

Relations between Inflammation, access to care and Diabetes in two representative populations of China and Mexico.

Dominik Grätz<sup>1</sup>, Rachel Miller-Moudgil<sup>1</sup>, Amber Somarriba<sup>1</sup>, Brittany Spinner<sup>1</sup>, & Tian Walker<sup>1</sup>

<sup>1</sup> University of Oregon

Author Note

List of group members ordered by alphabet.

Abstract

*Background.* Background goes here. *Methods.* Methods go here. *Results.* Results here.

*Conclusions.* Conclusions here.

*Keywords:* Diabetes, access to care, inflammation, health, Mexico, China

Word count: X (this cannot easily be done automatically, we can also just leave it out)

Relations between Inflammation, access to care and Diabetes in two representative populations of China and Mexico.

```
##
## Call:
## lm(formula = crp ~ hba1c * medication + age, data = RQ1_df)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.5545 -0.7586 -0.3563  0.5011  3.5249
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.170340    0.621564   1.883  0.0605 .
## hba1c          0.069964    0.039064   1.791  0.0741 .
## medication2    0.859571    0.655572   1.311  0.1906
## age           -0.002503    0.007024  -0.356  0.7218
## hba1c:medication2 -0.090588    0.079689  -1.137  0.2564
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.107 on 366 degrees of freedom
## (1820 observations deleted due to missingness)
## Multiple R-squared:  0.01194,    Adjusted R-squared:  0.001137
## F-statistic: 1.105 on 4 and 366 DF,  p-value: 0.3538
##
## Call:
```

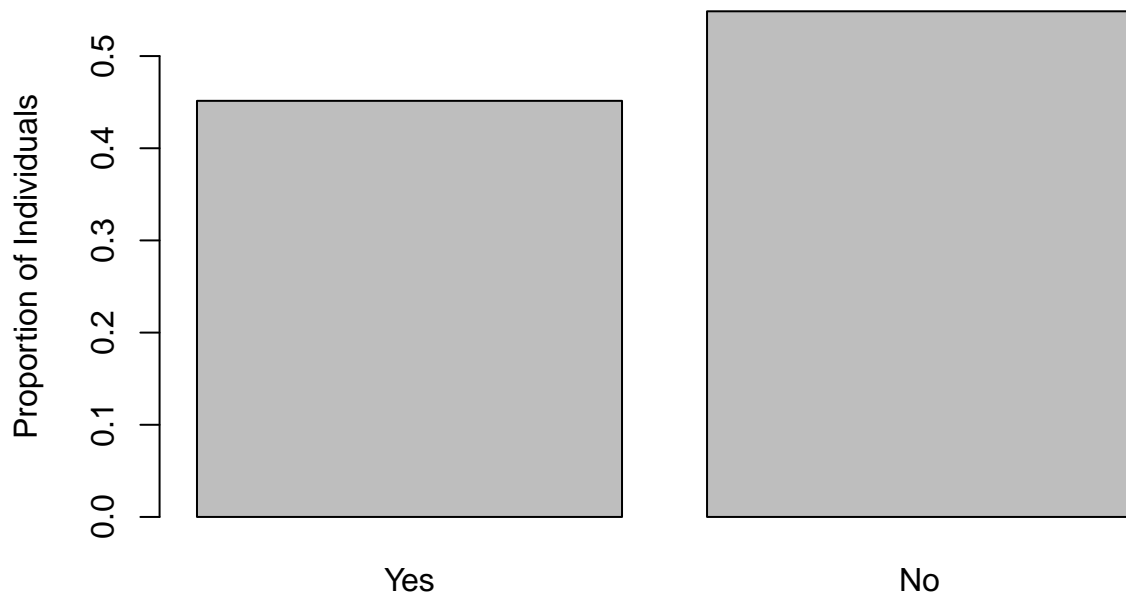
```
## lm(formula = crp ~ hba1c * dt_exrcse + age, data = data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.6591 -0.7701 -0.3612  0.4871  3.3676
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.335079    0.686390   1.945   0.0525 .
## hba1c           0.066237    0.054890   1.207   0.2283
## dt_exrcse2      0.009813    0.572430   0.017   0.9863
## age            -0.002263    0.006978  -0.324   0.7458
## hba1c:dt_exrcse2 -0.032749    0.069211  -0.473   0.6364
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.103 on 366 degrees of freedom
## (1820 observations deleted due to missingness)
## Multiple R-squared:  0.02035,    Adjusted R-squared:  0.009643
## F-statistic: 1.901 on 4 and 366 DF,  p-value: 0.1097

## tibble [350 x 10] (S3: tbl_df/tbl/data.frame)
## $ sex          : Factor w/ 2 levels "1","2": 1 2 1 2 2 1 1 2 1 2 ...
## $ diagnosis     : Factor w/ 2 levels "1","2": 1 1 1 1 1 1 1 1 1 1 ...
## $ age           : int [1:350] 67 62 75 87 65 62 60 60 67 57 ...
## $ hba1c         : num [1:350] 6.54 6.05 14.22 8.82 9.65 ...
## $ crp           : num [1:350] 0.95 3.15 1.29 1.29 1 ...
## $ medication    : Factor w/ 2 levels "1","2": 1 1 1 1 1 1 1 1 1 2 ...
```

```
## $ dt_exrcse      : Factor w/ 2 levels "1","2": 2 1 2 1 2 2 2 2 1 2 ...
## $ med_dt_exrcse: Factor w/ 2 levels "1","2": 2 2 2 2 2 2 2 2 2 1 ...
## $ access         : Factor w/ 2 levels "1","2": 2 2 2 2 2 1 1 1 1 2 ...
## $ q5027          : int [1:350] NA NA NA NA NA 1 12 12 1 NA ...

## tibble [350 x 6] (S3: tbl_df/tbl/data.frame)
## $ diagnosis: Factor w/ 2 levels "1","2": 1 1 1 1 1 1 1 1 1 1 ...
## $ age      : int [1:350] 67 62 75 87 65 62 60 60 67 57 ...
## $ hba1c    : num [1:350] 6.54 6.05 14.22 8.82 9.65 ...
## $ crp      : num [1:350] 0.95 3.15 1.29 1.29 1 ...
## $ dt_exrcse: Factor w/ 2 levels "1","2": 2 1 2 1 2 2 2 2 1 2 ...
## $ access   : Factor w/ 2 levels "1","2": 2 2 2 2 2 1 1 1 1 2 ...

##
## Yes  No
## 158 192
```



individuals 50yo or older with Diabetes that partake in Diet&/Exercise and saw a Dr. in the L

The descriptive statistics for our sample look as follows:

Table 1

*Descriptive statistics.*

	Mexico
$N_{total}$	2191
Sex	
male	869 (39.70 %)
female	1317 (60.10 %)
unknown	5 (0.20 %)
Age	68.20 ( $SD = 9.30$ )
Diabetes	
diagnosed	374 (17.10 %)
undiagnosed	205 (9.40 %)