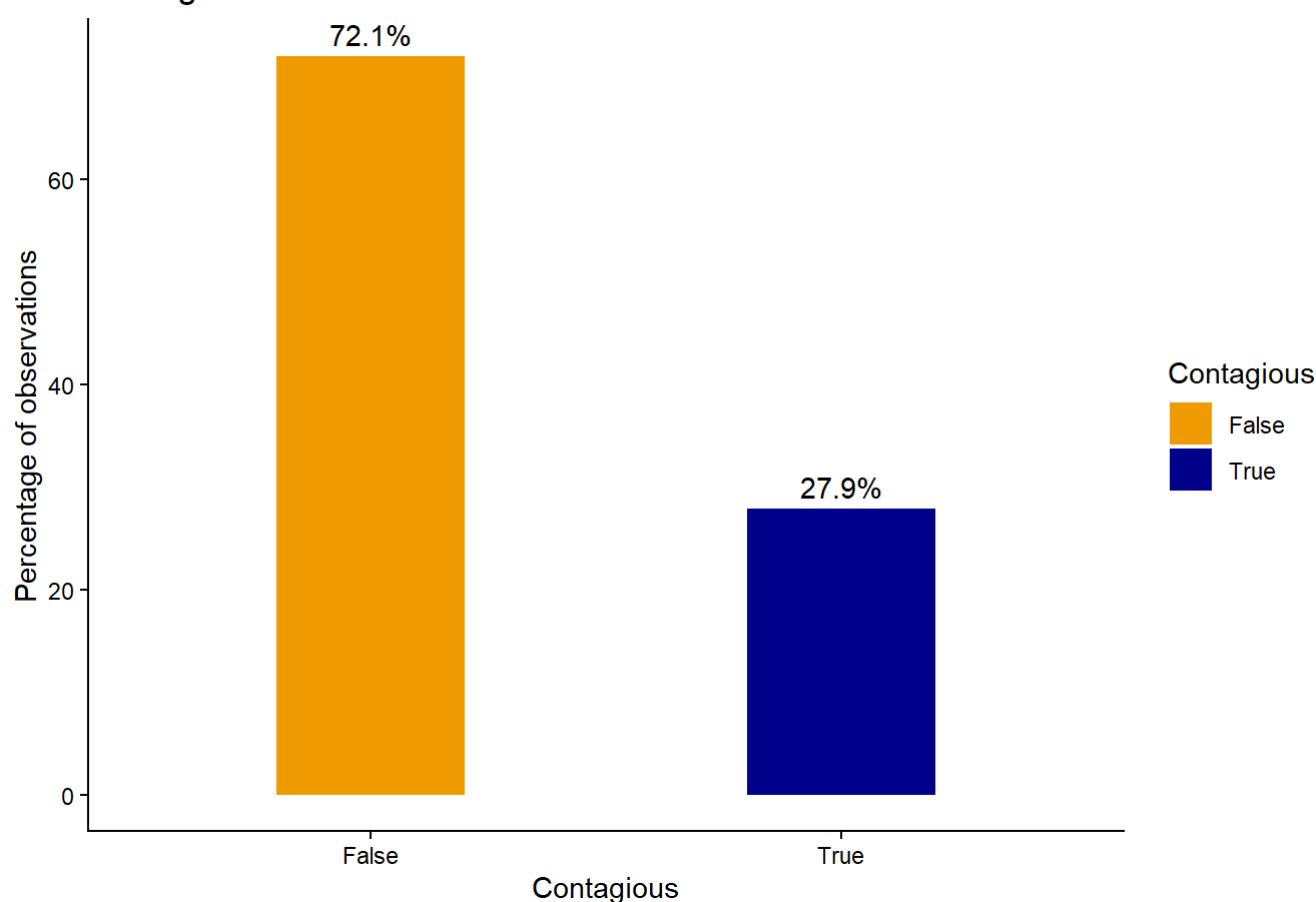


Contagious **Number** **Percentage_of_observation**

False	292	72.1
True	113	27.9

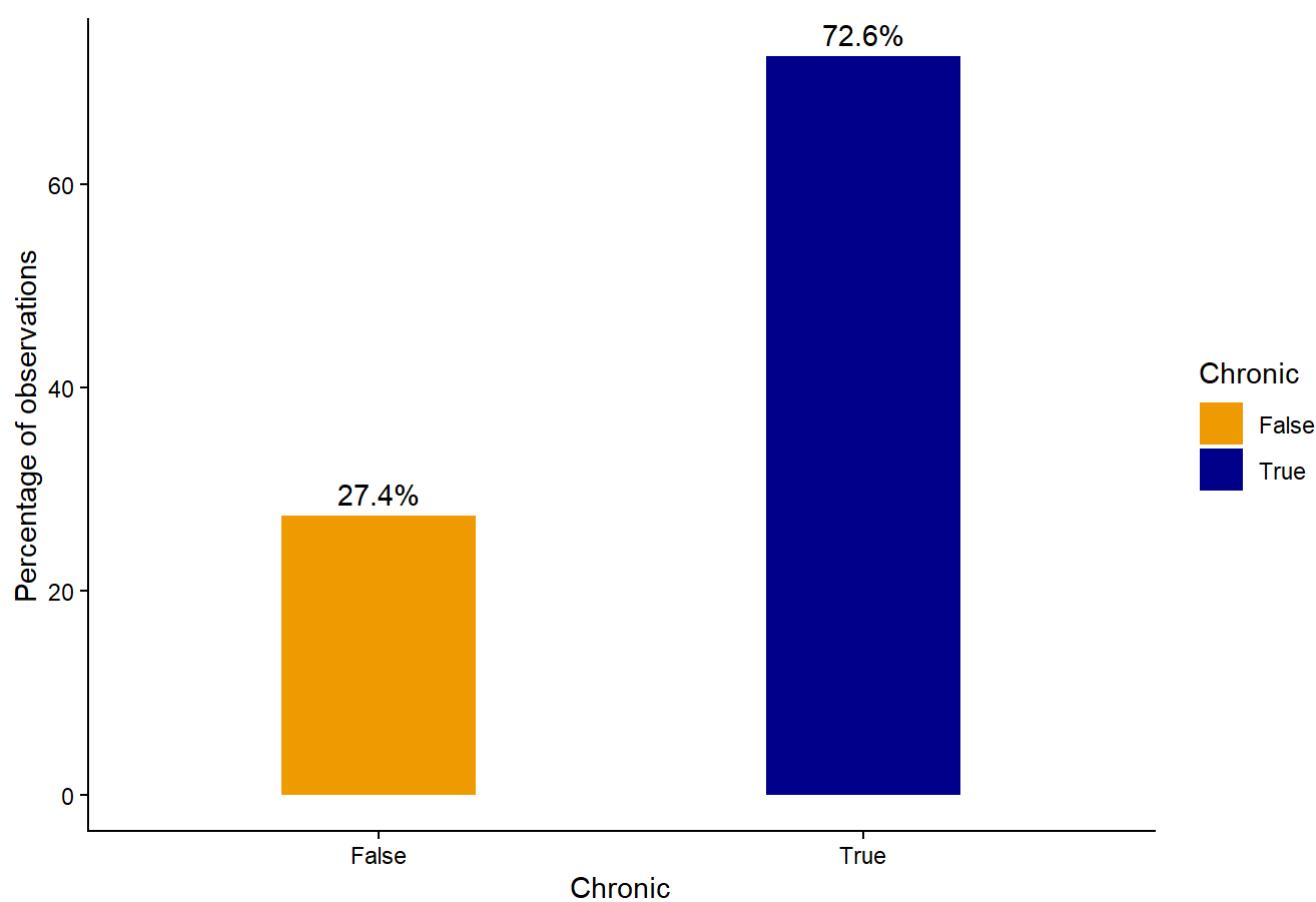
Contagious diseases listed as True and False



Chronic **Number** **Percentage_of_observation**

False	111	27.4
True	294	72.6

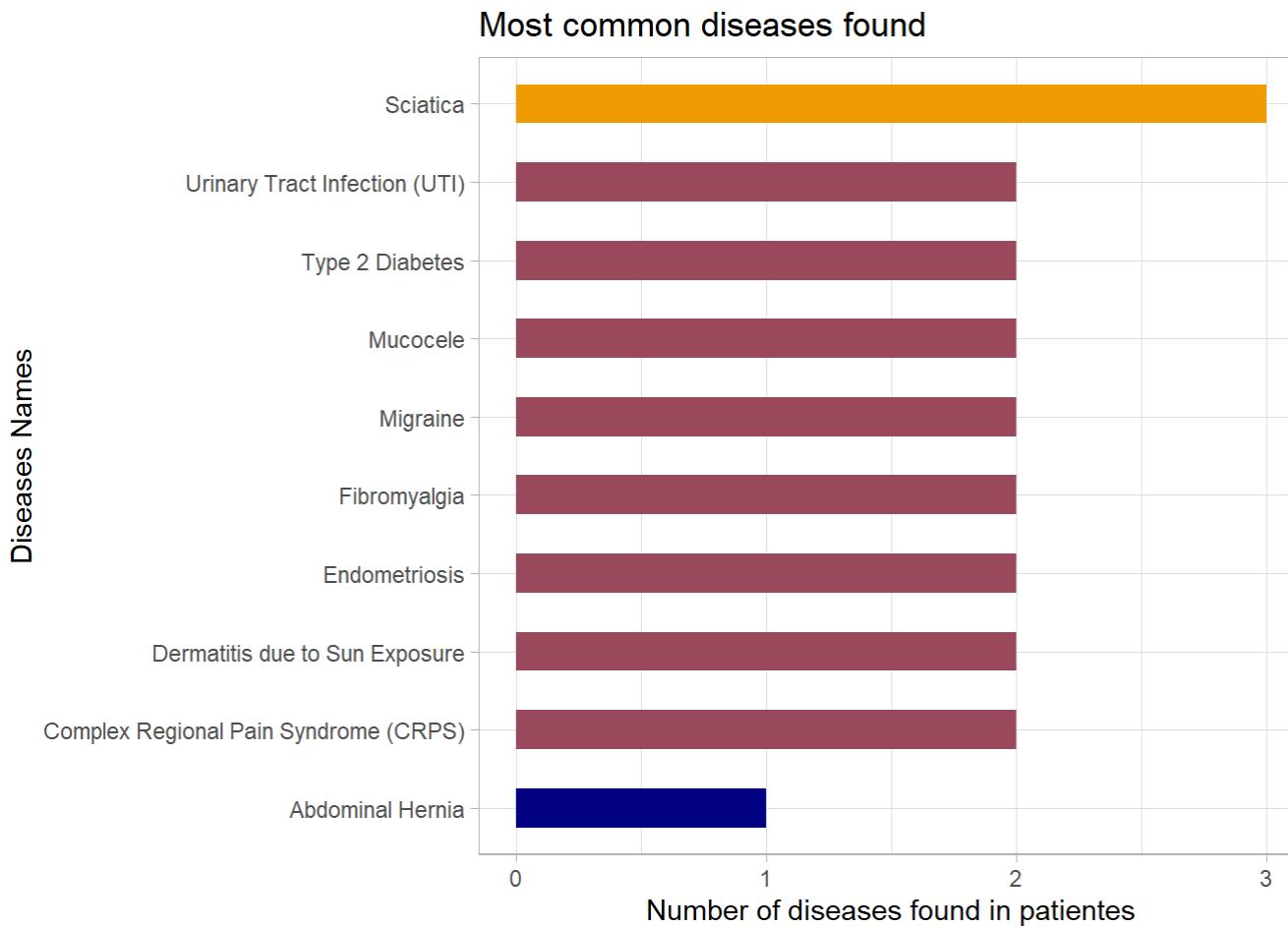
Chronic diseases listed as True and False



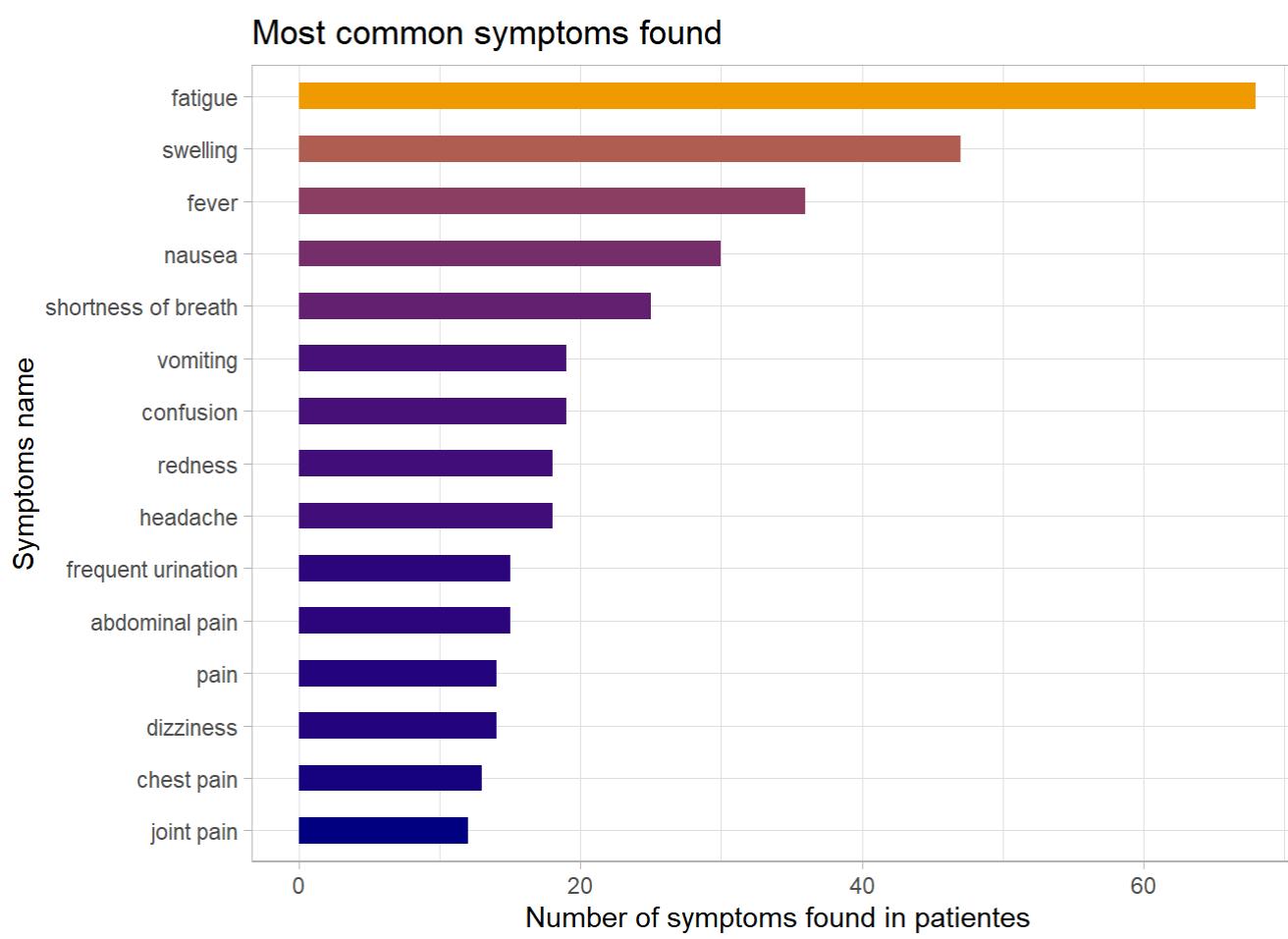
Name **number_count**

Sciatica	3
Complex Regional Pain Syndrome (CRPS)	2
Dermatitis due to Sun Exposure	2
Endometriosis	2
Fibromyalgia	2

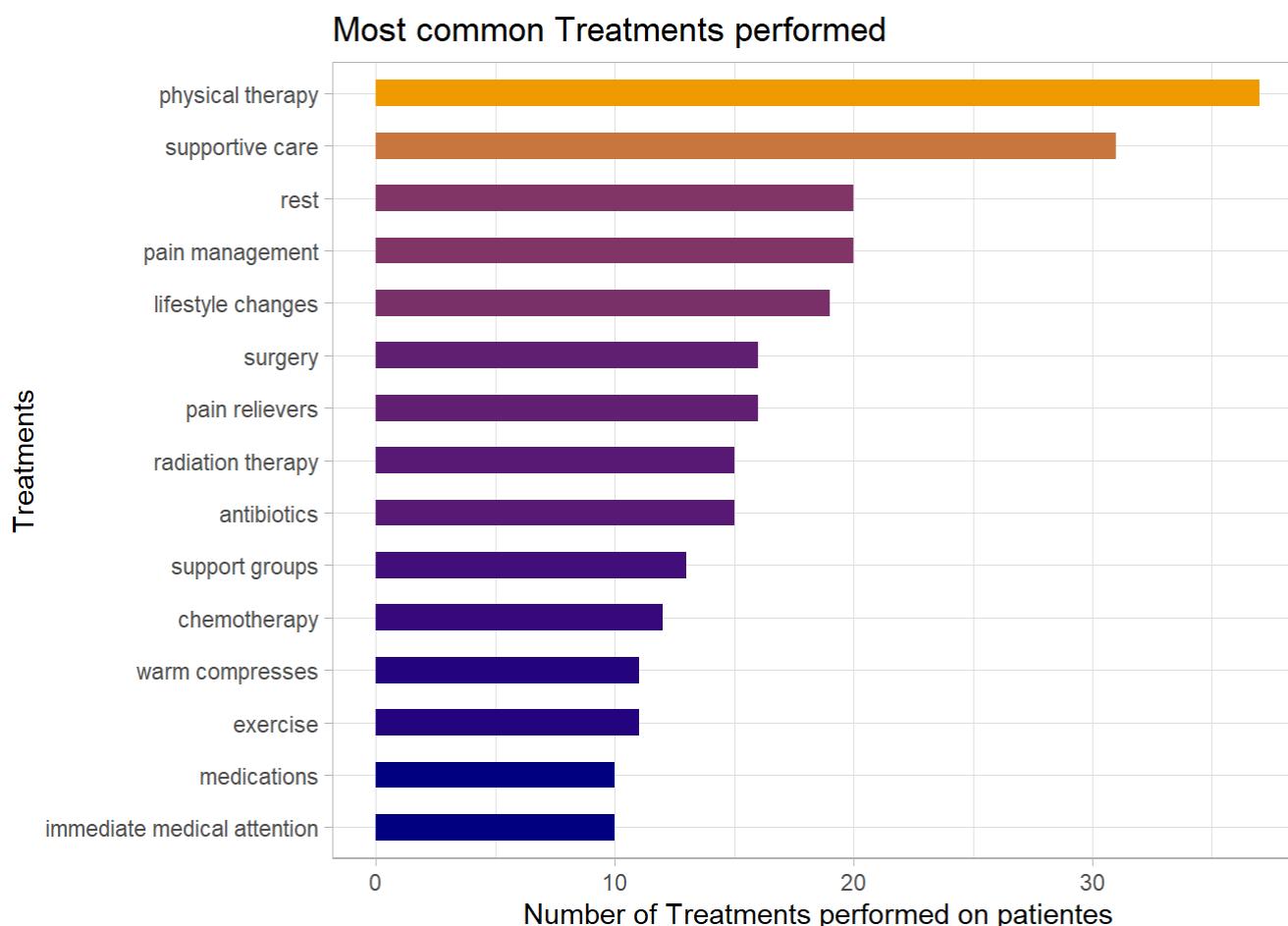
Name	number_count
Migraine	2
Mucocele	2
Type 2 Diabetes	2
Urinary Tract Infection (UTI)	2
Abdominal Hernia	1



Symptoms	number_count
fatigue	68
swelling	47
fever	36
nausea	30
shortness of breath	25
confusion	19
vomiting	19
headache	18
redness	18
abdominal pain	15
frequent urination	15
dizziness	14
pain	14
chest pain	13
joint pain	12



Treatments	number_count
physical therapy	37
supportive care	31
pain management	20
rest	20
lifestyle changes	19
pain relievers	16
surgery	16
antibiotics	15
radiation therapy	15
support groups	13
chemotherapy	12
exercise	11
warm compresses	11
immediate medical attention	10
medications	10



```
## Number of rows: 1700
```

```
## Any missing Symptoms: 0
```

```
## Any missing Contagious: 0
```

```
## # A tibble: 6 × 7
##   Name           Symptoms Treatments Disease_Code Contagious Chronic RowID
##   <chr>          <chr>    <chr>      <chr>        <dbl> <chr>   <int>
## 1 Gestational Cholest... itchy s... ""         D001        0 False    1
## 2 Gestational Cholest... particu... ""         D001        0 False    2
## 3 Injury to Internal ... abdomin... "Immediat... D002        0 False    3
## 4 Injury to Internal ... bleeding "Immediat... D002        0 False    4
## 5 Injury to Internal ... organ d... "Immediat... D002        0 False    5
## 6 Scabies           intense... "Prescrip... D003        0 True     6
```

```
## # A tibble: 60 × 7
##   Name           Treatments Disease_Code Contagious Chronic RowID word
##   <chr>          <chr>      <chr>        <dbl> <chr>   <int> <chr>
## 1 Gestational Cholestas... ""         D001        0 False    1 itchy
## 2 Gestational Cholestas... ""         D001        0 False    1 skin
## 3 Gestational Cholestas... ""         D001        0 False    2 hands
## 4 Gestational Cholestas... ""         D001        0 False    2 feet
## 5 Injury to Internal Or... "Immediat... D002        0 False    3 abdo...
## 6 Injury to Internal Or... "Immediat... D002        0 False    3 pain
## 7 Injury to Internal Or... "Immediat... D002        0 False    4 blee...
## 8 Injury to Internal Or... "Immediat... D002        0 False    5 organ
## 9 Injury to Internal Or... "Immediat... D002        0 False    5 dysf...
## 10 Scabies          "Prescrip... D003        0 True     6 inte...
```

```
## # i 50 more rows
```

```
## [1] 1696 907
```

```
## [1] 1696
```

```
## y
## 0   1
## 1072 624
```

```
## Training rows: 1357 Test rows: 339
```

```
## y_train
## 0   1
## 860 497
```

```

## y_test
## 0   1
## 212 127

## Best lambda: 0.1599508

## Accuracy: 0.714

## Confusion Matrix and Statistics
##
##             Reference
## Prediction  0   1
##           0 188  73
##           1  24  54
##
##                 Accuracy : 0.7139
##                 95% CI : (0.6626, 0.7614)
## No Information Rate : 0.6254
## P-Value [Acc > NIR] : 0.0003786
##
##                 Kappa : 0.3381
##
## McNemar's Test P-Value : 1.095e-06
##
##                 Sensitivity : 0.8868
##                 Specificity  : 0.4252
## Pos Pred Value : 0.7203
## Neg Pred Value : 0.6923
## Prevalence    : 0.6254
## Detection Rate : 0.5546
## Detection Prevalence : 0.7699
## Balanced Accuracy : 0.6560
##
## 'Positive' Class : 0
##

```

Confusion Matrix Heatmap

