

# Summary of Recodes

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## Introduction

This document tracks and summarizes basic data wrangling and recodes conducted at LISPOP for the 2021 Canadian Public Health Workforce and General Population Survey. The purpose of this document is to facilitate multi-institutional collaboration. LISPOP staff will take on the task of basic variable recodes and export data files for analysis by project researchers so that they can dedicate their attention to substantive analyses.

## Scientific Literacy Questions

We have recoded variables Q14\_1, Q14\_2, Q14\_3 and Q14\_4 into variables `know1`, `know2`, `'know3'` and `know4` such that respondents were coded 1 if they were correct and 0 if they were incorrect.

If Q14\_1 = 1 or 2 (Definitely or Probably false), it is correct “Ordinary tomatoes do not contain genes, while genetically modified tomatoes do.”

If Q14\_2 = 1 or 2 (Definitely or Probably false), it is correct “Antibiotics kill viruses as well as bacteria.”

If Q14\_3 = 3 or 4 (Definitely or Probably true), it is correct “The cloning of living things produces genetically identical copies.”

If Q14\_4 = 3 or 4 (Definitely or Probably true), it is correct “All plants and animals have DNA.”

## Cognitive Reflection test Questions

We have recoded variables Q18\_1, Q19\_1, Q20\_1 and Q21\_1 into variables `crt1`, `crt2` etc. such that respondents were coded 1 if they got the correct response and 0 if they were incorrect.

CRT Question Q18\_1 coded 1 when answer (X) is a variation of “Second Place” “If you’re running a race and you pass the person in second place, what place are you in?”

CRT Question Q19\_1 coded 1 when answer (X) is a variation of “Eight” “A farmer had 15 sheep and all but 8 died. How many are left?”

CRT Question Q20\_1 coded 1 when answer (X) is a variation of “Emily” “Emily’s father has three daughters. The first two are named April and May. What is the third daughter’s name?”

CRT Question Q21\_1 coded 1 when answer (X) is a variation of “None” “How many cubic feet of dirt are there in a hole that is 3’ deep x 3’ wide x 3’ long?”

```
## # A tibble: 2,207 x 4
##   Q18_1 Q19_1 Q20_1 Q21_1
##   <chr> <chr> <chr> <chr>
## 1 second 8      june 27
## 2 First 7      June 3'
## 3 Second 7      Emily Idk
## 4 1      8      Emily 16
```

```
## 5 first 8 Emily 27
## 6 first 7 June 3'
## 7 first 7 June 27
## 8 First 8 Emily 9
## 9 second 15 Emily 3
## 10 1st 8 emily 27
## # ... with 2,197 more rows
```

## Most Important Problem in Public Health

We have provided more meaningful variable names (e.g. `Obesity`, `Vaccine Hesitancy`, etc. ) and *appended* these to the data frame. The original variables are `Q1_1` through `Q1_9`. In addition, we have gone through the open ended responses that respondents provided and added new variables that appeared frequently in the data set. The index currently reads:

- 1 = COVID-19
- 2 = Public health messaging/gov't handling of COVID
- 3 = Healthcare (access to care, short supply)
- 4 = Long term care
- 5 = Chronic disease (cancer, heart disease)
- 6 = Mental health
- 7 = Access to housing and food
- 8 = Drug abuse
- 9 = Inequality
- 10 = Economy
- 11 = Corrupt gov't
- 12 = Climate change/environmental
- 13 = Abortion
- 14 = Reliance on meat
- 15 = Domestic abuse
- 16 = Misinformation
- 17 = Internet addiction
- 18 = Don't know