Different Borders

- The main issue in dealing with these two data sources together is that the health data are collected by health region and the voting data are collected by federal electoral district.
- Therefore, our main contribution is the harmonization of the data between health regions and electoral districts, which is done by weighting electoral districts within a health region.
- What follows are four different examples of how these borders look for: Canada, Alberta, the Edmonton–Wetaskiwin Electoral District, and the Lethbridge Health Region.

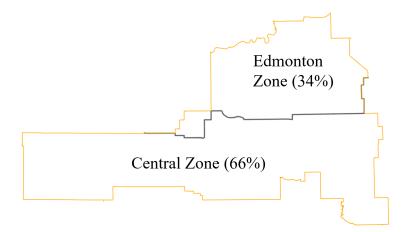
Method: Border Differences Within Canada



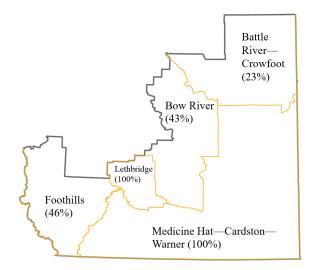
Method: Border Differences Within Alberta



Method: Edmonton-Wetaskiwin Electoral District



Method: Lethbridge Health Region

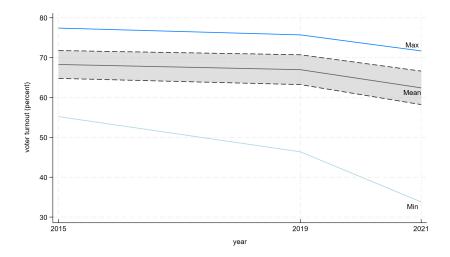


Estimation: Preferred Regression Specification

 $\triangle(\textit{VOTE}_{2021-2019,h,p}) = \alpha + \beta \cdot \textit{log}(\textit{COVID}_{h,p}) + \gamma_p + \triangle \varepsilon_{h,p}$

- $\triangle(VOTE_{2021-2019, h, p})$ is the change in voting, in a health region h and province p, between the 2019 and 2021 elections.
- log(COVID_{h,p}) is the natural log of COVID-19 severity, using confirmed cases or deaths, under a previous time horizon.
- γ_p are provincial fixed effects included to pick up provincial differences, such as in COVID protocols or political culture.
- Voting outcomes are examined in three ways: in Voter Turnout, in Party Vote Shares, for Party Dominant Regions.

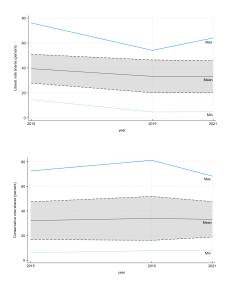
Voter Turnout: Federal Turnout Decreased Since 2015



Voter Turnout: COVID Severity Decreases Turnout

- Statistically significant and negative relationship between local COVID severity and voter turnout. This was likely anticipated.
- A ten percent increase in COVID severity is associated with a 3.9 to 8.9 percentage point decrease in voter turnout, with COVID deaths one month out having the largest magnitude.
- This is supported by data from the Canadian Election Study (CES). Almost 12 percent of people were uncomfortable voting in person during the pandemic. People were also 2 percent more likely to vote if they did felt comfortable with it.

Party Vote Shares: Liberal and Conservative Vote Shares



Marchand & Wang, Economics, University of Alberta

Canada's "COVID-19 Referendum": Voting in 2021

Party Vote Shares: COVID Severity Favours Liberals

- Local COVID severity is also associated with a higher vote share for Liberals and a lower vote share for Conservatives.
- A ten percent increase in COVID severity is associated with a 3.5 to 4.3 percentage point increase in the Liberal share and a 3.6 to 4.5 percentage point decrease in the Conservative share.
- COVID severity had no statistically significant effect on smaller party shares (New Democratic Party, Bloc Québécois, etc.).
- This points to the Liberals being correct to call an election two years early in the midst of the COVID pandemic. However, ...

Party Dominant Regions: Turnout and Party Together

- The final analysis is an attempt to mix the previous two outcomes of voter turnout and party vote shares together.
- We construct Liberal Dominant and Conservative Dominant Regions based on having a share difference greater than 15 percentage points and compare them to Neutral Regions.
- Conservative Dominant Regions increased voter turnout by 0.9 to 1.2 percentage points more relative to Neutral Regions, while Liberal Regions decreased by 1.5 percentage points more.
- This could be interpreted as the blind spot that wouldn't have been obvious. But, this does not necessarily mean that only Conservatives turned out more in those Conservative regions.

Marchand & Wang (2024): Summary of Our Evidence

- Our evidence summarized in three parts:
 - Voter Turnout: COVID severity associated with decreased turnout; supported by CES findings of mild discomfort with in person voting during pandemic.
 - Party Vote Shares: COVID severity associated with increased Liberal support and decreased Conservative support, with no statistical significance among other parties.
 - Party Dominant Regions: Conservative dominant regions associated with increased turnout, while Liberal dominance associated with decreased turnout.
- Although it could have been anticipated that turnout would be lower due to the pandemic, and the assumption that COVID would translate into more Liberal support was correct, it may have been difficult to predict that voters in Conservative areas would increase turnout, while Liberal areas turned out less.

Marchand & Wang (2024): Coming Later This Month



Marchand, J., Wang, Y. 2024. Canada's "COVID-19 Referendum": Voting in the Federal Election of 2021.

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