Presentation

Minsu Kim, Alona Muzikansky, Ariane Stark, Jadey Wu

Introduction

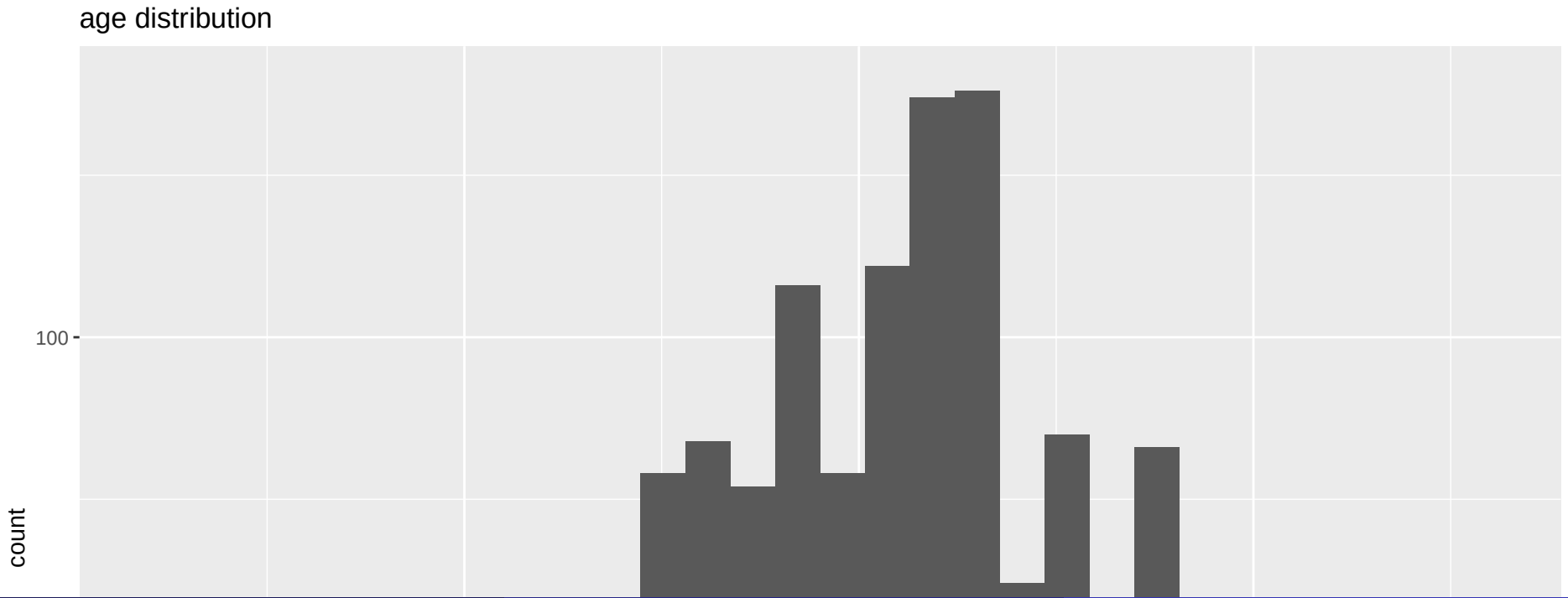
Introduction text here

Descriptive Statistics

put summary

```
age.hist <- ggplot(data.work, aes(data.work$AGE)) + geom_histo
  labs(title = "age distribution", x = "age")
age.hist
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `bin
```



Ariane: Analysis of Sex and Chronic Heart Failure: Overview

Question: Is there an association between sex and chronic heart failure?

	Chronic Heart Failure	
Sex	No	Yes
Female	353	149
Male	699	179

Analysis of Sex and Chronic Heart Failure: Tests

Pearson χ^2 Test of Independence:

```
X-squared
 14.71773

p-value = 0.00012
```

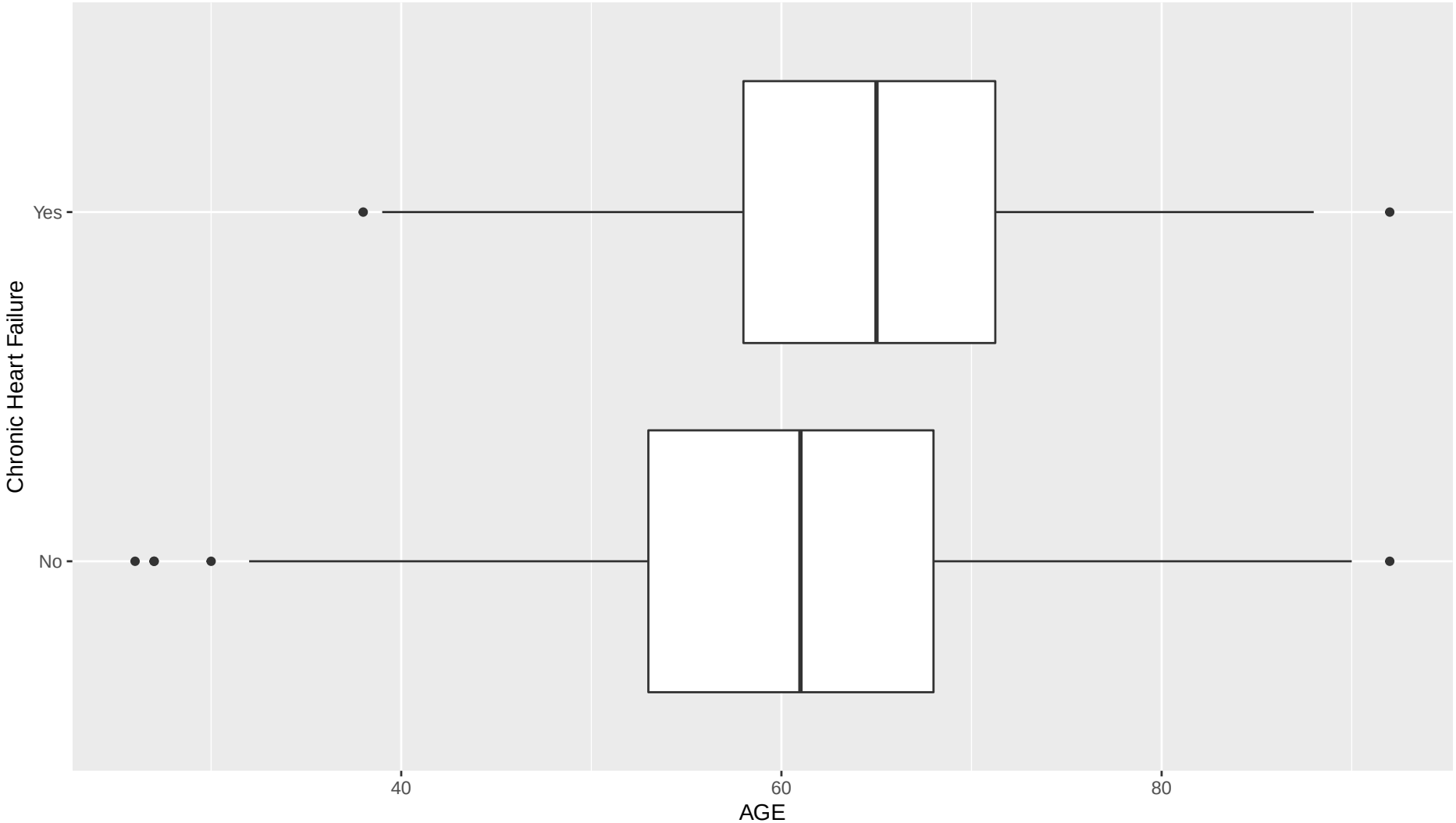
Likelihood Ratio Test of Independence:

```
       G
14.93905

p-value = 0.00011
```

Analysis of Age(Continuous) and Chronic Heart Failure: Overview

Question: Is there an association between age and chronic heart failure?



Analysis of Age(Continuous) and Chronic Heart Failure: Summary Statistics

	Chronic Heart Failure	
	No	Yes
Min.	26	38
1st Qu.	53	58
Median	61	65
Mean	60.42586	64.51220
3rd Qu.	68.00	71.25
Max	92	92

Analysis of Age(Continuous) and Chronic Heart Failure: Test

Analysis was done using a two sided Wilcoxon Rank Sum Test to test if there is a difference in Chronic Heart Failure outcome across age.

```
       W
136546.5

p-value = 1e-08
```

Analysis of Age(Categorical) and Chronic Heart Failure: Overview

Question: Is there an association between age(decade) and chronic heart failure?

	Chronic Heart Failure	
Age	No	Yes
20s	3	0
30s	44	2
40s	114	24
50s	294	67
60s	365	126
70s	197	86
80s	32	22
90s	3	1

Analysis of Age(Categorical) and Chronic Heart Failure: Test

Pearson χ^2 Test of Independence:

```
X-squared
 35.41942

p-value = 1e-05
```

Likelihood Ratio Test of Independence:

```
       G
38.86163

p-value = 2.08e-06
```

Alona

Alona

Minsu

Minsu

Jadey

Jadey