## Capstone EDA

## Gabby Lopez

## 2025 - 01 - 28

There are 673 patients that are marked as having prediabetes as well as type II diabetes. Not a big deal for the actual analysis itself since we will combine these two indicator variables into one variable, but we should clear this up for our descriptive statistics.

table 1 for KOH only - need to add average number of KOH meetings attended

## Adding missing grouping variables: `UniqueIdentifier`

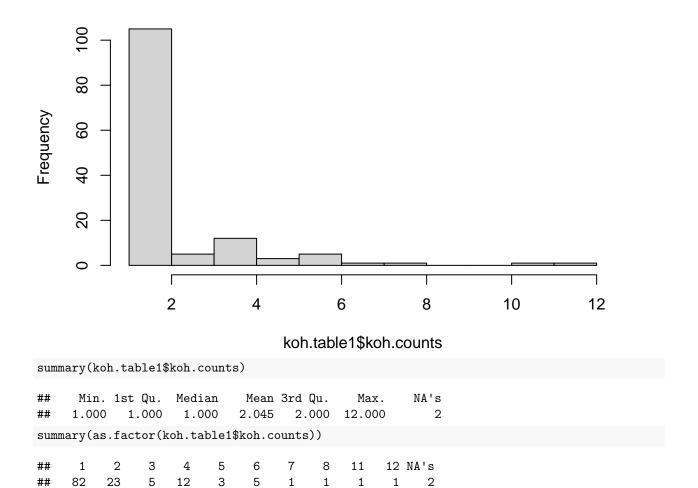
	VOII Dontioint-
Baseline Characteristics	KOH Participants
Buseline Characteristics	N = 136
Age	
Median (Min, Max)	58 (21, 80)
Sex	
Female	89 (65%)
Male	47~(35%)
KOH Meetings Attended	
Median (Min, Max)	1 (1, 12)
Missing	2
Hypertension	49 (36%)
Pre-Diabetes or T2DM	97 (71%)
Hypertension and T2DM	47 (35%)
Clinic Location	
Maple	24~(28%)
Market	62~(72%)
Missing	50
Housing Status	
Housed	70 (51%)
Doubling Up	64~(47%)
Permanent Supportive Housing	1 (0.7%)
Transitional	0 (0%)
Homeless Shelter	1 (0.7%)

- I CI	KOH Participants	
Baseline Characteristics	N = 136	
Street	0 (0%)	
Other	0 (0%)	
Unknown	0 (0%)	
Income Level		
Median (Min, Max)	5(0, 294)	
Missing	8	
Risk Score		
Median (Min, Max)	1(0, 9)	
Missing	6	

distribution of KOH attendance

hist(koh.table1\$koh.counts)

## Histogram of koh.table1\$koh.counts



subsetting koh patients with hypertension

```
# get pts with htn
koh.htn <- koh.table1 %>% filter(HTN == 1)
# isolate the patient ids
koh.htn.patlist <- koh.htn %>% select("UniqueIdentifier")
# select bp measures for only kohn htn pts
koh.bp <- left_join(koh.htn.patlist, bp.nona.18, by = "UniqueIdentifier") %>% select(-age)
# count number of bp readings per patient
koh.bp.counts <- koh.bp %>% group_by(UniqueIdentifier) %>% count(name = "bp.counts")
# remove any patients that only have 1 reading - i will filter out any that don't have reading before a
koh.htn.elig.patlist <- koh.bp.counts %>% filter(bp.counts > 1) %>% select("UniqueIdentifier")
# now that we have the "eligible patients" we can subset the BP data for these patients
koh.bp.elig <- left_join(koh.htn.elig.patlist, koh.bp, by = "UniqueIdentifier")</pre>
subsetting koh patients with prediabetes or T2DM
```

```
# get pts with diabetes
koh.t2dm <- koh.table1 %>% filter(Diabetes == 1)
# isolate the patient ids
koh.t2dm.patlist <- koh.t2dm %>% select("UniqueIdentifier")
# select a1c measures for only koh t2dm pts
koh.a1c <- left_join(koh.t2dm.patlist, a1c.nona.18, by = "UniqueIdentifier") %>% select(-age)
# count number of a1c readings per patient
koh.a1c.counts <- koh.a1c %>% group_by(UniqueIdentifier) %>% count(name = "a1c.counts")
# remove any patients that only have 1 reading - i will filter out any that don't have reading before a
koh.t2dm.elig.patlist <- koh.a1c.counts %>% filter(a1c.counts > 1) %>% select("UniqueIdentifier")
# now that we have the "eligible patients" we can subset the a1c data for these patients
koh.a1c.elig <- left_join(koh.t2dm.elig.patlist, koh.a1c, by = "UniqueIdentifier")</pre>
```

table 1 for all Marshallese and non-Marshallese

Baseline Characteristics	Overall $N = 28,649^1$	Marshallese	Non-Marshallese
		N = 873	N = 27776
Age			
Median (Min, Max)	41 (18, 102)	45 (18, 89)	41 (18, 102)
Sex			
Female	16,690 (58%)	577 (66%)	16,113 (58%)
Male	$11,959 \ (42\%)$	296 (34%)	$11,663\ (42\%)$
Hypertension	6,906 (24%)	211 (24%)	$6,695\ (24\%)$
Pre-Diabetes or T2DM	4,506 (16%)	422~(48%)	$4,084\ (15\%)$
Hypertension and T2DM	$2,806 \ (9.8\%)$	190~(22%)	$2,616 \ (9.4\%)$
Clinic Location			
Maple	19,692 (69%)	432~(52%)	19,260 (69%)
Market	8,907 (31%)	392 (48%)	8,515 (31%)
Missing	50	49	1

Baseline Characteristics	Overall $N = 28,649^1$	Marshallese	Non-Marshallese
		N = 873	N = 27776
Housing Status			
Housed	$20,628 \ (72\%)$	544~(62%)	20,084 (72%)
Doubling Up	5,585 (19%)	304~(35%)	5,281 (19%)
Permanent Supportive Housing	$350 \ (1.2\%)$	7 (0.8%)	$343 \ (1.2\%)$
Transitional	626~(2.2%)	4~(0.5%)	$622\ (2.2\%)$
Homeless Shelter	$438 \ (1.5\%)$	5~(0.6%)	$433\ (1.6\%)$
Street	$524 \ (1.8\%)$	2(0.2%)	522 (1.9%)
Other	$444 \ (1.5\%)$	6 (0.7%)	$438 \ (1.6\%)$
Unknown	54~(0.2%)	1 (0.1%)	53~(0.2%)
Income Level			
Median (Min, Max)	114 (0, 25, 568)	43 (0, 461)	116 (0, 25, 568)
Missing	4,663	66	4,597
Risk Score			
Median (Min, Max)	1(0, 22)	1 (0, 12)	1(0, 22)
Missing	3,207	72	3,135

<sup>&</sup>lt;sup>1</sup>n (%)