

An Alarming Rate of Gendered and Racialized Police Strip Searches in the Toronto Municipal, 2020-2021*

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Police strip search has been a topic of great contention during the COVID-19 pandemic. The question commonly raised was how certain demographics are more likely to undergo arrests and strip searches than others, and why has this skewed power dynamics been maintained for so long. Data then was gathered from Open Data Toronto to assess the correlation between strip searches and the racial and gender identities of arrested ‘suspects’ in the Toronto Municipal from 2020 to 2021. This analysis would enable us to rethink the modern form of policing, how it transpires in times of crisis and critically affects people of marginalized identities. More on RESULTS

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*Code and data are available at: https://github.com/ponolite/Police_Arrests_and_Strip_Searches/tree/main

1 Introduction

Recently, the Ford government has been at the forefront of public push-back in Toronto, due to their revisions of strip search laws under the Ministry of Correctional Services Act, R.S.O. 1990, c. M.22. Addressed by the Canadian Civil Liberties Association, the revisions “fall short...to ensure that prisoners are treated with basic respect” (O’Brien 2023). By definition, strip search is a police enforcement, which entails removing some or all articles of clothing to visually inspect a person’s private body parts and see if they harbor any items like weapons or drugs (Data 2022). Surprisingly, while contended as a dehumanizing policing act, little has been done to assess strip search as a form of police power abuse in Toronto. This is especially relevant considering the city’s racialized and gendered demographics, how strip searches most likely affect these social groups under the subtext of COVID-19 from 2020 to 2021 (Lemke 2022).

This paper thus inspects gender and racial identities of all Toronto police arrests from 2020 to 2021, and assesses if there is a correlation between marginalized identities and police strip searching. Foremost, this paper aims to be a form of data activism to counter the injustices related to police power abuse around strip searching of the vulnerable Toronto population. To analyze, I first map out the distribution of Toronto police arrests by race and gender and reasons for strip searching from 2020 to 2021 using bar graphs and various other graphs. Particularly, for each variable of race and gender, the distribution bars would be sectioned into ‘including strip searches’ or ‘not including’ to visualize the statistics of strip searching. With that, It’s worth noting that this dataset may already contain much racial and gender bias, because it was retrieved from the very source that this paper is questioning: the Toronto Police Services (Lemke 2022). Then, the findings presented might not fully encapsulate the actual landscape of strip searching in Toronto from 2020 to 2021. Yet, it’s still worth looking at due the alarming precedents of police power abuse (Allen and Yang 2020).

Structurally then, this paper is organized into the following sections: Data, Results, Discussion, and Conclusion. First, the Data section divulges the nature of the dataset obtained from Open Data Toronto and how data cleaning and extraction took place (Data 2022). Then, all the trends and findings discovered are shown in the Results section, while the Discussion section further assesses these findings. Ultimately, the Conclusion section summarizes the paper’s main insights.

2 Data

The data package used for analysis was sourced from the Open Data Toronto Portal under the library `opendatatoronto` (Gelfand 2022). Only one dataset was retrieved from the data package to examine the racial and gender identities of Toronto police arrests from 2020 to 2021, which is the package `Police Race and Identity Based Data - Arrests and Strip Searches` (Data 2022). Data was generated, extracted and cleaned using the open-source statistical programming language R (R Core Team 2022), leveraging functions from `tidyverse` (Wickham et al. 2019), `ggplot2` (Wickham 2016), `dplyr` (Wickham et al. 2022), `readr` (Wickham, Hester, and Bryan 2022), `tibble` (Müller and Wickham 2022), `janitor` (Firke 2021), `kableExtra` (Zhu 2021), `naniar` (Tierney and Cook 2023) and `knitr` (Xie 2014).

2.1 Overview of Data Extraction and Cleaning

This chosen dataset was published by Toronto Police Services to convey information related to all police arrests and strip searches from 2020 to 2021 (last updated on December 2, 2022). Originally, the dataset features information on date of arrest, event id, the arrested person’s race, sex, and age group, arrest location, whether the arrest includes strip searching, the person’s action at the time of arrest, and the police’s reason for strip searching along with details on any items found. Informative as it is, the dataset contains much naming inconsistency and many variables outside the scope of this paper. Thus, in order to conduct an intersectional—or gender and race—analysis of police strip searches, I have to further clean this dataset and split it into two smaller datasets. Additional details on data extraction and cleaning will be specified in subsequent sections.

2.2 Racial and Gender Identities of Police Strip Search

To streamline the data regarding racial and gender identities of the people involved in police strip searches, the names within the original dataset are simplified and then the dataset is split into a smaller one containing relevant columns (see 1). This dataset contains demographic and strip search-relevant information for each police arrest event, such as race, gender, whether the event involves a strip search, and if it is a strip search, are there any items found.

Specifically, the column ‘Strip Search’ signifies whether an arrest involves strip search. As for the ‘Items Found’ column, either a 1 or a 0 will appear in a data cell if the ‘Strip Search’ value of an event is a 1. This is because the items found within a strip search is only available when a police arrest does involve strip searching.

Furthermore, the reason for keeping rows of events that don’t include strip search is to later produce summary statistics of events with and without strip searches. This further aligns with the task of the paper at hand, which is to critically reflect on the rate of strip searching on people with racialized and gendered identities.

Table 1: Sample of Race and Gender Data against Police Arrests with Strip Searches

ID	Race	Gender	Strip Search	Items Found
1005907	White	M	No	NA
1014562	White	M	No	NA
1029922	Unknown or Legacy	M	No	NA
1052190	Black	M	No	NA
1015512	South Asian	M	No	NA
1019145	South Asian	M	No	NA
1035445	Black	M	No	NA
1050464	Black	M	No	NA
1045486	Black	M	No	NA
1012287	Black	M	No	NA
1056655	Black	M	No	NA
1040382	Black	M	No	NA

2.3 Reasons for Police Strip Search

The other dataset conveys all police arrests that involve strip searching and the reasons behind strip searching. Under close examination, the naming of individual data cells in different columns from the original, raw dataset is quite disordered, for instance, using **None** and **XX** in place of the usual **NA**. Thus, all inconsistent data cells were renamed to streamline the naming conventions and data processing later on. After renaming, the big dataset was split into containing relevant columns (see 2). Then, for this particular dataset, all instances of police arrests without strip searching are dropped using the `filter()` function, along with a `!is.na()` function for rows with **NA** as values all the **reason** column.

Except for “ID” column, all other columns in this new dataset are reasons which account for why the Toronto police force conducts strip search under certain arrests. For instance, “Reason - Assist Escape” is for people who may have helped other suspects escape and “Reason - Possess Evidence” is for people who are suspected of harboring items like drugs or an alibi. For each “Reason” column, if the data cell contains 0, this means that strip search doesn’t happen because of that particular reason. Vice versa, if it contains 1, this means strip search happens because of that reason.

Table 2: Sample of Reasons for Police Strip Searches Data

ID	Reason - Injury	Reason - Escape	Reason - Weapons	Reason - Has Evidence
1039002	1	1	1	0
1045382	1	1	1	0
1041209	1	0	0	0
1026070	0	0	1	1
1028958	1	0	1	0
1026364	1	0	0	0
1026190	1	0	0	0
1044055	1	1	1	1
1047514	1	0	0	1
1003364	1	0	0	1
1036208	1	1	0	0
1001763	1	1	1	1

Table 3: Summary Statistics of Racialized Police Strip Searches

Race	Strip Search	Number of Arrests	Percentage
Black	No	15092	86
Black	Yes	2434	14
East/Southeast Asian	No	4074	92
East/Southeast Asian	Yes	341	8
Indigenous	No	1628	84
Indigenous	Yes	306	16
Latino	No	1636	93
Latino	Yes	132	7
Middle-Eastern	No	3009	93
Middle-Eastern	Yes	228	7
None	No	3	75
None	Yes	1	25
South Asian	No	3356	93
South Asian	Yes	257	7
Unknown or Legacy	No	4520	89
Unknown or Legacy	Yes	536	11
White	No	24157	87
White	Yes	3566	13

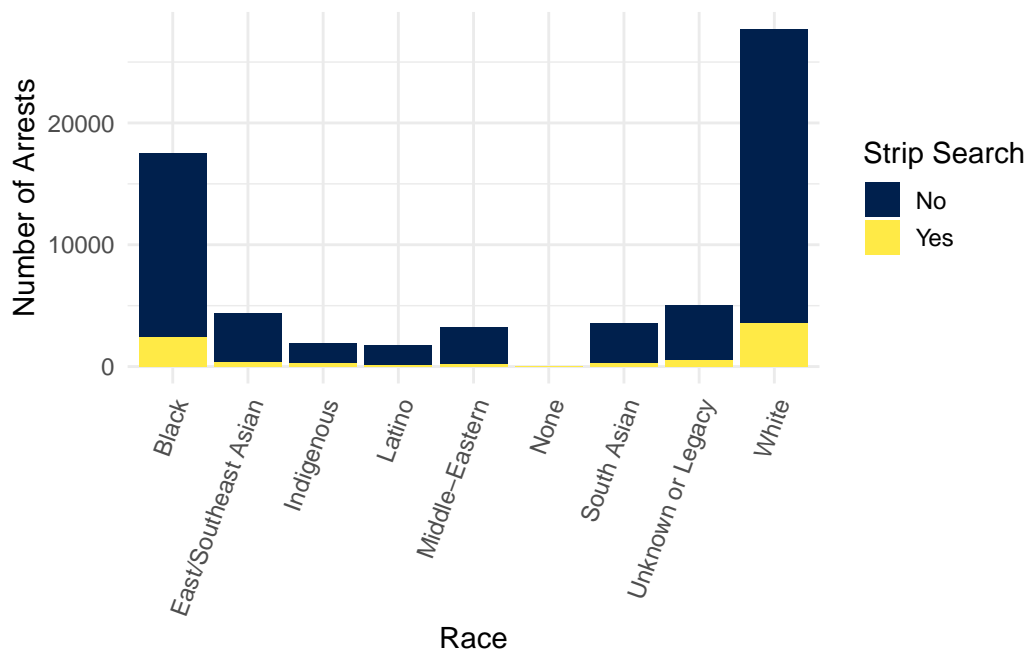


Figure 1: Racial Identities and Police Strip Search Per Arrest in Toronto, 2020-2021

Table 4: Summary Statistics of Gendered Police Strip Searches

Gender	Strip Search	Number of Arrests	Percentage
F	No	11334	90
F	Yes	1283	10
M	No	46132	88
M	Yes	6518	12
U	No	9	100

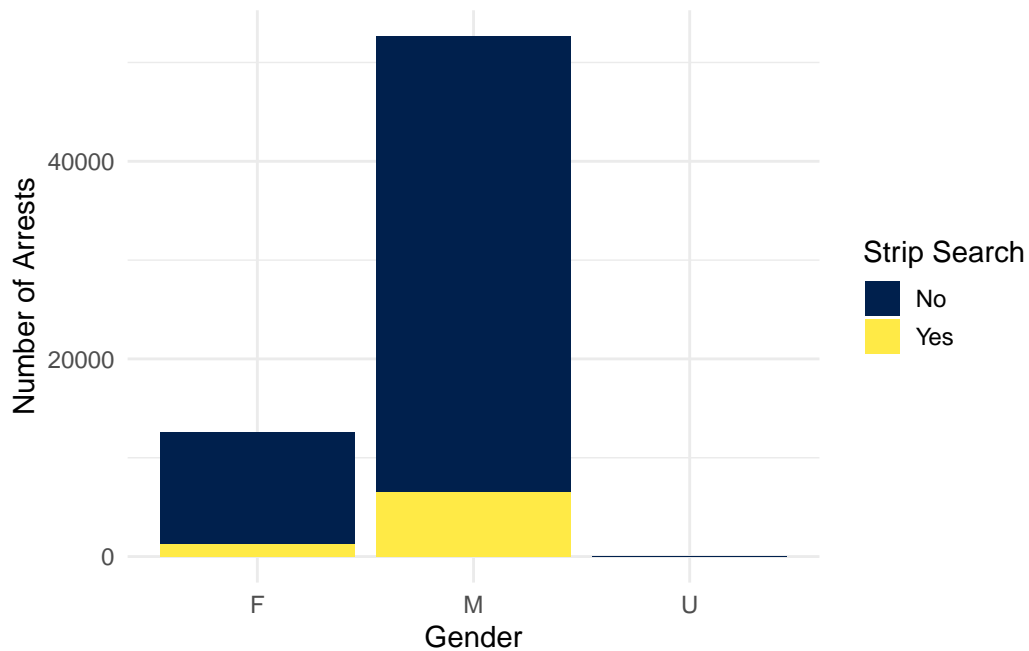


Figure 2: Gender Identities and Police Strip Search Per Arrest in Toronto, 2020-2021

Table 5: Summary Statistics of Items Found During Police Strip Searches

Strip Search	Items Found	Number of Arrests
Yes	0	4890
Yes	1	2911

3 Results

3.1 Racialized and Gendered Police Strip Searches Statistics

3.2 Police Strip Searches and Items Found Statistics

4 Discussion

5 Conclusion

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