MVA\_project.R

saiprasad

2019-10-12

#Importing the Hepatatis c Dataset   
HCV= read.csv("HCV-Egy-Data.csv")  
HCV

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
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## 814 15 1  
## 815 3 3  
## 816 12 2  
## 817 8 4  
## 818 8 1  
## 819 8 4  
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## 1378 16 2  
## 1379 16 4  
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## 1382 10 2  
## 1383 6 2  
## 1384 15 3  
## 1385 13 3

#Summary  
attach(HCV)  
summary(HCV)

## Age Gender BMI Fever   
## Min. :32.00 Min. :1.00 Min. :22.00 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:1.00 1st Qu.:25.00 1st Qu.:1.000   
## Median :46.00 Median :1.00 Median :29.00 Median :2.000   
## Mean :46.32 Mean :1.49 Mean :28.61 Mean :1.516   
## 3rd Qu.:54.00 3rd Qu.:2.00 3rd Qu.:32.00 3rd Qu.:2.000   
## Max. :61.00 Max. :2.00 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000 Median :2.000   
## Mean :1.503 Mean :1.496 Mean :1.503   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :2.000 Median :2.000   
## Mean :1.499 Mean :1.501 Mean :1.504   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## WBC RBC HGB Plat   
## Min. : 2991 Min. :3816422 Min. :10.00 Min. : 93013   
## 1st Qu.: 5219 1st Qu.:4121374 1st Qu.:11.00 1st Qu.:124479   
## Median : 7498 Median :4438465 Median :13.00 Median :157916   
## Mean : 7533 Mean :4422130 Mean :12.59 Mean :158348   
## 3rd Qu.: 9902 3rd Qu.:4721279 3rd Qu.:14.00 3rd Qu.:190314   
## Max. :12101 Max. :5018451 Max. :15.00 Max. :226464   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 60.00 1st Qu.: 62.00 1st Qu.: 61.00 1st Qu.: 60.00   
## Median : 83.00 Median : 83.00 Median : 82.00 Median : 84.00   
## Mean : 82.77 Mean : 83.92 Mean : 83.41 Mean : 83.51   
## 3rd Qu.:105.00 3rd Qu.:106.00 3rd Qu.:107.00 3rd Qu.:106.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 5.00 Min. : 5.00 Min. : 5.00   
## 1st Qu.: 61.00 1st Qu.: 61.00 1st Qu.: 61.00 1st Qu.:28.00   
## Median : 83.00 Median : 84.00 Median : 83.00 Median :34.00   
## Mean : 83.71 Mean : 83.12 Mean : 83.63 Mean :33.44   
## 3rd Qu.:107.00 3rd Qu.:106.00 3rd Qu.:106.00 3rd Qu.:40.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 11 Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 269253 1st Qu.: 270893 1st Qu.: 5 1st Qu.: 5   
## Median : 593103 Median : 597869 Median : 234359 Median :251376   
## Mean : 590951 Mean : 600896 Mean : 288754 Mean :287660   
## 3rd Qu.: 886791 3rd Qu.: 909093 3rd Qu.: 524819 3rd Qu.:517806   
## Max. :1201086 Max. :1201715 Max. :3731527 Max. :808450   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 5 1st Qu.: 6.000   
## Median :244049 Median :10.000   
## Mean :291378 Mean : 9.762   
## 3rd Qu.:527864 3rd Qu.:13.000   
## Max. :810333 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:2.000   
## Median :3.000   
## Mean :2.536   
## 3rd Qu.:4.000   
## Max. :4.000

#Dimensions of the data set  
NROW(HCV)

## [1] 1385

NCOL(HCV)

## [1] 29

#Displaying the column names of the dataset  
colnames(HCV)

## [1] "Age" "Gender"   
## [3] "BMI" "Fever"   
## [5] "Nausea.Vomting" "Headache"   
## [7] "Diarrhea" "Fatigue...generalized.bone.ache"  
## [9] "Jaundice" "Epigastric.pain"   
## [11] "WBC" "RBC"   
## [13] "HGB" "Plat"   
## [15] "AST.1" "ALT.1"   
## [17] "ALT4" "ALT.12"   
## [19] "ALT.24" "ALT.36"   
## [21] "ALT.48" "ALT.after.24.w"   
## [23] "RNA.Base" "RNA.4"   
## [25] "RNA.12" "RNA.EOT"   
## [27] "RNA.EF" "Baseline.histological.Grading"   
## [29] "Baselinehistological.staging"

#Another menthod for dimensions  
dim(HCV)

## [1] 1385 29

#Preprocessing data was done but did'nt find any discrepancies.  
na= is.na(HCV)  
na

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## [1,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [2,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [3,] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
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any(is.na(HCV))

## [1] FALSE

#Displaying the first six rows of the datasets  
head(HCV)

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1 56 1 35 2 1 1 1  
## 2 46 1 29 1 2 2 1  
## 3 57 1 33 2 2 2 2  
## 4 49 2 33 1 2 1 2  
## 5 59 1 32 1 1 2 1  
## 6 58 2 22 2 2 2 1  
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC RBC  
## 1 2 2 2 7425 4248807  
## 2 2 2 1 12101 4429425  
## 3 1 1 1 4178 4621191  
## 4 1 2 1 6490 4794631  
## 5 2 2 2 3661 4606375  
## 6 2 2 1 11785 3882456  
## HGB Plat AST.1 ALT.1 ALT4 ALT.12 ALT.24 ALT.36 ALT.48 ALT.after.24.w  
## 1 14 112132 99 84 52 109 81 5 5 5  
## 2 10 129367 91 123 95 75 113 57 123 44  
## 3 12 151522 113 49 95 107 116 5 5 5  
## 4 10 146457 43 64 109 80 88 48 77 33  
## 5 11 187684 99 104 67 48 120 94 90 30  
## 6 15 131228 66 104 121 96 65 73 114 29  
## RNA.Base RNA.4 RNA.12 RNA.EOT RNA.EF Baseline.histological.Grading  
## 1 655330 634536 288194 5 5 13  
## 2 40620 538635 637056 336804 31085 4  
## 3 571148 661346 5 735945 558829 4  
## 4 1041941 449939 585688 744463 582301 10  
## 5 660410 738756 3731527 338946 242861 11  
## 6 1157452 1086852 5 5 5 4  
## Baselinehistological.staging  
## 1 2  
## 2 2  
## 3 4  
## 4 3  
## 5 1  
## 6 4

tail(HCV)

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1380 53 1 31 2 2 1 2  
## 1381 44 1 29 1 2 2 2  
## 1382 55 1 34 1 2 2 1  
## 1383 42 1 26 2 2 1 1  
## 1384 52 1 29 2 1 1 2  
## 1385 55 2 26 1 2 2 2  
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC  
## 1380 2 2 1 4196  
## 1381 1 1 1 7044  
## 1382 1 1 1 6207  
## 1383 1 2 1 4913  
## 1384 2 2 1 7257  
## 1385 1 2 1 11832  
## RBC HGB Plat AST.1 ALT.1 ALT4 ALT.12 ALT.24 ALT.36 ALT.48  
## 1380 4076324 12 150065 89 113 52 39 54 86 78  
## 1381 4957174 15 202520 122 59 78 106 127 63 44  
## 1382 4636951 10 115776 128 102 65 99 108 97 64  
## 1383 4122038 14 128354 61 93 123 61 116 87 39  
## 1384 4241990 10 205908 70 97 104 74 47 48 81  
## 1385 4059176 14 136615 51 126 39 68 115 64 71  
## ALT.after.24.w RNA.Base RNA.4 RNA.12 RNA.EOT RNA.EF  
## 1380 36 886656 460080 591040 621014 20645  
## 1381 45 387795 55938 5 5 5  
## 1382 41 481378 152961 393339 73574 236273  
## 1383 24 612664 572756 806109 343719 160457  
## 1384 43 139872 76161 515730 2460 696074  
## 1385 34 1190577 628730 5 5 5  
## Baseline.histological.Grading Baselinehistological.staging  
## 1380 13 4  
## 1381 15 4  
## 1382 10 2  
## 1383 6 2  
## 1384 15 3  
## 1385 13 3

#Differentiating data set based on gender  
Gen\_male = HCV[HCV$Gender== '1',]  
Gen\_female = HCV[HCV$Gender=='2',]  
  
#Exploring symptoms  
#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Male Data Exploration\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
#Fever  
Fev\_male = Gen\_male[Gen\_male$Fever == '2',]  
Fev\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1 56 1 35 2 1 1 1  
## 3 57 1 33 2 2 2 2  
## 10 45 1 30 2 1 2 2  
## 12 36 1 22 2 2 1 1  
## 16 58 1 34 2 1 1 1  
## 22 33 1 25 2 1 2 2  
## 27 51 1 34 2 1 2 2  
## 35 37 1 27 2 2 1 2  
## 44 36 1 23 2 2 1 2  
## 46 50 1 33 2 2 1 1  
## 49 54 1 33 2 1 1 2  
## 53 41 1 33 2 1 1 1  
## 54 59 1 32 2 1 1 1  
## 55 47 1 27 2 2 1 1  
## 70 37 1 27 2 2 1 1  
## 79 34 1 31 2 2 1 2  
## 82 33 1 34 2 2 1 2  
## 83 56 1 30 2 1 1 1  
## 89 37 1 33 2 2 2 1  
## 94 43 1 26 2 2 2 2  
## 95 58 1 26 2 1 1 2  
## 98 44 1 31 2 2 1 1  
## 102 56 1 27 2 1 2 2  
## 104 33 1 28 2 2 1 2  
## 106 48 1 22 2 2 2 1  
## 108 60 1 34 2 1 2 1  
## 125 52 1 26 2 2 1 1  
## 129 43 1 35 2 1 2 2  
## 132 53 1 28 2 2 1 2  
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## 1377 11 2  
## 1380 13 4  
## 1383 6 2  
## 1384 15 3

summary(Fev\_male)

## Age Gender BMI Fever Nausea.Vomting   
## Min. :32.00 Min. :1 Min. :22.00 Min. :2 Min. :1.000   
## 1st Qu.:38.00 1st Qu.:1 1st Qu.:25.00 1st Qu.:2 1st Qu.:1.000   
## Median :46.00 Median :1 Median :29.00 Median :2 Median :2.000   
## Mean :46.16 Mean :1 Mean :28.48 Mean :2 Mean :1.513   
## 3rd Qu.:54.00 3rd Qu.:1 3rd Qu.:32.00 3rd Qu.:2 3rd Qu.:2.000   
## Max. :61.00 Max. :1 Max. :35.00 Max. :2 Max. :2.000   
## Headache Diarrhea Fatigue...generalized.bone.ache  
## Min. :1.00 Min. :1.00 Min. :1.000   
## 1st Qu.:1.00 1st Qu.:1.00 1st Qu.:1.000   
## Median :2.00 Median :1.00 Median :1.000   
## Mean :1.51 Mean :1.49 Mean :1.451   
## 3rd Qu.:2.00 3rd Qu.:2.00 3rd Qu.:2.000   
## Max. :2.00 Max. :2.00 Max. :2.000   
## Jaundice Epigastric.pain WBC RBC   
## Min. :1.000 Min. :1.000 Min. : 2995 Min. :3818313   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: 5102 1st Qu.:4094487   
## Median :1.000 Median :1.000 Median : 7254 Median :4400525   
## Mean :1.499 Mean :1.499 Mean : 7296 Mean :4394465   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.: 9446 3rd Qu.:4677001   
## Max. :2.000 Max. :2.000 Max. :11983 Max. :5018451   
## HGB Plat AST.1 ALT.1   
## Min. :10.00 Min. : 93755 Min. : 39.00 Min. : 39.00   
## 1st Qu.:11.00 1st Qu.:124753 1st Qu.: 60.00 1st Qu.: 61.00   
## Median :12.00 Median :155330 Median : 82.00 Median : 84.00   
## Mean :12.49 Mean :157593 Mean : 82.02 Mean : 83.14   
## 3rd Qu.:14.00 3rd Qu.:188821 3rd Qu.:105.00 3rd Qu.:105.00   
## Max. :15.00 Max. :225389 Max. :128.00 Max. :128.00   
## ALT4 ALT.12 ALT.24 ALT.36   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 5.00   
## 1st Qu.: 63.00 1st Qu.: 60.00 1st Qu.: 61.00 1st Qu.: 62.00   
## Median : 84.00 Median : 81.00 Median : 81.00 Median : 85.00   
## Mean : 84.43 Mean : 83.76 Mean : 82.14 Mean : 83.54   
## 3rd Qu.:107.00 3rd Qu.:110.00 3rd Qu.:103.00 3rd Qu.:106.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.48 ALT.after.24.w RNA.Base RNA.4   
## Min. : 5.00 Min. : 5.0 Min. : 11 Min. : 5   
## 1st Qu.: 62.00 1st Qu.:27.0 1st Qu.: 269253 1st Qu.: 270234   
## Median : 85.00 Median :33.0 Median : 591420 Median : 610095   
## Mean : 84.34 Mean :33.2 Mean : 586198 Mean : 614653   
## 3rd Qu.:107.00 3rd Qu.:39.0 3rd Qu.: 868864 3rd Qu.: 924225   
## Max. :128.00 Max. :45.0 Max. :1199901 Max. :1201715   
## RNA.12 RNA.EOT RNA.EF   
## Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 5 1st Qu.: 5 1st Qu.: 5   
## Median :276746 Median :261230 Median :263820   
## Mean :305247 Mean :290944 Mean :300659   
## 3rd Qu.:536220 3rd Qu.:519671 3rd Qu.:546423   
## Max. :810028 Max. :807218 Max. :809017   
## Baseline.histological.Grading Baselinehistological.staging  
## Min. : 3.000 Min. :1.000   
## 1st Qu.: 6.000 1st Qu.:1.000   
## Median : 9.000 Median :2.000   
## Mean : 9.527 Mean :2.465   
## 3rd Qu.:13.000 3rd Qu.:3.000   
## Max. :16.000 Max. :4.000

#Vomiting and Nausea  
Nau\_male = Gen\_male[Gen\_male$Nausea.Vomting =='2',]  
Nau\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 2 46 1 29 1 2 2 1  
## 3 57 1 33 2 2 2 2  
## 12 36 1 22 2 2 1 1  
## 14 34 1 22 1 2 1 1  
## 17 61 1 35 1 2 2 2  
## 19 56 1 27 1 2 2 2  
## 23 41 1 23 1 2 2 2  
## 34 61 1 33 1 2 2 2  
## 35 37 1 27 2 2 1 2  
## 36 41 1 29 1 2 1 1  
## 40 32 1 31 1 2 1 1  
## 44 36 1 23 2 2 1 2  
## 46 50 1 33 2 2 1 1  
## 55 47 1 27 2 2 1 1  
## 65 45 1 31 1 2 2 2  
## 66 58 1 28 1 2 2 2  
## 70 37 1 27 2 2 1 1  
## 71 39 1 35 1 2 2 1  
## 76 59 1 25 1 2 1 1  
## 78 32 1 26 1 2 2 2  
## 79 34 1 31 2 2 1 2  
## 80 38 1 34 1 2 1 2  
## 81 61 1 26 1 2 2 1  
## 82 33 1 34 2 2 1 2  
## 84 56 1 26 1 2 2 2  
## 86 39 1 31 1 2 1 1  
## 89 37 1 33 2 2 2 1  
## 94 43 1 26 2 2 2 2  
## 97 40 1 31 1 2 2 1  
## 98 44 1 31 2 2 1 1  
## 104 33 1 28 2 2 1 2  
## 106 48 1 22 2 2 2 1  
## 111 32 1 22 1 2 2 2  
## 112 53 1 31 1 2 1 2  
## 120 57 1 28 1 2 2 1  
## 122 39 1 30 1 2 2 1  
## 124 44 1 30 1 2 2 2  
## 125 52 1 26 2 2 1 1  
## 127 49 1 25 1 2 1 2  
## 132 53 1 28 2 2 1 2  
## 134 52 1 33 2 2 2 1  
## 137 54 1 31 2 2 1 2  
## 140 55 1 30 2 2 2 1  
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## 144 43 1 24 1 2 2 1  
## 147 47 1 32 1 2 2 2  
## 148 61 1 27 2 2 2 2  
## 155 61 1 24 1 2 1 2  
## 157 33 1 30 2 2 1 2  
## 162 32 1 32 2 2 2 1  
## 167 34 1 27 2 2 1 1  
## 169 50 1 34 1 2 2 2  
## 170 55 1 29 1 2 1 1  
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## 174 43 1 32 1 2 1 1  
## 177 48 1 32 2 2 1 1  
## 179 40 1 32 2 2 1 2  
## 189 49 1 32 1 2 2 1  
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## 204 49 1 25 1 2 1 1  
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## 219 33 1 30 2 2 2 2  
## 224 58 1 35 2 2 2 2  
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## 228 35 1 26 2 2 1 2  
## 230 43 1 30 2 2 1 2  
## 238 51 1 30 1 2 1 1  
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## 285 59 1 28 1 2 2 1  
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## 288 48 1 30 1 2 2 1  
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## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC  
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## 630 16 1  
## 632 13 2  
## 635 4 1  
## 637 11 1  
## 644 11 4  
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## 651 15 3  
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## 670 12 4  
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## 688 3 4  
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## 750 11 4  
## 759 4 2  
## 760 6 2  
## 762 5 2  
## 764 8 1  
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## 772 12 3  
## 774 6 4  
## 777 16 3  
## 782 7 1  
## 783 15 4  
## 788 9 2  
## 791 5 3  
## 793 11 1  
## 795 5 3  
## 797 3 2  
## 798 14 2  
## 799 13 3  
## 803 3 3  
## 804 6 3  
## 805 12 2  
## 806 5 2  
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## 822 3 2  
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## 828 10 1  
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## 856 9 2  
## 857 13 2  
## 859 13 2  
## 863 7 4  
## 864 9 2  
## 875 8 2  
## 876 5 1  
## 879 13 3  
## 881 9 2  
## 884 10 2  
## 885 4 4  
## 886 15 4  
## 889 13 1  
## 898 13 2  
## 899 3 1  
## 903 16 4  
## 905 14 3  
## 907 7 4  
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## 919 6 4  
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## 924 3 3  
## 925 8 1  
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## 936 7 4  
## 937 3 1  
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## 943 10 1  
## 946 3 1  
## 949 5 1  
## 950 11 3  
## 963 15 4  
## 968 16 1  
## 970 15 3  
## 979 9 2  
## 989 9 3  
## 990 10 3  
## 991 7 2  
## 993 6 4  
## 994 5 2  
## 1000 8 2  
## 1003 6 3  
## 1005 10 3  
## 1011 13 1  
## 1012 11 2  
## 1014 4 1  
## 1021 4 3  
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## 1027 13 3  
## 1037 6 1  
## 1039 10 2  
## 1040 14 1  
## 1048 13 2  
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## 1054 3 2  
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## 1070 3 2  
## 1075 13 3  
## 1076 7 2  
## 1079 5 4  
## 1081 9 3  
## 1084 12 2  
## 1090 16 2  
## 1092 8 1  
## 1097 7 2  
## 1099 5 4  
## 1101 8 2  
## 1108 10 1  
## 1114 11 2  
## 1116 15 1  
## 1122 6 4  
## 1123 12 4  
## 1124 13 1  
## 1125 11 3  
## 1129 12 3  
## 1133 13 3  
## 1134 3 3  
## 1139 10 1  
## 1141 8 1  
## 1146 14 3  
## 1149 4 4  
## 1151 11 1  
## 1157 10 2  
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## 1164 14 1  
## 1166 16 1  
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## 1175 9 2  
## 1179 8 4  
## 1192 5 3  
## 1193 5 2  
## 1198 7 2  
## 1201 5 4  
## 1202 8 2  
## 1205 11 4  
## 1215 7 2  
## 1218 11 4  
## 1220 14 2  
## 1226 14 2  
## 1234 16 4  
## 1235 9 2  
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## 1244 5 3  
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## 1273 8 1  
## 1276 11 4  
## 1278 13 2  
## 1285 6 1  
## 1286 6 4  
## 1288 7 4  
## 1289 13 4  
## 1290 8 1  
## 1292 13 1  
## 1295 9 4  
## 1296 3 3  
## 1298 3 2  
## 1304 13 1  
## 1305 9 3  
## 1306 5 4  
## 1312 4 3  
## 1315 8 4  
## 1317 12 3  
## 1321 5 4  
## 1322 4 4  
## 1331 5 3  
## 1332 12 4  
## 1334 6 1  
## 1335 16 3  
## 1338 6 1  
## 1343 13 2  
## 1346 4 4  
## 1350 15 4  
## 1353 14 1  
## 1354 4 3  
## 1355 14 2  
## 1357 11 4  
## 1359 11 3  
## 1362 3 4  
## 1364 8 2  
## 1368 15 2  
## 1370 11 1  
## 1372 6 2  
## 1376 16 2  
## 1380 13 4  
## 1381 15 4  
## 1382 10 2  
## 1383 6 2

summary(Nau\_male)

## Age Gender BMI Fever   
## Min. :32.00 Min. :1 Min. :22.00 Min. :1.000   
## 1st Qu.:38.00 1st Qu.:1 1st Qu.:25.00 1st Qu.:1.000   
## Median :45.50 Median :1 Median :29.00 Median :1.000   
## Mean :45.85 Mean :1 Mean :28.58 Mean :1.497   
## 3rd Qu.:53.00 3rd Qu.:1 3rd Qu.:32.00 3rd Qu.:2.000   
## Max. :61.00 Max. :1 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :2 Min. :1.000 Min. :1.000   
## 1st Qu.:2 1st Qu.:1.000 1st Qu.:1.000   
## Median :2 Median :2.000 Median :2.000   
## Mean :2 Mean :1.514 Mean :1.503   
## 3rd Qu.:2 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2 Max. :2.000 Max. :2.000   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :1.000 Median :1.000   
## Mean :1.484 Mean :1.492 Mean :1.481   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## WBC RBC HGB Plat   
## Min. : 3001 Min. :3818404 Min. :10.00 Min. : 93301   
## 1st Qu.: 5092 1st Qu.:4137318 1st Qu.:11.00 1st Qu.:127744   
## Median : 7292 Median :4467140 Median :13.00 Median :158552   
## Mean : 7426 Mean :4432608 Mean :12.65 Mean :158962   
## 3rd Qu.: 9686 3rd Qu.:4712096 3rd Qu.:14.00 3rd Qu.:190632   
## Max. :12101 Max. :5006063 Max. :15.00 Max. :225389   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 61.00 1st Qu.: 61.00 1st Qu.: 62.00 1st Qu.: 57.00   
## Median : 84.00 Median : 81.50 Median : 84.50 Median : 81.50   
## Mean : 83.05 Mean : 83.16 Mean : 84.21 Mean : 81.61   
## 3rd Qu.:105.00 3rd Qu.:105.00 3rd Qu.:106.00 3rd Qu.:106.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 5.00 Min. : 5.00 Min. : 5.00   
## 1st Qu.: 61.00 1st Qu.: 63.00 1st Qu.: 61.00 1st Qu.:28.00   
## Median : 86.00 Median : 86.00 Median : 82.00 Median :34.00   
## Mean : 85.08 Mean : 84.32 Mean : 83.81 Mean :33.63   
## 3rd Qu.:108.00 3rd Qu.:107.00 3rd Qu.:107.00 3rd Qu.:40.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 385 Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 298314 1st Qu.: 250625 1st Qu.: 5 1st Qu.: 5   
## Median : 589808 Median : 565147 Median :236386 Median :243222   
## Mean : 604666 Mean : 584571 Mean :286453 Mean :286496   
## 3rd Qu.: 901582 3rd Qu.: 890983 3rd Qu.:535221 3rd Qu.:514570   
## Max. :1199901 Max. :1201715 Max. :806651 Max. :808142   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 5 1st Qu.: 6.000   
## Median :252910 Median : 9.000   
## Mean :300259 Mean : 9.372   
## 3rd Qu.:560256 3rd Qu.:13.000   
## Max. :807660 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:2.000   
## Median :3.000   
## Mean :2.546   
## 3rd Qu.:4.000   
## Max. :4.000

#Fatigue  
Fat\_male = Gen\_male[Gen\_male$Fatigue...generalized.bone.ache =='2',]  
Fat\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1 56 1 35 2 1 1 1  
## 2 46 1 29 1 2 2 1  
## 5 59 1 32 1 1 2 1  
## 9 44 1 23 1 1 2 2  
## 14 34 1 22 1 2 1 1  
## 16 58 1 34 2 1 1 1  
## 19 56 1 27 1 2 2 2  
## 22 33 1 25 2 1 2 2  
## 23 41 1 23 1 2 2 2  
## 35 37 1 27 2 2 1 2  
## 36 41 1 29 1 2 1 1  
## 38 54 1 29 1 1 1 2  
## 44 36 1 23 2 2 1 2  
## 46 50 1 33 2 2 1 1  
## 47 44 1 31 1 1 1 1  
## 48 43 1 33 1 1 2 2  
## 53 41 1 33 2 1 1 1  
## 70 37 1 27 2 2 1 1  
## 74 61 1 25 1 1 2 2  
## 78 32 1 26 1 2 2 2  
## 81 61 1 26 1 2 2 1  
## 83 56 1 30 2 1 1 1  
## 86 39 1 31 1 2 1 1  
## 89 37 1 33 2 2 2 1  
## 90 57 1 23 1 1 1 2  
## 98 44 1 31 2 2 1 1  
## 106 48 1 22 2 2 2 1  
## 108 60 1 34 2 1 2 1  
## 109 37 1 23 1 1 2 1  
## 112 53 1 31 1 2 1 2  
## 118 53 1 23 1 1 1 1  
## 120 57 1 28 1 2 2 1  
## 124 44 1 30 1 2 2 2  
## 125 52 1 26 2 2 1 1  
## 127 49 1 25 1 2 1 2  
## 129 43 1 35 2 1 2 2  
## 132 53 1 28 2 2 1 2  
## 134 52 1 33 2 2 2 1  
## 140 55 1 30 2 2 2 1  
## 146 55 1 28 2 1 1 1  
## 148 61 1 27 2 2 2 2  
## 150 39 1 25 1 1 2 2  
## 154 58 1 33 1 1 2 1  
## 156 52 1 24 2 1 2 2  
## 159 45 1 22 2 1 2 2  
## 162 32 1 32 2 2 2 1  
## 166 42 1 22 2 1 1 1  
## 170 55 1 29 1 2 1 1  
## 171 61 1 34 2 2 1 2  
## 174 43 1 32 1 2 1 1  
## 175 47 1 23 1 1 2 1  
## 177 48 1 32 2 2 1 1  
## 179 40 1 32 2 2 1 2  
## 180 59 1 25 2 1 2 1  
## 181 51 1 35 2 1 1 1  
## 190 34 1 32 1 2 2 2  
## 197 37 1 34 2 1 1 2  
## 198 41 1 33 2 2 2 1  
## 204 49 1 25 1 2 1 1  
## 206 59 1 28 1 1 2 2  
## 209 56 1 34 1 2 2 1  
## 211 58 1 29 2 2 1 1  
## 219 33 1 30 2 2 2 2  
## 223 48 1 30 1 1 1 1  
## 224 58 1 35 2 2 2 2  
## 227 38 1 29 2 2 1 2  
## 230 43 1 30 2 2 1 2  
## 232 56 1 26 1 1 2 1  
## 236 49 1 22 2 1 2 2  
## 241 39 1 32 1 1 1 1  
## 246 57 1 24 2 2 1 2  
## 247 45 1 34 2 1 1 1  
## 259 54 1 26 2 1 2 2  
## 261 32 1 29 2 2 1 2  
## 262 55 1 27 1 1 1 1  
## 273 46 1 28 2 1 1 2  
## 275 44 1 32 1 1 1 2  
## 277 47 1 30 1 1 2 1  
## 285 59 1 28 1 2 2 1  
## 287 40 1 31 2 2 1 2  
## 289 44 1 31 1 2 2 2  
## 291 32 1 31 2 2 2 1  
## 294 33 1 28 2 2 1 2  
## 295 47 1 29 2 2 2 1  
## 299 39 1 27 1 2 2 1  
## 301 52 1 26 1 2 2 1  
## 302 38 1 24 2 1 1 1  
## 303 60 1 22 1 2 1 1  
## 316 37 1 35 2 1 1 1  
## 322 58 1 35 1 1 2 2  
## 324 39 1 23 1 1 2 2  
## 325 58 1 26 2 1 2 2  
## 327 53 1 27 2 1 2 1  
## 334 36 1 31 2 2 1 2  
## 336 38 1 32 2 1 1 2  
## 340 36 1 35 1 1 2 1  
## 344 35 1 25 2 1 1 2  
## 347 37 1 34 1 2 1 2  
## 351 59 1 23 2 2 2 2  
## 356 39 1 35 2 1 2 2  
## 362 54 1 30 1 2 1 2  
## 366 33 1 35 2 1 1 1  
## 367 57 1 26 1 1 1 1  
## 370 52 1 34 1 2 2 2  
## 373 54 1 25 2 1 2 2  
## 378 39 1 31 2 1 1 1  
## 382 48 1 24 2 2 1 1  
## 386 57 1 29 1 1 2 2  
## 396 44 1 28 2 1 1 1  
## 401 47 1 34 1 1 1 1  
## 408 54 1 25 2 1 1 2  
## 413 39 1 34 2 1 2 2  
## 421 38 1 23 1 1 2 1  
## 425 52 1 24 2 1 2 1  
## 427 40 1 33 2 2 2 1  
## 428 42 1 31 1 1 2 2  
## 433 54 1 35 1 1 2 1  
## 439 59 1 23 2 1 2 1  
## 441 42 1 28 2 1 2 2  
## 443 47 1 27 1 1 1 1  
## 446 40 1 32 1 2 1 2  
## 447 48 1 25 1 2 2 1  
## 448 49 1 24 1 2 2 1  
## 453 38 1 28 2 1 1 2  
## 455 53 1 34 1 2 1 2  
## 456 44 1 22 2 2 1 2  
## 460 35 1 31 1 1 1 2  
## 469 33 1 35 1 2 1 2  
## 472 45 1 30 2 1 2 2  
## 473 38 1 29 1 1 2 2  
## 474 57 1 28 2 1 2 1  
## 481 61 1 25 2 2 2 1  
## 488 58 1 24 2 1 1 2  
## 493 56 1 28 2 1 1 2  
## 496 50 1 31 1 1 1 2  
## 500 41 1 34 1 2 1 2  
## 501 37 1 23 1 2 2 1  
## 503 38 1 27 1 2 2 1  
## 505 49 1 34 1 2 1 1  
## 520 34 1 23 1 2 2 1  
## 522 53 1 30 2 2 2 2  
## 547 36 1 33 2 1 2 2  
## 552 46 1 22 1 1 1 1  
## 554 33 1 26 2 2 1 2  
## 559 34 1 25 1 2 1 1  
## 561 38 1 24 2 2 2 1  
## 572 54 1 26 2 1 2 2  
## 575 37 1 25 1 1 2 1  
## 576 38 1 28 1 1 2 1  
## 577 39 1 32 1 2 1 1  
## 581 32 1 32 1 2 1 2  
## 586 53 1 26 2 1 1 2  
## 588 54 1 33 1 1 2 2  
## 591 48 1 24 1 2 1 2  
## 594 41 1 35 2 1 2 1  
## 597 57 1 34 1 2 1 1  
## 600 50 1 29 1 2 1 2  
## 601 41 1 34 2 2 2 2  
## 618 32 1 25 1 1 1 1  
## 624 45 1 34 1 2 1 2  
## 626 42 1 29 1 1 1 2  
## 630 32 1 31 1 2 1 2  
## 632 59 1 34 2 2 2 2  
## 637 33 1 25 2 2 2 1  
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## 641 44 1 31 2 1 2 1  
## 644 58 1 28 2 2 1 2  
## 648 37 1 33 1 2 2 1  
## 651 42 1 25 1 2 2 1  
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## 667 39 1 33 2 2 1 1  
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## 717 53 1 35 1 2 2 1  
## 719 32 1 29 1 2 2 1  
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## 721 53 1 27 1 2 2 2  
## 726 54 1 26 1 1 1 1  
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## 728 58 1 31 1 1 2 1  
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## 742 41 1 30 1 2 2 1  
## 746 39 1 23 2 1 1 2  
## 758 47 1 30 2 1 2 2  
## 759 56 1 25 2 2 2 2  
## 760 57 1 22 2 2 2 1  
## 761 41 1 35 2 1 2 1  
## 765 36 1 34 2 1 1 2  
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## 797 38 1 28 1 2 1 1  
## 799 40 1 27 2 2 1 2  
## 809 35 1 24 1 1 1 2  
## 821 53 1 29 2 1 1 1  
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## 859 38 1 33 1 2 2 1  
## 867 40 1 25 1 1 1 1  
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## 884 56 1 30 1 2 1 1  
## 885 58 1 25 1 2 1 2  
## 888 43 1 33 1 1 2 2  
## 889 34 1 26 1 2 1 2  
## 891 34 1 33 1 1 2 2  
## 894 34 1 35 1 1 1 1  
## 905 36 1 24 1 2 1 1  
## 915 60 1 35 2 1 2 2  
## 920 60 1 25 1 2 1 1  
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## 946 46 1 32 2 2 1 1  
## 947 60 1 33 2 1 1 1  
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## 962 35 1 25 2 1 2 1  
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## 967 47 1 24 1 1 1 2  
## 984 32 1 25 1 1 1 2  
## 988 50 1 33 2 1 1 1  
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## 991 35 1 35 1 2 2 1  
## 992 60 1 29 1 1 2 2  
## 993 35 1 35 2 2 1 1  
## 994 49 1 33 2 2 1 1  
## 995 42 1 23 2 1 2 1  
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## 1000 50 1 29 2 2 2 2  
## 1010 55 1 35 2 1 2 1  
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## 1127 51 1 35 2 1 2 1  
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## 1133 56 1 25 1 2 1 1  
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## 1175 36 1 31 2 2 2 1  
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## 1181 60 1 33 2 1 1 1  
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## 1252 42 1 27 1 1 1 2  
## 1257 45 1 27 1 1 1 1  
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## 1288 34 1 28 1 2 2 2  
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## 1307 44 1 26 1 1 2 2  
## 1309 36 1 33 1 1 2 1  
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## 1321 47 1 28 2 2 1 2  
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## 1338 39 1 31 2 2 2 1  
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## 1349 35 1 27 2 1 2 1  
## 1351 58 1 25 2 1 1 2  
## 1353 41 1 22 2 2 2 1  
## 1356 36 1 29 2 1 1 1  
## 1357 42 1 34 1 2 1 1  
## 1364 47 1 23 2 2 1 1  
## 1367 50 1 30 1 1 2 1  
## 1368 58 1 33 1 2 1 1  
## 1372 49 1 34 1 2 1 2  
## 1376 59 1 28 1 2 1 1  
## 1379 33 1 24 1 1 1 2  
## 1380 53 1 31 2 2 1 2  
## 1384 52 1 29 2 1 1 2  
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC  
## 1 2 2 2 7425  
## 2 2 2 1 12101  
## 5 2 2 2 3661  
## 9 2 1 2 10480  
## 14 2 2 1 5638  
## 16 2 1 1 8035  
## 19 2 2 2 6599  
## 22 2 2 2 9952  
## 23 2 1 2 7961  
## 35 2 2 2 6441  
## 36 2 1 2 10304  
## 38 2 1 1 10704  
## 44 2 2 2 4387  
## 46 2 1 2 10140  
## 47 2 1 2 3470  
## 48 2 1 2 5420  
## 53 2 2 2 5041  
## 70 2 2 2 5500  
## 74 2 2 2 4316  
## 78 2 1 2 8870  
## 81 2 2 1 5510  
## 83 2 1 2 9255  
## 86 2 1 2 6227  
## 89 2 1 2 10339  
## 90 2 1 1 6038  
## 98 2 1 2 6292  
## 106 2 1 1 3782  
## 108 2 1 1 8189  
## 109 2 1 1 9179  
## 112 2 1 2 7947  
## 118 2 1 2 8258  
## 120 2 2 1 6676  
## 124 2 2 1 7864  
## 125 2 2 1 9743  
## 127 2 2 2 7620  
## 129 2 1 2 9577  
## 132 2 2 2 6513  
## 134 2 1 1 8538  
## 140 2 1 1 9369  
## 146 2 1 1 5536  
## 148 2 2 2 7537  
## 150 2 2 1 7102  
## 154 2 2 1 7760  
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## 159 2 2 1 4249  
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## 170 2 2 1 4908  
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## 177 2 2 2 7671  
## 179 2 2 1 10473  
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## 181 2 2 1 11297  
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## 197 2 2 2 6996  
## 198 2 1 2 6102  
## 204 2 2 2 4043  
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## 219 2 1 2 10665  
## 223 2 2 1 5846  
## 224 2 2 2 7589  
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## 236 2 2 1 4793  
## 241 2 1 2 5732  
## 246 2 1 2 10780  
## 247 2 1 1 8371  
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## 261 2 1 1 3414  
## 262 2 2 1 10339  
## 273 2 1 1 3382  
## 275 2 1 1 11026  
## 277 2 2 2 5195  
## 285 2 1 1 8441  
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## 289 2 2 2 7081  
## 291 2 1 2 4161  
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## 572 11 3  
## 575 4 4  
## 576 8 4  
## 577 6 1  
## 581 9 2  
## 586 9 4  
## 588 8 2  
## 591 8 1  
## 594 16 1  
## 597 9 1  
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## 601 11 1  
## 618 3 2  
## 624 13 1  
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## 630 16 1  
## 632 13 2  
## 637 11 1  
## 640 13 4  
## 641 14 2  
## 644 11 4  
## 648 14 1  
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## 719 6 4  
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## 727 10 2  
## 728 15 4  
## 729 4 2  
## 731 11 2  
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## 746 10 4  
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## 760 6 2  
## 761 15 2  
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## 791 5 3  
## 797 3 2  
## 799 13 3  
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## 824 14 2  
## 825 7 4  
## 833 6 1  
## 839 4 2  
## 851 12 4  
## 859 13 2  
## 867 11 2  
## 880 15 1  
## 884 10 2  
## 885 4 4  
## 888 5 4  
## 889 13 1  
## 891 8 2  
## 894 7 4  
## 905 14 3  
## 915 10 4  
## 920 8 4  
## 922 12 3  
## 923 13 4  
## 931 4 4  
## 940 10 4  
## 942 13 4  
## 946 3 1  
## 947 16 2  
## 950 11 3  
## 959 10 2  
## 962 11 3  
## 963 15 4  
## 967 12 1  
## 984 15 3  
## 988 9 1  
## 990 10 3  
## 991 7 2  
## 992 12 3  
## 993 6 4  
## 994 5 2  
## 995 4 4  
## 997 3 4  
## 1000 8 2  
## 1010 4 3  
## 1011 13 1  
## 1012 11 2  
## 1037 6 1  
## 1039 10 2  
## 1046 10 2  
## 1047 16 2  
## 1052 4 1  
## 1054 3 2  
## 1058 12 1  
## 1067 16 1  
## 1069 13 2  
## 1076 7 2  
## 1079 5 4  
## 1081 9 3  
## 1090 16 2  
## 1097 7 2  
## 1099 5 4  
## 1101 8 2  
## 1102 11 4  
## 1108 10 1  
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## 1114 11 2  
## 1125 11 3  
## 1127 6 4  
## 1130 9 4  
## 1133 13 3  
## 1134 3 3  
## 1139 10 1  
## 1149 4 4  
## 1151 11 1  
## 1157 10 2  
## 1159 4 2  
## 1161 12 4  
## 1166 16 1  
## 1170 6 3  
## 1175 9 2  
## 1176 4 4  
## 1179 8 4  
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## 1182 16 2  
## 1186 15 4  
## 1197 9 4  
## 1201 5 4  
## 1202 8 2  
## 1206 15 1  
## 1207 3 2  
## 1224 3 1  
## 1227 16 3  
## 1231 10 1  
## 1235 9 2  
## 1252 9 1  
## 1257 16 3  
## 1269 11 2  
## 1272 3 4  
## 1284 7 2  
## 1286 6 4  
## 1288 7 4  
## 1292 13 1  
## 1296 3 3  
## 1297 6 2  
## 1300 9 4  
## 1305 9 3  
## 1306 5 4  
## 1307 11 3  
## 1309 3 4  
## 1312 4 3  
## 1314 12 4  
## 1315 8 4  
## 1319 4 4  
## 1321 5 4  
## 1325 3 3  
## 1331 5 3  
## 1335 16 3  
## 1338 6 1  
## 1346 4 4  
## 1349 4 4  
## 1351 12 2  
## 1353 14 1  
## 1356 10 2  
## 1357 11 4  
## 1364 8 2  
## 1367 14 4  
## 1368 15 2  
## 1372 6 2  
## 1376 16 2  
## 1379 16 4  
## 1380 13 4  
## 1384 15 3

summary(Fat\_male)

## Age Gender BMI Fever   
## Min. :32.00 Min. :1 Min. :22.0 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:1 1st Qu.:25.0 1st Qu.:1.000   
## Median :47.00 Median :1 Median :29.0 Median :1.000   
## Mean :46.34 Mean :1 Mean :28.7 Mean :1.478   
## 3rd Qu.:54.00 3rd Qu.:1 3rd Qu.:32.0 3rd Qu.:2.000   
## Max. :61.00 Max. :1 Max. :35.0 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000 Median :1.000   
## Mean :1.528 Mean :1.496 Mean :1.457   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :2 Min. :1.000 Min. :1.00   
## 1st Qu.:2 1st Qu.:1.000 1st Qu.:1.00   
## Median :2 Median :1.000 Median :2.00   
## Mean :2 Mean :1.481 Mean :1.57   
## 3rd Qu.:2 3rd Qu.:2.000 3rd Qu.:2.00   
## Max. :2 Max. :2.000 Max. :2.00   
## WBC RBC HGB Plat   
## Min. : 3001 Min. :3818313 Min. :10.00 Min. : 93708   
## 1st Qu.: 5041 1st Qu.:4110872 1st Qu.:11.00 1st Qu.:120812   
## Median : 7127 Median :4421364 Median :13.00 Median :156184   
## Mean : 7334 Mean :4419475 Mean :12.56 Mean :157270   
## 3rd Qu.: 9577 3rd Qu.:4706596 3rd Qu.:14.00 3rd Qu.:188807   
## Max. :12101 Max. :5018451 Max. :15.00 Max. :225816   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 60.00 1st Qu.: 63.00 1st Qu.: 58.00 1st Qu.: 62.00   
## Median : 80.00 Median : 83.00 Median : 77.00 Median : 84.00   
## Mean : 82.74 Mean : 84.24 Mean : 80.27 Mean : 83.72   
## 3rd Qu.:107.00 3rd Qu.:107.00 3rd Qu.:102.00 3rd Qu.:106.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 5.00 Min. : 5.00 Min. : 5.00   
## 1st Qu.: 63.00 1st Qu.: 64.00 1st Qu.: 61.00 1st Qu.:28.00   
## Median : 84.00 Median : 85.00 Median : 83.00 Median :34.00   
## Mean : 84.99 Mean : 83.94 Mean : 83.85 Mean :33.58   
## 3rd Qu.:108.00 3rd Qu.:106.00 3rd Qu.:107.00 3rd Qu.:39.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 11 Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 304649 1st Qu.: 264323 1st Qu.: 5 1st Qu.: 5   
## Median : 598473 Median : 572994 Median : 244360 Median :261800   
## Mean : 605005 Mean : 588821 Mean : 309150 Mean :286237   
## 3rd Qu.: 886237 3rd Qu.: 899436 3rd Qu.: 544323 3rd Qu.:526220   
## Max. :1199051 Max. :1201715 Max. :3731527 Max. :808142   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 5 1st Qu.: 6.000   
## Median :253397 Median :10.000   
## Mean :296049 Mean : 9.745   
## 3rd Qu.:540160 3rd Qu.:13.000   
## Max. :807660 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:2.000   
## Median :2.000   
## Mean :2.561   
## 3rd Qu.:4.000   
## Max. :4.000

#Jaundice  
Jau\_male = Gen\_male[Gen\_male$Jaundice =='2',]  
Jau\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1 56 1 35 2 1 1 1  
## 2 46 1 29 1 2 2 1  
## 5 59 1 32 1 1 2 1  
## 14 34 1 22 1 2 1 1  
## 19 56 1 27 1 2 2 2  
## 22 33 1 25 2 1 2 2  
## 35 37 1 27 2 2 1 2  
## 44 36 1 23 2 2 1 2  
## 49 54 1 33 2 1 1 2  
## 53 41 1 33 2 1 1 1  
## 54 59 1 32 2 1 1 1  
## 65 45 1 31 1 2 2 2  
## 70 37 1 27 2 2 1 1  
## 71 39 1 35 1 2 2 1  
## 74 61 1 25 1 1 2 2  
## 79 34 1 31 2 2 1 2  
## 81 61 1 26 1 2 2 1  
## 84 56 1 26 1 2 2 2  
## 94 43 1 26 2 2 2 2  
## 102 56 1 27 2 1 2 2  
## 104 33 1 28 2 2 1 2  
## 120 57 1 28 1 2 2 1  
## 122 39 1 30 1 2 2 1  
## 124 44 1 30 1 2 2 2  
## 125 52 1 26 2 2 1 1  
## 127 49 1 25 1 2 1 2  
## 132 53 1 28 2 2 1 2  
## 144 43 1 24 1 2 2 1  
## 147 47 1 32 1 2 2 2  
## 148 61 1 27 2 2 2 2  
## 150 39 1 25 1 1 2 2  
## 152 56 1 34 1 1 1 2  
## 154 58 1 33 1 1 2 1  
## 155 61 1 24 1 2 1 2  
## 157 33 1 30 2 2 1 2  
## 159 45 1 22 2 1 2 2  
## 163 34 1 28 2 1 2 2  
## 167 34 1 27 2 2 1 1  
## 168 60 1 32 1 1 1 1  
## 169 50 1 34 1 2 2 2  
## 170 55 1 29 1 2 1 1  
## 177 48 1 32 2 2 1 1  
## 179 40 1 32 2 2 1 2  
## 181 51 1 35 2 1 1 1  
## 186 55 1 32 2 1 1 1  
## 189 49 1 32 1 2 2 1  
## 191 53 1 34 2 1 2 2  
## 197 37 1 34 2 1 1 2  
## 203 53 1 22 1 1 1 2  
## 204 49 1 25 1 2 1 1  
## 206 59 1 28 1 1 2 2  
## 209 56 1 34 1 2 2 1  
## 210 61 1 34 2 1 1 1  
## 211 58 1 29 2 2 1 1  
## 223 48 1 30 1 1 1 1  
## 224 58 1 35 2 2 2 2  
## 228 35 1 26 2 2 1 2  
## 229 40 1 24 2 1 1 1  
## 236 49 1 22 2 1 2 2  
## 240 38 1 24 2 1 2 2  
## 243 49 1 30 2 1 2 1  
## 248 41 1 31 2 2 2 2  
## 254 38 1 27 1 2 2 1  
## 256 39 1 29 1 1 1 1  
## 259 54 1 26 2 1 2 2  
## 262 55 1 27 1 1 1 1  
## 277 47 1 30 1 1 2 1  
## 282 52 1 28 2 2 1 2  
## 288 48 1 30 1 2 2 1  
## 289 44 1 31 1 2 2 2  
## 301 52 1 26 1 2 2 1  
## 302 38 1 24 2 1 1 1  
## 303 60 1 22 1 2 1 1  
## 313 54 1 33 2 1 1 1  
## 322 58 1 35 1 1 2 2  
## 325 58 1 26 2 1 2 2  
## 327 53 1 27 2 1 2 1  
## 330 46 1 24 1 1 2 2  
## 334 36 1 31 2 2 1 2  
## 339 43 1 23 2 2 1 2  
## 340 36 1 35 1 1 2 1  
## 344 35 1 25 2 1 1 2  
## 351 59 1 23 2 2 2 2  
## 356 39 1 35 2 1 2 2  
## 367 57 1 26 1 1 1 1  
## 368 38 1 22 2 1 2 1  
## 376 44 1 30 1 2 2 2  
## 378 39 1 31 2 1 1 1  
## 382 48 1 24 2 2 1 1  
## 395 59 1 22 1 1 2 2  
## 400 32 1 29 2 2 2 1  
## 405 58 1 34 1 1 1 2  
## 411 51 1 24 1 1 1 2  
## 412 37 1 29 2 1 2 2  
## 421 38 1 23 1 1 2 1  
## 425 52 1 24 2 1 2 1  
## 426 56 1 26 1 2 1 1  
## 427 40 1 33 2 2 2 1  
## 433 54 1 35 1 1 2 1  
## 439 59 1 23 2 1 2 1  
## 447 48 1 25 1 2 2 1  
## 449 34 1 25 1 1 2 1  
## 450 35 1 32 2 2 2 1  
## 453 38 1 28 2 1 1 2  
## 461 56 1 30 1 1 2 1  
## 463 43 1 24 2 2 1 1  
## 468 38 1 32 2 1 2 2  
## 472 45 1 30 2 1 2 2  
## 479 59 1 28 1 2 1 2  
## 486 49 1 33 1 2 2 2  
## 488 58 1 24 2 1 1 2  
## 489 41 1 29 2 2 1 2  
## 490 47 1 24 1 1 1 1  
## 491 56 1 27 2 1 1 1  
## 493 56 1 28 2 1 1 2  
## 495 56 1 26 2 2 1 2  
## 497 37 1 31 1 1 2 1  
## 500 41 1 34 1 2 1 2  
## 509 53 1 29 1 2 2 2  
## 515 56 1 24 2 2 1 2  
## 520 34 1 23 1 2 2 1  
## 525 48 1 22 2 2 1 2  
## 526 37 1 31 1 1 1 1  
## 536 39 1 26 1 1 1 1  
## 543 38 1 22 2 2 2 1  
## 546 37 1 34 2 1 2 1  
## 548 47 1 29 1 2 1 1  
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## 575 37 1 25 1 1 2 1  
## 581 32 1 32 1 2 1 2  
## 582 37 1 29 2 1 2 1  
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## 587 60 1 22 1 1 2 2  
## 588 54 1 33 1 1 2 2  
## 594 41 1 35 2 1 2 1  
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## 603 59 1 24 2 2 1 1  
## 606 35 1 27 2 2 2 2  
## 610 58 1 35 2 2 1 2  
## 617 45 1 27 1 1 2 2  
## 632 59 1 34 2 2 2 2  
## 635 56 1 22 2 2 2 1  
## 637 33 1 25 2 2 2 1  
## 641 44 1 31 2 1 2 1  
## 645 57 1 32 2 1 1 2  
## 648 37 1 33 1 2 2 1  
## 654 59 1 27 1 2 1 1  
## 662 51 1 34 2 2 2 2  
## 668 42 1 35 2 1 2 1  
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## 674 44 1 28 2 1 1 1  
## 678 33 1 26 1 2 2 2  
## 685 32 1 31 1 1 2 2  
## 688 38 1 34 2 2 1 1  
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## 720 42 1 25 1 1 1 1  
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## 814 43 1 33 1 2 1 2  
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## 833 34 1 26 2 2 2 1  
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## 940 45 1 27 2 1 1 2  
## 942 49 1 35 1 2 2 1  
## 947 60 1 33 2 1 1 1  
## 959 55 1 35 1 1 2 1  
## 961 59 1 32 2 1 1 1  
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## 1290 35 1 34 2 2 1 2  
## 1292 61 1 31 1 2 1 1  
## 1295 42 1 28 2 2 2 1  
## 1297 56 1 28 2 1 2 2  
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## 1309 36 1 33 1 1 2 1  
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## 1319 48 1 24 1 1 1 2  
## 1322 44 1 27 1 2 2 2  
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## 1339 36 1 31 2 1 2 1  
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## 1367 50 1 30 1 1 2 1  
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## 1376 59 1 28 1 2 1 1  
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## 1384 52 1 29 2 1 1 2  
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC  
## 1 2 2 2 7425  
## 2 2 2 1 12101  
## 5 2 2 2 3661  
## 14 2 2 1 5638  
## 19 2 2 2 6599  
## 22 2 2 2 9952  
## 35 2 2 2 6441  
## 44 2 2 2 4387  
## 49 1 2 1 6963  
## 53 2 2 2 5041  
## 54 1 2 2 6901  
## 65 1 2 2 11490  
## 70 2 2 2 5500  
## 71 1 2 1 3956  
## 74 2 2 2 4316  
## 79 1 2 1 4250  
## 81 2 2 1 5510  
## 84 1 2 2 5843  
## 94 1 2 2 3739  
## 102 1 2 2 11489  
## 104 1 2 1 4151  
## 120 2 2 1 6676  
## 122 1 2 2 11154  
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## 229 1 2 2 10816  
## 236 2 2 1 4793  
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## 254 1 2 2 11642  
## 256 1 2 1 5034  
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## 277 2 2 2 5195  
## 282 1 2 2 11065  
## 288 1 2 1 11227  
## 289 2 2 2 7081  
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## 302 2 2 2 6862  
## 303 2 2 1 9046  
## 313 1 2 2 3568  
## 322 2 2 1 10955  
## 325 2 2 2 3808  
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## 22 4 1  
## 35 11 3  
## 44 5 4  
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## 65 9 2  
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## 211 15 3  
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## 330 11 2  
## 334 10 1  
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## 340 6 2  
## 344 8 1  
## 351 13 4  
## 356 9 3  
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## 368 12 2  
## 376 9 4  
## 378 7 2  
## 382 12 4  
## 395 12 4  
## 400 8 4  
## 405 12 3  
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## 427 8 3  
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## 450 4 3  
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## 463 15 2  
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## 479 3 1  
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## 493 15 4  
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## 497 15 2  
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## 587 10 4  
## 588 8 2  
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## 765 8 3  
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## 771 16 2  
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## 791 5 3  
## 798 14 2  
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## 854 6 4  
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## 868 15 2  
## 869 11 1  
## 876 5 1  
## 880 15 1  
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## 885 4 4  
## 886 15 4  
## 890 14 2  
## 894 7 4  
## 897 15 3  
## 898 13 2  
## 899 3 1  
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## 907 7 4  
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## 924 3 3  
## 926 4 3  
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## 935 9 2  
## 940 10 4  
## 942 13 4  
## 947 16 2  
## 959 10 2  
## 961 6 4  
## 962 11 3  
## 968 16 1  
## 969 9 1  
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## 977 8 2  
## 979 9 2  
## 984 15 3  
## 986 10 4  
## 988 9 1  
## 989 9 3  
## 990 10 3  
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## 997 3 4  
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## 1014 4 1  
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## 1027 13 3  
## 1047 16 2  
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## 1064 15 3  
## 1067 16 1  
## 1069 13 2  
## 1075 13 3  
## 1078 16 3  
## 1082 4 2  
## 1090 16 2  
## 1092 8 1  
## 1097 7 2  
## 1099 5 4  
## 1100 16 1  
## 1102 11 4  
## 1111 4 4  
## 1114 11 2  
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## 1122 6 4  
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## 1125 11 3  
## 1126 4 2  
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## 1133 13 3  
## 1140 9 4  
## 1141 8 1  
## 1146 14 3  
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## 1157 10 2  
## 1159 4 2  
## 1161 12 4  
## 1165 5 2  
## 1170 6 3  
## 1175 9 2  
## 1179 8 4  
## 1182 16 2  
## 1186 15 4  
## 1187 9 1  
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## 1190 12 1  
## 1193 5 2  
## 1197 9 4  
## 1198 7 2  
## 1202 8 2  
## 1206 15 1  
## 1209 8 3  
## 1212 14 4  
## 1216 11 1  
## 1218 11 4  
## 1220 14 2  
## 1224 3 1  
## 1231 10 1  
## 1234 16 4  
## 1244 5 3  
## 1252 9 1  
## 1264 15 2  
## 1269 11 2  
## 1270 9 4  
## 1271 13 4  
## 1272 3 4  
## 1276 11 4  
## 1284 7 2  
## 1285 6 1  
## 1290 8 1  
## 1292 13 1  
## 1295 9 4  
## 1297 6 2  
## 1300 9 4  
## 1309 3 4  
## 1310 15 1  
## 1316 9 2  
## 1317 12 3  
## 1319 4 4  
## 1322 4 4  
## 1325 3 3  
## 1332 12 4  
## 1334 6 1  
## 1338 6 1  
## 1339 9 4  
## 1346 4 4  
## 1349 4 4  
## 1353 14 1  
## 1355 14 2  
## 1357 11 4  
## 1358 10 1  
## 1359 11 3  
## 1362 3 4  
## 1366 15 1  
## 1367 14 4  
## 1368 15 2  
## 1374 3 4  
## 1376 16 2  
## 1377 11 2  
## 1379 16 4  
## 1380 13 4  
## 1383 6 2  
## 1384 15 3

summary(Jau\_male)

## Age Gender BMI Fever   
## Min. :32.00 Min. :1 Min. :22.00 Min. :1.000   
## 1st Qu.:38.00 1st Qu.:1 1st Qu.:25.00 1st Qu.:1.000   
## Median :47.00 Median :1 Median :28.00 Median :2.000   
## Mean :46.50 Mean :1 Mean :28.38 Mean :1.503   
## 3rd Qu.:54.75 3rd Qu.:1 3rd Qu.:32.00 3rd Qu.:2.000   
## Max. :61.00 Max. :1 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :2.000 Median :1.000   
## Mean :1.511 Mean :1.523 Mean :1.463   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.000 Min. :2 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:2 1st Qu.:1.000   
## Median :1.000 Median :2 Median :2.000   
## Mean :1.458 Mean :2 Mean :1.506   
## 3rd Qu.:2.000 3rd Qu.:2 3rd Qu.:2.000   
## Max. :2.000 Max. :2 Max. :2.000   
## WBC RBC HGB Plat   
## Min. : 3001 Min. :3818313 Min. :10.00 Min. : 93301   
## 1st Qu.: 5227 1st Qu.:4129715 1st Qu.:11.00 1st Qu.:122778   
## Median : 7329 Median :4437510 Median :13.00 Median :155389   
## Mean : 7546 Mean :4416047 Mean :12.55 Mean :156911   
## 3rd Qu.: 9880 3rd Qu.:4698160 3rd Qu.:14.00 3rd Qu.:188469   
## Max. :12101 Max. :5018451 Max. :15.00 Max. :225816   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 61.00 1st Qu.: 62.00 1st Qu.: 61.25 1st Qu.: 58.00   
## Median : 83.00 Median : 85.50 Median : 81.50 Median : 82.00   
## Mean : 83.31 Mean : 84.36 Mean : 83.37 Mean : 82.28   
## 3rd Qu.:105.00 3rd Qu.:107.00 3rd Qu.:107.00 3rd Qu.:105.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 5.00 Min. : 5.00 Min. : 5.00   
## 1st Qu.: 57.00 1st Qu.: 62.00 1st Qu.: 60.00 1st Qu.:27.00   
## Median : 84.00 Median : 85.50 Median : 84.50 Median :33.00   
## Mean : 83.45 Mean : 83.64 Mean : 84.88 Mean :33.14   
## 3rd Qu.:107.00 3rd Qu.:106.00 3rd Qu.:109.00 3rd Qu.:39.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 11 Min. : 1573 Min. : 5 Min. : 5   
## 1st Qu.: 303377 1st Qu.: 299079 1st Qu.: 5 1st Qu.: 5   
## Median : 635739 Median : 600514 Median : 256674 Median :245131   
## Mean : 612720 Mean : 605369 Mean : 301372 Mean :289410   
## 3rd Qu.: 932920 3rd Qu.: 917110 3rd Qu.: 532654 3rd Qu.:528931   
## Max. :1198310 Max. :1201123 Max. :3731527 Max. :807218   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 5 1st Qu.: 6.000   
## Median :245343 Median :10.000   
## Mean :296839 Mean : 9.712   
## 3rd Qu.:558745 3rd Qu.:13.000   
## Max. :807660 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:2.000   
## Median :2.000   
## Mean :2.548   
## 3rd Qu.:4.000   
## Max. :4.000

#Stomack pain  
sto\_male = Gen\_female[Gen\_female$Epigastric.pain =='2',]  
sto\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 7 42 2 26 1 1 2 2  
## 8 48 2 30 1 1 2 2  
## 13 45 2 25 2 1 1 1  
## 18 55 2 24 2 1 2 2  
## 20 35 2 23 2 2 1 1  
## 24 39 2 29 1 2 1 2  
## 25 33 2 24 1 2 2 2  
## 28 39 2 33 2 1 2 1  
## 29 57 2 26 1 2 2 1  
## 30 47 2 29 1 1 2 1  
## 31 55 2 33 1 2 2 1  
## 33 47 2 25 2 1 2 2  
## 41 58 2 33 1 2 2 2  
## 45 47 2 35 1 2 2 1  
## 50 59 2 26 2 1 1 1  
## 52 56 2 23 1 1 1 2  
## 59 32 2 27 1 1 1 1  
## 60 33 2 24 1 1 1 2  
## 61 51 2 26 2 2 2 2  
## 62 50 2 23 2 1 2 1  
## 64 48 2 33 2 1 2 2  
## 68 50 2 22 2 1 2 1  
## 69 40 2 23 1 1 1 2  
## 72 54 2 27 2 1 1 2  
## 75 44 2 28 2 2 1 2  
## 77 32 2 24 2 1 1 2  
## 85 34 2 34 2 1 2 1  
## 88 39 2 28 1 2 1 1  
## 92 45 2 25 1 2 1 2  
## 100 60 2 28 1 2 2 1  
## 113 60 2 35 2 2 2 2  
## 114 56 2 28 1 2 1 1  
## 115 52 2 32 2 2 1 2  
## 119 57 2 33 1 1 2 2  
## 133 39 2 23 2 2 1 1  
## 135 34 2 33 1 2 2 1  
## 138 39 2 30 2 1 1 1  
## 139 45 2 35 2 2 1 2  
## 141 41 2 25 1 1 1 2  
## 142 52 2 26 1 2 2 1  
## 145 49 2 34 2 1 2 2  
## 149 33 2 22 1 2 2 2  
## 160 51 2 22 2 2 1 2  
## 165 51 2 35 1 1 1 1  
## 176 40 2 35 1 1 1 1  
## 184 39 2 34 1 2 2 2  
## 196 36 2 29 2 1 2 2  
## 199 54 2 25 1 1 1 1  
## 200 54 2 29 2 1 2 2  
## 205 41 2 35 2 1 1 2  
## 208 35 2 33 1 2 2 1  
## 212 43 2 22 2 2 1 1  
## 213 51 2 34 1 2 1 1  
## 214 53 2 24 1 2 1 1  
## 218 37 2 34 1 2 2 1  
## 220 35 2 35 1 1 2 1  
## 231 45 2 30 2 2 1 2  
## 237 50 2 30 2 2 1 2  
## 239 54 2 35 1 2 1 2  
## 249 38 2 31 2 2 1 1  
## 251 59 2 27 1 1 2 1  
## 258 37 2 34 1 1 1 1  
## 260 52 2 31 2 1 1 2  
## 263 50 2 25 1 1 2 1  
## 264 36 2 27 1 1 1 2  
## 269 49 2 31 1 1 1 2  
## 270 53 2 31 2 1 1 2  
## 292 44 2 31 2 2 2 2  
## 296 57 2 23 2 2 1 1  
## 298 43 2 26 2 1 1 1  
## 305 40 2 30 1 1 2 1  
## 308 43 2 26 1 2 1 2  
## 312 45 2 26 1 2 2 2  
## 317 56 2 32 2 2 2 1  
## 321 61 2 30 2 2 1 1  
## 326 44 2 32 2 1 2 2  
## 328 58 2 31 2 2 2 1  
## 333 57 2 30 2 1 2 1  
## 338 58 2 24 1 1 1 2  
## 341 50 2 25 2 2 2 2  
## 345 59 2 24 2 1 2 2  
## 350 59 2 25 1 1 2 2  
## 352 51 2 35 2 2 2 1  
## 353 51 2 32 1 1 2 2  
## 355 39 2 28 2 1 1 1  
## 359 47 2 25 2 1 1 2  
## 360 52 2 23 2 1 1 2  
## 364 48 2 26 1 2 1 1  
## 371 49 2 30 2 1 2 2  
## 377 41 2 30 2 1 1 1  
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## 387 45 2 25 1 2 1 1  
## 388 40 2 32 1 2 1 1  
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## 397 49 2 23 1 1 1 2  
## 410 40 2 27 2 2 1 2  
## 415 34 2 33 2 2 1 2  
## 416 35 2 32 2 1 1 2  
## 417 44 2 24 2 1 1 1  
## 422 61 2 27 1 1 2 2  
## 431 55 2 30 1 1 1 2  
## 432 33 2 27 2 2 2 1  
## 435 51 2 27 1 1 2 2  
## 442 53 2 26 2 2 1 2  
## 444 37 2 32 1 2 2 2  
## 451 34 2 35 2 1 1 2  
## 452 61 2 26 2 1 2 2  
## 457 59 2 23 2 1 2 1  
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## 464 36 2 28 1 1 2 2  
## 467 39 2 35 1 1 2 1  
## 471 42 2 34 2 1 2 2  
## 476 57 2 22 2 2 2 2  
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## 484 52 2 34 2 2 1 1  
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## 506 38 2 28 2 2 2 1  
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## 535 60 2 32 1 2 1 2  
## 537 34 2 24 1 2 1 2  
## 538 49 2 24 2 1 1 2  
## 539 45 2 22 1 1 2 2  
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## 545 61 2 27 2 2 2 2  
## 549 60 2 28 2 2 2 2  
## 557 32 2 26 1 2 2 2  
## 560 60 2 29 1 1 1 2  
## 562 36 2 29 1 1 1 1  
## 570 43 2 27 2 1 2 2  
## 573 56 2 29 1 1 2 2  
## 580 46 2 34 1 2 2 2  
## 589 54 2 34 1 2 1 1  
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## 100 12 1  
## 113 14 1  
## 114 11 1  
## 115 16 3  
## 119 12 1  
## 133 4 3  
## 135 15 3  
## 138 14 3  
## 139 4 1  
## 141 11 1  
## 142 15 3  
## 145 6 2  
## 149 12 4  
## 160 11 4  
## 165 9 1  
## 176 15 3  
## 184 13 3  
## 196 10 1  
## 199 14 3  
## 200 16 1  
## 205 6 4  
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## 212 7 3  
## 213 14 2  
## 214 10 4  
## 218 15 4  
## 220 16 2  
## 231 11 2  
## 237 10 1  
## 239 15 3  
## 249 3 4  
## 251 13 1  
## 258 4 3  
## 260 7 4  
## 263 15 3  
## 264 12 3  
## 269 6 2  
## 270 3 4  
## 292 15 4  
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## 298 5 2  
## 305 13 3  
## 308 10 3  
## 312 3 4  
## 317 5 4  
## 321 5 2  
## 326 3 4  
## 328 3 4  
## 333 15 3  
## 338 7 2  
## 341 15 2  
## 345 3 4  
## 350 11 2  
## 352 15 2  
## 353 3 2  
## 355 13 3  
## 359 12 3  
## 360 7 1  
## 364 5 4  
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## 377 8 3  
## 383 9 1  
## 387 15 3  
## 388 8 2  
## 393 14 1  
## 397 7 3  
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## 415 15 3  
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## 417 9 1  
## 422 7 2  
## 431 3 3  
## 432 9 4  
## 435 12 3  
## 442 14 1  
## 444 16 3  
## 451 3 1  
## 452 12 2  
## 457 10 4  
## 462 8 2  
## 464 5 3  
## 467 3 1  
## 471 12 2  
## 476 11 2  
## 477 8 3  
## 483 10 3  
## 484 4 2  
## 492 7 2  
## 494 5 3  
## 504 11 4  
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## 507 14 3  
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## 524 3 1  
## 529 8 3  
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## 535 7 4  
## 537 12 4  
## 538 16 3  
## 539 10 1  
## 540 15 4  
## 545 11 3  
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## 560 14 4  
## 562 7 3  
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## 580 14 4  
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## 619 6 2  
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## 650 16 3  
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## 699 9 2  
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## 707 11 2  
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## 716 4 4  
## 722 9 2  
## 723 15 1  
## 732 11 1  
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## 738 6 3  
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## 753 9 3  
## 754 6 4  
## 763 8 4  
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## 781 16 3  
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## 807 9 1  
## 810 10 1  
## 816 12 2  
## 818 8 1  
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## 835 12 4  
## 836 4 4  
## 837 15 4  
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## 845 14 1  
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## 873 8 4  
## 874 9 1  
## 878 3 2  
## 887 16 4  
## 892 15 1  
## 896 8 2  
## 901 11 3  
## 908 8 1  
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## 929 14 4  
## 938 7 1  
## 941 7 4  
## 944 15 4  
## 948 4 4  
## 951 6 4  
## 955 11 4  
## 957 11 1  
## 958 6 1  
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## 966 16 3  
## 973 10 1  
## 975 12 1  
## 976 3 1  
## 981 15 2  
## 982 4 4  
## 983 16 4  
## 985 5 1  
## 998 7 4  
## 999 14 3  
## 1002 12 3  
## 1004 14 3  
## 1009 7 3  
## 1013 15 4  
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## 1026 12 2  
## 1028 16 4  
## 1029 4 1  
## 1030 7 4  
## 1035 10 2  
## 1041 14 1  
## 1056 8 4  
## 1062 14 4  
## 1066 3 4  
## 1068 7 4  
## 1073 9 4  
## 1080 11 2  
## 1093 8 4  
## 1094 4 1  
## 1095 10 2  
## 1119 11 4  
## 1121 5 1  
## 1132 6 3  
## 1137 16 1  
## 1147 4 3  
## 1155 11 4  
## 1156 5 1  
## 1158 7 2  
## 1162 12 2  
## 1167 13 1  
## 1168 5 4  
## 1171 9 4  
## 1172 11 2  
## 1177 4 3  
## 1180 3 2  
## 1183 9 1  
## 1184 10 4  
## 1196 5 1  
## 1199 6 3  
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## 1203 5 2  
## 1204 4 2  
## 1210 14 1  
## 1211 14 1  
## 1214 14 3  
## 1217 16 2  
## 1221 16 1  
## 1222 11 4  
## 1230 12 2  
## 1232 14 2  
## 1242 13 1  
## 1246 12 2  
## 1248 6 2  
## 1250 12 1  
## 1253 6 1  
## 1254 3 2  
## 1255 7 3  
## 1261 14 2  
## 1263 9 4  
## 1266 14 3  
## 1267 13 4  
## 1277 12 4  
## 1281 5 3  
## 1282 13 4  
## 1283 4 2  
## 1287 11 4  
## 1293 9 1  
## 1294 3 3  
## 1299 7 4  
## 1302 5 4  
## 1303 5 3  
## 1308 15 2  
## 1326 12 3  
## 1336 4 2  
## 1337 14 1  
## 1341 14 1  
## 1342 4 2  
## 1347 14 4  
## 1348 12 2  
## 1352 13 3  
## 1361 6 1  
## 1369 8 3  
## 1371 10 3

summary(sto\_male)

## Age Gender BMI Fever   
## Min. :32.00 Min. :2 Min. :22.00 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:2 1st Qu.:25.00 1st Qu.:1.000   
## Median :47.00 Median :2 Median :29.00 Median :2.000   
## Mean :46.41 Mean :2 Mean :28.68 Mean :1.529   
## 3rd Qu.:54.00 3rd Qu.:2 3rd Qu.:33.00 3rd Qu.:2.000   
## Max. :61.00 Max. :2 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.00   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.00   
## Median :1.000 Median :1.000 Median :2.00   
## Mean :1.468 Mean :1.474 Mean :1.52   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.00   
## Max. :2.000 Max. :2.000 Max. :2.00   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.000 Min. :1.000 Min. :2   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:2   
## Median :2.000 Median :1.000 Median :2   
## Mean :1.508 Mean :1.486 Mean :2   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2   
## Max. :2.000 Max. :2.000 Max. :2   
## WBC RBC HGB Plat   
## Min. : 3050 Min. :3817833 Min. :10.00 Min. : 93013   
## 1st Qu.: 5434 1st Qu.:4091459 1st Qu.:11.00 1st Qu.:123837   
## Median : 7721 Median :4404037 Median :13.00 Median :156672   
## Mean : 7736 Mean :4395595 Mean :12.61 Mean :156801   
## 3rd Qu.:10165 3rd Qu.:4711891 3rd Qu.:14.00 3rd Qu.:187988   
## Max. :12088 Max. :5014169 Max. :15.00 Max. :226464   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 62.00 1st Qu.: 64.00 1st Qu.: 58.00 1st Qu.: 60.00   
## Median : 84.00 Median : 86.00 Median : 81.00 Median : 85.00   
## Mean : 83.53 Mean : 85.03 Mean : 81.41 Mean : 83.81   
## 3rd Qu.:106.00 3rd Qu.:108.00 3rd Qu.:104.00 3rd Qu.:107.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. :22.00   
## 1st Qu.: 60.00 1st Qu.: 63.00 1st Qu.: 61.00 1st Qu.:27.00   
## Median : 81.00 Median : 87.00 Median : 83.00 Median :34.00   
## Mean : 82.47 Mean : 85.22 Mean : 82.87 Mean :33.68   
## 3rd Qu.:107.00 3rd Qu.:106.00 3rd Qu.:102.00 3rd Qu.:40.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 4210 Min. : 774 Min. : 5 Min. : 5   
## 1st Qu.: 249919 1st Qu.: 243758 1st Qu.: 11734 1st Qu.: 14864   
## Median : 598783 Median : 597869 Median :249978 Median :318363   
## Mean : 580195 Mean : 596835 Mean :298150 Mean :325923   
## 3rd Qu.: 885541 3rd Qu.: 897438 3rd Qu.:531558 3rd Qu.:564244   
## Max. :1200762 Max. :1200273 Max. :805218 Max. :808450   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 24476 1st Qu.: 6.000   
## Median :275007 Median :10.000   
## Mean :313536 Mean : 9.829   
## 3rd Qu.:535998 3rd Qu.:14.000   
## Max. :810333 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:1.000   
## Median :3.000   
## Mean :2.505   
## 3rd Qu.:4.000   
## Max. :4.000

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Female Data Exploration\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
#Fever  
Fev\_female = Gen\_female[Gen\_female$Fever == '2',]  
Fev\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 6 58 2 22 2 2 2 1  
## 11 37 2 24 2 1 2 1  
## 13 45 2 25 2 1 1 1  
## 15 40 2 32 2 2 2 1  
## 18 55 2 24 2 1 2 2  
## 20 35 2 23 2 2 1 1  
## 26 43 2 34 2 2 2 1  
## 28 39 2 33 2 1 2 1  
## 32 58 2 35 2 2 2 2  
## 33 47 2 25 2 1 2 2  
## 37 60 2 32 2 2 1 2  
## 39 40 2 28 2 1 2 1  
## 42 37 2 23 2 2 1 1  
## 50 59 2 26 2 1 1 1  
## 61 51 2 26 2 2 2 2  
## 62 50 2 23 2 1 2 1  
## 64 48 2 33 2 1 2 2  
## 68 50 2 22 2 1 2 1  
## 72 54 2 27 2 1 1 2  
## 73 43 2 23 2 2 1 2  
## 75 44 2 28 2 2 1 2  
## 77 32 2 24 2 1 1 2  
## 85 34 2 34 2 1 2 1  
## 99 36 2 34 2 1 2 1  
## 105 45 2 27 2 2 2 1  
## 113 60 2 35 2 2 2 2  
## 115 52 2 32 2 2 1 2  
## 117 59 2 34 2 1 1 1  
## 123 59 2 34 2 1 2 1  
## 126 33 2 33 2 2 1 1  
## 128 55 2 33 2 2 1 1  
## 131 57 2 29 2 1 2 1  
## 133 39 2 23 2 2 1 1  
## 136 45 2 31 2 1 1 1  
## 138 39 2 30 2 1 1 1  
## 139 45 2 35 2 2 1 2  
## 145 49 2 34 2 1 2 2  
## 151 57 2 29 2 1 2 1  
## 160 51 2 22 2 2 1 2  
## 164 39 2 29 2 2 2 1  
## 185 59 2 31 2 2 1 2  
## 187 51 2 30 2 1 1 1  
## 188 53 2 29 2 1 1 2  
## 192 45 2 29 2 2 1 2  
## 194 47 2 33 2 2 1 1  
## 196 36 2 29 2 1 2 2  
## 200 54 2 29 2 1 2 2  
## 205 41 2 35 2 1 1 2  
## 212 43 2 22 2 2 1 1  
## 215 46 2 24 2 1 1 1  
## 221 33 2 27 2 2 1 2  
## 222 43 2 27 2 2 2 2  
## 231 45 2 30 2 2 1 2  
## 234 42 2 27 2 1 1 1  
## 237 50 2 30 2 2 1 2  
## 244 55 2 26 2 2 2 2  
## 245 59 2 31 2 2 2 2  
## 249 38 2 31 2 2 1 1  
## 250 48 2 28 2 1 1 1  
## 252 34 2 34 2 2 2 2  
## 253 37 2 31 2 2 1 1  
## 260 52 2 31 2 1 1 2  
## 265 49 2 24 2 1 2 2  
## 270 53 2 31 2 1 1 2  
## 271 46 2 25 2 1 1 2  
## 276 58 2 35 2 2 1 1  
## 278 38 2 34 2 1 1 1  
## 280 36 2 34 2 1 2 1  
## 284 42 2 31 2 1 1 1  
## 286 53 2 31 2 2 2 2  
## 292 44 2 31 2 2 2 2  
## 296 57 2 23 2 2 1 1  
## 298 43 2 26 2 1 1 1  
## 306 33 2 27 2 1 1 1  
## 307 60 2 32 2 1 2 2  
## 311 56 2 35 2 1 1 1  
## 317 56 2 32 2 2 2 1  
## 318 41 2 34 2 1 2 1  
## 321 61 2 30 2 2 1 1  
## 326 44 2 32 2 1 2 2  
## 328 58 2 31 2 2 2 1  
## 333 57 2 30 2 1 2 1  
## 335 51 2 23 2 1 2 2  
## 341 50 2 25 2 2 2 2  
## 345 59 2 24 2 1 2 2  
## 346 51 2 34 2 1 2 2  
## 352 51 2 35 2 2 2 1  
## 355 39 2 28 2 1 1 1  
## 359 47 2 25 2 1 1 2  
## 360 52 2 23 2 1 1 2  
## 361 39 2 32 2 2 1 2  
## 363 36 2 29 2 1 1 1  
## 369 32 2 22 2 1 1 1  
## 371 49 2 30 2 1 2 2  
## 372 40 2 24 2 2 2 2  
## 374 48 2 30 2 1 1 2  
## 377 41 2 30 2 1 1 1  
## 379 56 2 25 2 2 2 2  
## 384 33 2 35 2 2 1 2  
## 389 56 2 30 2 2 2 1  
## 390 33 2 29 2 1 1 1  
## 391 56 2 25 2 1 2 1  
## 394 42 2 30 2 1 2 2  
## 398 42 2 29 2 2 2 1  
## 403 59 2 29 2 2 2 1  
## 406 51 2 28 2 1 2 2  
## 410 40 2 27 2 2 1 2  
## 414 34 2 33 2 2 2 2  
## 415 34 2 33 2 2 1 2  
## 416 35 2 32 2 1 1 2  
## 417 44 2 24 2 1 1 1  
## 420 42 2 29 2 2 1 1  
## 430 51 2 27 2 1 2 1  
## 432 33 2 27 2 2 2 1  
## 434 49 2 35 2 1 1 1  
## 437 58 2 31 2 2 2 1  
## 442 53 2 26 2 2 1 2  
## 445 33 2 26 2 1 1 1  
## 451 34 2 35 2 1 1 2  
## 452 61 2 26 2 1 2 2  
## 454 59 2 25 2 2 1 1  
## 457 59 2 23 2 1 2 1  
## 471 42 2 34 2 1 2 2  
## 476 57 2 22 2 2 2 2  
## 477 45 2 32 2 1 2 1  
## 482 46 2 33 2 2 1 2  
## 484 52 2 34 2 2 1 1  
## 492 40 2 33 2 2 1 1  
## 494 58 2 25 2 1 2 1  
## 498 43 2 22 2 2 2 1  
## 502 61 2 27 2 2 2 2  
## 504 47 2 32 2 2 1 2  
## 506 38 2 28 2 2 2 1  
## 511 53 2 27 2 1 1 1  
## 521 34 2 32 2 1 2 2  
## 528 52 2 25 2 1 1 2  
## 530 34 2 27 2 1 2 1  
## 531 59 2 25 2 2 2 1  
## 533 33 2 24 2 1 1 1  
## 538 49 2 24 2 1 1 2  
## 545 61 2 27 2 2 2 2  
## 549 60 2 28 2 2 2 2  
## 550 35 2 25 2 2 2 2  
## 564 53 2 24 2 2 2 2  
## 567 34 2 24 2 1 2 2  
## 570 43 2 27 2 1 2 2  
## 578 59 2 22 2 2 2 2  
## 579 52 2 24 2 2 1 1  
## 585 45 2 27 2 2 1 1  
## 592 44 2 34 2 2 1 2  
## 593 61 2 24 2 2 2 2  
## 599 32 2 30 2 1 2 1  
## 602 44 2 33 2 1 1 1  
## 608 51 2 30 2 2 1 1  
## 612 36 2 34 2 1 2 2  
## 615 43 2 27 2 2 2 1  
## 621 41 2 27 2 2 2 1  
## 622 57 2 25 2 1 1 1  
## 625 46 2 35 2 2 2 1  
## 627 44 2 27 2 1 1 2  
## 631 35 2 35 2 2 2 2  
## 633 43 2 24 2 2 2 2  
## 634 49 2 33 2 1 1 2  
## 636 41 2 32 2 1 1 1  
## 638 60 2 31 2 1 1 2  
## 646 45 2 24 2 2 1 2  
## 647 57 2 25 2 2 1 1  
## 650 54 2 34 2 2 2 1  
## 655 61 2 34 2 1 1 1  
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## 664 45 2 34 2 1 1 2  
## 671 46 2 23 2 2 2 1  
## 676 36 2 22 2 1 2 2  
## 679 41 2 30 2 1 1 2  
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## 693 51 2 29 2 1 1 1  
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## 701 45 2 25 2 1 2 2  
## 704 46 2 27 2 1 2 2  
## 706 49 2 22 2 2 2 2  
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## 723 55 2 35 2 1 1 2  
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## 725 52 2 34 2 2 2 2  
## 733 44 2 26 2 2 1 2  
## 735 54 2 26 2 1 1 2  
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## 739 48 2 34 2 2 1 2  
## 743 59 2 27 2 1 1 1  
## 747 32 2 26 2 1 2 1  
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## 754 42 2 28 2 2 2 1  
## 763 53 2 25 2 2 1 2  
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## 775 42 2 34 2 1 1 1  
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## 784 36 2 24 2 1 2 2  
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## 786 37 2 25 2 1 2 2  
## 787 34 2 24 2 1 2 1  
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## 801 42 2 33 2 2 2 2  
## 807 40 2 34 2 2 2 2  
## 808 50 2 32 2 1 1 1  
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## 813 43 2 35 2 2 1 1  
## 817 53 2 28 2 1 2 2  
## 818 39 2 22 2 2 2 1  
## 819 46 2 25 2 2 1 2  
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## 1208 29 1162974 670753 117205 558551 667793  
## 1211 44 1109982 637970 5 5 5  
## 1213 32 1042144 560601 5 5 5  
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## 1219 24 544755 1173393 531800 607666 288955  
## 1221 29 199022 98075 166851 320803 752517  
## 1222 27 108997 788057 618057 564244 506728  
## 1223 31 562845 789832 2744 222229 81129  
## 1225 45 798046 1049332 5 5 5  
## 1229 40 866490 850820 251600 376766 490176  
## 1233 25 637799 165478 27132 110338 431734  
## 1238 34 935612 1111753 604790 209271 137061  
## 1239 40 1038855 716660 578399 372689 1876  
## 1242 38 619268 1042310 7212 794696 102147  
## 1243 34 703063 872563 642885 517945 58681  
## 1245 26 966763 49518 189919 15496 433310  
## 1246 40 14667 22967 770184 298929 211911  
## 1248 32 498036 1158264 623822 57320 615639  
## 1249 22 866877 315008 5 5 5  
## 1253 35 680557 885682 144870 215357 262795  
## 1255 34 576531 640196 709767 103830 140847  
## 1259 25 718576 373342 180015 119006 686401  
## 1261 37 597056 426078 5 5 5  
## 1265 30 984557 390136 94116 326349 104297  
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## 1268 41 534359 827659 562615 706274 342911  
## 1277 44 780887 1066136 496045 756611 206077  
## 1281 31 167941 83388 521988 792695 134900  
## 1283 44 202000 969590 199745 564795 17232  
## 1287 39 89313 458593 655263 664958 785560  
## 1294 45 936637 224867 5 5 5  
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## 1302 26 759302 984611 635394 308730 791932  
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## 1327 40 183374 1089713 475707 263035 294962  
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## 1337 27 223117 808952 31690 393956 437691  
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## Baseline.histological.Grading Baselinehistological.staging  
## 6 4 4  
## 11 15 2  
## 13 8 1  
## 15 8 2  
## 18 4 3  
## 20 16 4  
## 26 9 4  
## 28 15 2  
## 32 5 2  
## 33 8 1  
## 37 5 2  
## 39 9 2  
## 42 6 1  
## 50 15 1  
## 61 8 4  
## 62 12 3  
## 64 9 1  
## 68 14 4  
## 72 12 1  
## 73 4 3  
## 75 7 4  
## 77 8 4  
## 85 5 3  
## 99 14 2  
## 105 11 1  
## 113 14 1  
## 115 16 3  
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## 136 16 3  
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## 221 6 2  
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## 237 10 1  
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## 245 9 3  
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## 265 11 4  
## 270 3 4  
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## 306 5 3  
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## 318 10 3  
## 321 5 2  
## 326 3 4  
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## 335 8 2  
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## 345 3 4  
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## 352 15 2  
## 355 13 3  
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## 360 7 1  
## 361 5 3  
## 363 9 4  
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## 374 13 4  
## 377 8 3  
## 379 11 1  
## 384 14 3  
## 389 12 4  
## 390 13 2  
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## 394 7 1  
## 398 6 3  
## 403 9 1  
## 406 16 2  
## 410 12 2  
## 414 15 2  
## 415 15 3  
## 416 10 2  
## 417 9 1  
## 420 7 2  
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## 437 9 3  
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## 454 5 2  
## 457 10 4  
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## 477 8 3  
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## 484 4 2  
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## 494 5 3  
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## 538 16 3  
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## 634 8 2  
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## 655 11 3  
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## 701 11 4  
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## 724 15 3  
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## 737 13 2  
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## 754 6 4  
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## 786 3 1  
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## 801 12 3  
## 807 9 1  
## 808 8 4  
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## 817 8 4  
## 818 8 1  
## 819 8 4  
## 820 12 1  
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## 834 11 3  
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## 837 15 4  
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## 847 7 4  
## 849 6 2  
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## 862 8 3  
## 866 11 4  
## 873 8 4  
## 874 9 1  
## 887 16 4  
## 895 5 3  
## 896 8 2  
## 908 8 1  
## 911 12 4  
## 912 13 3  
## 914 8 4  
## 921 11 3  
## 929 14 4  
## 932 6 1  
## 934 8 3  
## 941 7 4  
## 945 11 1  
## 951 6 4  
## 952 3 3  
## 955 11 4  
## 958 6 1  
## 965 15 1  
## 966 16 3  
## 973 10 1  
## 974 15 1  
## 975 12 1  
## 978 12 1  
## 981 15 2  
## 982 4 4  
## 983 16 4  
## 985 5 1  
## 987 6 1  
## 998 7 4  
## 999 14 3  
## 1002 12 3  
## 1009 7 3  
## 1015 10 2  
## 1017 15 2  
## 1018 4 2  
## 1019 4 1  
## 1023 4 1  
## 1028 16 4  
## 1029 4 1  
## 1033 14 1  
## 1034 15 3  
## 1035 10 2  
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## 1049 10 4  
## 1062 14 4  
## 1071 11 3  
## 1073 9 4  
## 1077 6 3  
## 1080 11 2  
## 1086 8 1  
## 1093 8 4  
## 1095 10 2  
## 1096 12 2  
## 1098 12 4  
## 1103 10 3  
## 1109 16 3  
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## 1131 8 4  
## 1132 6 3  
## 1135 5 2  
## 1136 16 1  
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## 1143 14 3  
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## 1147 4 3  
## 1156 5 1  
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## 1160 12 4  
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## 1168 5 4  
## 1171 9 4  
## 1173 5 2  
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## 1177 4 3  
## 1178 4 3  
## 1183 9 1  
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## 1191 5 2  
## 1194 11 3  
## 1195 10 3  
## 1196 5 1  
## 1199 6 3  
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## 1208 3 3  
## 1211 14 1  
## 1213 6 2  
## 1217 16 2  
## 1219 15 3  
## 1221 16 1  
## 1222 11 4  
## 1223 10 3  
## 1225 8 2  
## 1229 10 4  
## 1233 9 1  
## 1238 3 3  
## 1239 3 3  
## 1242 13 1  
## 1243 10 2  
## 1245 15 4  
## 1246 12 2  
## 1248 6 2  
## 1249 12 1  
## 1253 6 1  
## 1255 7 3  
## 1259 15 3  
## 1261 14 2  
## 1265 16 3  
## 1266 14 3  
## 1268 7 3  
## 1277 12 4  
## 1281 5 3  
## 1283 4 2  
## 1287 11 4  
## 1294 3 3  
## 1299 7 4  
## 1302 5 4  
## 1320 15 2  
## 1323 12 3  
## 1326 12 3  
## 1327 5 4  
## 1330 14 4  
## 1337 14 1  
## 1340 14 3  
## 1344 11 1  
## 1347 14 4  
## 1348 12 2  
## 1363 11 3  
## 1365 7 1  
## 1369 8 3  
## 1371 10 3

summary(Fev\_female)

## Age Gender BMI Fever Nausea.Vomting   
## Min. :32.00 Min. :2 Min. :22.0 Min. :2 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:2 1st Qu.:25.0 1st Qu.:2 1st Qu.:1.000   
## Median :45.00 Median :2 Median :29.0 Median :2 Median :1.000   
## Mean :46.11 Mean :2 Mean :28.6 Mean :2 Mean :1.487   
## 3rd Qu.:53.00 3rd Qu.:2 3rd Qu.:32.0 3rd Qu.:2 3rd Qu.:2.000   
## Max. :61.00 Max. :2 Max. :35.0 Max. :2 Max. :2.000   
## Headache Diarrhea Fatigue...generalized.bone.ache  
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :2.000 Median :1.000 Median :2.000   
## Mean :1.501 Mean :1.496 Mean :1.543   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Jaundice Epigastric.pain WBC RBC   
## Min. :1.000 Min. :1.000 Min. : 2991 Min. :3821231   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: 5088 1st Qu.:4116937   
## Median :1.000 Median :1.000 Median : 7640 Median :4455474   
## Mean :1.499 Mean :1.493 Mean : 7589 Mean :4429893   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:10104 3rd Qu.:4747096   
## Max. :2.000 Max. :2.000 Max. :12094 Max. :5018034   
## HGB Plat AST.1 ALT.1   
## Min. :10.00 Min. : 93242 Min. : 39.0 Min. : 39.00   
## 1st Qu.:11.00 1st Qu.:124637 1st Qu.: 60.0 1st Qu.: 64.00   
## Median :13.00 Median :159891 Median : 86.0 Median : 86.00   
## Mean :12.63 Mean :158697 Mean : 83.1 Mean : 85.86   
## 3rd Qu.:14.00 3rd Qu.:190493 3rd Qu.:105.0 3rd Qu.:109.00   
## Max. :15.00 Max. :226464 Max. :128.0 Max. :128.00   
## ALT4 ALT.12 ALT.24 ALT.36   
## Min. : 39.0 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 59.0 1st Qu.: 61.00 1st Qu.: 60.00 1st Qu.: 59.00   
## Median : 80.0 Median : 82.00 Median : 81.00 Median : 83.00   
## Mean : 81.5 Mean : 82.12 Mean : 82.83 Mean : 82.29   
## 3rd Qu.:106.0 3rd Qu.:102.00 3rd Qu.:107.00 3rd Qu.:106.00   
## Max. :128.0 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.48 ALT.after.24.w RNA.Base RNA.4   
## Min. : 39.00 Min. :22.00 Min. : 8331 Min. : 774   
## 1st Qu.: 61.00 1st Qu.:29.00 1st Qu.: 270089 1st Qu.: 269396   
## Median : 83.00 Median :34.00 Median : 598783 Median : 587552   
## Mean : 82.99 Mean :33.68 Mean : 594003 Mean : 587649   
## 3rd Qu.:105.00 3rd Qu.:39.00 3rd Qu.: 895958 3rd Qu.: 866045   
## Max. :128.00 Max. :45.00 Max. :1201086 Max. :1200649   
## RNA.12 RNA.EOT RNA.EF   
## Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 5 1st Qu.: 5 1st Qu.: 5   
## Median :231278 Median :259979 Median :215065   
## Mean :283297 Mean :293108 Mean :275662   
## 3rd Qu.:520004 3rd Qu.:514924 3rd Qu.:490176   
## Max. :805218 Max. :808450 Max. :810333   
## Baseline.histological.Grading Baselinehistological.staging  
## Min. : 3.000 Min. :1.000   
## 1st Qu.: 6.000 1st Qu.:2.000   
## Median :10.000 Median :3.000   
## Mean : 9.751 Mean :2.541   
## 3rd Qu.:14.000 3rd Qu.:4.000   
## Max. :16.000 Max. :4.000

#Vomiting and Nausea  
Nau\_female = Gen\_female[Gen\_female$Nausea.Vomting =='2',]  
Nau\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 4 49 2 33 1 2 1 2  
## 6 58 2 22 2 2 2 1  
## 15 40 2 32 2 2 2 1  
## 20 35 2 23 2 2 1 1  
## 24 39 2 29 1 2 1 2  
## 25 33 2 24 1 2 2 2  
## 26 43 2 34 2 2 2 1  
## 29 57 2 26 1 2 2 1  
## 31 55 2 33 1 2 2 1  
## 32 58 2 35 2 2 2 2  
## 37 60 2 32 2 2 1 2  
## 41 58 2 33 1 2 2 2  
## 42 37 2 23 2 2 1 1  
## 45 47 2 35 1 2 2 1  
## 57 39 2 30 1 2 1 1  
## 61 51 2 26 2 2 2 2  
## 67 36 2 31 1 2 1 2  
## 73 43 2 23 2 2 1 2  
## 75 44 2 28 2 2 1 2  
## 87 52 2 27 1 2 2 2  
## 88 39 2 28 1 2 1 1  
## 92 45 2 25 1 2 1 2  
## 96 37 2 28 1 2 2 1  
## 100 60 2 28 1 2 2 1  
## 101 46 2 35 1 2 2 1  
## 105 45 2 27 2 2 2 1  
## 113 60 2 35 2 2 2 2  
## 114 56 2 28 1 2 1 1  
## 115 52 2 32 2 2 1 2  
## 126 33 2 33 2 2 1 1  
## 128 55 2 33 2 2 1 1  
## 130 41 2 34 1 2 2 1  
## 133 39 2 23 2 2 1 1  
## 135 34 2 33 1 2 2 1  
## 139 45 2 35 2 2 1 2  
## 142 52 2 26 1 2 2 1  
## 149 33 2 22 1 2 2 2  
## 158 45 2 25 1 2 1 2  
## 160 51 2 22 2 2 1 2  
## 164 39 2 29 2 2 2 1  
## 173 51 2 23 1 2 1 1  
## 184 39 2 34 1 2 2 2  
## 185 59 2 31 2 2 1 2  
## 192 45 2 29 2 2 1 2  
## 194 47 2 33 2 2 1 1  
## 202 39 2 32 1 2 2 1  
## 208 35 2 33 1 2 2 1  
## 212 43 2 22 2 2 1 1  
## 213 51 2 34 1 2 1 1  
## 214 53 2 24 1 2 1 1  
## 218 37 2 34 1 2 2 1  
## 221 33 2 27 2 2 1 2  
## 222 43 2 27 2 2 2 2  
## 231 45 2 30 2 2 1 2  
## 237 50 2 30 2 2 1 2  
## 239 54 2 35 1 2 1 2  
## 242 55 2 35 1 2 1 2  
## 244 55 2 26 2 2 2 2  
## 245 59 2 31 2 2 2 2  
## 249 38 2 31 2 2 1 1  
## 252 34 2 34 2 2 2 2  
## 253 37 2 31 2 2 1 1  
## 255 32 2 30 1 2 1 2  
## 266 57 2 29 1 2 1 1  
## 267 42 2 27 1 2 2 2  
## 272 58 2 23 1 2 1 2  
## 276 58 2 35 2 2 1 1  
## 286 53 2 31 2 2 2 2  
## 292 44 2 31 2 2 2 2  
## 296 57 2 23 2 2 1 1  
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## 308 43 2 26 1 2 1 2  
## 312 45 2 26 1 2 2 2  
## 317 56 2 32 2 2 2 1  
## 321 61 2 30 2 2 1 1  
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## 337 52 2 31 1 2 2 2  
## 341 50 2 25 2 2 2 2  
## 343 38 2 30 1 2 2 2  
## 352 51 2 35 2 2 2 1  
## 354 58 2 34 1 2 2 2  
## 357 39 2 23 1 2 2 1  
## 358 47 2 35 1 2 1 1  
## 361 39 2 32 2 2 1 2  
## 364 48 2 26 1 2 1 1  
## 372 40 2 24 2 2 2 2  
## 379 56 2 25 2 2 2 2  
## 384 33 2 35 2 2 1 2  
## 387 45 2 25 1 2 1 1  
## 388 40 2 32 1 2 1 1  
## 389 56 2 30 2 2 2 1  
## 398 42 2 29 2 2 2 1  
## 403 59 2 29 2 2 2 1  
## 407 51 2 33 1 2 2 2  
## 410 40 2 27 2 2 1 2  
## 414 34 2 33 2 2 2 2  
## 415 34 2 33 2 2 1 2  
## 419 32 2 22 1 2 2 2  
## 420 42 2 29 2 2 1 1  
## 423 35 2 31 1 2 2 1  
## 424 54 2 28 1 2 1 2  
## 429 38 2 34 1 2 1 2  
## 432 33 2 27 2 2 2 1  
## 436 44 2 24 1 2 1 1  
## 437 58 2 31 2 2 2 1  
## 438 45 2 25 1 2 2 1  
## 442 53 2 26 2 2 1 2  
## 444 37 2 32 1 2 2 2  
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## 476 57 2 22 2 2 2 2  
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## 589 54 2 34 1 2 1 1  
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## 593 61 2 24 2 2 2 2  
## 595 52 2 28 1 2 2 1  
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## 608 51 2 30 2 2 1 1  
## 611 46 2 34 1 2 1 1  
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## 616 34 2 31 1 2 2 1  
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## 625 46 2 35 2 2 2 1  
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## 647 57 2 25 2 2 1 1  
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## 671 46 2 23 2 2 2 1  
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## 773 43 2 27 2 2 1 1  
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## 1267 45 698050 1120814 510861 361625 494298  
## 1287 39 89313 458593 655263 664958 785560  
## 1294 45 936637 224867 5 5 5  
## 1299 33 842775 1060420 5 5 5  
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## 1308 41 654767 453811 363126 386827 427019  
## 1311 39 205364 823100 89762 494110 749190  
## 1323 30 1194936 309523 390517 520978 546273  
## 1327 40 183374 1089713 475707 263035 294962  
## 1344 37 820112 174354 85578 599212 798344  
## 1345 42 534127 5489 623294 521002 309442  
## 1347 32 404759 655201 46264 185799 363462  
## 1348 25 176277 460756 5 5 5  
## 1352 36 1121656 243758 228403 343131 270812  
## 1361 33 369152 263831 5 5 5  
## 1369 45 1103470 181311 5 5 5  
## 1371 30 1090734 774 29413 107119 51378  
## 1378 41 174686 434026 451156 634462 396750  
## 1385 34 1190577 628730 5 5 5  
## Baseline.histological.Grading Baselinehistological.staging  
## 4 10 3  
## 6 4 4  
## 15 8 2  
## 20 16 4  
## 24 15 4  
## 25 6 3  
## 26 9 4  
## 29 9 3  
## 31 7 1  
## 32 5 2  
## 37 5 2  
## 41 13 1  
## 42 6 1  
## 45 12 3  
## 57 14 3  
## 61 8 4  
## 67 5 1  
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## 75 7 4  
## 87 15 3  
## 88 4 4  
## 92 15 2  
## 96 9 4  
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## 101 9 4  
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## 114 11 1  
## 115 16 3  
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## 160 11 4  
## 164 8 3  
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## 194 11 3  
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## 212 7 3  
## 213 14 2  
## 214 10 4  
## 218 15 4  
## 221 6 2  
## 222 14 3  
## 231 11 2  
## 237 10 1  
## 239 15 3  
## 242 5 3  
## 244 15 2  
## 245 9 3  
## 249 3 4  
## 252 7 3  
## 253 15 2  
## 255 6 1  
## 266 7 2  
## 267 10 1  
## 272 11 2  
## 276 15 3  
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## 292 15 4  
## 296 8 4  
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## 308 10 3  
## 312 3 4  
## 317 5 4  
## 321 5 2  
## 328 3 4  
## 337 9 3  
## 341 15 2  
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## 352 15 2  
## 354 11 3  
## 357 10 4  
## 358 6 4  
## 361 5 3  
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## 384 14 3  
## 387 15 3  
## 388 8 2  
## 389 12 4  
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## 415 15 3  
## 419 7 4  
## 420 7 2  
## 423 6 1  
## 424 10 4  
## 429 6 2  
## 432 9 4  
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## 444 16 3  
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## 615 3 1  
## 616 9 2  
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## 707 11 2  
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## 718 16 3  
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## 754 6 4  
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## 785 16 1  
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## 794 13 2  
## 801 12 3  
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## 816 12 2  
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## 826 14 2  
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## 840 5 2  
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## 844 4 4  
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## 847 7 4  
## 849 6 2  
## 855 13 4  
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## 871 4 1  
## 878 3 2  
## 883 7 2  
## 896 8 2  
## 901 11 3  
## 908 8 1  
## 912 13 3  
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## 938 7 1  
## 939 6 3  
## 944 15 4  
## 945 11 1  
## 948 4 4  
## 952 3 3  
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## 998 7 4  
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## 1006 6 3  
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## 1026 12 2  
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## 1029 4 1  
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## 1034 15 3  
## 1044 10 4  
## 1049 10 4  
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## 1066 3 4  
## 1071 11 3  
## 1073 9 4  
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## 1077 6 3  
## 1080 11 2  
## 1085 16 3  
## 1089 7 2  
## 1093 8 4  
## 1103 10 3  
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## 1117 4 3  
## 1121 5 1  
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## 1135 5 2  
## 1136 16 1  
## 1137 16 1  
## 1138 10 3  
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## 1144 9 4  
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## 1156 5 1  
## 1162 12 2  
## 1171 9 4  
## 1173 5 2  
## 1177 4 3  
## 1178 4 3  
## 1183 9 1  
## 1191 5 2  
## 1194 11 3  
## 1195 10 3  
## 1196 5 1  
## 1199 6 3  
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## 1203 5 2  
## 1204 4 2  
## 1213 6 2  
## 1214 14 3  
## 1219 15 3  
## 1222 11 4  
## 1223 10 3  
## 1230 12 2  
## 1238 3 3  
## 1245 15 4  
## 1246 12 2  
## 1247 10 1  
## 1255 7 3  
## 1256 9 3  
## 1258 12 3  
## 1260 3 3  
## 1262 4 4  
## 1263 9 4  
## 1265 16 3  
## 1267 13 4  
## 1287 11 4  
## 1294 3 3  
## 1299 7 4  
## 1302 5 4  
## 1303 5 3  
## 1308 15 2  
## 1311 9 3  
## 1323 12 3  
## 1327 5 4  
## 1344 11 1  
## 1345 11 1  
## 1347 14 4  
## 1348 12 2  
## 1352 13 3  
## 1361 6 1  
## 1369 8 3  
## 1371 10 3  
## 1378 16 2  
## 1385 13 3

summary(Nau\_female)

## Age Gender BMI Fever Nausea.Vomting  
## Min. :32.00 Min. :2 Min. :22.0 Min. :1.00 Min. :2   
## 1st Qu.:39.00 1st Qu.:2 1st Qu.:25.0 1st Qu.:1.00 1st Qu.:2   
## Median :46.00 Median :2 Median :29.0 Median :2.00 Median :2   
## Mean :46.39 Mean :2 Mean :28.7 Mean :1.53 Mean :2   
## 3rd Qu.:54.00 3rd Qu.:2 3rd Qu.:32.0 3rd Qu.:2.00 3rd Qu.:2   
## Max. :61.00 Max. :2 Max. :35.0 Max. :2.00 Max. :2   
## Headache Diarrhea Fatigue...generalized.bone.ache  
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :2.000 Median :1.000   
## Mean :1.497 Mean :1.512 Mean :1.482   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Jaundice Epigastric.pain WBC RBC   
## Min. :1.000 Min. :1.000 Min. : 2991 Min. :3817833   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.: 5288 1st Qu.:4105140   
## Median :2.000 Median :1.000 Median : 7499 Median :4457650   
## Mean :1.512 Mean :1.476 Mean : 7516 Mean :4423490   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:10018 3rd Qu.:4752549   
## Max. :2.000 Max. :2.000 Max. :12094 Max. :5018034   
## HGB Plat AST.1 ALT.1   
## Min. :10.00 Min. : 93034 Min. : 39.00 Min. : 39.00   
## 1st Qu.:11.00 1st Qu.:135465 1st Qu.: 61.75 1st Qu.: 65.00   
## Median :13.00 Median :166960 Median : 84.50 Median : 88.00   
## Mean :12.56 Mean :164733 Mean : 82.98 Mean : 87.83   
## 3rd Qu.:14.00 3rd Qu.:197524 3rd Qu.:104.25 3rd Qu.:110.00   
## Max. :15.00 Max. :226464 Max. :128.00 Max. :128.00   
## ALT4 ALT.12 ALT.24 ALT.36   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 57.75 1st Qu.: 63.00 1st Qu.: 62.00 1st Qu.: 61.00   
## Median : 80.00 Median : 84.00 Median : 83.50 Median : 83.00   
## Mean : 81.33 Mean : 84.16 Mean : 84.32 Mean : 83.09   
## 3rd Qu.:107.00 3rd Qu.:106.00 3rd Qu.:107.00 3rd Qu.:108.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.48 ALT.after.24.w RNA.Base RNA.4   
## Min. : 39.00 Min. :22.00 Min. : 8331 Min. : 774   
## 1st Qu.: 58.00 1st Qu.:27.00 1st Qu.: 224383 1st Qu.: 269621   
## Median : 81.00 Median :34.00 Median : 574738 Median : 586864   
## Mean : 81.13 Mean :33.40 Mean : 581521 Mean : 596645   
## 3rd Qu.:102.00 3rd Qu.:39.25 3rd Qu.: 918842 3rd Qu.: 904709   
## Max. :128.00 Max. :45.00 Max. :1194936 Max. :1200649   
## RNA.12 RNA.EOT RNA.EF   
## Min. : 5 Min. : 5 Min. : 5   
## 1st Qu.: 5 1st Qu.: 5 1st Qu.: 5   
## Median :242771 Median :288554 Median :268267   
## Mean :284561 Mean :291979 Mean :293248   
## 3rd Qu.:519854 3rd Qu.:490141 3rd Qu.:493850   
## Max. :805218 Max. :808450 Max. :810333   
## Baseline.histological.Grading Baselinehistological.staging  
## Min. : 3.000 Min. :1.000   
## 1st Qu.: 6.000 1st Qu.:2.000   
## Median :10.000 Median :3.000   
## Mean : 9.716 Mean :2.655   
## 3rd Qu.:13.000 3rd Qu.:4.000   
## Max. :16.000 Max. :4.000

#Fatigue  
Fat\_female = Gen\_female[Gen\_female$Fatigue...generalized.bone.ache =='2',]  
Fat\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 6 58 2 22 2 2 2 1  
## 7 42 2 26 1 1 2 2  
## 11 37 2 24 2 1 2 1  
## 13 45 2 25 2 1 1 1  
## 15 40 2 32 2 2 2 1  
## 18 55 2 24 2 1 2 2  
## 25 33 2 24 1 2 2 2  
## 30 47 2 29 1 1 2 1  
## 31 55 2 33 1 2 2 1  
## 33 47 2 25 2 1 2 2  
## 37 60 2 32 2 2 1 2  
## 42 37 2 23 2 2 1 1  
## 45 47 2 35 1 2 2 1  
## 52 56 2 23 1 1 1 2  
## 56 50 2 34 1 1 1 2  
## 59 32 2 27 1 1 1 1  
## 61 51 2 26 2 2 2 2  
## 64 48 2 33 2 1 2 2  
## 67 36 2 31 1 2 1 2  
## 69 40 2 23 1 1 1 2  
## 73 43 2 23 2 2 1 2  
## 75 44 2 28 2 2 1 2  
## 88 39 2 28 1 2 1 1  
## 91 58 2 34 1 1 2 2  
## 92 45 2 25 1 2 1 2  
## 99 36 2 34 2 1 2 1  
## 100 60 2 28 1 2 2 1  
## 107 32 2 34 1 1 2 2  
## 115 52 2 32 2 2 1 2  
## 116 32 2 33 1 1 1 2  
## 119 57 2 33 1 1 2 2  
## 123 59 2 34 2 1 2 1  
## 128 55 2 33 2 2 1 1  
## 131 57 2 29 2 1 2 1  
## 138 39 2 30 2 1 1 1  
## 142 52 2 26 1 2 2 1  
## 151 57 2 29 2 1 2 1  
## 153 59 2 28 1 1 2 2  
## 160 51 2 22 2 2 1 2  
## 161 45 2 23 1 1 2 2  
## 165 51 2 35 1 1 1 1  
## 173 51 2 23 1 2 1 1  
## 188 53 2 29 2 1 1 2  
## 193 41 2 31 1 1 1 2  
## 195 40 2 24 1 1 2 1  
## 196 36 2 29 2 1 2 2  
## 202 39 2 32 1 2 2 1  
## 205 41 2 35 2 1 1 2  
## 207 58 2 25 1 1 1 2  
## 208 35 2 33 1 2 2 1  
## 212 43 2 22 2 2 1 1  
## 215 46 2 24 2 1 1 1  
## 218 37 2 34 1 2 2 1  
## 220 35 2 35 1 1 2 1  
## 222 43 2 27 2 2 2 2  
## 226 38 2 25 1 1 2 1  
## 233 58 2 26 1 1 1 2  
## 234 42 2 27 2 1 1 1  
## 237 50 2 30 2 2 1 2  
## 242 55 2 35 1 2 1 2  
## 250 48 2 28 2 1 1 1  
## 255 32 2 30 1 2 1 2  
## 258 37 2 34 1 1 1 1  
## 260 52 2 31 2 1 1 2  
## 265 49 2 24 2 1 2 2  
## 266 57 2 29 1 2 1 1  
## 267 42 2 27 1 2 2 2  
## 271 46 2 25 2 1 1 2  
## 272 58 2 23 1 2 1 2  
## 276 58 2 35 2 2 1 1  
## 278 38 2 34 2 1 1 1  
## 280 36 2 34 2 1 2 1  
## 283 58 2 22 1 1 1 1  
## 286 53 2 31 2 2 2 2  
## 290 46 2 28 1 1 1 1  
## 293 33 2 31 1 1 2 1  
## 305 40 2 30 1 1 2 1  
## 306 33 2 27 2 1 1 1  
## 307 60 2 32 2 1 2 2  
## 308 43 2 26 1 2 1 2  
## 312 45 2 26 1 2 2 2  
## 321 61 2 30 2 2 1 1  
## 323 57 2 24 1 1 1 2  
## 337 52 2 31 1 2 2 2  
## 345 59 2 24 2 1 2 2  
## 346 51 2 34 2 1 2 2  
## 348 56 2 34 1 1 2 1  
## 350 59 2 25 1 1 2 2  
## 353 51 2 32 1 1 2 2  
## 354 58 2 34 1 2 2 2  
## 355 39 2 28 2 1 1 1  
## 357 39 2 23 1 2 2 1  
## 360 52 2 23 2 1 1 2  
## 369 32 2 22 2 1 1 1  
## 371 49 2 30 2 1 2 2  
## 377 41 2 30 2 1 1 1  
## 379 56 2 25 2 2 2 2  
## 381 32 2 24 1 1 1 2  
## 385 55 2 28 1 1 1 1  
## 388 40 2 32 1 2 1 1  
## 389 56 2 30 2 2 2 1  
## 390 33 2 29 2 1 1 1  
## 391 56 2 25 2 1 2 1  
## 393 47 2 28 1 1 1 2  
## 394 42 2 30 2 1 2 2  
## 403 59 2 29 2 2 2 1  
## 406 51 2 28 2 1 2 2  
## 410 40 2 27 2 2 1 2  
## 416 35 2 32 2 1 1 2  
## 417 44 2 24 2 1 1 1  
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## 430 51 2 27 2 1 2 1  
## 431 55 2 30 1 1 1 2  
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## 435 51 2 27 1 1 2 2  
## 442 53 2 26 2 2 1 2  
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## 452 61 2 26 2 1 2 2  
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## 492 40 2 33 2 2 1 1  
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## 506 38 2 28 2 2 2 1  
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## 570 43 2 27 2 1 2 2  
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## 738 54 2 30 1 2 2 1  
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## 743 59 2 27 2 1 1 1  
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## 1142 27 1095879 672692 463861 506313 501451  
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## 1147 40 797674 1133138 729033 95770 227005  
## 1148 45 1112368 282134 638443 494846 679125  
## 1160 43 865166 782463 772484 441957 656393  
## 1163 24 871959 1037707 693817 37841 234830  
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## 1171 36 898160 434384 608253 13729 702984  
## 1173 31 1106469 1160952 472862 600228 546788  
## 1177 26 185681 591360 777293 163500 517562  
## 1178 39 1111311 870238 329978 215148 119853  
## 1183 43 357491 140155 5 5 5  
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## 1191 36 339460 859877 489628 651578 136889  
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## 1219 24 544755 1173393 531800 607666 288955  
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## 1253 35 680557 885682 144870 215357 262795  
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## 1259 25 718576 373342 180015 119006 686401  
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## 15 8 2  
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## 265 11 4  
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## 355 13 3  
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## 385 8 3  
## 388 8 2  
## 389 12 4  
## 390 13 2  
## 391 13 4  
## 393 14 1  
## 394 7 1  
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## 779 8 1  
## 780 14 2  
## 781 16 3  
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## 896 8 2  
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## 976 3 1  
## 980 11 3  
## 981 15 2  
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## 1063 6 2  
## 1065 16 2  
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## 1073 9 4  
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## 1077 6 3  
## 1086 8 1  
## 1093 8 4  
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## 1138 10 3  
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## 1145 16 4  
## 1147 4 3  
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## 1208 3 3  
## 1210 14 1  
## 1217 16 2  
## 1219 15 3  
## 1221 16 1  
## 1225 8 2  
## 1232 14 2  
## 1233 9 1  
## 1243 10 2  
## 1245 15 4  
## 1246 12 2  
## 1247 10 1  
## 1249 12 1  
## 1250 12 1  
## 1253 6 1  
## 1254 3 2  
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## 1294 3 3  
## 1301 4 4  
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## 1303 5 3  
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## 1323 12 3  
## 1327 5 4  
## 1328 6 3  
## 1330 14 4  
## 1336 4 2  
## 1340 14 3  
## 1342 4 2  
## 1344 11 1  
## 1347 14 4  
## 1361 6 1  
## 1365 7 1

summary(Fat\_female)

## Age Gender BMI Fever   
## Min. :32.00 Min. :2 Min. :22.00 Min. :1.000   
## 1st Qu.:38.25 1st Qu.:2 1st Qu.:25.00 1st Qu.:1.000   
## Median :46.00 Median :2 Median :28.00 Median :2.000   
## Mean :46.16 Mean :2 Mean :28.47 Mean :1.548   
## 3rd Qu.:54.00 3rd Qu.:2 3rd Qu.:32.00 3rd Qu.:2.000   
## Max. :61.00 Max. :2 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.00 Min. :1.00   
## 1st Qu.:1.000 1st Qu.:1.00 1st Qu.:1.00   
## Median :1.000 Median :1.00 Median :2.00   
## Mean :1.446 Mean :1.48 Mean :1.52   
## 3rd Qu.:2.000 3rd Qu.:2.00 3rd Qu.:2.00   
## Max. :2.000 Max. :2.00 Max. :2.00   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :2 Min. :1.000 Min. :1.000   
## 1st Qu.:2 1st Qu.:1.000 1st Qu.:1.000   
## Median :2 Median :2.000 Median :1.000   
## Mean :2 Mean :1.528 Mean :1.477   
## 3rd Qu.:2 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2 Max. :2.000 Max. :2.000   
## WBC RBC HGB Plat   
## Min. : 2991 Min. :3817833 Min. :10.00 Min. : 93034   
## 1st Qu.: 5304 1st Qu.:4094934 1st Qu.:11.00 1st Qu.:123867   
## Median : 7730 Median :4424366 Median :13.00 Median :160237   
## Mean : 7646 Mean :4409780 Mean :12.61 Mean :159369   
## 3rd Qu.:10059 3rd Qu.:4722780 3rd Qu.:14.00 3rd Qu.:191110   
## Max. :12093 Max. :5013681 Max. :15.00 Max. :226464   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 62.00 1st Qu.: 62.25 1st Qu.: 60.00 1st Qu.: 62.00   
## Median : 87.00 Median : 81.00 Median : 81.00 Median : 82.00   
## Mean : 84.11 Mean : 83.47 Mean : 82.65 Mean : 83.95   
## 3rd Qu.:104.75 3rd Qu.:104.75 3rd Qu.:107.00 3rd Qu.:108.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w  
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. :22.0   
## 1st Qu.: 62.00 1st Qu.: 62.00 1st Qu.: 60.25 1st Qu.:28.0   
## Median : 80.00 Median : 85.00 Median : 82.50 Median :34.0   
## Mean : 82.53 Mean : 83.43 Mean : 82.96 Mean :33.8   
## 3rd Qu.:104.75 3rd Qu.:104.00 3rd Qu.:106.00 3rd Qu.:40.0   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.0   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 6677 Min. : 813 Min. : 5 Min. : 5   
## 1st Qu.: 246594 1st Qu.: 248778 1st Qu.: 5 1st Qu.: 5   
## Median : 575798 Median : 584094 Median :265676 Median :271371   
## Mean : 573333 Mean : 576515 Mean :286757 Mean :296144   
## 3rd Qu.: 865771 3rd Qu.: 871630 3rd Qu.:510490 3rd Qu.:538238   
## Max. :1201086 Max. :1200649 Max. :798772 Max. :804770   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 5 1st Qu.: 6.000   
## Median :238190 Median :10.000   
## Mean :290255 Mean : 9.605   
## 3rd Qu.:514458 3rd Qu.:14.000   
## Max. :810333 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:1.000   
## Median :3.000   
## Mean :2.545   
## 3rd Qu.:4.000   
## Max. :4.000

#Jaundice  
Jau\_female = Gen\_female[Gen\_female$Jaundice =='2',]  
Jau\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 4 49 2 33 1 2 1 2  
## 6 58 2 22 2 2 2 1  
## 7 42 2 26 1 1 2 2  
## 11 37 2 24 2 1 2 1  
## 18 55 2 24 2 1 2 2  
## 37 60 2 32 2 2 1 2  
## 41 58 2 33 1 2 2 2  
## 42 37 2 23 2 2 1 1  
## 45 47 2 35 1 2 2 1  
## 51 33 2 31 1 1 1 2  
## 52 56 2 23 1 1 1 2  
## 61 51 2 26 2 2 2 2  
## 62 50 2 23 2 1 2 1  
## 67 36 2 31 1 2 1 2  
## 68 50 2 22 2 1 2 1  
## 75 44 2 28 2 2 1 2  
## 77 32 2 24 2 1 1 2  
## 85 34 2 34 2 1 2 1  
## 87 52 2 27 1 2 2 2  
## 91 58 2 34 1 1 2 2  
## 92 45 2 25 1 2 1 2  
## 93 60 2 25 1 1 2 2  
## 96 37 2 28 1 2 2 1  
## 99 36 2 34 2 1 2 1  
## 103 43 2 23 1 1 1 1  
## 110 61 2 32 1 1 1 2  
## 114 56 2 28 1 2 1 1  
## 115 52 2 32 2 2 1 2  
## 116 32 2 33 1 1 1 2  
## 117 59 2 34 2 1 1 1  
## 123 59 2 34 2 1 2 1  
## 130 41 2 34 1 2 2 1  
## 131 57 2 29 2 1 2 1  
## 133 39 2 23 2 2 1 1  
## 138 39 2 30 2 1 1 1  
## 141 41 2 25 1 1 1 2  
## 145 49 2 34 2 1 2 2  
## 149 33 2 22 1 2 2 2  
## 151 57 2 29 2 1 2 1  
## 153 59 2 28 1 1 2 2  
## 172 47 2 23 1 1 2 1  
## 173 51 2 23 1 2 1 1  
## 184 39 2 34 1 2 2 2  
## 185 59 2 31 2 2 1 2  
## 188 53 2 29 2 1 1 2  
## 193 41 2 31 1 1 1 2  
## 194 47 2 33 2 2 1 1  
## 195 40 2 24 1 1 2 1  
## 202 39 2 32 1 2 2 1  
## 205 41 2 35 2 1 1 2  
## 207 58 2 25 1 1 1 2  
## 212 43 2 22 2 2 1 1  
## 213 51 2 34 1 2 1 1  
## 218 37 2 34 1 2 2 1  
## 222 43 2 27 2 2 2 2  
## 226 38 2 25 1 1 2 1  
## 233 58 2 26 1 1 1 2  
## 234 42 2 27 2 1 1 1  
## 244 55 2 26 2 2 2 2  
## 245 59 2 31 2 2 2 2  
## 251 59 2 27 1 1 2 1  
## 252 34 2 34 2 2 2 2  
## 253 37 2 31 2 2 1 1  
## 263 50 2 25 1 1 2 1  
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## 265 49 2 24 2 1 2 2  
## 267 42 2 27 1 2 2 2  
## 269 49 2 31 1 1 1 2  
## 270 53 2 31 2 1 1 2  
## 271 46 2 25 2 1 1 2  
## 272 58 2 23 1 2 1 2  
## 276 58 2 35 2 2 1 1  
## 278 38 2 34 2 1 1 1  
## 281 33 2 23 1 1 1 1  
## 284 42 2 31 2 1 1 1  
## 286 53 2 31 2 2 2 2  
## 292 44 2 31 2 2 2 2  
## 293 33 2 31 1 1 2 1  
## 296 57 2 23 2 2 1 1  
## 298 43 2 26 2 1 1 1  
## 305 40 2 30 1 1 2 1  
## 311 56 2 35 2 1 1 1  
## 317 56 2 32 2 2 2 1  
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## 335 51 2 23 2 1 2 2  
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## 338 58 2 24 1 1 1 2  
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## 353 51 2 32 1 1 2 2  
## 354 58 2 34 1 2 2 2  
## 357 39 2 23 1 2 2 1  
## 359 47 2 25 2 1 1 2  
## 360 52 2 23 2 1 1 2  
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## 384 33 2 35 2 2 1 2  
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## 431 55 2 30 1 1 1 2  
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## 518 52 2 32 1 2 1 2  
## 519 38 2 23 1 2 1 1  
## 524 47 2 33 1 1 1 1  
## 529 49 2 24 1 1 2 1  
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## 1103 24 245311 121674 5 5 5  
## 1106 42 545415 616227 5 5 5  
## 1109 34 44908 854758 504784 141741 602402  
## 1117 43 754890 614212 5 5 5  
## 1131 38 959371 600996 493891 295664 759722  
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## 1136 35 15076 712169 419985 669696 574911  
## 1137 41 327235 364211 306840 656122 792308  
## 1142 27 1095879 672692 463861 506313 501451  
## 1143 34 993497 764847 5 5 5  
## 1144 38 266207 8248 5 5 5  
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## 1156 30 1181833 811141 534294 285857 260052  
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## 1163 24 871959 1037707 693817 37841 234830  
## 1171 36 898160 434384 608253 13729 702984  
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## 1178 39 1111311 870238 329978 215148 119853  
## 1180 23 50487 118862 157333 574920 271820  
## 1183 43 357491 140155 5 5 5  
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## 1189 38 1059759 856417 683912 518155 191207  
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## 1200 40 251564 804432 5 5 5  
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## 1233 25 637799 165478 27132 110338 431734  
## 1246 40 14667 22967 770184 298929 211911  
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## Baseline.histological.Grading Baselinehistological.staging  
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## 11 15 2  
## 18 4 3  
## 37 5 2  
## 41 13 1  
## 42 6 1  
## 45 12 3  
## 51 8 4  
## 52 13 2  
## 61 8 4  
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## 67 5 1  
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## 77 8 4  
## 85 5 3  
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## 91 13 2  
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## 93 3 4  
## 96 9 4  
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## 195 14 3  
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## 205 6 4  
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## 218 15 4  
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## 226 11 1  
## 233 8 3  
## 234 14 2  
## 244 15 2  
## 245 9 3  
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## 252 7 3  
## 253 15 2  
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## 265 11 4  
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## 318 10 3  
## 323 16 4  
## 326 3 4  
## 328 3 4  
## 335 8 2  
## 337 9 3  
## 338 7 2  
## 343 15 3  
## 346 11 4  
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## 377 8 3  
## 379 11 1  
## 380 9 3  
## 383 9 1  
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## 385 8 3  
## 390 13 2  
## 392 8 1  
## 394 7 1  
## 397 7 3  
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## 417 9 1  
## 419 7 4  
## 420 7 2  
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## 423 6 1  
## 431 3 3  
## 435 12 3  
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## 437 9 3  
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## 707 11 2  
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## 738 6 3  
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## 792 14 2  
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## 841 15 2  
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## 887 16 4  
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## 981 15 2  
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## 987 6 1  
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## 1056 8 4  
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## 1074 8 4  
## 1077 6 3  
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## 1086 8 1  
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## 1106 5 3  
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## 1135 5 2  
## 1136 16 1  
## 1137 16 1  
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## 1143 14 3  
## 1144 9 4  
## 1147 4 3  
## 1148 9 3  
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## 1156 5 1  
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## 1163 7 4  
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## 1172 11 2  
## 1178 4 3  
## 1180 3 2  
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## 1185 8 3  
## 1189 4 2  
## 1191 5 2  
## 1194 11 3  
## 1196 5 1  
## 1199 6 3  
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## 1203 5 2  
## 1208 3 3  
## 1213 6 2  
## 1214 14 3  
## 1217 16 2  
## 1219 15 3  
## 1221 16 1  
## 1225 8 2  
## 1229 10 4  
## 1230 12 2  
## 1233 9 1  
## 1246 12 2  
## 1247 10 1  
## 1248 6 2  
## 1253 6 1  
## 1254 3 2  
## 1255 7 3  
## 1260 3 3  
## 1261 14 2  
## 1265 16 3  
## 1277 12 4  
## 1281 5 3  
## 1287 11 4  
## 1291 13 4  
## 1294 3 3  
## 1302 5 4  
## 1303 5 3  
## 1313 12 3  
## 1320 15 2  
## 1323 12 3  
## 1330 14 4  
## 1336 4 2  
## 1337 14 1  
## 1344 11 1  
## 1345 11 1  
## 1352 13 3  
## 1385 13 3

summary(Jau\_female)

## Age Gender BMI Fever   
## Min. :32.00 Min. :2 Min. :22.00 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:2 1st Qu.:24.00 1st Qu.:1.000   
## Median :46.00 Median :2 Median :28.00 Median :2.000   
## Mean :46.31 Mean :2 Mean :28.25 Mean :1.524   
## 3rd Qu.:55.00 3rd Qu.:2 3rd Qu.:32.00 3rd Qu.:2.000   
## Max. :61.00 Max. :2 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.000   
## Median :1.000 Median :1.000 Median :2.000   
## Mean :1.494 Mean :1.476 Mean :1.526   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.000   
## Max. :2.000 Max. :2.000 Max. :2.000   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.00 Min. :2 Min. :1.000   
## 1st Qu.:1.00 1st Qu.:2 1st Qu.:1.000   
## Median :2.00 Median :2 Median :1.000   
## Mean :1.55 Mean :2 Mean :1.476   
## 3rd Qu.:2.00 3rd Qu.:2 3rd Qu.:2.000   
## Max. :2.00 Max. :2 Max. :2.000   
## WBC RBC HGB Plat   
## Min. : 2991 Min. :3817833 Min. :10.00 Min. : 93013   
## 1st Qu.: 5291 1st Qu.:4090120 1st Qu.:11.00 1st Qu.:123399   
## Median : 7551 Median :4438783 Median :13.00 Median :157948   
## Mean : 7685 Mean :4419381 Mean :12.54 Mean :156953   
## 3rd Qu.:10177 3rd Qu.:4747468 3rd Qu.:14.00 3rd Qu.:186927   
## Max. :12093 Max. :5017591 Max. :15.00 Max. :226428   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 60 1st Qu.: 63.00 1st Qu.: 61.00 1st Qu.: 63.00   
## Median : 84 Median : 83.00 Median : 84.00 Median : 84.00   
## Mean : 83 Mean : 84.12 Mean : 84.26 Mean : 84.31   
## 3rd Qu.:104 3rd Qu.:105.25 3rd Qu.:109.00 3rd Qu.:106.00   
## Max. :128 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 39.00 Min. : 39.0 Min. :22.00   
## 1st Qu.: 63.00 1st Qu.: 60.00 1st Qu.: 63.0 1st Qu.:27.00   
## Median : 83.00 Median : 82.00 Median : 82.0 Median :33.00   
## Mean : 83.56 Mean : 82.96 Mean : 83.2 Mean :33.49   
## 3rd Qu.:107.00 3rd Qu.:105.25 3rd Qu.:103.0 3rd Qu.:39.00   
## Max. :128.00 Max. :128.00 Max. :128.0 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 6677 Min. : 813 Min. : 5 Min. : 5   
## 1st Qu.: 271464 1st Qu.: 288491 1st Qu.: 2358 1st Qu.: 6125   
## Median : 590889 Median : 583353 Median :250789 Median :297893   
## Mean : 589037 Mean : 589643 Mean :295141 Mean :306156   
## 3rd Qu.: 886381 3rd Qu.: 868675 3rd Qu.:522769 3rd Qu.:520984   
## Max. :1201086 Max. :1200649 Max. :805218 Max. :806669   
## RNA.EF Baseline.histological.Grading  
## Min. : 5.0 Min. : 3.00   
## 1st Qu.: 428.8 1st Qu.: 6.00   
## Median :258330.5 Median :10.00   
## Mean :299186.3 Mean : 9.75   
## 3rd Qu.:522443.0 3rd Qu.:13.00   
## Max. :807076.0 Max. :16.00   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:2.000   
## Median :3.000   
## Mean :2.571   
## 3rd Qu.:3.250   
## Max. :4.000

#Stomack pain  
sto\_female = Gen\_female[Gen\_female$Epigastric.pain =='2',]  
sto\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 7 42 2 26 1 1 2 2  
## 8 48 2 30 1 1 2 2  
## 13 45 2 25 2 1 1 1  
## 18 55 2 24 2 1 2 2  
## 20 35 2 23 2 2 1 1  
## 24 39 2 29 1 2 1 2  
## 25 33 2 24 1 2 2 2  
## 28 39 2 33 2 1 2 1  
## 29 57 2 26 1 2 2 1  
## 30 47 2 29 1 1 2 1  
## 31 55 2 33 1 2 2 1  
## 33 47 2 25 2 1 2 2  
## 41 58 2 33 1 2 2 2  
## 45 47 2 35 1 2 2 1  
## 50 59 2 26 2 1 1 1  
## 52 56 2 23 1 1 1 2  
## 59 32 2 27 1 1 1 1  
## 60 33 2 24 1 1 1 2  
## 61 51 2 26 2 2 2 2  
## 62 50 2 23 2 1 2 1  
## 64 48 2 33 2 1 2 2  
## 68 50 2 22 2 1 2 1  
## 69 40 2 23 1 1 1 2  
## 72 54 2 27 2 1 1 2  
## 75 44 2 28 2 2 1 2  
## 77 32 2 24 2 1 1 2  
## 85 34 2 34 2 1 2 1  
## 88 39 2 28 1 2 1 1  
## 92 45 2 25 1 2 1 2  
## 100 60 2 28 1 2 2 1  
## 113 60 2 35 2 2 2 2  
## 114 56 2 28 1 2 1 1  
## 115 52 2 32 2 2 1 2  
## 119 57 2 33 1 1 2 2  
## 133 39 2 23 2 2 1 1  
## 135 34 2 33 1 2 2 1  
## 138 39 2 30 2 1 1 1  
## 139 45 2 35 2 2 1 2  
## 141 41 2 25 1 1 1 2  
## 142 52 2 26 1 2 2 1  
## 145 49 2 34 2 1 2 2  
## 149 33 2 22 1 2 2 2  
## 160 51 2 22 2 2 1 2  
## 165 51 2 35 1 1 1 1  
## 176 40 2 35 1 1 1 1  
## 184 39 2 34 1 2 2 2  
## 196 36 2 29 2 1 2 2  
## 199 54 2 25 1 1 1 1  
## 200 54 2 29 2 1 2 2  
## 205 41 2 35 2 1 1 2  
## 208 35 2 33 1 2 2 1  
## 212 43 2 22 2 2 1 1  
## 213 51 2 34 1 2 1 1  
## 214 53 2 24 1 2 1 1  
## 218 37 2 34 1 2 2 1  
## 220 35 2 35 1 1 2 1  
## 231 45 2 30 2 2 1 2  
## 237 50 2 30 2 2 1 2  
## 239 54 2 35 1 2 1 2  
## 249 38 2 31 2 2 1 1  
## 251 59 2 27 1 1 2 1  
## 258 37 2 34 1 1 1 1  
## 260 52 2 31 2 1 1 2  
## 263 50 2 25 1 1 2 1  
## 264 36 2 27 1 1 1 2  
## 269 49 2 31 1 1 1 2  
## 270 53 2 31 2 1 1 2  
## 292 44 2 31 2 2 2 2  
## 296 57 2 23 2 2 1 1  
## 298 43 2 26 2 1 1 1  
## 305 40 2 30 1 1 2 1  
## 308 43 2 26 1 2 1 2  
## 312 45 2 26 1 2 2 2  
## 317 56 2 32 2 2 2 1  
## 321 61 2 30 2 2 1 1  
## 326 44 2 32 2 1 2 2  
## 328 58 2 31 2 2 2 1  
## 333 57 2 30 2 1 2 1  
## 338 58 2 24 1 1 1 2  
## 341 50 2 25 2 2 2 2  
## 345 59 2 24 2 1 2 2  
## 350 59 2 25 1 1 2 2  
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## 353 51 2 32 1 1 2 2  
## 355 39 2 28 2 1 1 1  
## 359 47 2 25 2 1 1 2  
## 360 52 2 23 2 1 1 2  
## 364 48 2 26 1 2 1 1  
## 371 49 2 30 2 1 2 2  
## 377 41 2 30 2 1 1 1  
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## 387 45 2 25 1 2 1 1  
## 388 40 2 32 1 2 1 1  
## 393 47 2 28 1 1 1 2  
## 397 49 2 23 1 1 1 2  
## 410 40 2 27 2 2 1 2  
## 415 34 2 33 2 2 1 2  
## 416 35 2 32 2 1 1 2  
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## 435 51 2 27 1 1 2 2  
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## 464 36 2 28 1 1 2 2  
## 467 39 2 35 1 1 2 1  
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## 476 57 2 22 2 2 2 2  
## 477 45 2 32 2 1 2 1  
## 483 35 2 32 1 1 2 2  
## 484 52 2 34 2 2 1 1  
## 492 40 2 33 2 2 1 1  
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## 516 60 2 33 1 1 2 2  
## 517 56 2 27 1 1 1 2  
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## 524 47 2 33 1 1 1 1  
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## 535 60 2 32 1 2 1 2  
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## 1132 24 415800 348477 5 5 5  
## 1137 41 327235 364211 306840 656122 792308  
## 1147 40 797674 1133138 729033 95770 227005  
## 1155 34 1069864 1065849 325416 364373 388949  
## 1156 30 1181833 811141 534294 285857 260052  
## 1158 40 574916 852789 5 5 5  
## 1162 34 51267 345153 566191 323348 583448  
## 1167 25 170547 112249 439124 763496 666216  
## 1168 28 774460 1047150 5 5 5  
## 1171 36 898160 434384 608253 13729 702984  
## 1172 39 993447 131767 567333 248711 227876  
## 1177 26 185681 591360 777293 163500 517562  
## 1180 23 50487 118862 157333 574920 271820  
## 1183 43 357491 140155 5 5 5  
## 1184 23 1046359 891604 764556 709044 219924  
## 1196 27 514943 1003787 603971 365352 785026  
## 1199 43 500935 559464 529438 384057 621237  
## 1200 40 251564 804432 5 5 5  
## 1203 35 951706 234419 550574 566112 803654  
## 1204 32 913469 421400 380007 791849 99416  
## 1210 41 898542 71333 5 5 5  
## 1211 44 1109982 637970 5 5 5  
## 1214 41 679931 124589 803685 311688 179436  
## 1217 24 499369 542824 755211 46821 192927  
## 1221 29 199022 98075 166851 320803 752517  
## 1222 27 108997 788057 618057 564244 506728  
## 1230 26 559273 1122661 443091 360077 339703  
## 1232 40 498269 3875 519485 761069 131805  
## 1242 38 619268 1042310 7212 794696 102147  
## 1246 40 14667 22967 770184 298929 211911  
## 1248 32 498036 1158264 623822 57320 615639  
## 1250 22 31384 1185152 239797 792157 32414  
## 1253 35 680557 885682 144870 215357 262795  
## 1254 24 650160 108087 642237 550151 575669  
## 1255 34 576531 640196 709767 103830 140847  
## 1261 37 597056 426078 5 5 5  
## 1263 35 573257 10980 505988 414055 351522  
## 1266 36 599542 586199 747060 82352 660591  
## 1267 45 698050 1120814 510861 361625 494298  
## 1277 44 780887 1066136 496045 756611 206077  
## 1281 31 167941 83388 521988 792695 134900  
## 1282 27 863117 1122984 33780 758080 51042  
## 1283 44 202000 969590 199745 564795 17232  
## 1287 39 89313 458593 655263 664958 785560  
## 1293 45 519256 1114901 5 5 5  
## 1294 45 936637 224867 5 5 5  
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## 1337 27 223117 808952 31690 393956 437691  
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## 1342 32 497247 1126028 5 5 5  
## 1347 32 404759 655201 46264 185799 363462  
## 1348 25 176277 460756 5 5 5  
## 1352 36 1121656 243758 228403 343131 270812  
## 1361 33 369152 263831 5 5 5  
## 1369 45 1103470 181311 5 5 5  
## 1371 30 1090734 774 29413 107119 51378  
## Baseline.histological.Grading Baselinehistological.staging  
## 7 12 4  
## 8 12 3  
## 13 8 1  
## 18 4 3  
## 20 16 4  
## 24 15 4  
## 25 6 3  
## 28 15 2  
## 29 9 3  
## 30 9 1  
## 31 7 1  
## 33 8 1  
## 41 13 1  
## 45 12 3  
## 50 15 1  
## 52 13 2  
## 59 13 1  
## 60 3 1  
## 61 8 4  
## 62 12 3  
## 64 9 1  
## 68 14 4  
## 69 4 2  
## 72 12 1  
## 75 7 4  
## 77 8 4  
## 85 5 3  
## 88 4 4  
## 92 15 2  
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## 113 14 1  
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## 115 16 3  
## 119 12 1  
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## 135 15 3  
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## 139 4 1  
## 141 11 1  
## 142 15 3  
## 145 6 2  
## 149 12 4  
## 160 11 4  
## 165 9 1  
## 176 15 3  
## 184 13 3  
## 196 10 1  
## 199 14 3  
## 200 16 1  
## 205 6 4  
## 208 13 4  
## 212 7 3  
## 213 14 2  
## 214 10 4  
## 218 15 4  
## 220 16 2  
## 231 11 2  
## 237 10 1  
## 239 15 3  
## 249 3 4  
## 251 13 1  
## 258 4 3  
## 260 7 4  
## 263 15 3  
## 264 12 3  
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## 270 3 4  
## 292 15 4  
## 296 8 4  
## 298 5 2  
## 305 13 3  
## 308 10 3  
## 312 3 4  
## 317 5 4  
## 321 5 2  
## 326 3 4  
## 328 3 4  
## 333 15 3  
## 338 7 2  
## 341 15 2  
## 345 3 4  
## 350 11 2  
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## 353 3 2  
## 355 13 3  
## 359 12 3  
## 360 7 1  
## 364 5 4  
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## 383 9 1  
## 387 15 3  
## 388 8 2  
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## 415 15 3  
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## 431 3 3  
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## 435 12 3  
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## 444 16 3  
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## 452 12 2  
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## 462 8 2  
## 464 5 3  
## 467 3 1  
## 471 12 2  
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## 477 8 3  
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## 484 4 2  
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## 494 5 3  
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## 506 16 1  
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## 612 14 1  
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## 619 6 2  
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## 639 4 4  
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## 683 14 2  
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## 693 5 2  
## 695 11 1  
## 698 8 2  
## 699 9 2  
## 706 8 1  
## 707 11 2  
## 712 11 1  
## 713 16 1  
## 716 4 4  
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## 732 11 1  
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## 754 6 4  
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## 818 8 1  
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## 836 4 4  
## 837 15 4  
## 838 14 3  
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## 841 15 2  
## 844 4 4  
## 845 14 1  
## 852 15 2  
## 853 13 3  
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## 870 5 2  
## 871 4 1  
## 872 4 4  
## 873 8 4  
## 874 9 1  
## 878 3 2  
## 887 16 4  
## 892 15 1  
## 896 8 2  
## 901 11 3  
## 908 8 1  
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## 929 14 4  
## 938 7 1  
## 941 7 4  
## 944 15 4  
## 948 4 4  
## 951 6 4  
## 955 11 4  
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## 965 15 1  
## 966 16 3  
## 973 10 1  
## 975 12 1  
## 976 3 1  
## 981 15 2  
## 982 4 4  
## 983 16 4  
## 985 5 1  
## 998 7 4  
## 999 14 3  
## 1002 12 3  
## 1004 14 3  
## 1009 7 3  
## 1013 15 4  
## 1020 8 3  
## 1023 4 1  
## 1026 12 2  
## 1028 16 4  
## 1029 4 1  
## 1030 7 4  
## 1035 10 2  
## 1041 14 1  
## 1056 8 4  
## 1062 14 4  
## 1066 3 4  
## 1068 7 4  
## 1073 9 4  
## 1080 11 2  
## 1093 8 4  
## 1094 4 1  
## 1095 10 2  
## 1119 11 4  
## 1121 5 1  
## 1132 6 3  
## 1137 16 1  
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## 1155 11 4  
## 1156 5 1  
## 1158 7 2  
## 1162 12 2  
## 1167 13 1  
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## 1171 9 4  
## 1172 11 2  
## 1177 4 3  
## 1180 3 2  
## 1183 9 1  
## 1184 10 4  
## 1196 5 1  
## 1199 6 3  
## 1200 15 2  
## 1203 5 2  
## 1204 4 2  
## 1210 14 1  
## 1211 14 1  
## 1214 14 3  
## 1217 16 2  
## 1221 16 1  
## 1222 11 4  
## 1230 12 2  
## 1232 14 2  
## 1242 13 1  
## 1246 12 2  
## 1248 6 2  
## 1250 12 1  
## 1253 6 1  
## 1254 3 2  
## 1255 7 3  
## 1261 14 2  
## 1263 9 4  
## 1266 14 3  
## 1267 13 4  
## 1277 12 4  
## 1281 5 3  
## 1282 13 4  
## 1283 4 2  
## 1287 11 4  
## 1293 9 1  
## 1294 3 3  
## 1299 7 4  
## 1302 5 4  
## 1303 5 3  
## 1308 15 2  
## 1326 12 3  
## 1336 4 2  
## 1337 14 1  
## 1341 14 1  
## 1342 4 2  
## 1347 14 4  
## 1348 12 2  
## 1352 13 3  
## 1361 6 1  
## 1369 8 3  
## 1371 10 3

summary(sto\_female)

## Age Gender BMI Fever   
## Min. :32.00 Min. :2 Min. :22.00 Min. :1.000   
## 1st Qu.:39.00 1st Qu.:2 1st Qu.:25.00 1st Qu.:1.000   
## Median :47.00 Median :2 Median :29.00 Median :2.000   
## Mean :46.41 Mean :2 Mean :28.68 Mean :1.529   
## 3rd Qu.:54.00 3rd Qu.:2 3rd Qu.:33.00 3rd Qu.:2.000   
## Max. :61.00 Max. :2 Max. :35.00 Max. :2.000   
## Nausea.Vomting Headache Diarrhea   
## Min. :1.000 Min. :1.000 Min. :1.00   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:1.00   
## Median :1.000 Median :1.000 Median :2.00   
## Mean :1.468 Mean :1.474 Mean :1.52   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2.00   
## Max. :2.000 Max. :2.000 Max. :2.00   
## Fatigue...generalized.bone.ache Jaundice Epigastric.pain  
## Min. :1.000 Min. :1.000 Min. :2   
## 1st Qu.:1.000 1st Qu.:1.000 1st Qu.:2   
## Median :2.000 Median :1.000 Median :2   
## Mean :1.508 Mean :1.486 Mean :2   
## 3rd Qu.:2.000 3rd Qu.:2.000 3rd Qu.:2   
## Max. :2.000 Max. :2.000 Max. :2   
## WBC RBC HGB Plat   
## Min. : 3050 Min. :3817833 Min. :10.00 Min. : 93013   
## 1st Qu.: 5434 1st Qu.:4091459 1st Qu.:11.00 1st Qu.:123837   
## Median : 7721 Median :4404037 Median :13.00 Median :156672   
## Mean : 7736 Mean :4395595 Mean :12.61 Mean :156801   
## 3rd Qu.:10165 3rd Qu.:4711891 3rd Qu.:14.00 3rd Qu.:187988   
## Max. :12088 Max. :5014169 Max. :15.00 Max. :226464   
## AST.1 ALT.1 ALT4 ALT.12   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. : 39.00   
## 1st Qu.: 62.00 1st Qu.: 64.00 1st Qu.: 58.00 1st Qu.: 60.00   
## Median : 84.00 Median : 86.00 Median : 81.00 Median : 85.00   
## Mean : 83.53 Mean : 85.03 Mean : 81.41 Mean : 83.81   
## 3rd Qu.:106.00 3rd Qu.:108.00 3rd Qu.:104.00 3rd Qu.:107.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :128.00   
## ALT.24 ALT.36 ALT.48 ALT.after.24.w   
## Min. : 39.00 Min. : 39.00 Min. : 39.00 Min. :22.00   
## 1st Qu.: 60.00 1st Qu.: 63.00 1st Qu.: 61.00 1st Qu.:27.00   
## Median : 81.00 Median : 87.00 Median : 83.00 Median :34.00   
## Mean : 82.47 Mean : 85.22 Mean : 82.87 Mean :33.68   
## 3rd Qu.:107.00 3rd Qu.:106.00 3rd Qu.:102.00 3rd Qu.:40.00   
## Max. :128.00 Max. :128.00 Max. :128.00 Max. :45.00   
## RNA.Base RNA.4 RNA.12 RNA.EOT   
## Min. : 4210 Min. : 774 Min. : 5 Min. : 5   
## 1st Qu.: 249919 1st Qu.: 243758 1st Qu.: 11734 1st Qu.: 14864   
## Median : 598783 Median : 597869 Median :249978 Median :318363   
## Mean : 580195 Mean : 596835 Mean :298150 Mean :325923   
## 3rd Qu.: 885541 3rd Qu.: 897438 3rd Qu.:531558 3rd Qu.:564244   
## Max. :1200762 Max. :1200273 Max. :805218 Max. :808450   
## RNA.EF Baseline.histological.Grading  
## Min. : 5 Min. : 3.000   
## 1st Qu.: 24476 1st Qu.: 6.000   
## Median :275007 Median :10.000   
## Mean :313536 Mean : 9.829   
## 3rd Qu.:535998 3rd Qu.:14.000   
## Max. :810333 Max. :16.000   
## Baselinehistological.staging  
## Min. :1.000   
## 1st Qu.:1.000   
## Median :3.000   
## Mean :2.505   
## 3rd Qu.:4.000   
## Max. :4.000

#CORRELATION, COVARIANCE AND DISTANCE  
covariance<-cov(HCV[,c(11:16,23)]) #variamce-covariance matrix created  
correlation<-cor(HCV[,c(11:16,23)]) #standardized  
#colmeans  
cm<-colMeans(HCV[,c(11:16,23)])  
distance<-dist(scale(HCV[,c(11:16,23)],center=FALSE))  
#Calculating di(generalized distance for all observations of our data)  
#before that first extract all numeric variable in a dataframe  
x<-HCV[,c(11:16,23)]  
d <- apply(x, MARGIN = 1, function(x) + t(x - cm) %\*% solve(covariance) %\*% (x - cm))  
  
  
  
#Exlporation of the data for high chances of HCV Infection  
#Here RNA.base value if it is more than 700000 units then virus is detected in high quantity.  
#Here ALT.1 if value is greater than 57 then it is not normal.  
#we sorted the data on these two components.  
  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

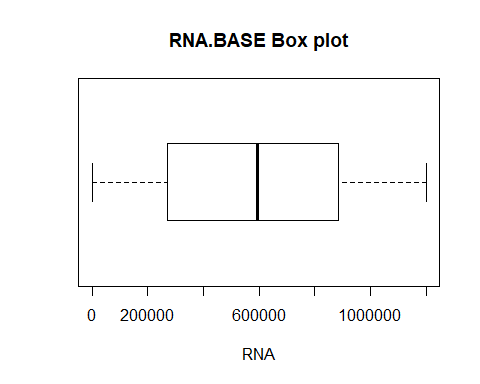
HCV\_male = HCV %>% filter(Gender == 1 & RNA.Base>= 700000 & ALT.1 >= 57)  
HCV\_male

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
## 1 45 1 30 2 1 2 2  
## 2 61 1 35 1 2 2 2  
## 3 33 1 25 2 1 2 2  
## 4 41 1 29 1 2 1 1  
## 5 32 1 31 1 2 1 1  
## 6 44 1 31 1 1 1 1  
## 7 61 1 25 1 1 2 2  
## 8 59 1 25 1 2 1 1  
## 9 32 1 26 1 2 2 2  
## 10 56 1 26 1 2 2 2  
## 11 40 1 31 1 2 2 1  
## 12 33 1 28 2 2 1 2  
## 13 39 1 30 1 2 2 1  
## 14 52 1 26 2 2 1 1  
## 15 49 1 25 1 2 1 2  
## 16 53 1 28 2 2 1 2  
## 17 54 1 31 2 2 1 2  
## 18 55 1 30 2 2 2 1  
## 19 56 1 34 1 1 1 2  
## 20 58 1 33 1 1 2 1  
## 21 33 1 30 2 2 1 2  
## 22 34 1 28 2 1 2 2  
## 23 60 1 32 1 1 1 1  
## 24 34 1 32 1 2 2 2  
## 25 37 1 34 2 1 1 2  
## 26 53 1 22 1 1 1 2  
## 27 59 1 28 1 1 2 2  
## 28 56 1 34 1 2 2 1  
## 29 61 1 34 2 1 1 1  
## 30 58 1 29 2 2 1 1  
## 31 33 1 30 2 2 2 2  
## 32 48 1 30 1 1 1 1  
## 33 35 1 26 2 2 1 2  
## 34 55 1 31 1 1 2 2  
## 35 51 1 30 1 2 1 1  
## 36 49 1 30 2 1 2 1  
## 37 57 1 24 2 2 1 2  
## 38 45 1 34 2 1 1 1  
## 39 46 1 22 1 2 1 1  
## 40 59 1 28 1 2 2 1  
## 41 52 1 26 1 2 2 1  
## 42 60 1 22 1 2 1 1  
## 43 39 1 35 1 1 2 2  
## 44 34 1 28 1 2 2 2  
## 45 37 1 35 2 1 1 1  
## 46 38 1 25 2 2 2 2  
## 47 58 1 35 1 1 2 2  
## 48 58 1 26 2 1 2 2  
## 49 38 1 32 2 1 1 2  
## 50 35 1 22 2 1 2 1  
## 51 35 1 25 2 1 1 2  
## 52 57 1 26 1 1 1 1  
## 53 52 1 34 1 2 2 2  
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## 55 44 1 30 1 2 2 2  
## 56 47 1 23 2 2 2 2  
## 57 32 1 29 2 2 2 1  
## 58 54 1 25 2 1 1 2  
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## 60 44 1 33 2 2 1 2  
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## 63 40 1 32 1 2 1 2  
## 64 48 1 25 1 2 2 1  
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## 71 41 1 29 2 2 1 2  
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## 75 37 1 23 1 2 2 1  
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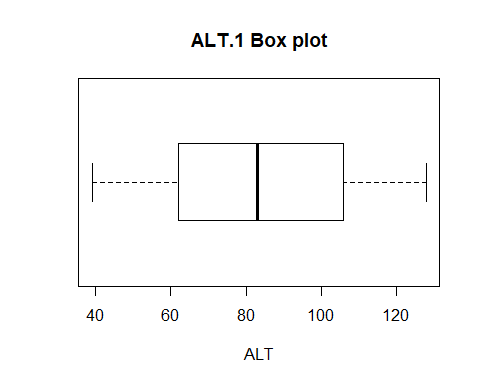
HCV\_female = HCV %>% filter(Gender == 2 & RNA.Base>= 700000 & ALT.1 >= 57)  
HCV\_female

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
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## 2 58 2 22 2 2 2 1  
## 3 37 2 24 2 1 2 1  
## 4 45 2 25 2 1 1 1  
## 5 40 2 32 2 2 2 1  
## 6 55 2 24 2 1 2 2  
## 7 35 2 23 2 2 1 1  
## 8 39 2 29 1 2 1 2  
## 9 43 2 34 2 2 2 1  
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## 18 39 2 28 1 2 1 1  
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## Fatigue...generalized.bone.ache Jaundice Epigastric.pain WBC RBC  
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## 108 934309 192505 5 5 5 16  
## 109 1067881 1140252 24882 358599 781633 4  
## 110 1170887 849114 5 5 5 14  
## 111 1150604 74806 751656 700626 161415 6  
## 112 729430 1066507 5 5 5 4  
## 113 829279 1143605 5 5 5 15  
## 114 897593 397353 392658 432107 443674 10  
## 115 956915 1039573 5 5 5 9  
## 116 709477 269098 5 5 5 13  
## 117 967553 463037 5 5 5 6  
## 118 740639 1009204 495981 258801 433673 14  
## 119 707143 90339 5 5 5 11  
## 120 1009735 715348 126538 561152 91751 11  
## 121 866016 1198350 5 5 5 16  
## 122 1070994 628462 447224 633957 221751 5  
## 123 1107098 679732 3143 189694 551441 3  
## 124 888908 362096 16583 41955 373008 13  
## 125 1130243 389681 40098 748354 273827 6  
## 126 719232 66655 428729 405381 647534 8  
## 127 1000056 1016938 396042 365600 498597 14  
## 128 982161 1049576 400177 614535 570169 10  
## 129 795039 127566 76458 223194 529417 8  
## 130 1197511 1193499 5 5 5 15  
## 131 995711 782760 349140 691325 332378 8  
## 132 885541 803035 695353 651314 175312 3  
## 133 752707 587552 5 5 5 8  
## 134 1178485 661256 292383 620726 308722 14  
## 135 928235 1144046 5 5 5 15  
## 136 1193200 579013 214185 155395 487908 13  
## 137 959672 910629 514296 286969 441610 15  
## 138 977635 875545 5 5 5 3  
## 139 709742 179139 557264 384505 271373 8  
## 140 1150939 1141001 293007 808450 431747 8  
## 141 1172391 1125343 115602 149363 302631 10  
## 142 759098 520844 189758 184255 455410 3  
## 143 981417 834506 403261 16855 721322 15  
## 144 965838 780384 142782 399570 60269 5  
## 145 764340 210827 570042 660349 121063 15  
## 146 886244 705592 5 5 5 14  
## 147 1129078 411252 5 5 5 11  
## 148 736993 108600 5 5 5 15  
## 149 1014264 600177 5 5 5 12  
## 150 1150848 882571 5 5 5 15  
## 151 1122292 339653 11589 430690 740592 14  
## 152 1058486 333572 264774 121497 101270 3  
## 153 1157061 138969 5 5 5 11  
## 154 1086994 911423 60744 735994 36073 16  
## 155 968689 534802 377466 49594 206307 10  
## 156 1177748 28022 93320 225454 221372 15  
## 157 878954 155138 5 5 5 12  
## 158 716270 837407 5 5 5 15  
## 159 898265 1015621 780791 659908 636886 5  
## 160 1178439 1123776 244984 112552 620117 7  
## 161 926969 811904 510535 320098 754767 14  
## 162 1064237 251779 5 5 5 6  
## 163 967444 504565 41045 238218 593269 7  
## 164 767886 89546 5 5 5 13  
## 165 1201086 210446 5 5 5 4  
## 166 802878 707086 587814 759084 664535 4  
## 167 898828 901148 729152 474231 674034 4  
## 168 757411 1023523 308747 517806 32582 12  
## 169 845402 336420 487412 120060 446170 16  
## 170 886679 778920 5 5 5 10  
## 171 1181946 689599 676614 405049 385059 14  
## 172 726981 661138 198581 709272 478012 3  
## 173 851245 865961 5 5 5 9  
## 174 1105643 1144495 199580 765059 641784 6  
## 175 808828 342983 78204 486197 22297 11  
## 176 947125 1092617 421667 437934 219305 8  
## 177 895958 37151 533540 619093 358748 12  
## 178 754890 614212 5 5 5 4  
## 179 960448 102456 747215 740439 539366 11  
## 180 1108576 1167783 719184 601670 810056 5  
## 181 796781 4794 216466 782909 491684 14  
## 182 959371 600996 493891 295664 759722 8  
## 183 985189 751943 662329 401264 2831 10  
## 184 1095879 672692 463861 506313 501451 8  
## 185 993497 764847 5 5 5 14  
## 186 1112368 282134 638443 494846 679125 9  
## 187 1069864 1065849 325416 364373 388949 11  
## 188 1181833 811141 534294 285857 260052 5  
## 189 865166 782463 772484 441957 656393 12  
## 190 871959 1037707 693817 37841 234830 7  
## 191 774460 1047150 5 5 5 5  
## 192 898160 434384 608253 13729 702984 9  
## 193 993447 131767 567333 248711 227876 11  
## 194 1106469 1160952 472862 600228 546788 5  
## 195 1111311 870238 329978 215148 119853 4  
## 196 1059759 856417 683912 518155 191207 4  
## 197 718624 879407 554257 396837 518283 11  
## 198 951706 234419 550574 566112 803654 5  
## 199 898542 71333 5 5 5 14  
## 200 1109982 637970 5 5 5 14  
## 201 1042144 560601 5 5 5 6  
## 202 798046 1049332 5 5 5 8  
## 203 866490 850820 251600 376766 490176 10  
## 204 935612 1111753 604790 209271 137061 3  
## 205 1038855 716660 578399 372689 1876 3  
## 206 966763 49518 189919 15496 433310 15  
## 207 701129 42888 372197 175078 141409 10  
## 208 866877 315008 5 5 5 12  
## 209 990842 223597 749293 561339 653418 9  
## 210 716104 521782 562176 70712 385314 12  
## 211 718576 373342 180015 119006 686401 15  
## 212 780887 1066136 496045 756611 206077 12  
## 213 784651 358652 5 5 5 5  
## 214 863117 1122984 33780 758080 51042 13  
## 215 936637 224867 5 5 5 3  
## 216 842775 1060420 5 5 5 7  
## 217 957663 108497 66369 660145 131353 4  
## 218 759302 984611 635394 308730 791932 5  
## 219 876571 730498 471986 104043 248731 12  
## 220 1150801 1011854 5 5 5 16  
## 221 807705 1069507 640755 618230 129346 6  
## 222 798413 236648 616566 606392 690808 14  
## 223 1121656 243758 228403 343131 270812 13  
## 224 1103470 181311 5 5 5 8  
## 225 1090734 774 29413 107119 51378 10  
## 226 1190577 628730 5 5 5 13  
## Baselinehistological.staging  
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## 224 3  
## 225 3  
## 226 3

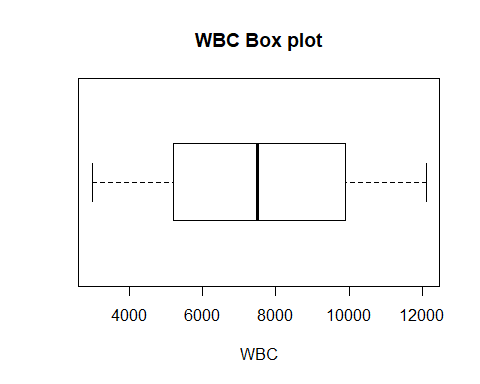
#Box Plot  
boxplot(RNA.Base, main="RNA.BASE Box plot",yaxt="n", xlab="RNA", horizontal=TRUE)



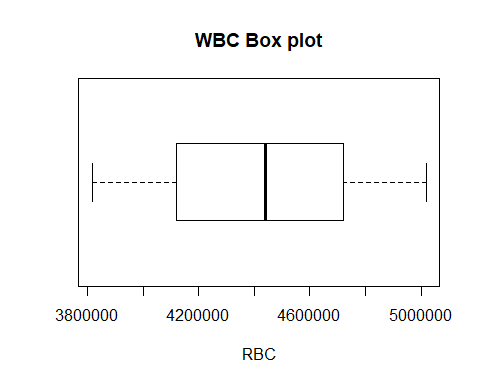
boxplot(ALT.1, main="ALT.1 Box plot",yaxt="n", xlab="ALT", horizontal=TRUE)



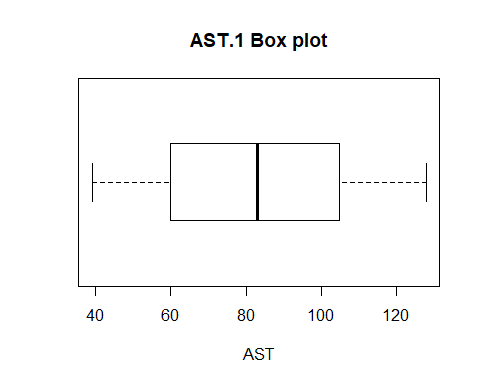
boxplot(WBC, main="WBC Box plot",yaxt="n", xlab="WBC", horizontal=TRUE)



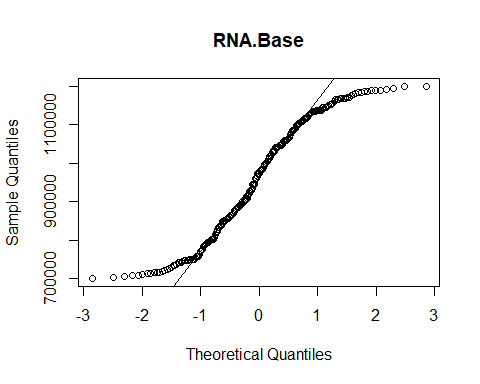
boxplot(RBC, main="WBC Box plot",yaxt="n", xlab="RBC", horizontal=TRUE)



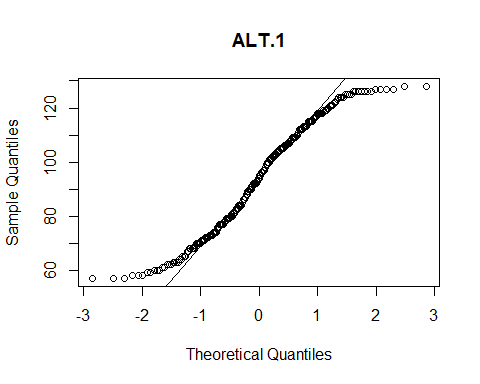
boxplot(AST.1, main="AST.1 Box plot",yaxt="n", xlab="AST", horizontal=TRUE)



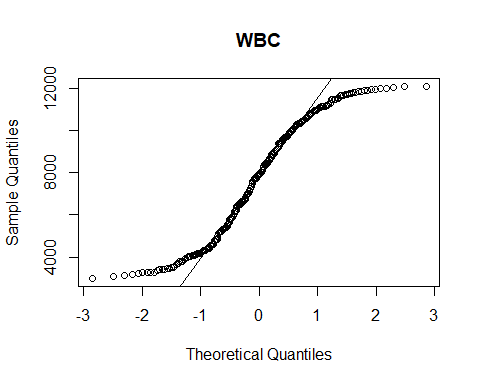
#plotting, Are they in a straight line.   
#Male Plotting of the dataset is done for five different attributes.  
qqnorm(HCV\_male[,"RNA.Base"], main = "RNA.Base"); qqline(HCV\_male[,"RNA.Base"])



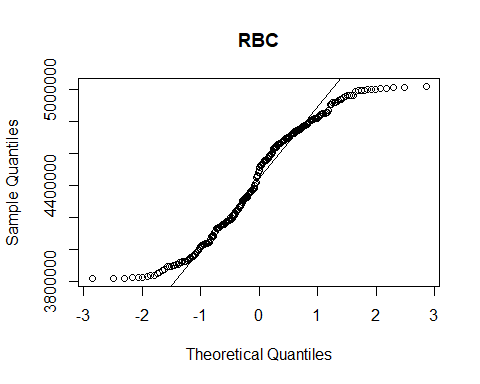
qqnorm(HCV\_male[,"ALT.1"], main = "ALT.1"); qqline(HCV\_male[,"ALT.1"])



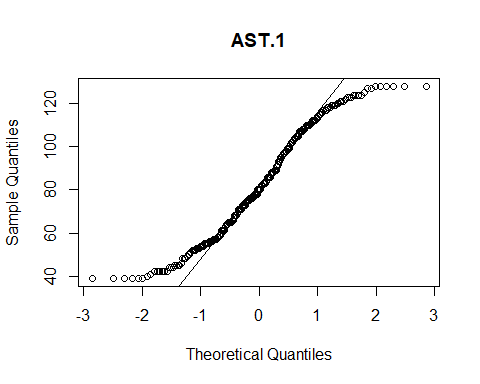
qqnorm(HCV\_male[,"WBC"], main = "WBC"); qqline(HCV\_male[,"WBC"])



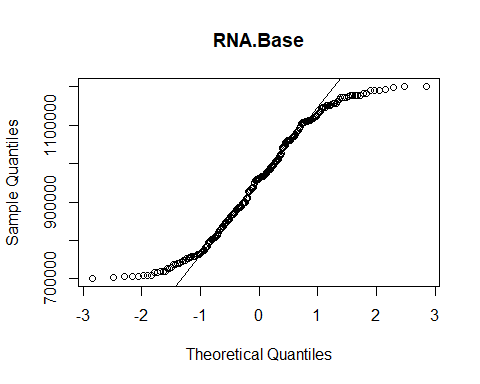
qqnorm(HCV\_male[,"RBC"], main = "RBC"); qqline(HCV\_male[,"RBC"])



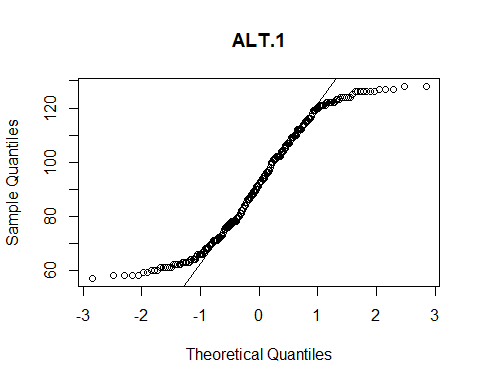
qqnorm(HCV\_male[,"AST.1"], main = "AST.1"); qqline(HCV\_male[,"AST.1"])



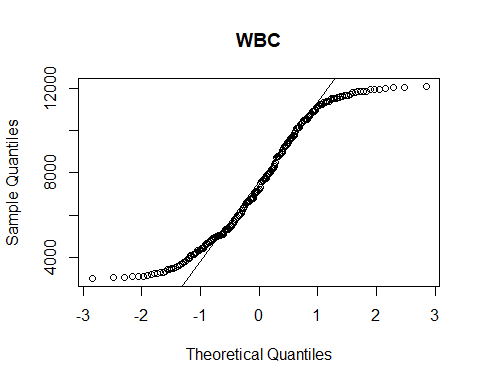
#Female, Are they in a straight line.  
#FeMale Plotting of the dataset is done for five different attributes.  
qqnorm(HCV\_female[,"RNA.Base"], main = "RNA.Base"); qqline(HCV\_female[,"RNA.Base"])



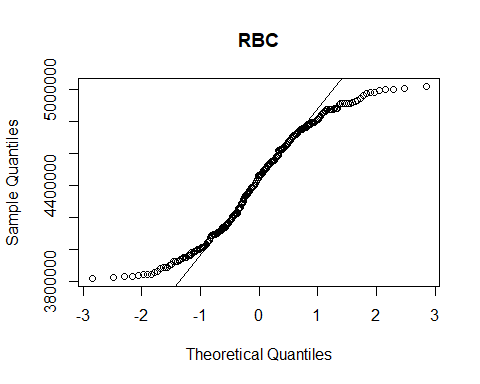
qqnorm(HCV\_female[,"ALT.1"], main = "ALT.1"); qqline(HCV\_female[,"ALT.1"])



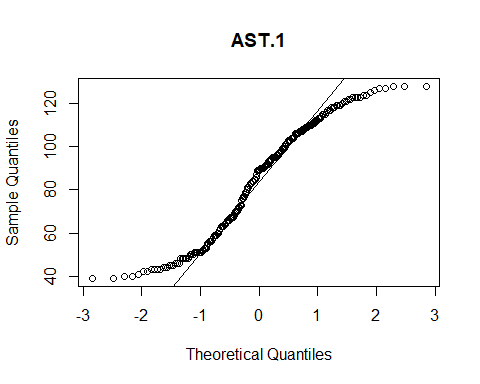
qqnorm(HCV\_female[,"WBC"], main = "WBC"); qqline(HCV\_female[,"WBC"])



qqnorm(HCV\_female[,"RBC"], main = "RBC"); qqline(HCV\_female[,"RBC"])



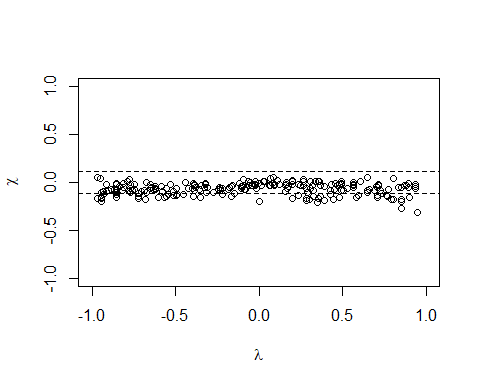
qqnorm(HCV\_female[,"AST.1"], main = "AST.1"); qqline(HCV\_female[,"AST.1"])



#Visualisatiom  
#Chiplot  
library(HSAUR2)

## Loading required package: tools

library(tools)  
library(MVA)  
  
#Chiplot  
#For male data  
with(HCV\_male, chiplot(RNA.Base, ALT.1))



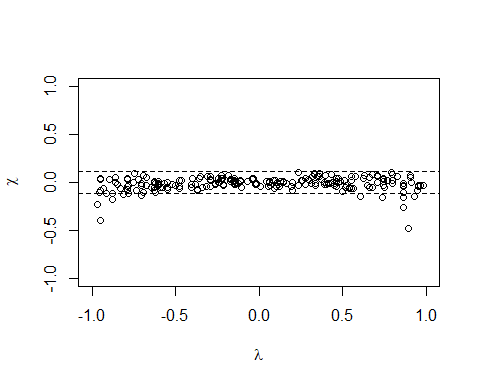
#For Female Data  
with(HCV\_female, chiplot(RNA.Base, ALT.1))  
  
  
  
library(GGally)

## Loading required package: ggplot2

## Registered S3 method overwritten by 'GGally':  
## method from   
## +.gg ggplot2

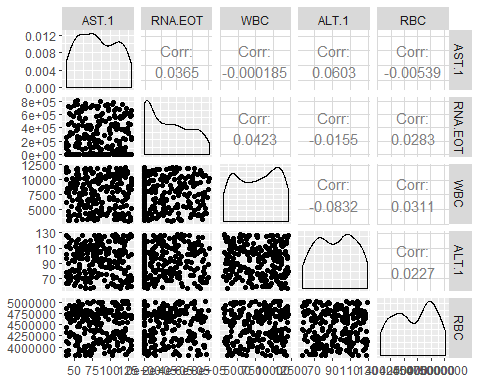
##   
## Attaching package: 'GGally'

## The following object is masked from 'package:dplyr':  
##   
## nasa



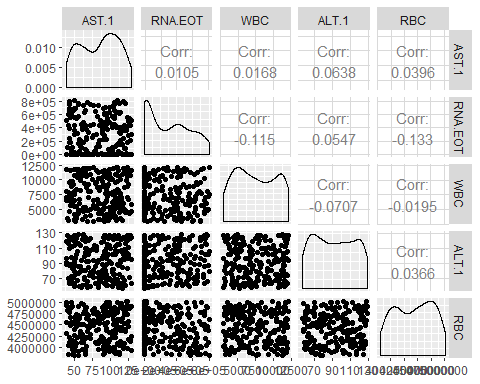
ggpairs(HCV\_male, columns=c("AST.1","RNA.EOT","WBC","ALT.1", "RBC"), color="Survivorship")

## Warning in warn\_if\_args\_exist(list(...)): Extra arguments: "color" are  
## being ignored. If these are meant to be aesthetics, submit them using the  
## 'mapping' variable within ggpairs with ggplot2::aes or ggplot2::aes\_string.



ggpairs(HCV\_female, columns=c("AST.1","RNA.EOT","WBC","ALT.1", "RBC"), color="Survivorship")

## Warning in warn\_if\_args\_exist(list(...)): Extra arguments: "color" are  
## being ignored. If these are meant to be aesthetics, submit them using the  
## 'mapping' variable within ggpairs with ggplot2::aes or ggplot2::aes\_string.



summary(lm(data = HCV , RNA.EOT~Age))

##   
## Call:  
## lm(formula = RNA.EOT ~ Age, data = HCV)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -308665 -271984 -35364 226006 533719   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 355622.3 38146.1 9.323 <2e-16 \*\*\*  
## Age -1467.3 809.1 -1.813 0.07 .   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 264300 on 1383 degrees of freedom  
## Multiple R-squared: 0.002372, Adjusted R-squared: 0.001651   
## F-statistic: 3.288 on 1 and 1383 DF, p-value: 0.07

summary(lm(data = HCV , RNA.EOT~Gender))

##   
## Call:  
## lm(formula = RNA.EOT ~ Gender, data = HCV)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -297181 -278520 -34151 223816 529617   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 259865 22338 11.634 <2e-16 \*\*\*  
## Gender 18661 14217 1.313 0.19   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 264500 on 1383 degrees of freedom  
## Multiple R-squared: 0.001244, Adjusted R-squared: 0.000522   
## F-statistic: 1.723 on 1 and 1383 DF, p-value: 0.1896

summary(lm(data = HCV , RNA.EOT~WBC))

##   
## Call:  
## lm(formula = RNA.EOT ~ WBC, data = HCV)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -296698 -280505 -38809 230123 527965   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 302720.284 21302.853 14.21 <2e-16 \*\*\*  
## WBC -1.999 2.666 -0.75 0.453   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 264600 on 1383 degrees of freedom  
## Multiple R-squared: 0.0004065, Adjusted R-squared: -0.0003163   
## F-statistic: 0.5624 on 1 and 1383 DF, p-value: 0.4534

summary(lm(data = HCV , RNA.EOT~ALT.1))

##   
## Call:  
## lm(formula = RNA.EOT ~ ALT.1, data = HCV)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -305707 -274761 -32847 226046 529732   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 321386.0 24083.4 13.345 <2e-16 \*\*\*  
## ALT.1 -401.9 274.2 -1.466 0.143   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 264400 on 1383 degrees of freedom  
## Multiple R-squared: 0.001551, Adjusted R-squared: 0.0008288   
## F-statistic: 2.148 on 1 and 1383 DF, p-value: 0.143

cor(HCV)

## Age Gender BMI  
## Age 1.000000000 -0.0099335141 -0.025353485  
## Gender -0.009933514 1.0000000000 0.006495822  
## BMI -0.025353485 0.0064958221 1.000000000  
## Fever -0.021208025 0.0216038570 -0.017581296  
## Nausea.Vomting -0.025023686 -0.0367257983 0.005801303  
## Headache 0.017561878 -0.0239990326 -0.007850790  
## Diarrhea 0.043574033 0.0181605819 -0.026094093  
## Fatigue...generalized.bone.ache -0.007817311 0.0454520816 -0.007295820  
## Jaundice 0.010284829 0.0007675462 -0.071378670  
## Epigastric.pain -0.010817131 -0.0251107556 0.008205190  
## WBC 0.014310232 0.0272897099 0.036721434  
## RBC -0.002161729 -0.0009591287 -0.004922280  
## HGB -0.012810104 -0.0012462736 0.057987192  
## Plat -0.002225244 0.0192990586 -0.003093342  
## AST.1 -0.016632599 -0.0130777126 0.001806482  
## ALT.1 0.005722864 0.0224504101 0.034036533  
## ALT4 0.030259565 -0.0087203690 0.001416015  
## ALT.12 0.019046099 0.0099728383 -0.059658524  
## ALT.24 0.002711517 -0.0159186857 0.007909135  
## ALT.36 -0.008720825 0.0060865959 -0.029995451  
## ALT.48 0.027556595 -0.0203239599 -0.007866295  
## ALT.after.24.w 0.003865167 0.0101835990 -0.021412112  
## RNA.Base 0.022775156 -0.0133707332 -0.016418030  
## RNA.4 -0.012699117 -0.0233148008 0.036863599  
## RNA.12 0.001578231 -0.0313789591 -0.009189913  
## RNA.EOT -0.048702492 0.0352722375 -0.021427851  
## RNA.EF -0.030296896 -0.0152924344 -0.044901060  
## Baseline.histological.Grading -0.040705291 0.0145587520 -0.023045099  
## Baselinehistological.staging -0.019599169 0.0119553382 -0.057258857  
## Fever Nausea.Vomting Headache  
## Age -0.0212080255 -0.0250236859 0.017561878  
## Gender 0.0216038570 -0.0367257983 -0.023999033  
## BMI -0.0175812964 0.0058013030 -0.007850790  
## Fever 1.0000000000 -0.0052136474 0.019751311  
## Nausea.Vomting -0.0052136474 1.0000000000 0.019535592  
## Headache 0.0197513112 0.0195355918 1.000000000  
## Diarrhea -0.0196612299 0.0093609763 0.019535592  
## Fatigue...generalized.bone.ache -0.0035445757 -0.0324805182 -0.016624265  
## Jaundice -0.0051238834 0.0007110848 0.007959711  
## Epigastric.pain -0.0168617405 -0.0513059527 0.028223704  
## WBC -0.0350462200 -0.0244935479 -0.040385318  
## RBC -0.0296451515 0.0179440698 0.010071125  
## HGB -0.0174055261 0.0134407842 -0.029311455  
## Plat -0.0054031478 0.0863941514 -0.022105834  
## AST.1 -0.0086269344 0.0093249007 0.004821864  
## ALT.1 0.0232376945 0.0560770582 0.050407635  
## ALT4 -0.0171452480 -0.0209322545 0.037748213  
## ALT.12 -0.0227051792 -0.0270071084 0.027285898  
## ALT.24 -0.0481042938 0.0388911081 0.010192628  
## ALT.36 -0.0078304482 0.0238084882 0.017464411  
## ALT.48 0.0012380165 -0.0414912786 -0.003555188  
## ALT.after.24.w 0.0004244221 0.0118379857 -0.003898588  
## RNA.Base -0.0024801063 0.0079750657 0.022810095  
## RNA.4 0.0007273955 -0.0295109169 -0.041613369  
## RNA.12 0.0199566575 -0.0112496665 0.011729275  
## RNA.EOT 0.0170275889 0.0053949073 -0.008541374  
## RNA.EF -0.0124056023 0.0209435527 -0.007523994  
## Baseline.histological.Grading -0.0315628469 -0.0567817959 -0.011240705  
## Baselinehistological.staging -0.0309751762 0.0549063737 -0.001996058  
## Diarrhea  
## Age 4.357403e-02  
## Gender 1.816058e-02  
## BMI -2.609409e-02  
## Fever -1.966123e-02  
## Nausea.Vomting 9.360976e-03  
## Headache 1.953559e-02  
## Diarrhea 1.000000e+00  
## Fatigue...generalized.bone.ache -2.670426e-02  
## Jaundice -1.661770e-02  
## Epigastric.pain 2.089941e-02  
## WBC 1.689980e-04  
## RBC -1.361357e-02  
## HGB -6.159106e-02  
## Plat 2.831942e-02  
## AST.1 -3.663591e-02  
## ALT.1 5.914201e-02  
## ALT4 2.578713e-02  
## ALT.12 -6.530471e-02  
## ALT.24 -2.124935e-02  
## ALT.36 8.486587e-03  
## ALT.48 -1.874059e-02  
## ALT.after.24.w 1.831074e-03  
## RNA.Base 1.833950e-02  
## RNA.4 -8.918434e-05  
## RNA.12 -1.232417e-02  
## RNA.EOT 2.134846e-02  
## RNA.EF 4.243288e-02  
## Baseline.histological.Grading 3.189148e-02  
## Baselinehistological.staging -5.639269e-03  
## Fatigue...generalized.bone.ache  
## Age -7.817311e-03  
## Gender 4.545208e-02  
## BMI -7.295820e-03  
## Fever -3.544576e-03  
## Nausea.Vomting -3.248052e-02  
## Headache -1.662426e-02  
## Diarrhea -2.670426e-02  
## Fatigue...generalized.bone.ache 1.000000e+00  
## Jaundice 7.946967e-03  
## Epigastric.pain 3.684156e-02  
## WBC -1.481368e-02  
## RBC -2.196479e-02  
## HGB 7.432193e-04  
## Plat -6.553223e-05  
## AST.1 2.560119e-02  
## ALT.1 -2.681839e-03  
## ALT4 -7.211433e-02  
## ALT.12 1.259572e-02  
## ALT.24 7.752326e-04  
## ALT.36 2.121386e-02  
## ALT.48 -8.982053e-03  
## ALT.after.24.w 3.597496e-02  
## RNA.Base -6.124375e-03  
## RNA.4 -5.063470e-02  
## RNA.12 3.121951e-02  
## RNA.EOT 1.377798e-02  
## RNA.EF 6.347790e-03  
## Baseline.histological.Grading -2.202715e-02  
## Baselinehistological.staging 1.456261e-02  
## Jaundice Epigastric.pain WBC  
## Age 0.0102848293 -0.010817131 0.014310232  
## Gender 0.0007675462 -0.025110756 0.027289710  
## BMI -0.0713786698 0.008205190 0.036721434  
## Fever -0.0051238834 -0.016861740 -0.035046220  
## Nausea.Vomting 0.0007110848 -0.051305953 -0.024493548  
## Headache 0.0079597114 0.028223704 -0.040385318  
## Diarrhea -0.0166176970 0.020899413 0.000168998  
## Fatigue...generalized.bone.ache 0.0079469674 0.036841557 -0.014813680  
## Jaundice 1.0000000000 -0.025288818 0.030286285  
## Epigastric.pain -0.0252888185 1.000000000 0.039267299  
## WBC 0.0302862848 0.039267299 1.000000000  
## RBC -0.0128782594 -0.038863892 0.006927511  
## HGB -0.0251915445 -0.001882147 0.008785769  
## Plat -0.0365987413 -0.050923419 -0.013097285  
## AST.1 0.0147460916 0.036971579 -0.006984545  
## ALT.1 0.0126010279 0.022372362 -0.038013594  
## ALT4 0.0152131165 -0.066063520 -0.012926430  
## ALT.12 -0.0089932319 0.018051337 -0.002510054  
## ALT.24 -0.0078310512 -0.017689654 -0.012505539  
## ALT.36 0.0072955274 0.032989368 -0.042219957  
## ALT.48 0.0162533824 0.002453439 -0.014508932  
## ALT.after.24.w -0.0184119949 0.029835357 0.015662046  
## RNA.Base 0.0287956971 0.003260793 0.014623609  
## RNA.4 -0.0089400410 0.005585634 0.022239601  
## RNA.12 0.0336084823 0.031316011 -0.051714095  
## RNA.EOT 0.0377200117 0.046649645 -0.020161903  
## RNA.EF 0.0247574898 0.081423411 -0.046780163  
## Baseline.histological.Grading -0.0077696366 -0.005632665 0.029627315  
## Baselinehistological.staging 0.0202185646 -0.052109575 0.017945004  
## RBC HGB Plat  
## Age -0.0021617289 -0.0128101035 -2.225244e-03  
## Gender -0.0009591287 -0.0012462736 1.929906e-02  
## BMI -0.0049222797 0.0579871919 -3.093342e-03  
## Fever -0.0296451515 -0.0174055261 -5.403148e-03  
## Nausea.Vomting 0.0179440698 0.0134407842 8.639415e-02  
## Headache 0.0100711252 -0.0293114545 -2.210583e-02  
## Diarrhea -0.0136135746 -0.0615910650 2.831942e-02  
## Fatigue...generalized.bone.ache -0.0219647907 0.0007432193 -6.553223e-05  
## Jaundice -0.0128782594 -0.0251915445 -3.659874e-02  
## Epigastric.pain -0.0388638922 -0.0018821469 -5.092342e-02  
## WBC 0.0069275105 0.0087857692 -1.309728e-02  
## RBC 1.0000000000 0.0423203207 3.243101e-02  
## HGB 0.0423203207 1.0000000000 -1.032016e-02  
## Plat 0.0324310054 -0.0103201587 1.000000e+00  
## AST.1 0.0162590277 -0.0106359196 -5.205259e-03  
## ALT.1 0.0117854102 -0.0147671477 4.758715e-02  
## ALT4 -0.0274783686 0.0227241939 -2.547138e-02  
## ALT.12 0.0170209831 -0.0066414724 -4.358080e-02  
## ALT.24 0.0150903545 0.0042134182 -3.090105e-03  
## ALT.36 0.0509557535 -0.0375974495 4.298291e-03  
## ALT.48 -0.0558255467 -0.0283565519 -3.864539e-03  
## ALT.after.24.w 0.0089237533 -0.0207898743 -3.282598e-02  
## RNA.Base 0.0061754665 -0.0532443788 -4.128450e-02  
## RNA.4 0.0157177405 -0.0025252662 -3.877147e-02  
## RNA.12 -0.0618506827 0.0083109261 5.003812e-02  
## RNA.EOT -0.0257213233 -0.0063885749 3.734002e-02  
## RNA.EF -0.0034067587 0.0035892426 5.711506e-03  
## Baseline.histological.Grading -0.0196617409 0.0211627859 3.398520e-02  
## Baselinehistological.staging 0.0096228169 0.0027524655 -1.728364e-02  
## AST.1 ALT.1 ALT4  
## Age -0.016632599 0.005722864 0.030259565  
## Gender -0.013077713 0.022450410 -0.008720369  
## BMI 0.001806482 0.034036533 0.001416015  
## Fever -0.008626934 0.023237694 -0.017145248  
## Nausea.Vomting 0.009324901 0.056077058 -0.020932254  
## Headache 0.004821864 0.050407635 0.037748213  
## Diarrhea -0.036635909 0.059142008 0.025787126  
## Fatigue...generalized.bone.ache 0.025601187 -0.002681839 -0.072114333  
## Jaundice 0.014746092 0.012601028 0.015213117  
## Epigastric.pain 0.036971579 0.022372362 -0.066063520  
## WBC -0.006984545 -0.038013594 -0.012926430  
## RBC 0.016259028 0.011785410 -0.027478369  
## HGB -0.010635920 -0.014767148 0.022724194  
## Plat -0.005205259 0.047587149 -0.025471382  
## AST.1 1.000000000 0.037942581 0.006912844  
## ALT.1 0.037942581 1.000000000 -0.033151459  
## ALT4 0.006912844 -0.033151459 1.000000000  
## ALT.12 -0.011066622 -0.046876142 0.004047087  
## ALT.24 -0.012951223 -0.040784828 0.028423678  
## ALT.36 -0.007778576 -0.012609090 0.015907258  
## ALT.48 -0.009569205 0.031876840 -0.004701406  
## ALT.after.24.w 0.001885255 -0.004512424 0.019454293  
## RNA.Base -0.001739390 0.036358233 -0.012893033  
## RNA.4 -0.010651988 -0.013260415 -0.010624922  
## RNA.12 -0.003321389 0.016019937 0.005006987  
## RNA.EOT -0.045387637 -0.039379741 0.053356767  
## RNA.EF -0.005009646 -0.026100475 0.014059425  
## Baseline.histological.Grading -0.027109607 -0.010173029 -0.027635903  
## Baselinehistological.staging -0.025125962 0.036866577 -0.014997008  
## ALT.12 ALT.24 ALT.36  
## Age 0.019046099 0.0027115171 -0.008720825  
## Gender 0.009972838 -0.0159186857 0.006086596  
## BMI -0.059658524 0.0079091353 -0.029995451  
## Fever -0.022705179 -0.0481042938 -0.007830448  
## Nausea.Vomting -0.027007108 0.0388911081 0.023808488  
## Headache 0.027285898 0.0101926281 0.017464411  
## Diarrhea -0.065304715 -0.0212493479 0.008486587  
## Fatigue...generalized.bone.ache 0.012595719 0.0007752326 0.021213856  
## Jaundice -0.008993232 -0.0078310512 0.007295527  
## Epigastric.pain 0.018051337 -0.0176896543 0.032989368  
## WBC -0.002510054 -0.0125055395 -0.042219957  
## RBC 0.017020983 0.0150903545 0.050955754  
## HGB -0.006641472 0.0042134182 -0.037597450  
## Plat -0.043580804 -0.0030901048 0.004298291  
## AST.1 -0.011066622 -0.0129512235 -0.007778576  
## ALT.1 -0.046876142 -0.0407848280 -0.012609090  
## ALT4 0.004047087 0.0284236779 0.015907258  
## ALT.12 1.000000000 0.0217147549 -0.006073943  
## ALT.24 0.021714755 1.0000000000 -0.011118450  
## ALT.36 -0.006073943 -0.0111184500 1.000000000  
## ALT.48 0.007503170 -0.0985788912 0.002678538  
## ALT.after.24.w -0.025437719 -0.0311101814 -0.002369731  
## RNA.Base -0.036838805 0.0077340830 -0.005816915  
## RNA.4 -0.016886547 -0.0369293718 -0.033295830  
## RNA.12 -0.026247774 0.0150346412 0.020598257  
## RNA.EOT -0.027191186 0.0015597505 0.027820843  
## RNA.EF -0.022089393 0.0198079911 0.020379689  
## Baseline.histological.Grading -0.002518309 -0.0040839321 0.008018315  
## Baselinehistological.staging 0.000808887 -0.0048880393 -0.006429920  
## ALT.48 ALT.after.24.w RNA.Base  
## Age 0.027556595 0.0038651668 0.022775156  
## Gender -0.020323960 0.0101835990 -0.013370733  
## BMI -0.007866295 -0.0214121117 -0.016418030  
## Fever 0.001238017 0.0004244221 -0.002480106  
## Nausea.Vomting -0.041491279 0.0118379857 0.007975066  
## Headache -0.003555188 -0.0038985885 0.022810095  
## Diarrhea -0.018740594 0.0018310739 0.018339502  
## Fatigue...generalized.bone.ache -0.008982053 0.0359749630 -0.006124375  
## Jaundice 0.016253382 -0.0184119949 0.028795697  
## Epigastric.pain 0.002453439 0.0298353568 0.003260793  
## WBC -0.014508932 0.0156620462 0.014623609  
## RBC -0.055825547 0.0089237533 0.006175466  
## HGB -0.028356552 -0.0207898743 -0.053244379  
## Plat -0.003864539 -0.0328259788 -0.041284499  
## AST.1 -0.009569205 0.0018852553 -0.001739390  
## ALT.1 0.031876840 -0.0045124244 0.036358233  
## ALT4 -0.004701406 0.0194542929 -0.012893033  
## ALT.12 0.007503170 -0.0254377186 -0.036838805  
## ALT.24 -0.098578891 -0.0311101814 0.007734083  
## ALT.36 0.002678538 -0.0023697314 -0.005816915  
## ALT.48 1.000000000 0.0325513291 0.021303638  
## ALT.after.24.w 0.032551329 1.0000000000 0.030643366  
## RNA.Base 0.021303638 0.0306433664 1.000000000  
## RNA.4 -0.007758587 0.0334836202 0.020359689  
## RNA.12 0.034132252 -0.0123525403 -0.004939601  
## RNA.EOT -0.002711802 0.0243281017 0.011600013  
## RNA.EF 0.010787434 0.0151944470 0.010872596  
## Baseline.histological.Grading 0.038719861 0.0203747780 -0.020187670  
## Baselinehistological.staging -0.013533125 0.0339187232 0.029410558  
## RNA.4 RNA.12 RNA.EOT  
## Age -1.269912e-02 0.001578231 -0.048702492  
## Gender -2.331480e-02 -0.031378959 0.035272237  
## BMI 3.686360e-02 -0.009189913 -0.021427851  
## Fever 7.273955e-04 0.019956658 0.017027589  
## Nausea.Vomting -2.951092e-02 -0.011249666 0.005394907  
## Headache -4.161337e-02 0.011729275 -0.008541374  
## Diarrhea -8.918434e-05 -0.012324174 0.021348463  
## Fatigue...generalized.bone.ache -5.063470e-02 0.031219510 0.013777980  
## Jaundice -8.940041e-03 0.033608482 0.037720012  
## Epigastric.pain 5.585634e-03 0.031316011 0.046649645  
## WBC 2.223960e-02 -0.051714095 -0.020161903  
## RBC 1.571774e-02 -0.061850683 -0.025721323  
## HGB -2.525266e-03 0.008310926 -0.006388575  
## Plat -3.877147e-02 0.050038116 0.037340022  
## AST.1 -1.065199e-02 -0.003321389 -0.045387637  
## ALT.1 -1.326042e-02 0.016019937 -0.039379741  
## ALT4 -1.062492e-02 0.005006987 0.053356767  
## ALT.12 -1.688655e-02 -0.026247774 -0.027191186  
## ALT.24 -3.692937e-02 0.015034641 0.001559751  
## ALT.36 -3.329583e-02 0.020598257 0.027820843  
## ALT.48 -7.758587e-03 0.034132252 -0.002711802  
## ALT.after.24.w 3.348362e-02 -0.012352540 0.024328102  
## RNA.Base 2.035969e-02 -0.004939601 0.011600013  
## RNA.4 1.000000e+00 -0.031167948 0.009534555  
## RNA.12 -3.116795e-02 1.000000000 0.407536735  
## RNA.EOT 9.534555e-03 0.407536735 1.000000000  
## RNA.EF -5.391344e-02 0.420023489 0.445987627  
## Baseline.histological.Grading -4.881739e-02 -0.047936159 -0.046294488  
## Baselinehistological.staging -3.294585e-02 0.034448730 -0.017486125  
## RNA.EF Baseline.histological.Grading  
## Age -0.030296896 -0.040705291  
## Gender -0.015292434 0.014558752  
## BMI -0.044901060 -0.023045099  
## Fever -0.012405602 -0.031562847  
## Nausea.Vomting 0.020943553 -0.056781796  
## Headache -0.007523994 -0.011240705  
## Diarrhea 0.042432875 0.031891483  
## Fatigue...generalized.bone.ache 0.006347790 -0.022027146  
## Jaundice 0.024757490 -0.007769637  
## Epigastric.pain 0.081423411 -0.005632665  
## WBC -0.046780163 0.029627315  
## RBC -0.003406759 -0.019661741  
## HGB 0.003589243 0.021162786  
## Plat 0.005711506 0.033985201  
## AST.1 -0.005009646 -0.027109607  
## ALT.1 -0.026100475 -0.010173029  
## ALT4 0.014059425 -0.027635903  
## ALT.12 -0.022089393 -0.002518309  
## ALT.24 0.019807991 -0.004083932  
## ALT.36 0.020379689 0.008018315  
## ALT.48 0.010787434 0.038719861  
## ALT.after.24.w 0.015194447 0.020374778  
## RNA.Base 0.010872596 -0.020187670  
## RNA.4 -0.053913436 -0.048817390  
## RNA.12 0.420023489 -0.047936159  
## RNA.EOT 0.445987627 -0.046294488  
## RNA.EF 1.000000000 0.004018185  
## Baseline.histological.Grading 0.004018185 1.000000000  
## Baselinehistological.staging 0.030518759 -0.047071590  
## Baselinehistological.staging  
## Age -0.019599169  
## Gender 0.011955338  
## BMI -0.057258857  
## Fever -0.030975176  
## Nausea.Vomting 0.054906374  
## Headache -0.001996058  
## Diarrhea -0.005639269  
## Fatigue...generalized.bone.ache 0.014562612  
## Jaundice 0.020218565  
## Epigastric.pain -0.052109575  
## WBC 0.017945004  
## RBC 0.009622817  
## HGB 0.002752465  
## Plat -0.017283639  
## AST.1 -0.025125962  
## ALT.1 0.036866577  
## ALT4 -0.014997008  
## ALT.12 0.000808887  
## ALT.24 -0.004888039  
## ALT.36 -0.006429920  
## ALT.48 -0.013533125  
## ALT.after.24.w 0.033918723  
## RNA.Base 0.029410558  
## RNA.4 -0.032945849  
## RNA.12 0.034448730  
## RNA.EOT -0.017486125  
## RNA.EF 0.030518759  
## Baseline.histological.Grading -0.047071590  
## Baselinehistological.staging 1.000000000

#Pca || T-test || F-test  
  
  
  
#Get the Correlations between the measurements  
cor(HCV)

## Age Gender BMI  
## Age 1.000000000 -0.0099335141 -0.025353485  
## Gender -0.009933514 1.0000000000 0.006495822  
## BMI -0.025353485 0.0064958221 1.000000000  
## Fever -0.021208025 0.0216038570 -0.017581296  
## Nausea.Vomting -0.025023686 -0.0367257983 0.005801303  
## Headache 0.017561878 -0.0239990326 -0.007850790  
## Diarrhea 0.043574033 0.0181605819 -0.026094093  
## Fatigue...generalized.bone.ache -0.007817311 0.0454520816 -0.007295820  
## Jaundice 0.010284829 0.0007675462 -0.071378670  
## Epigastric.pain -0.010817131 -0.0251107556 0.008205190  
## WBC 0.014310232 0.0272897099 0.036721434  
## RBC -0.002161729 -0.0009591287 -0.004922280  
## HGB -0.012810104 -0.0012462736 0.057987192  
## Plat -0.002225244 0.0192990586 -0.003093342  
## AST.1 -0.016632599 -0.0130777126 0.001806482  
## ALT.1 0.005722864 0.0224504101 0.034036533  
## ALT4 0.030259565 -0.0087203690 0.001416015  
## ALT.12 0.019046099 0.0099728383 -0.059658524  
## ALT.24 0.002711517 -0.0159186857 0.007909135  
## ALT.36 -0.008720825 0.0060865959 -0.029995451  
## ALT.48 0.027556595 -0.0203239599 -0.007866295  
## ALT.after.24.w 0.003865167 0.0101835990 -0.021412112  
## RNA.Base 0.022775156 -0.0133707332 -0.016418030  
## RNA.4 -0.012699117 -0.0233148008 0.036863599  
## RNA.12 0.001578231 -0.0313789591 -0.009189913  
## RNA.EOT -0.048702492 0.0352722375 -0.021427851  
## RNA.EF -0.030296896 -0.0152924344 -0.044901060  
## Baseline.histological.Grading -0.040705291 0.0145587520 -0.023045099  
## Baselinehistological.staging -0.019599169 0.0119553382 -0.057258857  
## Fever Nausea.Vomting Headache  
## Age -0.0212080255 -0.0250236859 0.017561878  
## Gender 0.0216038570 -0.0367257983 -0.023999033  
## BMI -0.0175812964 0.0058013030 -0.007850790  
## Fever 1.0000000000 -0.0052136474 0.019751311  
## Nausea.Vomting -0.0052136474 1.0000000000 0.019535592  
## Headache 0.0197513112 0.0195355918 1.000000000  
## Diarrhea -0.0196612299 0.0093609763 0.019535592  
## Fatigue...generalized.bone.ache -0.0035445757 -0.0324805182 -0.016624265  
## Jaundice -0.0051238834 0.0007110848 0.007959711  
## Epigastric.pain -0.0168617405 -0.0513059527 0.028223704  
## WBC -0.0350462200 -0.0244935479 -0.040385318  
## RBC -0.0296451515 0.0179440698 0.010071125  
## HGB -0.0174055261 0.0134407842 -0.029311455  
## Plat -0.0054031478 0.0863941514 -0.022105834  
## AST.1 -0.0086269344 0.0093249007 0.004821864  
## ALT.1 0.0232376945 0.0560770582 0.050407635  
## ALT4 -0.0171452480 -0.0209322545 0.037748213  
## ALT.12 -0.0227051792 -0.0270071084 0.027285898  
## ALT.24 -0.0481042938 0.0388911081 0.010192628  
## ALT.36 -0.0078304482 0.0238084882 0.017464411  
## ALT.48 0.0012380165 -0.0414912786 -0.003555188  
## ALT.after.24.w 0.0004244221 0.0118379857 -0.003898588  
## RNA.Base -0.0024801063 0.0079750657 0.022810095  
## RNA.4 0.0007273955 -0.0295109169 -0.041613369  
## RNA.12 0.0199566575 -0.0112496665 0.011729275  
## RNA.EOT 0.0170275889 0.0053949073 -0.008541374  
## RNA.EF -0.0124056023 0.0209435527 -0.007523994  
## Baseline.histological.Grading -0.0315628469 -0.0567817959 -0.011240705  
## Baselinehistological.staging -0.0309751762 0.0549063737 -0.001996058  
## Diarrhea  
## Age 4.357403e-02  
## Gender 1.816058e-02  
## BMI -2.609409e-02  
## Fever -1.966123e-02  
## Nausea.Vomting 9.360976e-03  
## Headache 1.953559e-02  
## Diarrhea 1.000000e+00  
## Fatigue...generalized.bone.ache -2.670426e-02  
## Jaundice -1.661770e-02  
## Epigastric.pain 2.089941e-02  
## WBC 1.689980e-04  
## RBC -1.361357e-02  
## HGB -6.159106e-02  
## Plat 2.831942e-02  
## AST.1 -3.663591e-02  
## ALT.1 5.914201e-02  
## ALT4 2.578713e-02  
## ALT.12 -6.530471e-02  
## ALT.24 -2.124935e-02  
## ALT.36 8.486587e-03  
## ALT.48 -1.874059e-02  
## ALT.after.24.w 1.831074e-03  
## RNA.Base 1.833950e-02  
## RNA.4 -8.918434e-05  
## RNA.12 -1.232417e-02  
## RNA.EOT 2.134846e-02  
## RNA.EF 4.243288e-02  
## Baseline.histological.Grading 3.189148e-02  
## Baselinehistological.staging -5.639269e-03  
## Fatigue...generalized.bone.ache  
## Age -7.817311e-03  
## Gender 4.545208e-02  
## BMI -7.295820e-03  
## Fever -3.544576e-03  
## Nausea.Vomting -3.248052e-02  
## Headache -1.662426e-02  
## Diarrhea -2.670426e-02  
## Fatigue...generalized.bone.ache 1.000000e+00  
## Jaundice 7.946967e-03  
## Epigastric.pain 3.684156e-02  
## WBC -1.481368e-02  
## RBC -2.196479e-02  
## HGB 7.432193e-04  
## Plat -6.553223e-05  
## AST.1 2.560119e-02  
## ALT.1 -2.681839e-03  
## ALT4 -7.211433e-02  
## ALT.12 1.259572e-02  
## ALT.24 7.752326e-04  
## ALT.36 2.121386e-02  
## ALT.48 -8.982053e-03  
## ALT.after.24.w 3.597496e-02  
## RNA.Base -6.124375e-03  
## RNA.4 -5.063470e-02  
## RNA.12 3.121951e-02  
## RNA.EOT 1.377798e-02  
## RNA.EF 6.347790e-03  
## Baseline.histological.Grading -2.202715e-02  
## Baselinehistological.staging 1.456261e-02  
## Jaundice Epigastric.pain WBC  
## Age 0.0102848293 -0.010817131 0.014310232  
## Gender 0.0007675462 -0.025110756 0.027289710  
## BMI -0.0713786698 0.008205190 0.036721434  
## Fever -0.0051238834 -0.016861740 -0.035046220  
## Nausea.Vomting 0.0007110848 -0.051305953 -0.024493548  
## Headache 0.0079597114 0.028223704 -0.040385318  
## Diarrhea -0.0166176970 0.020899413 0.000168998  
## Fatigue...generalized.bone.ache 0.0079469674 0.036841557 -0.014813680  
## Jaundice 1.0000000000 -0.025288818 0.030286285  
## Epigastric.pain -0.0252888185 1.000000000 0.039267299  
## WBC 0.0302862848 0.039267299 1.000000000  
## RBC -0.0128782594 -0.038863892 0.006927511  
## HGB -0.0251915445 -0.001882147 0.008785769  
## Plat -0.0365987413 -0.050923419 -0.013097285  
## AST.1 0.0147460916 0.036971579 -0.006984545  
## ALT.1 0.0126010279 0.022372362 -0.038013594  
## ALT4 0.0152131165 -0.066063520 -0.012926430  
## ALT.12 -0.0089932319 0.018051337 -0.002510054  
## ALT.24 -0.0078310512 -0.017689654 -0.012505539  
## ALT.36 0.0072955274 0.032989368 -0.042219957  
## ALT.48 0.0162533824 0.002453439 -0.014508932  
## ALT.after.24.w -0.0184119949 0.029835357 0.015662046  
## RNA.Base 0.0287956971 0.003260793 0.014623609  
## RNA.4 -0.0089400410 0.005585634 0.022239601  
## RNA.12 0.0336084823 0.031316011 -0.051714095  
## RNA.EOT 0.0377200117 0.046649645 -0.020161903  
## RNA.EF 0.0247574898 0.081423411 -0.046780163  
## Baseline.histological.Grading -0.0077696366 -0.005632665 0.029627315  
## Baselinehistological.staging 0.0202185646 -0.052109575 0.017945004  
## RBC HGB Plat  
## Age -0.0021617289 -0.0128101035 -2.225244e-03  
## Gender -0.0009591287 -0.0012462736 1.929906e-02  
## BMI -0.0049222797 0.0579871919 -3.093342e-03  
## Fever -0.0296451515 -0.0174055261 -5.403148e-03  
## Nausea.Vomting 0.0179440698 0.0134407842 8.639415e-02  
## Headache 0.0100711252 -0.0293114545 -2.210583e-02  
## Diarrhea -0.0136135746 -0.0615910650 2.831942e-02  
## Fatigue...generalized.bone.ache -0.0219647907 0.0007432193 -6.553223e-05  
## Jaundice -0.0128782594 -0.0251915445 -3.659874e-02  
## Epigastric.pain -0.0388638922 -0.0018821469 -5.092342e-02  
## WBC 0.0069275105 0.0087857692 -1.309728e-02  
## RBC 1.0000000000 0.0423203207 3.243101e-02  
## HGB 0.0423203207 1.0000000000 -1.032016e-02  
## Plat 0.0324310054 -0.0103201587 1.000000e+00  
## AST.1 0.0162590277 -0.0106359196 -5.205259e-03  
## ALT.1 0.0117854102 -0.0147671477 4.758715e-02  
## ALT4 -0.0274783686 0.0227241939 -2.547138e-02  
## ALT.12 0.0170209831 -0.0066414724 -4.358080e-02  
## ALT.24 0.0150903545 0.0042134182 -3.090105e-03  
## ALT.36 0.0509557535 -0.0375974495 4.298291e-03  
## ALT.48 -0.0558255467 -0.0283565519 -3.864539e-03  
## ALT.after.24.w 0.0089237533 -0.0207898743 -3.282598e-02  
## RNA.Base 0.0061754665 -0.0532443788 -4.128450e-02  
## RNA.4 0.0157177405 -0.0025252662 -3.877147e-02  
## RNA.12 -0.0618506827 0.0083109261 5.003812e-02  
## RNA.EOT -0.0257213233 -0.0063885749 3.734002e-02  
## RNA.EF -0.0034067587 0.0035892426 5.711506e-03  
## Baseline.histological.Grading -0.0196617409 0.0211627859 3.398520e-02  
## Baselinehistological.staging 0.0096228169 0.0027524655 -1.728364e-02  
## AST.1 ALT.1 ALT4  
## Age -0.016632599 0.005722864 0.030259565  
## Gender -0.013077713 0.022450410 -0.008720369  
## BMI 0.001806482 0.034036533 0.001416015  
## Fever -0.008626934 0.023237694 -0.017145248  
## Nausea.Vomting 0.009324901 0.056077058 -0.020932254  
## Headache 0.004821864 0.050407635 0.037748213  
## Diarrhea -0.036635909 0.059142008 0.025787126  
## Fatigue...generalized.bone.ache 0.025601187 -0.002681839 -0.072114333  
## Jaundice 0.014746092 0.012601028 0.015213117  
## Epigastric.pain 0.036971579 0.022372362 -0.066063520  
## WBC -0.006984545 -0.038013594 -0.012926430  
## RBC 0.016259028 0.011785410 -0.027478369  
## HGB -0.010635920 -0.014767148 0.022724194  
## Plat -0.005205259 0.047587149 -0.025471382  
## AST.1 1.000000000 0.037942581 0.006912844  
## ALT.1 0.037942581 1.000000000 -0.033151459  
## ALT4 0.006912844 -0.033151459 1.000000000  
## ALT.12 -0.011066622 -0.046876142 0.004047087  
## ALT.24 -0.012951223 -0.040784828 0.028423678  
## ALT.36 -0.007778576 -0.012609090 0.015907258  
## ALT.48 -0.009569205 0.031876840 -0.004701406  
## ALT.after.24.w 0.001885255 -0.004512424 0.019454293  
## RNA.Base -0.001739390 0.036358233 -0.012893033  
## RNA.4 -0.010651988 -0.013260415 -0.010624922  
## RNA.12 -0.003321389 0.016019937 0.005006987  
## RNA.EOT -0.045387637 -0.039379741 0.053356767  
## RNA.EF -0.005009646 -0.026100475 0.014059425  
## Baseline.histological.Grading -0.027109607 -0.010173029 -0.027635903  
## Baselinehistological.staging -0.025125962 0.036866577 -0.014997008  
## ALT.12 ALT.24 ALT.36  
## Age 0.019046099 0.0027115171 -0.008720825  
## Gender 0.009972838 -0.0159186857 0.006086596  
## BMI -0.059658524 0.0079091353 -0.029995451  
## Fever -0.022705179 -0.0481042938 -0.007830448  
## Nausea.Vomting -0.027007108 0.0388911081 0.023808488  
## Headache 0.027285898 0.0101926281 0.017464411  
## Diarrhea -0.065304715 -0.0212493479 0.008486587  
## Fatigue...generalized.bone.ache 0.012595719 0.0007752326 0.021213856  
## Jaundice -0.008993232 -0.0078310512 0.007295527  
## Epigastric.pain 0.018051337 -0.0176896543 0.032989368  
## WBC -0.002510054 -0.0125055395 -0.042219957  
## RBC 0.017020983 0.0150903545 0.050955754  
## HGB -0.006641472 0.0042134182 -0.037597450  
## Plat -0.043580804 -0.0030901048 0.004298291  
## AST.1 -0.011066622 -0.0129512235 -0.007778576  
## ALT.1 -0.046876142 -0.0407848280 -0.012609090  
## ALT4 0.004047087 0.0284236779 0.015907258  
## ALT.12 1.000000000 0.0217147549 -0.006073943  
## ALT.24 0.021714755 1.0000000000 -0.011118450  
## ALT.36 -0.006073943 -0.0111184500 1.000000000  
## ALT.48 0.007503170 -0.0985788912 0.002678538  
## ALT.after.24.w -0.025437719 -0.0311101814 -0.002369731  
## RNA.Base -0.036838805 0.0077340830 -0.005816915  
## RNA.4 -0.016886547 -0.0369293718 -0.033295830  
## RNA.12 -0.026247774 0.0150346412 0.020598257  
## RNA.EOT -0.027191186 0.0015597505 0.027820843  
## RNA.EF -0.022089393 0.0198079911 0.020379689  
## Baseline.histological.Grading -0.002518309 -0.0040839321 0.008018315  
## Baselinehistological.staging 0.000808887 -0.0048880393 -0.006429920  
## ALT.48 ALT.after.24.w RNA.Base  
## Age 0.027556595 0.0038651668 0.022775156  
## Gender -0.020323960 0.0101835990 -0.013370733  
## BMI -0.007866295 -0.0214121117 -0.016418030  
## Fever 0.001238017 0.0004244221 -0.002480106  
## Nausea.Vomting -0.041491279 0.0118379857 0.007975066  
## Headache -0.003555188 -0.0038985885 0.022810095  
## Diarrhea -0.018740594 0.0018310739 0.018339502  
## Fatigue...generalized.bone.ache -0.008982053 0.0359749630 -0.006124375  
## Jaundice 0.016253382 -0.0184119949 0.028795697  
## Epigastric.pain 0.002453439 0.0298353568 0.003260793  
## WBC -0.014508932 0.0156620462 0.014623609  
## RBC -0.055825547 0.0089237533 0.006175466  
## HGB -0.028356552 -0.0207898743 -0.053244379  
## Plat -0.003864539 -0.0328259788 -0.041284499  
## AST.1 -0.009569205 0.0018852553 -0.001739390  
## ALT.1 0.031876840 -0.0045124244 0.036358233  
## ALT4 -0.004701406 0.0194542929 -0.012893033  
## ALT.12 0.007503170 -0.0254377186 -0.036838805  
## ALT.24 -0.098578891 -0.0311101814 0.007734083  
## ALT.36 0.002678538 -0.0023697314 -0.005816915  
## ALT.48 1.000000000 0.0325513291 0.021303638  
## ALT.after.24.w 0.032551329 1.0000000000 0.030643366  
## RNA.Base 0.021303638 0.0306433664 1.000000000  
## RNA.4 -0.007758587 0.0334836202 0.020359689  
## RNA.12 0.034132252 -0.0123525403 -0.004939601  
## RNA.EOT -0.002711802 0.0243281017 0.011600013  
## RNA.EF 0.010787434 0.0151944470 0.010872596  
## Baseline.histological.Grading 0.038719861 0.0203747780 -0.020187670  
## Baselinehistological.staging -0.013533125 0.0339187232 0.029410558  
## RNA.4 RNA.12 RNA.EOT  
## Age -1.269912e-02 0.001578231 -0.048702492  
## Gender -2.331480e-02 -0.031378959 0.035272237  
## BMI 3.686360e-02 -0.009189913 -0.021427851  
## Fever 7.273955e-04 0.019956658 0.017027589  
## Nausea.Vomting -2.951092e-02 -0.011249666 0.005394907  
## Headache -4.161337e-02 0.011729275 -0.008541374  
## Diarrhea -8.918434e-05 -0.012324174 0.021348463  
## Fatigue...generalized.bone.ache -5.063470e-02 0.031219510 0.013777980  
## Jaundice -8.940041e-03 0.033608482 0.037720012  
## Epigastric.pain 5.585634e-03 0.031316011 0.046649645  
## WBC 2.223960e-02 -0.051714095 -0.020161903  
## RBC 1.571774e-02 -0.061850683 -0.025721323  
## HGB -2.525266e-03 0.008310926 -0.006388575  
## Plat -3.877147e-02 0.050038116 0.037340022  
## AST.1 -1.065199e-02 -0.003321389 -0.045387637  
## ALT.1 -1.326042e-02 0.016019937 -0.039379741  
## ALT4 -1.062492e-02 0.005006987 0.053356767  
## ALT.12 -1.688655e-02 -0.026247774 -0.027191186  
## ALT.24 -3.692937e-02 0.015034641 0.001559751  
## ALT.36 -3.329583e-02 0.020598257 0.027820843  
## ALT.48 -7.758587e-03 0.034132252 -0.002711802  
## ALT.after.24.w 3.348362e-02 -0.012352540 0.024328102  
## RNA.Base 2.035969e-02 -0.004939601 0.011600013  
## RNA.4 1.000000e+00 -0.031167948 0.009534555  
## RNA.12 -3.116795e-02 1.000000000 0.407536735  
## RNA.EOT 9.534555e-03 0.407536735 1.000000000  
## RNA.EF -5.391344e-02 0.420023489 0.445987627  
## Baseline.histological.Grading -4.881739e-02 -0.047936159 -0.046294488  
## Baselinehistological.staging -3.294585e-02 0.034448730 -0.017486125  
## RNA.EF Baseline.histological.Grading  
## Age -0.030296896 -0.040705291  
## Gender -0.015292434 0.014558752  
## BMI -0.044901060 -0.023045099  
## Fever -0.012405602 -0.031562847  
## Nausea.Vomting 0.020943553 -0.056781796  
## Headache -0.007523994 -0.011240705  
## Diarrhea 0.042432875 0.031891483  
## Fatigue...generalized.bone.ache 0.006347790 -0.022027146  
## Jaundice 0.024757490 -0.007769637  
## Epigastric.pain 0.081423411 -0.005632665  
## WBC -0.046780163 0.029627315  
## RBC -0.003406759 -0.019661741  
## HGB 0.003589243 0.021162786  
## Plat 0.005711506 0.033985201  
## AST.1 -0.005009646 -0.027109607  
## ALT.1 -0.026100475 -0.010173029  
## ALT4 0.014059425 -0.027635903  
## ALT.12 -0.022089393 -0.002518309  
## ALT.24 0.019807991 -0.004083932  
## ALT.36 0.020379689 0.008018315  
## ALT.48 0.010787434 0.038719861  
## ALT.after.24.w 0.015194447 0.020374778  
## RNA.Base 0.010872596 -0.020187670  
## RNA.4 -0.053913436 -0.048817390  
## RNA.12 0.420023489 -0.047936159  
## RNA.EOT 0.445987627 -0.046294488  
## RNA.EF 1.000000000 0.004018185  
## Baseline.histological.Grading 0.004018185 1.000000000  
## Baselinehistological.staging 0.030518759 -0.047071590  
## Baselinehistological.staging  
## Age -0.019599169  
## Gender 0.011955338  
## BMI -0.057258857  
## Fever -0.030975176  
## Nausea.Vomting 0.054906374  
## Headache -0.001996058  
## Diarrhea -0.005639269  
## Fatigue...generalized.bone.ache 0.014562612  
## Jaundice 0.020218565  
## Epigastric.pain -0.052109575  
## WBC 0.017945004  
## RBC 0.009622817  
## HGB 0.002752465  
## Plat -0.017283639  
## AST.1 -0.025125962  
## ALT.1 0.036866577  
## ALT4 -0.014997008  
## ALT.12 0.000808887  
## ALT.24 -0.004888039  
## ALT.36 -0.006429920  
## ALT.48 -0.013533125  
## ALT.after.24.w 0.033918723  
## RNA.Base 0.029410558  
## RNA.4 -0.032945849  
## RNA.12 0.034448730  
## RNA.EOT -0.017486125  
## RNA.EF 0.030518759  
## Baseline.histological.Grading -0.047071590  
## Baselinehistological.staging 1.000000000

# Using prcomp to compute the principal components (eigenvalues and eigenvectors).   
#With scale=TRUE, variable means are set to zero, and variances set to one  
x\_pca <- prcomp(HCV,scale=TRUE)  
x\_pca

## Standard deviations (1, .., p=29):  
## [1] 1.3769419 1.1174363 1.1113462 1.0916269 1.0782624 1.0707535 1.0626130  
## [8] 1.0521221 1.0306635 1.0292621 1.0172925 1.0141324 1.0121337 1.0049132  
## [15] 0.9926278 0.9870471 0.9805851 0.9792502 0.9631161 0.9530072 0.9405476  
## [22] 0.9304068 0.9283507 0.9201871 0.9127624 0.8919466 0.8754930 0.7514594  
## [29] 0.7276547  
##   
## Rotation (n x k) = (29 x 29):  
## PC1 PC2 PC3  
## Age 0.043992545 -0.035109552 0.15542945  
## Gender 0.008756739 -0.031538265 0.01225109  
## BMI 0.059438630 0.004938750 -0.21133076  
## Fever -0.018638143 -0.016959013 0.14647417  
## Nausea.Vomting -0.018052038 0.523815972 0.02931082  
## Headache -0.007027392 0.124936603 0.20495296  
## Diarrhea -0.037779605 0.112284699 0.31055207  
## Fatigue...generalized.bone.ache -0.039589819 -0.113283136 0.02431225  
## Jaundice -0.060924334 -0.039975480 0.15722114  
## Epigastric.pain -0.091593158 -0.314657318 0.08262704  
## WBC 0.079856632 -0.207631406 -0.09056514  
## RBC 0.062330494 0.242506719 -0.14413534  
## HGB 0.012151709 0.030902639 -0.39565562  
## Plat -0.051058807 0.378757510 0.01108177  
## AST.1 0.028793449 0.013713351 0.04919642  
## ALT.1 0.018974095 0.262467291 0.39485581  
## ALT4 -0.040780344 0.034435407 -0.08938033  
## ALT.12 0.047599395 -0.157661272 -0.16534036  
## ALT.24 -0.018567737 0.212800327 -0.32270954  
## ALT.36 -0.054830139 0.088193685 0.08694682  
## ALT.48 -0.026185451 -0.255155588 0.31754417  
## ALT.after.24.w -0.019391592 -0.145425335 0.17697872  
## RNA.Base -0.013683156 -0.002907261 0.30619803  
## RNA.4 0.056900757 -0.183428054 -0.04195740  
## RNA.12 -0.552679994 0.001687528 -0.02336655  
## RNA.EOT -0.563868495 -0.039526114 -0.07119686  
## RNA.EF -0.570538298 -0.011466450 -0.04305053  
## Baseline.histological.Grading 0.051971451 -0.140448509 0.00159462  
## Baselinehistological.staging -0.032348367 0.213485043 0.10947878  
## PC4 PC5 PC6  
## Age -0.21681173 0.1846420065 -0.119335744  
## Gender 0.11432799 -0.2272447661 -0.129941452  
## BMI 0.43507918 0.2105290684 0.138751853  
## Fever 0.11272529 -0.0194418421 0.038739682  
## Nausea.Vomting 0.03619724 0.0100755834 0.154832627  
## Headache -0.22055035 0.0328136750 0.021126197  
## Diarrhea 0.09505129 0.1941946991 -0.298273324  
## Fatigue...generalized.bone.ache 0.03182207 -0.5018034613 0.198223444  
## Jaundice -0.28037289 0.0021353121 0.071342034  
## Epigastric.pain 0.13208431 -0.1562642350 0.204325788  
## WBC 0.08357598 0.0941100088 0.059072957  
## RBC -0.04346368 -0.0591444285 0.131410007  
## HGB 0.16325012 0.0113733042 0.050972442  
## Plat 0.28487255 -0.1382597553 -0.292329023  
## AST.1 0.04294564 -0.1320669862 0.293088798  
## ALT.1 0.25382822 -0.0368534659 0.124049812  
## ALT4 -0.27015280 0.4057377396 -0.211705731  
## ALT.12 -0.38085696 -0.2283790159 -0.025570994  
## ALT.24 -0.24975390 0.0210555092 0.016012868  
## ALT.36 -0.12844262 -0.2103541059 -0.091464391  
## ALT.48 0.06703057 0.0024901089 -0.163258344  
## ALT.after.24.w 0.01737588 0.0255244283 0.160800225  
## RNA.Base -0.11191128 0.1894906165 0.253225163  
## RNA.4 0.16586510 0.3981169569 0.253614947  
## RNA.12 0.03313714 0.0093530466 0.028523014  
## RNA.EOT 0.03930584 0.0771614060 -0.007589210  
## RNA.EF -0.00047804 0.0008019717 -0.005084989  
## Baseline.histological.Grading 0.13066428 -0.1768391380 -0.495774897  
## Baselinehistological.staging -0.19354490 -0.1009923507 0.238249870  
## PC7 PC8 PC9  
## Age -0.042151258 -0.092711696 0.2310687387  
## Gender 0.263811847 0.053027083 -0.0221442996  
## BMI -0.167735674 -0.059878474 0.1885791751  
## Fever -0.197473458 0.419373154 -0.2292468196  
## Nausea.Vomting 0.048505970 0.016365075 -0.0031939071  
## Headache -0.397142099 -0.135134449 0.0764211282  
## Diarrhea 0.085123454 -0.389096404 -0.0104198131  
## Fatigue...generalized.bone.ache 0.047993768 -0.025473987 0.1050686348  
## Jaundice 0.190026454 0.158764127 0.1895062897  
## Epigastric.pain -0.243848358 -0.454820200 0.0450811190  
## WBC 0.398880860 -0.227409776 0.2282508690  
## RBC 0.089827176 -0.203505645 -0.3976295624  
## HGB 0.009787154 0.108687228 0.1499400235  
## Plat 0.060444390 0.037209264 0.0008017486  
## AST.1 -0.247716244 -0.042083254 0.1344071090  
## ALT.1 -0.118150356 -0.010220486 0.2267503395  
## ALT4 -0.106887764 0.073589278 0.0040181535  
## ALT.12 -0.128087604 0.048967429 -0.0073550730  
## ALT.24 -0.036585058 -0.273042070 0.2003668327  
## ALT.36 -0.127372645 -0.200458082 -0.4761643103  
## ALT.48 -0.048892184 0.292254953 0.0814653580  
## ALT.after.24.w 0.251862171 -0.099763509 -0.2716706630  
## RNA.Base 0.166222168 -0.149289361 0.0414314697  
## RNA.4 0.081830871 0.028674419 -0.3474682911  
## RNA.12 -0.043555163 0.082906629 0.0976131773  
## RNA.EOT 0.054683189 0.001888001 -0.0788898822  
## RNA.EF 0.031349571 -0.080190606 0.0041471397  
## Baseline.histological.Grading 0.132344857 -0.163456559 0.0389720863  
## Baselinehistological.staging 0.425584703 0.131300031 0.1172864246  
## PC10 PC11 PC12  
## Age 0.101062432 0.154185738 0.085894242  
## Gender 0.518634439 0.270371087 0.270099488  
## BMI 0.060170011 0.199958221 0.021897222  
## Fever 0.359833951 -0.085038064 -0.080908821  
## Nausea.Vomting -0.166635777 -0.044027191 -0.154656796  
## Headache 0.015695757 0.232219513 -0.048436964  
## Diarrhea 0.226747494 0.016925695 -0.023346655  
## Fatigue...generalized.bone.ache 0.243222833 0.151430455 -0.021294780  
## Jaundice -0.041766371 -0.323888773 0.460687391  
## Epigastric.pain -0.048947237 -0.024452905 -0.068186113  
## WBC -0.005904584 -0.088288768 0.194271958  
## RBC -0.181473615 0.071273178 0.317126381  
## HGB -0.225227312 0.350499350 0.118499437  
## Plat -0.060736740 -0.150003706 0.050721610  
## AST.1 -0.133747062 -0.075309650 0.484155601  
## ALT.1 -0.025205894 0.129692139 0.109836982  
## ALT4 0.057499614 0.378751838 0.283243802  
## ALT.12 -0.054029735 0.048275197 -0.139276693  
## ALT.24 0.168917891 -0.125629599 -0.210278600  
## ALT.36 -0.077498963 0.051069990 0.226451590  
## ALT.48 -0.416064225 0.112766360 -0.029836628  
## ALT.after.24.w -0.129513572 0.460174278 -0.136560146  
## RNA.Base 0.005084518 -0.108255875 -0.096859502  
## RNA.4 0.028198236 -0.178650553 -0.013132259  
## RNA.12 -0.029351307 -0.003515811 -0.003647908  
## RNA.EOT 0.069342546 0.003495896 0.050208350  
## RNA.EF -0.073474034 0.004253255 -0.004804096  
## Baseline.histological.Grading -0.293927596 -0.046803949 -0.043279031  
## Baselinehistological.staging -0.100696433 0.236834784 -0.196099067  
## PC13 PC14 PC15  
## Age -0.610849166 -0.192513710 -0.076820314  
## Gender 0.012234701 0.173086728 -0.003118128  
## BMI 0.020858185 -0.011587390 -0.337552741  
## Fever 0.157045028 0.192810372 0.058719406  
## Nausea.Vomting 0.050881289 -0.097940179 0.134747677  
## Headache 0.158358075 0.374382004 0.000268984  
## Diarrhea -0.034498227 0.029612973 0.200477833  
## Fatigue...generalized.bone.ache -0.071386881 -0.328838694 -0.187234994  
## Jaundice 0.166634394 0.096279644 -0.122056300  
## Epigastric.pain -0.015241698 0.130181384 0.155406514  
## WBC -0.024082470 0.184886688 0.119236301  
## RBC -0.259483967 0.266813062 -0.099094500  
## HGB -0.005708410 0.218417212 -0.099782280  
## Plat -0.245135251 -0.162082491 0.138360295  
## AST.1 0.150600627 -0.305179267 0.374362358  
## ALT.1 -0.044210560 0.248795550 0.018658962  
## ALT4 0.229267643 -0.182527131 0.107721973  
## ALT.12 -0.290560981 0.265972249 0.261320081  
## ALT.24 0.172157123 -0.160992682 -0.144255551  
## ALT.36 0.030053303 -0.097825093 -0.388911860  
## ALT.48 -0.153267258 -0.084842004 -0.196774018  
## ALT.after.24.w 0.183367274 -0.291082096 0.218514104  
## RNA.Base 0.094907793 0.031700799 -0.432800165  
## RNA.4 -0.166699318 0.036054357 0.113771468  
## RNA.12 -0.091435641 0.007254644 -0.032870578  
## RNA.EOT -0.013004549 0.042827715 0.013318237  
## RNA.EF -0.001352823 0.055622375 0.041337270  
## Baseline.histological.Grading 0.341271209 0.124692985 -0.035261728  
## Baselinehistological.staging 0.023540256 0.148314068 0.087862169  
## PC16 PC17 PC18  
## Age -9.986393e-02 0.221593456 0.2819167843  
## Gender -1.232041e-01 -0.284910488 -0.1549410044  
## BMI 7.578959e-02 -0.317169074 -0.0046015313  
## Fever -1.414214e-01 0.189442653 0.4377913553  
## Nausea.Vomting 1.539021e-01 -0.191205080 0.2999953876  
## Headache -1.125526e-01 -0.130286610 0.1787696678  
## Diarrhea 1.896760e-01 0.249533588 -0.1798814512  
## Fatigue...generalized.bone.ache 2.427299e-05 0.148413584 0.0005001193  
## Jaundice 1.142111e-01 0.100510287 0.1272101270  
## Epigastric.pain 2.041251e-01 0.035992000 0.1445444785  
## WBC 9.573648e-02 -0.292961642 0.4673628007  
## RBC -3.300871e-01 0.122445615 -0.0175000226  
## HGB 3.833239e-02 0.461936210 0.1067014609  
## Plat -1.774477e-01 -0.191837955 0.1636028067  
## AST.1 -2.030327e-01 -0.015771691 -0.1560666583  
## ALT.1 -4.892178e-02 0.010038654 -0.2145063676  
## ALT4 6.994638e-02 -0.115654410 -0.0378560818  
## ALT.12 -1.078178e-01 -0.332583825 -0.1119019738  
## ALT.24 -2.464723e-01 -0.045489551 -0.0317006762  
## ALT.36 4.112329e-01 -0.145559282 0.0977491837  
## ALT.48 -3.632970e-02 -0.241209065 -0.0496505462  
## ALT.after.24.w -2.556379e-01 -0.007828681 0.2528013852  
## RNA.Base -3.997742e-01 -0.064136065 -0.0478479847  
## RNA.4 -9.762265e-03 -0.031552077 -0.2313691708  
## RNA.12 -3.449188e-02 -0.005111216 -0.0125169007  
## RNA.EOT -5.261154e-02 -0.085537127 0.0165288103  
## RNA.EF -5.650034e-02 0.039901271 -0.0344073069  
## Baseline.histological.Grading -2.543658e-01 0.109173238 -0.0221999233  
## Baselinehistological.staging 2.873162e-01 0.034727509 -0.1933218689  
## PC19 PC20 PC21  
## Age 0.033878135 0.1250960143 -0.184676367  
## Gender -0.034617749 0.3015485423 0.024572230  
## BMI -0.039087959 -0.1337017808 -0.158624950  
## Fever 0.220712018 0.0896603933 -0.165460547  
## Nausea.Vomting -0.166456626 0.3464351856 0.213169402  
## Headache -0.225413546 -0.4427526623 0.160257638  
## Diarrhea -0.005619315 -0.0222037283 0.145855350  
## Fatigue...generalized.bone.ache -0.255162169 -0.2781646218 0.264372113  
## Jaundice -0.485354625 0.0335852672 -0.070371631  
## Epigastric.pain 0.007799804 0.2478615499 0.005667732  
## WBC 0.185786903 -0.1546584766 -0.015569910  
## RBC 0.072476367 -0.2021559950 -0.151371505  
## HGB -0.068628286 0.2818073329 0.297190978  
## Plat -0.082057961 -0.1515505766 0.194397131  
## AST.1 0.291314830 0.0230313382 0.003986976  
## ALT.1 -0.170609021 0.2141343418 -0.285146408  
## ALT4 0.050188299 0.0183968762 0.152543294  
## ALT.12 -0.093554556 0.2234450444 0.134693063  
## ALT.24 -0.130374350 0.1835106199 -0.405800567  
## ALT.36 0.090254482 0.1625502377 -0.090083668  
## ALT.48 0.002809029 0.0686603486 -0.079116491  
## ALT.after.24.w -0.253673948 0.0444184391 -0.190393706  
## RNA.Base 0.267658587 0.2014097769 0.450081119  
## RNA.4 -0.389415377 0.0049104226 0.038645179  
## RNA.12 0.017460063 -0.0719346913 -0.090568034  
## RNA.EOT -0.042387013 0.0003375382 0.054530404  
## RNA.EF 0.068074379 0.0229374206 -0.031728778  
## Baseline.histological.Grading -0.064314744 0.0345604103 -0.081408684  
## Baselinehistological.staging 0.260784721 -0.1814789260 -0.187877156  
## PC22 PC23 PC24  
## Age -0.095154885 0.250520744 0.2259123010  
## Gender -0.024648994 0.364377529 -0.1600279651  
## BMI 0.265154364 -0.018308050 0.2329983526  
## Fever 0.008394739 -0.214370198 0.1489006718  
## Nausea.Vomting 0.284136965 0.163492974 0.1375933024  
## Headache -0.139964841 0.318075216 0.0005609053  
## Diarrhea 0.350664173 -0.132766303 0.0908253494  
## Fatigue...generalized.bone.ache 0.037265593 -0.280635584 0.1750697656  
## Jaundice 0.119546678 -0.033725166 -0.0663860219  
## Epigastric.pain -0.180749779 -0.067495536 -0.3676288194  
## WBC -0.055997361 -0.189419747 0.1214745284  
## RBC 0.272014244 -0.148615243 -0.1727082246  
## HGB -0.137551603 0.014433452 -0.0064433331  
## Plat -0.409604043 -0.154776675 -0.1767075092  
## AST.1 -0.003286400 0.184548933 0.2168759748  
## ALT.1 -0.160544888 -0.367264801 0.1002494454  
## ALT4 -0.150412099 -0.400562306 -0.0643801137  
## ALT.12 0.145840012 -0.281827183 0.3122215066  
## ALT.24 -0.134140582 -0.112158193 -0.1237935499  
## ALT.36 -0.224889089 -0.003750505 0.2425040072  
## ALT.48 0.148913600 -0.036020911 -0.2613294800  
## ALT.after.24.w 0.060110920 -0.010951108 -0.0368262112  
## RNA.Base -0.094746088 -0.085384530 0.0466147573  
## RNA.4 -0.348157141 0.077621784 0.2490613536  
## RNA.12 -0.078660840 0.014041708 0.1237490061  
## RNA.EOT 0.030657122 -0.003110141 0.0169899082  
## RNA.EF 0.111019044 0.047247064 0.0513081736  
## Baseline.histological.Grading -0.102075646 0.076645901 0.4249284533  
## Baselinehistological.staging -0.245762342 0.040140681 0.0903141155  
## PC25 PC26 PC27  
## Age -0.087755795 -0.015845915 0.167595903  
## Gender 0.082073236 -0.007507849 0.084978912  
## BMI -0.183603247 -0.395364948 0.071208447  
## Fever 0.176145898 -0.208624796 0.108328457  
## Nausea.Vomting 0.122850164 0.142621253 0.312377322  
## Headache 0.165011231 0.009724297 -0.066306159  
## Diarrhea 0.285980206 -0.274560100 -0.188905627  
## Fatigue...generalized.bone.ache 0.199994879 0.114441484 0.220809937  
## Jaundice -0.138673236 -0.312470364 -0.001677752  
## Epigastric.pain -0.089855877 -0.214053889 0.351724670  
## WBC 0.237157003 0.247791219 -0.140517774  
## RBC 0.066053038 -0.002413632 0.250011381  
## HGB 0.196279615 -0.106626694 -0.253844238  
## Plat -0.087328031 -0.347175803 -0.078778230  
## AST.1 0.180055169 -0.141096316 -0.073787001  
## ALT.1 -0.113248681 0.356709601 -0.102350269  
## ALT4 -0.030534805 0.049171696 0.347337383  
## ALT.12 -0.076909832 -0.216773237 -0.134335404  
## ALT.24 0.404854208 -0.099264735 -0.075855211  
## ALT.36 0.076306745 -0.030024396 -0.217970041  
## ALT.48 0.525254511 -0.076891600 0.058383130  
## ALT.after.24.w -0.178351425 -0.105056382 -0.280022183  
## RNA.Base -0.097361412 -0.109430106 -0.035477712  
## RNA.4 0.280645080 -0.028353453 0.155366559  
## RNA.12 0.006222648 0.019631366 -0.099177869  
## RNA.EOT -0.010427407 0.067567541 0.004294420  
## RNA.EF 0.002853328 0.028554413 0.074674624  
## Baseline.histological.Grading -0.039551791 -0.016981727 0.341921301  
## Baselinehistological.staging 0.056343249 -0.333286704 0.193455971  
## PC28 PC29  
## Age -0.084058601 0.026266251  
## Gender 0.100957523 -0.053310795  
## BMI -0.040003559 -0.022004055  
## Fever -0.020409807 -0.027860432  
## Nausea.Vomting 0.090436746 0.038176890  
## Headache -0.038299667 -0.022700522  
## Diarrhea 0.065641842 0.046375455  
## Fatigue...generalized.bone.ache -0.020511814 -0.024599846  
## Jaundice 0.002958907 -0.023029683  
## Epigastric.pain 0.074456267 0.062631962  
## WBC 0.015899418 -0.044671042  
## RBC 0.099104845 0.058879844  
## HGB -0.032331867 0.005993503  
## Plat -0.055892075 -0.076097550  
## AST.1 -0.053137802 0.057518339  
## ALT.1 -0.091307086 -0.009958487  
## ALT4 0.080236141 -0.043959324  
## ALT.12 -0.001343677 -0.001719566  
## ALT.24 -0.035865197 0.018626252  
## ALT.36 -0.027519444 -0.029253982  
## ALT.48 -0.037938450 0.017067948  
## ALT.after.24.w 0.037380211 -0.015134311  
## RNA.Base 0.035086530 -0.004213600  
## RNA.4 0.014169407 -0.083058025  
## RNA.12 0.773860875 0.132072657  
## RNA.EOT -0.494377671 0.619400381  
## RNA.EF -0.269128950 -0.739354083  
## Baseline.histological.Grading 0.031931323 0.090847367  
## Baselinehistological.staging -0.076948279 0.068968779

summary(x\_pca)

## Importance of components:  
## PC1 PC2 PC3 PC4 PC5 PC6  
## Standard deviation 1.37694 1.11744 1.11135 1.09163 1.07826 1.07075  
## Proportion of Variance 0.06538 0.04306 0.04259 0.04109 0.04009 0.03953  
## Cumulative Proportion 0.06538 0.10844 0.15102 0.19212 0.23221 0.27174  
## PC7 PC8 PC9 PC10 PC11 PC12  
## Standard deviation 1.06261 1.05212 1.03066 1.02926 1.01729 1.01413  
## Proportion of Variance 0.03894 0.03817 0.03663 0.03653 0.03569 0.03546  
## Cumulative Proportion 0.31068 0.34885 0.38548 0.42201 0.45770 0.49316  
## PC13 PC14 PC15 PC16 PC17 PC18  
## Standard deviation 1.01213 1.00491 0.99263 0.9870 0.98059 0.97925  
## Proportion of Variance 0.03532 0.03482 0.03398 0.0336 0.03316 0.03307  
## Cumulative Proportion 0.52848 0.56331 0.59728 0.6309 0.66404 0.69710  
## PC19 PC20 PC21 PC22 PC23 PC24  
## Standard deviation 0.96312 0.95301 0.9405 0.93041 0.92835 0.9202  
## Proportion of Variance 0.03199 0.03132 0.0305 0.02985 0.02972 0.0292  
## Cumulative Proportion 0.72909 0.76041 0.7909 0.82076 0.85048 0.8797  
## PC25 PC26 PC27 PC28 PC29  
## Standard deviation 0.91276 0.89195 0.87549 0.75146 0.72765  
## Proportion of Variance 0.02873 0.02743 0.02643 0.01947 0.01826  
## Cumulative Proportion 0.90841 0.93584 0.96227 0.98174 1.00000

x\_pca$rotation

## PC1 PC2 PC3  
## Age 0.043992545 -0.035109552 0.15542945  
## Gender 0.008756739 -0.031538265 0.01225109  
## BMI 0.059438630 0.004938750 -0.21133076  
## Fever -0.018638143 -0.016959013 0.14647417  
## Nausea.Vomting -0.018052038 0.523815972 0.02931082  
## Headache -0.007027392 0.124936603 0.20495296  
## Diarrhea -0.037779605 0.112284699 0.31055207  
## Fatigue...generalized.bone.ache -0.039589819 -0.113283136 0.02431225  
## Jaundice -0.060924334 -0.039975480 0.15722114  
## Epigastric.pain -0.091593158 -0.314657318 0.08262704  
## WBC 0.079856632 -0.207631406 -0.09056514  
## RBC 0.062330494 0.242506719 -0.14413534  
## HGB 0.012151709 0.030902639 -0.39565562  
## Plat -0.051058807 0.378757510 0.01108177  
## AST.1 0.028793449 0.013713351 0.04919642  
## ALT.1 0.018974095 0.262467291 0.39485581  
## ALT4 -0.040780344 0.034435407 -0.08938033  
## ALT.12 0.047599395 -0.157661272 -0.16534036  
## ALT.24 -0.018567737 0.212800327 -0.32270954  
## ALT.36 -0.054830139 0.088193685 0.08694682  
## ALT.48 -0.026185451 -0.255155588 0.31754417  
## ALT.after.24.w -0.019391592 -0.145425335 0.17697872  
## RNA.Base -0.013683156 -0.002907261 0.30619803  
## RNA.4 0.056900757 -0.183428054 -0.04195740  
## RNA.12 -0.552679994 0.001687528 -0.02336655  
## RNA.EOT -0.563868495 -0.039526114 -0.07119686  
## RNA.EF -0.570538298 -0.011466450 -0.04305053  
## Baseline.histological.Grading 0.051971451 -0.140448509 0.00159462  
## Baselinehistological.staging -0.032348367 0.213485043 0.10947878  
## PC4 PC5 PC6  
## Age -0.21681173 0.1846420065 -0.119335744  
## Gender 0.11432799 -0.2272447661 -0.129941452  
## BMI 0.43507918 0.2105290684 0.138751853  
## Fever 0.11272529 -0.0194418421 0.038739682  
## Nausea.Vomting 0.03619724 0.0100755834 0.154832627  
## Headache -0.22055035 0.0328136750 0.021126197  
## Diarrhea 0.09505129 0.1941946991 -0.298273324  
## Fatigue...generalized.bone.ache 0.03182207 -0.5018034613 0.198223444  
## Jaundice -0.28037289 0.0021353121 0.071342034  
## Epigastric.pain 0.13208431 -0.1562642350 0.204325788  
## WBC 0.08357598 0.0941100088 0.059072957  
## RBC -0.04346368 -0.0591444285 0.131410007  
## HGB 0.16325012 0.0113733042 0.050972442  
## Plat 0.28487255 -0.1382597553 -0.292329023  
## AST.1 0.04294564 -0.1320669862 0.293088798  
## ALT.1 0.25382822 -0.0368534659 0.124049812  
## ALT4 -0.27015280 0.4057377396 -0.211705731  
## ALT.12 -0.38085696 -0.2283790159 -0.025570994  
## ALT.24 -0.24975390 0.0210555092 0.016012868  
## ALT.36 -0.12844262 -0.2103541059 -0.091464391  
## ALT.48 0.06703057 0.0024901089 -0.163258344  
## ALT.after.24.w 0.01737588 0.0255244283 0.160800225  
## RNA.Base -0.11191128 0.1894906165 0.253225163  
## RNA.4 0.16586510 0.3981169569 0.253614947  
## RNA.12 0.03313714 0.0093530466 0.028523014  
## RNA.EOT 0.03930584 0.0771614060 -0.007589210  
## RNA.EF -0.00047804 0.0008019717 -0.005084989  
## Baseline.histological.Grading 0.13066428 -0.1768391380 -0.495774897  
## Baselinehistological.staging -0.19354490 -0.1009923507 0.238249870  
## PC7 PC8 PC9  
## Age -0.042151258 -0.092711696 0.2310687387  
## Gender 0.263811847 0.053027083 -0.0221442996  
## BMI -0.167735674 -0.059878474 0.1885791751  
## Fever -0.197473458 0.419373154 -0.2292468196  
## Nausea.Vomting 0.048505970 0.016365075 -0.0031939071  
## Headache -0.397142099 -0.135134449 0.0764211282  
## Diarrhea 0.085123454 -0.389096404 -0.0104198131  
## Fatigue...generalized.bone.ache 0.047993768 -0.025473987 0.1050686348  
## Jaundice 0.190026454 0.158764127 0.1895062897  
## Epigastric.pain -0.243848358 -0.454820200 0.0450811190  
## WBC 0.398880860 -0.227409776 0.2282508690  
## RBC 0.089827176 -0.203505645 -0.3976295624  
## HGB 0.009787154 0.108687228 0.1499400235  
## Plat 0.060444390 0.037209264 0.0008017486  
## AST.1 -0.247716244 -0.042083254 0.1344071090  
## ALT.1 -0.118150356 -0.010220486 0.2267503395  
## ALT4 -0.106887764 0.073589278 0.0040181535  
## ALT.12 -0.128087604 0.048967429 -0.0073550730  
## ALT.24 -0.036585058 -0.273042070 0.2003668327  
## ALT.36 -0.127372645 -0.200458082 -0.4761643103  
## ALT.48 -0.048892184 0.292254953 0.0814653580  
## ALT.after.24.w 0.251862171 -0.099763509 -0.2716706630  
## RNA.Base 0.166222168 -0.149289361 0.0414314697  
## RNA.4 0.081830871 0.028674419 -0.3474682911  
## RNA.12 -0.043555163 0.082906629 0.0976131773  
## RNA.EOT 0.054683189 0.001888001 -0.0788898822  
## RNA.EF 0.031349571 -0.080190606 0.0041471397  
## Baseline.histological.Grading 0.132344857 -0.163456559 0.0389720863  
## Baselinehistological.staging 0.425584703 0.131300031 0.1172864246  
## PC10 PC11 PC12  
## Age 0.101062432 0.154185738 0.085894242  
## Gender 0.518634439 0.270371087 0.270099488  
## BMI 0.060170011 0.199958221 0.021897222  
## Fever 0.359833951 -0.085038064 -0.080908821  
## Nausea.Vomting -0.166635777 -0.044027191 -0.154656796  
## Headache 0.015695757 0.232219513 -0.048436964  
## Diarrhea 0.226747494 0.016925695 -0.023346655  
## Fatigue...generalized.bone.ache 0.243222833 0.151430455 -0.021294780  
## Jaundice -0.041766371 -0.323888773 0.460687391  
## Epigastric.pain -0.048947237 -0.024452905 -0.068186113  
## WBC -0.005904584 -0.088288768 0.194271958  
## RBC -0.181473615 0.071273178 0.317126381  
## HGB -0.225227312 0.350499350 0.118499437  
## Plat -0.060736740 -0.150003706 0.050721610  
## AST.1 -0.133747062 -0.075309650 0.484155601  
## ALT.1 -0.025205894 0.129692139 0.109836982  
## ALT4 0.057499614 0.378751838 0.283243802  
## ALT.12 -0.054029735 0.048275197 -0.139276693  
## ALT.24 0.168917891 -0.125629599 -0.210278600  
## ALT.36 -0.077498963 0.051069990 0.226451590  
## ALT.48 -0.416064225 0.112766360 -0.029836628  
## ALT.after.24.w -0.129513572 0.460174278 -0.136560146  
## RNA.Base 0.005084518 -0.108255875 -0.096859502  
## RNA.4 0.028198236 -0.178650553 -0.013132259  
## RNA.12 -0.029351307 -0.003515811 -0.003647908  
## RNA.EOT 0.069342546 0.003495896 0.050208350  
## RNA.EF -0.073474034 0.004253255 -0.004804096  
## Baseline.histological.Grading -0.293927596 -0.046803949 -0.043279031  
## Baselinehistological.staging -0.100696433 0.236834784 -0.196099067  
## PC13 PC14 PC15  
## Age -0.610849166 -0.192513710 -0.076820314  
## Gender 0.012234701 0.173086728 -0.003118128  
## BMI 0.020858185 -0.011587390 -0.337552741  
## Fever 0.157045028 0.192810372 0.058719406  
## Nausea.Vomting 0.050881289 -0.097940179 0.134747677  
## Headache 0.158358075 0.374382004 0.000268984  
## Diarrhea -0.034498227 0.029612973 0.200477833  
## Fatigue...generalized.bone.ache -0.071386881 -0.328838694 -0.187234994  
## Jaundice 0.166634394 0.096279644 -0.122056300  
## Epigastric.pain -0.015241698 0.130181384 0.155406514  
## WBC -0.024082470 0.184886688 0.119236301  
## RBC -0.259483967 0.266813062 -0.099094500  
## HGB -0.005708410 0.218417212 -0.099782280  
## Plat -0.245135251 -0.162082491 0.138360295  
## AST.1 0.150600627 -0.305179267 0.374362358  
## ALT.1 -0.044210560 0.248795550 0.018658962  
## ALT4 0.229267643 -0.182527131 0.107721973  
## ALT.12 -0.290560981 0.265972249 0.261320081  
## ALT.24 0.172157123 -0.160992682 -0.144255551  
## ALT.36 0.030053303 -0.097825093 -0.388911860  
## ALT.48 -0.153267258 -0.084842004 -0.196774018  
## ALT.after.24.w 0.183367274 -0.291082096 0.218514104  
## RNA.Base 0.094907793 0.031700799 -0.432800165  
## RNA.4 -0.166699318 0.036054357 0.113771468  
## RNA.12 -0.091435641 0.007254644 -0.032870578  
## RNA.EOT -0.013004549 0.042827715 0.013318237  
## RNA.EF -0.001352823 0.055622375 0.041337270  
## Baseline.histological.Grading 0.341271209 0.124692985 -0.035261728  
## Baselinehistological.staging 0.023540256 0.148314068 0.087862169  
## PC16 PC17 PC18  
## Age -9.986393e-02 0.221593456 0.2819167843  
## Gender -1.232041e-01 -0.284910488 -0.1549410044  
## BMI 7.578959e-02 -0.317169074 -0.0046015313  
## Fever -1.414214e-01 0.189442653 0.4377913553  
## Nausea.Vomting 1.539021e-01 -0.191205080 0.2999953876  
## Headache -1.125526e-01 -0.130286610 0.1787696678  
## Diarrhea 1.896760e-01 0.249533588 -0.1798814512  
## Fatigue...generalized.bone.ache 2.427299e-05 0.148413584 0.0005001193  
## Jaundice 1.142111e-01 0.100510287 0.1272101270  
## Epigastric.pain 2.041251e-01 0.035992000 0.1445444785  
## WBC 9.573648e-02 -0.292961642 0.4673628007  
## RBC -3.300871e-01 0.122445615 -0.0175000226  
## HGB 3.833239e-02 0.461936210 0.1067014609  
## Plat -1.774477e-01 -0.191837955 0.1636028067  
## AST.1 -2.030327e-01 -0.015771691 -0.1560666583  
## ALT.1 -4.892178e-02 0.010038654 -0.2145063676  
## ALT4 6.994638e-02 -0.115654410 -0.0378560818  
## ALT.12 -1.078178e-01 -0.332583825 -0.1119019738  
## ALT.24 -2.464723e-01 -0.045489551 -0.0317006762  
## ALT.36 4.112329e-01 -0.145559282 0.0977491837  
## ALT.48 -3.632970e-02 -0.241209065 -0.0496505462  
## ALT.after.24.w -2.556379e-01 -0.007828681 0.2528013852  
## RNA.Base -3.997742e-01 -0.064136065 -0.0478479847  
## RNA.4 -9.762265e-03 -0.031552077 -0.2313691708  
## RNA.12 -3.449188e-02 -0.005111216 -0.0125169007  
## RNA.EOT -5.261154e-02 -0.085537127 0.0165288103  
## RNA.EF -5.650034e-02 0.039901271 -0.0344073069  
## Baseline.histological.Grading -2.543658e-01 0.109173238 -0.0221999233  
## Baselinehistological.staging 2.873162e-01 0.034727509 -0.1933218689  
## PC19 PC20 PC21  
## Age 0.033878135 0.1250960143 -0.184676367  
## Gender -0.034617749 0.3015485423 0.024572230  
## BMI -0.039087959 -0.1337017808 -0.158624950  
## Fever 0.220712018 0.0896603933 -0.165460547  
## Nausea.Vomting -0.166456626 0.3464351856 0.213169402  
## Headache -0.225413546 -0.4427526623 0.160257638  
## Diarrhea -0.005619315 -0.0222037283 0.145855350  
## Fatigue...generalized.bone.ache -0.255162169 -0.2781646218 0.264372113  
## Jaundice -0.485354625 0.0335852672 -0.070371631  
## Epigastric.pain 0.007799804 0.2478615499 0.005667732  
## WBC 0.185786903 -0.1546584766 -0.015569910  
## RBC 0.072476367 -0.2021559950 -0.151371505  
## HGB -0.068628286 0.2818073329 0.297190978  
## Plat -0.082057961 -0.1515505766 0.194397131  
## AST.1 0.291314830 0.0230313382 0.003986976  
## ALT.1 -0.170609021 0.2141343418 -0.285146408  
## ALT4 0.050188299 0.0183968762 0.152543294  
## ALT.12 -0.093554556 0.2234450444 0.134693063  
## ALT.24 -0.130374350 0.1835106199 -0.405800567  
## ALT.36 0.090254482 0.1625502377 -0.090083668  
## ALT.48 0.002809029 0.0686603486 -0.079116491  
## ALT.after.24.w -0.253673948 0.0444184391 -0.190393706  
## RNA.Base 0.267658587 0.2014097769 0.450081119  
## RNA.4 -0.389415377 0.0049104226 0.038645179  
## RNA.12 0.017460063 -0.0719346913 -0.090568034  
## RNA.EOT -0.042387013 0.0003375382 0.054530404  
## RNA.EF 0.068074379 0.0229374206 -0.031728778  
## Baseline.histological.Grading -0.064314744 0.0345604103 -0.081408684  
## Baselinehistological.staging 0.260784721 -0.1814789260 -0.187877156  
## PC22 PC23 PC24  
## Age -0.095154885 0.250520744 0.2259123010  
## Gender -0.024648994 0.364377529 -0.1600279651  
## BMI 0.265154364 -0.018308050 0.2329983526  
## Fever 0.008394739 -0.214370198 0.1489006718  
## Nausea.Vomting 0.284136965 0.163492974 0.1375933024  
## Headache -0.139964841 0.318075216 0.0005609053  
## Diarrhea 0.350664173 -0.132766303 0.0908253494  
## Fatigue...generalized.bone.ache 0.037265593 -0.280635584 0.1750697656  
## Jaundice 0.119546678 -0.033725166 -0.0663860219  
## Epigastric.pain -0.180749779 -0.067495536 -0.3676288194  
## WBC -0.055997361 -0.189419747 0.1214745284  
## RBC 0.272014244 -0.148615243 -0.1727082246  
## HGB -0.137551603 0.014433452 -0.0064433331  
## Plat -0.409604043 -0.154776675 -0.1767075092  
## AST.1 -0.003286400 0.184548933 0.2168759748  
## ALT.1 -0.160544888 -0.367264801 0.1002494454  
## ALT4 -0.150412099 -0.400562306 -0.0643801137  
## ALT.12 0.145840012 -0.281827183 0.3122215066  
## ALT.24 -0.134140582 -0.112158193 -0.1237935499  
## ALT.36 -0.224889089 -0.003750505 0.2425040072  
## ALT.48 0.148913600 -0.036020911 -0.2613294800  
## ALT.after.24.w 0.060110920 -0.010951108 -0.0368262112  
## RNA.Base -0.094746088 -0.085384530 0.0466147573  
## RNA.4 -0.348157141 0.077621784 0.2490613536  
## RNA.12 -0.078660840 0.014041708 0.1237490061  
## RNA.EOT 0.030657122 -0.003110141 0.0169899082  
## RNA.EF 0.111019044 0.047247064 0.0513081736  
## Baseline.histological.Grading -0.102075646 0.076645901 0.4249284533  
## Baselinehistological.staging -0.245762342 0.040140681 0.0903141155  
## PC25 PC26 PC27  
## Age -0.087755795 -0.015845915 0.167595903  
## Gender 0.082073236 -0.007507849 0.084978912  
## BMI -0.183603247 -0.395364948 0.071208447  
## Fever 0.176145898 -0.208624796 0.108328457  
## Nausea.Vomting 0.122850164 0.142621253 0.312377322  
## Headache 0.165011231 0.009724297 -0.066306159  
## Diarrhea 0.285980206 -0.274560100 -0.188905627  
## Fatigue...generalized.bone.ache 0.199994879 0.114441484 0.220809937  
## Jaundice -0.138673236 -0.312470364 -0.001677752  
## Epigastric.pain -0.089855877 -0.214053889 0.351724670  
## WBC 0.237157003 0.247791219 -0.140517774  
## RBC 0.066053038 -0.002413632 0.250011381  
## HGB 0.196279615 -0.106626694 -0.253844238  
## Plat -0.087328031 -0.347175803 -0.078778230  
## AST.1 0.180055169 -0.141096316 -0.073787001  
## ALT.1 -0.113248681 0.356709601 -0.102350269  
## ALT4 -0.030534805 0.049171696 0.347337383  
## ALT.12 -0.076909832 -0.216773237 -0.134335404  
## ALT.24 0.404854208 -0.099264735 -0.075855211  
## ALT.36 0.076306745 -0.030024396 -0.217970041  
## ALT.48 0.525254511 -0.076891600 0.058383130  
## ALT.after.24.w -0.178351425 -0.105056382 -0.280022183  
## RNA.Base -0.097361412 -0.109430106 -0.035477712  
## RNA.4 0.280645080 -0.028353453 0.155366559  
## RNA.12 0.006222648 0.019631366 -0.099177869  
## RNA.EOT -0.010427407 0.067567541 0.004294420  
## RNA.EF 0.002853328 0.028554413 0.074674624  
## Baseline.histological.Grading -0.039551791 -0.016981727 0.341921301  
## Baselinehistological.staging 0.056343249 -0.333286704 0.193455971  
## PC28 PC29  
## Age -0.084058601 0.026266251  
## Gender 0.100957523 -0.053310795  
## BMI -0.040003559 -0.022004055  
## Fever -0.020409807 -0.027860432  
## Nausea.Vomting 0.090436746 0.038176890  
## Headache -0.038299667 -0.022700522  
## Diarrhea 0.065641842 0.046375455  
## Fatigue...generalized.bone.ache -0.020511814 -0.024599846  
## Jaundice 0.002958907 -0.023029683  
## Epigastric.pain 0.074456267 0.062631962  
## WBC 0.015899418 -0.044671042  
## RBC 0.099104845 0.058879844  
## HGB -0.032331867 0.005993503  
## Plat -0.055892075 -0.076097550  
## AST.1 -0.053137802 0.057518339  
## ALT.1 -0.091307086 -0.009958487  
## ALT4 0.080236141 -0.043959324  
## ALT.12 -0.001343677 -0.001719566  
## ALT.24 -0.035865197 0.018626252  
## ALT.36 -0.027519444 -0.029253982  
## ALT.48 -0.037938450 0.017067948  
## ALT.after.24.w 0.037380211 -0.015134311  
## RNA.Base 0.035086530 -0.004213600  
## RNA.4 0.014169407 -0.083058025  
## RNA.12 0.773860875 0.132072657  
## RNA.EOT -0.494377671 0.619400381  
## RNA.EF -0.269128950 -0.739354083  
## Baseline.histological.Grading 0.031931323 0.090847367  
## Baselinehistological.staging -0.076948279 0.068968779

# Eigenvalues are sdev^2  
(eigen\_x <- x\_pca$sdev^2)

## [1] 1.8959690 1.2486640 1.2350903 1.1916494 1.1626498 1.1465131 1.1291464  
## [8] 1.1069609 1.0622673 1.0593804 1.0348841 1.0284646 1.0244145 1.0098506  
## [15] 0.9853100 0.9742619 0.9615471 0.9589310 0.9275925 0.9082227 0.8846297  
## [22] 0.8656567 0.8618350 0.8467443 0.8331352 0.7955688 0.7664880 0.5646913  
## [29] 0.5294814

names(eigen\_x) <- paste("PC",1:29)  
eigen\_x

## PC 1 PC 2 PC 3 PC 4 PC 5 PC 6 PC 7   
## 1.8959690 1.2486640 1.2350903 1.1916494 1.1626498 1.1465131 1.1291464   
## PC 8 PC 9 PC 10 PC 11 PC 12 PC 13 PC 14   
## 1.1069609 1.0622673 1.0593804 1.0348841 1.0284646 1.0244145 1.0098506   
## PC 15 PC 16 PC 17 PC 18 PC 19 PC 20 PC 21   
## 0.9853100 0.9742619 0.9615471 0.9589310 0.9275925 0.9082227 0.8846297   
## PC 22 PC 23 PC 24 PC 25 PC 26 PC 27 PC 28   
## 0.8656567 0.8618350 0.8467443 0.8331352 0.7955688 0.7664880 0.5646913   
## PC 29   
## 0.5294814

sumlambdas <- sum(eigen\_x)  
sumlambdas #total sample variance

## [1] 29

propvar <- eigen\_x/sumlambdas  
propvar

## PC 1 PC 2 PC 3 PC 4 PC 5 PC 6   
## 0.06537824 0.04305738 0.04258932 0.04109136 0.04009137 0.03953493   
## PC 7 PC 8 PC 9 PC 10 PC 11 PC 12   
## 0.03893608 0.03817107 0.03662991 0.03653036 0.03568566 0.03546430   
## PC 13 PC 14 PC 15 PC 16 PC 17 PC 18   
## 0.03532464 0.03482243 0.03397621 0.03359524 0.03315680 0.03306659   
## PC 19 PC 20 PC 21 PC 22 PC 23 PC 24   
## 0.03198595 0.03131802 0.03050447 0.02985023 0.02971845 0.02919808   
## PC 25 PC 26 PC 27 PC 28 PC 29   
## 0.02872880 0.02743341 0.02643062 0.01947211 0.01825798

cumvar\_x <- cumsum(propvar)  
cumvar\_x

## PC 1 PC 2 PC 3 PC 4 PC 5 PC 6   
## 0.06537824 0.10843562 0.15102494 0.19211630 0.23220767 0.27174261   
## PC 7 PC 8 PC 9 PC 10 PC 11 PC 12   
## 0.31067869 0.34884975 0.38547966 0.42201002 0.45769568 0.49315997   
## PC 13 PC 14 PC 15 PC 16 PC 17 PC 18   
## 0.52848461 0.56330705 0.59728325 0.63087849 0.66403529 0.69710187   
## PC 19 PC 20 PC 21 PC 22 PC 23 PC 24   
## 0.72908782 0.76040585 0.79091032 0.82076055 0.85047900 0.87967708   
## PC 25 PC 26 PC 27 PC 28 PC 29   
## 0.90840588 0.93583929 0.96226991 0.98174202 1.00000000

matlambdas <- rbind(eigen\_x,propvar,cumvar\_x)  
matlambdas

## PC 1 PC 2 PC 3 PC 4 PC 5 PC 6  
## eigen\_x 1.89596904 1.24866396 1.23509034 1.19164939 1.16264975 1.14651308  
## propvar 0.06537824 0.04305738 0.04258932 0.04109136 0.04009137 0.03953493  
## cumvar\_x 0.06537824 0.10843562 0.15102494 0.19211630 0.23220767 0.27174261  
## PC 7 PC 8 PC 9 PC 10 PC 11 PC 12  
## eigen\_x 1.12914639 1.10696093 1.06226726 1.05938037 1.03488407 1.0284646  
## propvar 0.03893608 0.03817107 0.03662991 0.03653036 0.03568566 0.0354643  
## cumvar\_x 0.31067869 0.34884975 0.38547966 0.42201002 0.45769568 0.4931600  
## PC 13 PC 14 PC 15 PC 16 PC 17 PC 18  
## eigen\_x 1.02441453 1.00985059 0.98530999 0.97426192 0.9615471 0.95893098  
## propvar 0.03532464 0.03482243 0.03397621 0.03359524 0.0331568 0.03306659  
## cumvar\_x 0.52848461 0.56330705 0.59728325 0.63087849 0.6640353 0.69710187  
## PC 19 PC 20 PC 21 PC 22 PC 23 PC 24  
## eigen\_x 0.92759253 0.90822269 0.88462975 0.86565673 0.86183502 0.84674429  
## propvar 0.03198595 0.03131802 0.03050447 0.02985023 0.02971845 0.02919808  
## cumvar\_x 0.72908782 0.76040585 0.79091032 0.82076055 0.85047900 0.87967708  
## PC 25 PC 26 PC 27 PC 28 PC 29  
## eigen\_x 0.8331352 0.79556880 0.76648805 0.56469127 0.52948135  
## propvar 0.0287288 0.02743341 0.02643062 0.01947211 0.01825798  
## cumvar\_x 0.9084059 0.93583929 0.96226991 0.98174202 1.00000000

rownames(matlambdas) <- c("Eigenvalues","Prop. variance","Cum. prop. variance")  
round(matlambdas,4)

## PC 1 PC 2 PC 3 PC 4 PC 5 PC 6 PC 7  
## Eigenvalues 1.8960 1.2487 1.2351 1.1916 1.1626 1.1465 1.1291  
## Prop. variance 0.0654 0.0431 0.0426 0.0411 0.0401 0.0395 0.0389  
## Cum. prop. variance 0.0654 0.1084 0.1510 0.1921 0.2322 0.2717 0.3107  
## PC 8 PC 9 PC 10 PC 11 PC 12 PC 13 PC 14  
## Eigenvalues 1.1070 1.0623 1.0594 1.0349 1.0285 1.0244 1.0099  
## Prop. variance 0.0382 0.0366 0.0365 0.0357 0.0355 0.0353 0.0348  
## Cum. prop. variance 0.3488 0.3855 0.4220 0.4577 0.4932 0.5285 0.5633  
## PC 15 PC 16 PC 17 PC 18 PC 19 PC 20 PC 21  
## Eigenvalues 0.9853 0.9743 0.9615 0.9589 0.9276 0.9082 0.8846  
## Prop. variance 0.0340 0.0336 0.0332 0.0331 0.0320 0.0313 0.0305  
## Cum. prop. variance 0.5973 0.6309 0.6640 0.6971 0.7291 0.7604 0.7909  
## PC 22 PC 23 PC 24 PC 25 PC 26 PC 27 PC 28  
## Eigenvalues 0.8657 0.8618 0.8467 0.8331 0.7956 0.7665 0.5647  
## Prop. variance 0.0299 0.0297 0.0292 0.0287 0.0274 0.0264 0.0195  
## Cum. prop. variance 0.8208 0.8505 0.8797 0.9084 0.9358 0.9623 0.9817  
## PC 29  
## Eigenvalues 0.5295  
## Prop. variance 0.0183  
## Cum. prop. variance 1.0000

# Sample scores stored in x\_pca$x  
x\_pca$x

## PC1 PC2 PC3 PC4  
## [1,] 1.752028782 -1.0796566713 -2.3615878196 0.4846310379  
## [2,] -0.125120259 0.2257842500 0.6604148394 -0.6820122676  
## [3,] -0.582399282 2.7844268336 -2.4691441677 -1.3344333249  
## [4,] -2.085681979 0.9546290021 -0.1035372938 -0.6457777624  
## [5,] -6.798188688 0.0651120110 0.2474323422 0.5420578943  
## [6,] 1.749113325 -0.2749942918 1.4853113072 -1.7730820003  
## [7,] -0.590303483 -0.7975285523 -0.8354022968 -1.5186044048  
## [8,] -1.564717696 0.2797420057 1.1741926749 0.3729241973  
## [9,] 0.510283184 -0.5689119302 0.1173799430 -0.9324462168  
## [10,] -0.588712397 -0.5320192184 0.0506134423 -1.5914049409  
## [11,] -1.022320922 0.0145620533 2.1637370404 -0.4479431124  
## [12,] -0.962514349 -0.7576756043 -1.0793080289 1.1089854313  
## [13,] 1.707989062 -0.9551603121 0.3793345994 1.7346692385  
## [14,] -1.528713168 0.1153948940 -0.8029226238 -0.0313292187  
## [15,] -0.049587298 0.7240704626 0.4570590526 1.3441357240  
## [16,] 0.432247099 -0.8635046293 -1.4414670767 0.5110266246  
## [17,] 1.852374878 1.5566126087 1.2787358156 0.1724971732  
## [18,] -0.660406526 0.2634447582 1.0602169161 -1.2565191374  
## [19,] -1.127124155 1.4030460240 1.2286731811 0.3105668657  
## [20,] -1.636602476 0.1965969226 1.6038240347 -0.8790730261  
## [21,] -1.088482877 -0.5452479542 0.1093340644 -1.1651723198  
## [22,] 1.666271696 -0.4552546187 0.5314861486 -1.3429462655  
## [23,] 1.064152892 -0.2319398368 0.6124072964 -1.0009868566  
## [24,] -0.798078912 1.8798175062 0.2833048764 1.2104187500  
## [25,] -0.969386323 0.0566891267 1.1407376977 0.1398920263  
## [26,] 2.021606955 1.1881658316 0.0900466236 0.2974925200  
## [27,] -2.013528283 -1.9933556280 -0.7135553442 0.3034133420  
## [28,] -0.017980495 0.3091399060 0.3881211793 1.0394851077  
## [29,] 1.760727933 1.0907843781 0.5318589692 -0.1754220805  
## [30,] -0.985329698 -1.4755420643 -1.5880910474 -0.7279086234  
## [31,] 0.996146113 -0.8847579469 -0.3467661091 1.0923571464  
## [32,] 0.333530076 1.9491191268 1.1722843918 0.1334101831  
## [33,] -1.780818574 -1.3778625619 0.4529619958 0.0310123002  
## [34,] -0.025899178 -0.0179729805 -0.5215530572 -0.5743817176  
## [35,] -1.417814487 -0.7103008190 2.0474975077 0.0827109205  
## [36,] -1.793894337 -0.9484529974 0.5647019312 1.0145179195  
## [37,] -0.390902443 1.6675567021 -0.7751192775 0.5715009204  
## [38,] -0.139473954 -1.1662062927 -0.9846774230 0.8807196366  
## [39,] 1.643574847 -0.6406715144 0.4435774327 -0.0156337175  
## [40,] -0.669603195 0.2530207321 0.1142437434 1.5128461396  
## [41,] -1.631512707 -0.5591789569 1.0898420957 -0.0515501896  
## [42,] 0.502948531 -0.2086297988 -0.9137164983 -0.5663865498  
## [43,] 0.588390510 -1.6248619427 -0.1258602641 -0.9902794658  
## [44,] -2.586019373 -0.0293295768 -0.0193269435 -0.9128718186  
## [45,] 0.116808274 -1.2623558159 0.3869581629 1.3686482266  
## [46,] -0.524253243 0.2910110432 -0.4354591623 1.2923916375  
## [47,] -0.778339505 0.0072830797 -1.0875216975 -0.4136496176  
## [48,] -0.320301025 -0.7625807397 0.1543340438 1.5382676321  
## [49,] -2.294294180 0.2400721417 0.5387412521 -0.2279944929  
## [50,] -0.281952226 -0.7919126807 -0.1516313630 -0.2807219268  
## [51,] -0.510799747 -0.5267146687 -0.2696175371 -0.3941436169  
## [52,] 0.456407698 -1.7226769786 0.3850378124 -1.1931858996  
## [53,] -0.422122534 -1.9495033976 0.1218351376 1.3133780722  
## [54,] -1.374782140 -1.4788943259 -0.1804162632 0.0488641998  
## [55,] -0.329563302 0.7235881634 -1.2285100530 0.6863036543  
## [56,] 0.099821119 0.2097844329 -1.6004029498 1.3654202047  
## [57,] 0.934665222 1.6703753582 -1.3096860930 0.7607468495  
## [58,] -0.438548488 -1.2860827217 -0.9326937066 -0.4464666690  
## [59,] -0.594170636 -1.8125000104 -2.2311157471 0.0289844747  
## [60,] 0.011562761 -1.4130059714 -0.4122398120 0.7610279038  
## [61,] 0.543354103 1.1471029698 0.3986676449 -0.9571497827  
## [62,] -1.773278006 -0.8154211988 -0.5059280268 -1.6501704810  
## [63,] -0.832846177 -0.4385886478 0.6436445776 0.7527246422  
## [64,] -2.127924184 -0.9337128660 0.0787834640 1.8187094239  
## [65,] -2.433998741 -0.0793457646 -0.2853310929 1.0777537691  
## [66,] -0.427582983 2.8941380989 -0.1844005136 -1.1393801511  
## [67,] 0.734606924 2.2292848924 -1.1141361642 1.4760781852  
## [68,] -0.172389851 0.5054569743 -0.0902760159 -1.0913307670  
## [69,] -0.842059433 0.7194560866 0.6690633276 0.4057117076  
## [70,] -1.196245523 -0.0568797717 -1.2060421957 -0.2827276062  
## [71,] -1.179017676 1.2696235679 -0.5974230703 -0.8034511839  
## [72,] -0.201355958 -1.9745301431 -0.5642108167 1.1156153363  
## [73,] -0.579293636 0.7736356192 0.1065084401 0.2563592214  
## [74,] -1.652600524 -0.4777815636 2.9331873284 -1.3844730144  
## [75,] -1.469329779 0.5582074172 0.6176440080 -0.4302601525  
## [76,] 1.320019225 -0.0803412292 -1.3172783864 -0.4768032422  
## [77,] -0.864879087 -0.1846888779 -0.8559167631 0.0077672830  
## [78,] -1.170746846 0.0174303270 -0.9446989585 0.2781896761  
## [79,] -1.323100814 0.6717861428 0.8201842958 1.0676978595  
## [80,] -0.025789209 1.1181390349 -0.8734120996 2.1600901089  
## [81,] -1.221369325 0.6474743224 -0.3309121506 -1.7481384493  
## [82,] -0.488701234 -0.1955791988 0.8157792562 1.3257859457  
## [83,] -0.907145939 -1.3928263887 -2.9574079087 -0.0283684122  
## [84,] -0.766911350 1.4001031491 0.9243583491 -2.8703457891  
## [85,] -0.783371949 -1.1041935871 0.3999776661 0.0399996193  
## [86,] 0.827179651 -0.0134554536 -0.3140976181 0.0886456051  
## [87,] -0.606542502 0.7866232759 0.9372794713 -1.4252215445  
## [88,] -2.056249867 0.0250760308 -0.9251394599 -1.1746968456  
## [89,] -1.799195517 0.5085271648 -1.1462096189 0.9502329666  
## [90,] -0.810106919 -1.5608431713 -0.5163807068 -0.5840240111  
## [91,] 0.374473782 0.2662363660 1.3585455309 0.7962087847  
## [92,] -1.337203727 -0.8614287514 0.4812703498 0.8667876826  
## [93,] 1.750690841 -0.0365594131 1.6078672708 -3.6621360361  
## [94,] -1.145751688 -0.3233655949 1.2741441595 -1.6342203004  
## [95,] -1.534882120 -1.0048849646 0.0871455669 0.1650158287  
## [96,] 2.075021466 1.7747728948 -0.9418141153 -0.2084502728  
## [97,] -2.133537704 1.5490024561 -0.5191532451 0.5188370780  
## [98,] 0.549400134 -0.1845336617 -1.1951873354 1.7860548763  
## [99,] 2.045395929 -1.2867972746 -1.0636102420 -1.0174033375  
## [100,] 0.925674949 1.0145116514 0.4437914169 1.6096308035  
## [101,] -2.049845810 1.7365391894 0.5359302412 -0.0253431249  
## [102,] -1.420305157 -0.6345933206 2.3209454564 -0.4321724443  
## [103,] 1.666908549 -0.3188590926 0.9609250281 0.4564442241  
## [104,] -1.107860127 0.3916009506 0.5749664755 -0.7751408468  
## [105,] 2.079193403 0.9524519135 0.3986841261 0.0660553907  
## [106,] -0.500317409 3.0122439176 1.1077632358 -0.4087593879  
## [107,] 1.980382756 0.5816622733 -0.4118458025 1.9484645664  
## [108,] 1.978614381 0.9467314840 -2.5915989891 -0.8794033118  
## [109,] -0.970399214 -0.2656682572 -0.0733014884 1.5227695838  
## [110,] 1.939636252 -0.1637991424 0.3009501544 1.6320407791  
## [111,] 1.489137414 1.9754150891 0.9220593633 -0.4904953416  
## [112,] -2.288222057 1.0197588303 -0.7055598604 0.2574581121  
## [113,] 0.096747085 0.6431318580 0.1669270838 2.0539516539  
## [114,] -2.310899960 0.7302174647 0.5280137195 0.3084829156  
## [115,] -0.497826028 -1.1616307594 1.6771663886 1.8747425611  
## [116,] 1.750726115 -0.8097836797 -0.2716553610 0.5244460075  
## [117,] 2.044411160 -0.9166815231 0.1170189680 0.1424239480  
## [118,] -2.295321121 -2.4483942043 -1.2861675674 -0.4445871081  
## [119,] 0.823883639 -0.4766756075 0.5211316954 0.4214252595  
## [120,] -0.542571573 -0.1889032934 0.3096048941 -1.5348918998  
## [121,] -0.033144043 0.9837494106 -1.2313163681 -0.8336931686  
## [122,] 1.657684088 0.2178004077 0.5724344103 -0.6990329734  
## [123,] -2.003172967 0.5973344356 1.0127043541 -0.2381252279  
## [124,] 1.600796059 2.0774543130 -0.6757210377 -1.3724458274  
## [125,] 1.717756417 1.3361780953 1.4030029660 0.3858566009  
## [126,] 2.221271450 1.8522789175 -0.2986790968 2.5841380992  
## [127,] -2.604177500 0.9589178846 -0.8031936315 0.3256046546  
## [128,] 1.817323300 0.6385597924 1.7598417776 1.5166899734  
## [129,] -1.325819301 -1.5219701386 -0.7871906935 0.3957050505  
## [130,] 0.651781756 1.4620601585 0.5113294850 -1.0037294617  
## [131,] -1.287569137 0.0362945902 -0.1912567043 -0.7303602500  
## [132,] -1.418202444 1.1372344197 0.7131369475 -0.0309471215  
## [133,] -1.180130962 -0.9582897894 -0.4594061958 -1.2373084016  
## [134,] -0.566850896 1.0137571218 -0.2656482801 -0.2863166728  
## [135,] -0.100026377 1.0436860667 0.9471554008 1.5599157018  
## [136,] -2.365308311 -0.1953605731 -1.2671461365 0.8731872168  
## [137,] -2.072957921 2.1621257104 0.4745848919 0.6326418799  
## [138,] -0.694508820 -1.1725337446 -0.2480281455 0.8319475354  
## [139,] -1.222450327 -0.2430195704 -0.3926370199 1.8233524121  
## [140,] 0.185452086 -0.3016701691 0.2411835701 -0.4837427773  
## [141,] 1.634829190 -0.7223828626 -0.2893998387 0.9591435966  
## [142,] -1.799663398 -0.1551631867 -0.2459097902 0.0739019770  
## [143,] 0.074848618 1.0400271874 0.3454251248 -1.8676039259  
## [144,] 1.574529284 2.3895709858 0.4583314203 -1.8995381266  
## [145,] 1.898653759 -0.2851186013 0.5735754439 0.9090594628  
## [146,] 0.957344290 0.3836852920 -0.2576986539 -0.8161502098  
## [147,] 0.158573101 0.6062184458 -0.2383795633 -0.5151204381  
## [148,] 1.503510943 -0.8340270159 1.9164725854 -1.1003915092  
## [149,] -1.873590833 1.6766736063 0.8315579025 -0.9285708513  
## [150,] -0.539976869 -1.2115002574 1.3160101249 -0.1147571328  
## [151,] 1.931465640 -1.1619548554 0.3366847098 0.3337438479  
## [152,] -1.573019968 0.3418034452 -0.9498776466 0.2216196972  
## [153,] -0.480779763 1.1453447956 0.7955386448 -1.2705659351  
## [154,] 2.062468988 -1.1362198102 0.3798901312 -1.1983684867  
## [155,] 1.891818100 1.0996929414 1.4577510171 -0.4659018136  
## [156,] -1.850684355 0.4133946763 1.2056329001 -0.0843152794  
## [157,] -1.914856651 1.0445406388 1.9584888359 1.8851073203  
## [158,] 1.972169814 0.8573893119 -1.3240354492 -0.7590941400  
## [159,] -1.826473077 -0.5838231528 0.8038305500 -1.7196894280  
## [160,] 1.839397182 0.1722724240 2.0166248085 1.0506194918  
## [161,] 1.915152600 0.3721012020 0.5380385941 -1.0783509614  
## [162,] 0.135647552 0.7425933682 -1.0807888013 1.0008705926  
## [163,] 0.112017231 0.0227888140 -0.2231224821 -1.1201049714  
## [164,] 0.521292370 1.0389129359 -0.7545721026 -0.2450997763  
## [165,] 1.681489545 -0.0515602004 0.2082072593 1.5635640688  
## [166,] 0.110022689 -1.6008742690 0.0724542124 -0.5907365785  
## [167,] -1.267206207 -0.6442909740 -0.1203070023 2.2145879802  
## [168,] -0.031278772 -0.4349324177 0.4535354320 -0.4779506869  
## [169,] -0.078879118 1.0720196606 1.1522567703 1.5555049713  
## [170,] 1.642842120 1.0267642769 -0.6934218777 -1.1573171182  
## [171,] 1.790709740 -0.3043876264 1.0341440829 0.4430857503  
## [172,] -2.551695792 -0.0379463447 -0.8777704686 -2.2517395381  
## [173,] -0.638398692 1.5115498646 -0.2132692382 -1.2595069006  
## [174,] 2.045832372 0.5985138796 -0.8948696343 0.1978293517  
## [175,] 0.866146959 0.0138551795 0.0111410507 -0.5104493024  
## [176,] 2.115080577 -0.7390627260 -1.8473792016 1.5053147330  
## [177,] -0.848224403 -1.2214508925 -1.4145045210 -0.7897800092  
## [178,] -0.310674491 -1.0255842044 -0.3123633151 0.2942244496  
## [179,] 1.562725642 0.9719890743 0.9529179778 0.5997302012  
## [180,] 1.773527100 -0.6525541735 0.3282571641 -1.1344238066  
## [181,] 2.058737931 0.0725389391 -1.4429786872 0.1935209033  
## [182,] 1.894057037 0.1476759986 1.0963708284 -0.9352659785  
## [183,] -2.243139605 -0.2316204407 -1.0424020275 0.6782732922  
## [184,] -0.580830939 -0.0387942845 2.5807470250 1.8774996892  
## [185,] 1.107961882 -0.6685470376 1.9906741001 1.4259951510  
## [186,] -0.328978421 -0.9600391215 -0.4933480407 -0.7731237774  
## [187,] -0.056139128 -1.2391489266 -0.1124481381 -0.9087287558  
## [188,] 0.436533736 -0.2003093256 1.7239677717 -1.5040800507  
## [189,] -1.279777144 0.5331679221 0.9510710139 -0.4177830893  
## [190,] -1.051309146 1.5585008272 0.0677007732 0.7240471478  
## [191,] 0.044170493 -2.7727654060 0.1948019819 0.1577361653  
## [192,] -0.365108184 1.5705724046 -0.0766603751 0.6820472201  
## [193,] -0.128482725 -0.7705160581 -0.8445179734 1.8221717356  
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## [1346,] -0.095737850 1.7875947015 -0.9686737308 0.5973387703  
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## [1351,] 1.607686389 -0.9982637696 2.2603621013 1.4373257727  
## [1352,] -0.012160837 -0.2285228387 1.7630884643 -1.3907869787  
## [1353,] -0.482720409 -1.3452522670 1.7757901263 0.0667945395  
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## [1358,] 0.094344460 -0.6657482343 1.2267943620 0.7060133414  
## [1359,] -1.694543431 1.2483704304 -2.1404199570 -0.5603971044  
## [1360,] -1.652217942 -0.2544845995 -1.1326542461 0.9030545959  
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## [1362,] -2.322897985 3.3275938186 0.5777442336 -0.7659590110  
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## [1373,] -0.514382045 1.4533571007 -1.4135261437 0.0948222842  
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## [1383,] -1.032074468 1.6444565155 -1.4919765084 -1.0557225247  
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## PC5 PC6 PC7 PC8  
## [1,] -0.3395658392 1.259768e+00 -1.420560748 0.451895797  
## [2,] 0.3982949788 1.384957e+00 -0.011256146 0.538264250  
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## [4,] 1.9276400539 -7.165586e-01 2.089614403 -0.235551801  
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## [6,] 0.9521909140 1.305110e+00 1.214845304 2.404242256  
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## [9,] -0.9021300433 1.302919e+00 -0.144955560 -3.028146471  
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## [27,] 3.1334846543 -3.425234e-01 -1.382618470 -0.560608450  
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## [32,] 1.4079687889 -1.637012e+00 -1.597887853 0.633209259  
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## [34,] 2.1701587227 -7.149453e-01 0.313199361 -1.555565029  
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## [1376,] 0.725184169 0.452930635 1.4985019471 -0.4147899083  
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xtyp\_pca <- cbind(data.frame(HCV),x\_pca$x)  
xtyp\_pca

## Age Gender BMI Fever Nausea.Vomting Headache Diarrhea  
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## 2 46 1 29 1 2 2 1  
## 3 57 1 33 2 2 2 2  
## 4 49 2 33 1 2 1 2  
## 5 59 1 32 1 1 2 1  
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## 7 42 2 26 1 1 2 2  
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## PC6 PC7 PC8 PC9 PC10  
## 1 1.259768e+00 -1.420560748 0.451895797 3.2796966154 1.6974445635  
## 2 1.384957e+00 -0.011256146 0.538264250 1.5403632338 -0.7168032035  
## 3 8.015648e-01 -1.692221074 0.200555583 1.5985122746 2.3721738282  
## 4 -7.165586e-01 2.089614403 -0.235551801 0.1990533567 0.7049801481  
## 5 7.062790e-01 -2.530376209 -0.319818928 1.8862242106 -0.6683002957  
## 6 1.305110e+00 1.214845304 2.404242256 1.3591904045 0.7879044739  
## 7 -5.071176e-01 1.239283768 -1.639486357 0.1586580848 0.4715377010  
## 8 -8.310862e-01 -0.695857185 -1.689999030 0.3216089505 -0.0637375767  
## 9 1.302919e+00 -0.144955560 -3.028146471 -1.5702397016 0.4456926257  
## 10 5.797024e-01 -1.818221409 -1.590779389 -1.2724293327 1.1471239673  
## 11 -9.200961e-01 -0.873488263 1.711305362 -0.2981644107 0.1109366968  
## 12 -7.961130e-01 0.457288610 1.690349510 -1.9026257761 -1.1185248277  
## 13 1.489062e-01 -0.357055598 0.534501435 1.0661753205 1.2075702523  
## 14 7.275623e-01 0.056817411 1.497316330 -0.0099732318 -1.9232741287  
## 15 1.183429e+00 -0.521240759 0.924394613 0.0335597016 0.1518378663  
## 16 -1.519488e-01 -0.547213102 -0.304107769 -0.0214092103 0.2098432114  
## 17 1.400642e+00 -0.255003105 -2.226060237 1.1226034829 0.5292417431  
## 18 5.984417e-01 0.142835099 -0.861676344 0.9445010571 2.1598332291  
## 19 5.782834e-01 0.060591317 0.100447419 2.3751196965 -0.7910465117  
## 20 6.772772e-01 0.073332056 -0.115512057 -1.1805434704 -0.9561460717  
## 21 -1.278838e+00 -1.156099313 0.573128231 -0.0664118248 0.5082259178  
## 22 1.981195e+00 -0.608914108 -1.965225424 -0.7330876469 1.8232550469  
## 23 -2.654262e-01 -0.438301071 -1.005122437 -0.9809066177 -1.3110753691  
## 24 -5.297504e-01 1.545934660 -2.300200407 -0.6527667303 0.2385660215  
## 25 -4.121760e-01 0.236811317 -0.125384690 -1.3940921227 -0.0847020204  
## 26 8.581125e-01 0.129212437 1.410741183 -0.3671709038 0.1263955120  
## 27 -3.425234e-01 -1.382618470 -0.560608450 0.1474512227 0.8524324458  
## 28 -1.410775e+00 -1.239765363 -0.385259047 -1.5361090186 -0.1424174437  
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## 30 6.453203e-01 -1.939004903 -0.732538560 -0.4373596799 0.0791104448  
## 31 1.436249e+00 -0.732405943 -0.435898115 0.4774456573 0.1655099097  
## 32 -1.637012e+00 -1.597887853 0.633209259 0.5398088372 2.2151831455  
## 33 -6.318451e-01 -1.355414090 -0.490542562 -0.3559726635 1.5589891363  
## 34 -7.149453e-01 0.313199361 -1.555565029 0.1963337752 -0.2300602067  
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## 37 -4.581896e-01 0.448863564 0.990448497 2.1192541586 2.5125128075  
## 38 -1.844706e+00 1.587344934 -1.242363509 -0.3338364491 -0.1307898500  
## 39 -4.275903e-01 -1.013209340 1.856767926 -0.7054456344 0.1921357338  
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## 43 -2.046100e-01 0.034555447 -2.011284226 -1.0128536156 -2.1444482568  
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## 54 -6.953640e-01 -1.014342685 1.623199470 -0.2397331108 -0.8396687492  
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## 57 -4.354043e-01 0.783839426 -0.143085785 -1.6058795806 0.0538831231  
## 58 -6.341172e-01 -1.024819700 -0.162786462 0.6688317139 -2.2696091047  
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## 67 1.255021e+00 0.960757120 -0.536271207 0.9340159715 1.4698291370  
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## 69 4.102364e-01 0.342514709 -1.745096551 -0.5896693402 1.5616220771  
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## 71 1.689013e+00 -1.794226815 0.432393708 0.2439932313 -1.6394583894  
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## 74 3.216786e-01 -0.399163645 0.217093925 2.0571751895 -0.8309469585  
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## 84 -3.004449e-01 0.180197299 -2.336853194 1.0274726936 -1.0978038208  
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## 94 3.949002e-01 -0.868194637 -0.069618988 -0.9049415180 -0.5764889223  
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## 96 6.958609e-01 1.582154244 0.285192725 -0.9678059890 -0.3049030118  
## 97 5.215717e-01 -0.258593498 -0.898885739 -0.9077970003 -0.8358151934  
## 98 -8.541571e-01 -0.810422749 0.009653258 -0.4312975395 0.8317446476  
## 99 -5.921698e-01 0.093581933 0.756632365 0.8371131203 0.6708587114  
## 100 -7.831022e-01 -1.519471266 -0.812175499 1.6195499795 0.2906690822  
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## 126 1.431295e+00 1.280750307 0.108111579 -1.3911690865 -1.0892988350  
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## 130 1.010979e+00 0.136388302 0.245852649 -0.1685243622 -1.5479195221  
## 131 -7.803948e-01 -0.336392939 1.993973432 0.5193701952 2.1100970515  
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## 136 -1.991145e+00 0.327996624 1.032639292 -0.1035384451 0.4110431443  
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## 141 -1.965433e+00 0.279125883 -0.453147148 -1.1220524216 -0.0243759783  
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## 144 1.031326e-01 -0.596466628 -0.870076313 1.0194587296 -1.2585410076  
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## 152 -1.743054e+00 0.625617792 -1.568729599 -0.2908429002 -0.7566393429  
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## 273 -5.380603e-01 -0.361268318 0.414004130 -0.2114550722 0.7200285246  
## 274 -4.977590e-01 -1.181589258 1.601654089 1.1653375182 -0.7093431563  
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## 276 -3.467252e-01 1.683239674 1.020969126 -0.0556900361 0.8790437494  
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## 333 -4.170596e-01 -1.045461683 0.191073083 0.6621825319 -0.0857479652  
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## 684 1.849690e+00 -1.543011533 -1.330048542 -0.5416033822 -0.0473812259  
## 685 9.306264e-01 -1.452637629 -1.696490693 0.6014698163 -0.2456529368  
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## 687 8.435858e-02 -0.601148030 0.593386318 -2.8089005428 0.3922356284  
## 688 1.977567e+00 0.046604110 1.289173031 -1.5000253262 0.8159491623  
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## 691 -3.426763e-01 -1.982755283 1.897396367 0.5096032969 -0.8114247741  
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## 695 -2.112418e+00 -0.355050982 -1.007166645 1.1562060517 -0.1336371675  
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## 697 1.192226e+00 0.338181567 -0.242656655 -0.9371518783 -0.1086186283  
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## 710 8.377407e-01 -0.500892963 2.958583285 -0.7420424268 -0.6042456408  
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## 712 -1.014334e-01 -0.066077274 -1.152993323 -0.0031009789 -0.0210333148  
## 713 -5.818380e-01 1.223046909 -1.140315179 0.1413936507 0.7006674186  
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## 722 -1.268325e+00 -0.464108093 -0.503157756 -1.1761228998 1.7373594458  
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## 729 1.828420e+00 -0.840697533 0.255023221 1.7324164040 0.0078060707  
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## 740 -1.108608e+00 0.027816014 -0.189730719 -1.5164124445 0.6942721950  
## 741 -6.119359e-01 1.181251465 1.324208386 0.0115681319 -2.4867124756  
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## 743 -6.782816e-01 -0.254992214 1.216524986 1.2119388369 0.9241968368  
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## 753 -1.718477e+00 0.647547465 -1.124551612 -0.0933607213 0.8874149964  
## 754 1.573643e+00 -0.738642047 0.986966756 -0.1772361179 0.6818900311  
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## 763 4.656239e-01 1.355835527 -0.876093249 -0.4514274132 -0.0780583690  
## 764 6.702210e-01 -0.334044506 0.870281133 1.5690360209 -2.4666377579  
## 765 1.169678e+00 -0.133118077 0.636163483 0.5656886749 1.7053125664  
## 766 -6.354381e-01 -2.333483425 -0.431217111 0.7182116867 -0.6973948390  
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## 769 -1.642340e+00 -1.673844193 -0.396486635 0.5805725067 -0.2828384643  
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## 775 -4.188117e-01 0.402403043 1.076665610 -0.2313046052 1.1765926888  
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## 781 -6.805673e-01 0.254347635 -0.054628161 -0.7029825178 -0.8425327376  
## 782 2.026805e-01 -0.903599400 -1.363549826 -0.7018761051 0.2248341542  
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## 784 7.722600e-01 0.066900775 -0.549233161 -1.8050610797 2.3059336845  
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## 837 1.432153e+00 0.410885163 -0.695213224 -0.2633295703 -0.2734688139  
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## 840 6.050702e-01 1.283603362 -2.068851922 -0.7364415719 0.3684224687  
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## 880 4.944421e-01 0.726177068 -0.344926326 0.9294307246 -0.8719385386  
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## 882 -1.357387e+00 1.561312186 -1.102194712 -0.6503220696 -1.8620029275  
## 883 -9.701616e-01 0.972186628 0.782736580 0.0419239985 -0.0305063724  
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## 885 2.532328e+00 0.954498926 -1.115277468 1.6914416982 0.3493489739  
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## 891 3.336738e-01 -2.458551540 -1.372087689 0.0278387990 -0.8999180634  
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## 893 -2.273286e-01 -0.604289902 -1.424491834 -0.0960333370 -0.2442030394  
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## 899 -6.218709e-01 -1.275787621 -0.312524464 -0.7468495240 -0.0443054622  
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## 905 1.796309e+00 1.339393542 -1.241883864 0.4847531306 -1.1529097148  
## 906 7.010397e-01 -0.690422538 2.040344795 1.5233120373 -0.4060354601  
## 907 -9.815325e-01 0.972860284 1.699303472 0.1849240421 -0.9971158882  
## 908 -2.170233e-03 -2.113286427 -0.706443114 -1.0061864128 0.7820674145  
## 909 -4.959856e-01 -0.005259249 0.631704525 1.9536877165 -0.5355874784  
## 910 -4.465178e-01 0.292359569 0.512069903 0.2950991727 -0.4387331622  
## 911 -1.778238e-01 1.297409463 1.287076921 -1.7305295543 -0.6572051032  
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## 913 8.409758e-01 -0.891080692 -1.519821331 -1.3066920299 -0.5156918452  
## 914 3.525185e-01 0.018469911 -1.078616654 -0.9872624574 1.8099655921  
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## 920 4.673378e-01 1.495119874 0.058685712 0.3816166049 -0.8408763315  
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## 928 4.164000e-01 0.342897204 1.738688507 -1.1972928003 -0.0920963881  
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## 938 -7.180008e-01 -0.526984277 -0.599677530 -0.2008103797 -0.2452216549  
## 939 -3.542943e-02 -1.746502149 1.100495279 0.9144659832 -0.2017235575  
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## 942 5.335026e-01 -0.125455401 0.830206137 1.6098691029 -1.5831037017  
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## 947 4.040219e-02 1.641691033 0.563939129 0.3696036952 -0.4994378816  
## 948 1.056786e+00 0.132253214 0.125453964 2.1246453550 0.1710077018  
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## 964 -1.549805e+00 1.207276758 -1.669510337 0.7410659378 -1.4579322975  
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## 1082 5.328646e-01 -2.580081952 -0.284014458 0.4026651289 0.7906208021  
## 1083 -1.405303e+00 2.531610286 0.492365044 1.7596314422 0.5658311604  
## 1084 -3.080157e-01 -1.142233224 1.807266967 -0.9739872639 -0.8638829623  
## 1085 -1.118180e+00 1.538661526 -0.434841314 -2.0420156961 -0.3255676578  
## 1086 5.494446e-01 1.062922239 -0.048127320 -2.3176578147 1.9206731904  
## 1087 -1.480663e-01 -0.804157323 -0.006378137 0.3391287875 -0.4609646638  
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## 1092 1.973968e+00 -1.053808713 -0.230550045 -1.3929020156 -1.1255945236  
## 1093 8.353138e-01 0.271473151 -0.249905488 -2.1772457703 1.0749530173  
## 1094 -8.267423e-02 0.253478898 -0.488478417 1.3878720832 1.9780175674  
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## 1098 -6.213303e-01 2.217736890 0.430291916 0.5934515716 1.2395625602  
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## 1114 -3.288813e-01 0.250583612 -0.361054850 -0.2170608709 -2.0236942111  
## 1115 -1.209972e+00 -0.687897267 0.814038803 1.2871873089 -1.4255734459  
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## 1214 8.348866e-05 1.316462159 0.188092479 1.0860214612 -1.2086776518  
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## 1219 -1.090832e+00 1.152142357 2.178294295 0.0230633367 0.2280240833  
## 1220 -1.466782e+00 0.987183505 0.898962118 -0.4406795480 -0.2605812199  
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## 1223 1.776128e-02 -0.169270722 0.601521608 0.0627159103 1.0889838882  
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## 1280 -4.612045e-01 -0.494754680 -2.201260018 1.3435778685 -1.4323264235  
## 1281 1.146847e+00 -2.000053192 2.006705585 0.0503501093 0.1484102197  
## 1282 4.785843e-01 0.419277855 -0.544847775 0.6786193660 0.6940380864  
## 1283 1.773742e+00 -1.391855464 -0.109279742 -2.1708187247 2.4504255296  
## 1284 6.905314e-01 -0.742206523 1.847054781 -0.3366943613 -0.4511513657  
## 1285 -5.218903e-01 -0.441853542 1.392442082 -0.4794098915 0.3296596462  
## 1286 1.493585e+00 -0.268452265 -0.852101023 0.7383482072 -1.8538321864  
## 1287 1.267701e+00 0.803621431 -0.170871716 1.4434231125 1.0860101866  
## 1288 1.171881e+00 0.441541316 -2.168734343 -1.0457863695 -0.4970390132  
## 1289 6.698198e-01 0.984476334 0.385499596 0.1494474909 0.1017784864  
## 1290 -2.628561e-01 -0.361348653 0.511730932 0.7798513703 0.2818749476  
## 1291 -4.561165e-01 0.963237603 0.096884512 0.5935457813 -0.8052068053  
## 1292 -2.819068e-01 0.197963840 -0.224076500 1.0661836161 -1.7421922062  
## 1293 3.695067e-01 -0.347579152 -1.256826745 -1.6159269600 0.6629449695  
## 1294 2.433721e+00 0.636493216 1.465684850 0.7954627006 0.8650348421  
## 1295 3.324631e-01 -0.686176138 0.869098514 0.4712484924 -0.6866849477  
## 1296 1.257180e+00 1.053826734 0.143009292 -0.9095449564 0.9377351629  
## 1297 9.425356e-01 -1.994203310 -0.215523822 1.1391464131 1.4472610379  
## 1298 7.785717e-01 -1.612373413 1.970317100 -0.2421698128 -0.7221178481  
## 1299 1.504666e+00 -0.299930173 -0.421783619 -1.0700116805 0.8896942991  
## 1300 2.205626e-01 -0.709292670 0.826640902 2.1123186831 -1.1113257244  
## 1301 -6.748796e-02 1.593190849 -0.654395186 -0.4664506041 1.9526715303  
## 1302 1.300790e+00 0.295395698 0.290739887 1.4240461648 1.8962957500  
## 1303 1.425228e+00 0.317177462 -0.565389781 2.2632005094 1.9171239952  
## 1304 -4.331538e-01 -0.840606280 -0.196954035 -2.4192810284 0.0916742110  
## 1305 -9.680490e-03 0.485198507 0.507705537 -2.5465631519 -0.4962267314  
## 1306 1.559491e+00 0.755576984 -0.481259271 -0.7160184203 -0.8573589015  
## 1307 -1.803432e-01 -0.454740991 -1.674376082 -0.1459170756 -0.7073541737  
## 1308 -5.806519e-01 0.720096676 -1.665227055 -0.8460703578 -1.0534062288  
## 1309 1.305688e+00 -0.916843443 0.267912256 -0.0497764306 -0.3252004969  
## 1310 7.245637e-02 -1.393330013 -0.350133265 0.1035850634 -2.1241941962  
## 1311 -7.455031e-02 0.322350506 -0.290196125 -1.7279119301 -0.0921155217  
## 1312 1.312564e+00 -0.100627767 0.858817106 -2.6418000042 -0.4899402725  
## 1313 -1.483761e+00 2.398659238 1.069760558 -0.3489825154 -0.3459908895  
## 1314 -1.117913e+00 -1.063264817 -0.961832937 0.5454645547 0.1580927657  
## 1315 1.515327e+00 -1.630600336 1.471883222 0.3266059350 0.1144614205  
## 1316 -2.692263e-01 -0.835246463 -0.404885656 -0.8173133791 -1.3459133131  
## 1317 -5.327001e-01 0.249273711 -0.071833403 -0.2441459633 -0.8420903615  
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## 1319 -3.383409e-01 0.755840982 -0.271629209 0.9500983966 -0.6421658216  
## 1320 -1.631964e+00 2.128915353 0.257962531 0.0825501861 1.1169340429  
## 1321 1.739183e+00 1.672699239 0.565512204 -0.6071833780 0.8913068137  
## 1322 1.642554e+00 0.283858030 -1.149091675 -1.1117684469 -0.4455637794  
## 1323 -3.783231e-01 1.225509153 1.352166643 0.2293423295 1.0189175826  
## 1324 -1.641994e+00 1.454538599 -1.145180732 -1.5662796407 0.1390525368  
## 1325 1.333202e+00 -0.368291524 -0.054442741 1.1848076229 0.4495199489  
## 1326 -5.826789e-01 -1.613093506 0.012429914 1.3127781973 1.0766460245  
## 1327 8.825651e-01 0.933502945 0.794063693 -0.3290694834 2.0413947693  
## 1328 1.363162e+00 0.617523985 0.418771713 -0.0170765096 0.4105101974  
## 1329 1.035191e+00 -0.711452431 -0.005236216 0.7291649727 -1.4062158643  
## 1330 -8.183215e-01 1.104000629 0.172523991 0.8216741537 1.2504018103  
## 1331 1.180095e+00 -0.389099443 0.735969281 -0.8341558516 0.4378984826  
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## 1333 -2.514524e-01 0.432830630 1.003084194 -2.0114648311 -0.8942886295  
## 1334 -3.558119e-01 -0.807925130 -0.105042125 -1.4813395022 0.2136286951  
## 1335 -5.250505e-01 1.192378004 -0.005965699 0.4390927972 -2.0836138525  
## 1336 5.753079e-01 0.614875730 -1.223601870 0.8194274698 1.7624925550  
## 1337 -1.050506e+00 -0.520428517 0.738748729 -1.3186229248 0.5705636849  
## 1338 8.484423e-01 -1.368364723 1.608064500 -0.2858348191 0.0100880933  
## 1339 2.535422e-01 -0.216675534 1.444580696 -0.7970860738 -0.7007053569  
## 1340 -9.552034e-01 1.641474339 0.768603996 -1.3434704171 0.5825355764  
## 1341 -3.026390e+00 -0.750185905 -0.826017557 -1.3564783991 -0.2762519195  
## 1342 4.034425e-01 -1.171225944 -0.660383100 -1.4663807100 0.5602276988  
## 1343 -5.795339e-02 -2.155481073 -1.095216963 1.1212952667 -1.5693867612  
## 1344 -7.248622e-01 0.723463816 -0.234149664 -0.5849298172 1.7093585320  
## 1345 -8.414666e-01 -0.011687080 -1.068194853 0.3316258278 0.8256167415  
## 1346 2.151575e+00 1.153452012 0.764188496 1.5048849046 -0.7394641209  
## 1347 1.227146e+00 -0.703160959 -0.230505849 0.4618838124 -0.0219813387  
## 1348 -1.599116e-01 -2.635478962 0.574111264 -0.5859860115 -0.4955657213  
## 1349 1.889090e+00 0.207855122 0.690459331 0.7133828762 0.2725271203  
## 1350 -1.788650e+00 0.877855022 -0.720228727 -0.3069058323 -2.3223974574  
## 1351 -1.545742e+00 -0.957992775 0.754508603 -0.0827424114 0.0636052795  
## 1352 9.126668e-01 0.187939808 -0.390814215 1.0667397917 -1.4623471784  
## 1353 1.789274e+00 -0.288806177 0.017117490 -0.0292734332 0.1713665882  
## 1354 1.635771e+00 0.083959588 -0.757660918 -1.4881569097 -0.8941537944  
## 1355 -1.398779e+00 -0.666568978 0.848131874 -0.5082447622 -2.3183508544  
## 1356 -9.691989e-02 -0.044334259 0.570720216 -1.2067027168 0.0069840043  
## 1357 6.586104e-01 1.893137733 -1.036567291 0.1657197264 -1.2559132856  
## 1358 -1.099560e+00 2.102129869 -0.765506451 -0.6252407305 -0.6181330540  
## 1359 -1.344196e-01 0.661796214 -0.734590501 1.4739726007 -1.0899759899  
## 1360 -1.321282e+00 -0.689048486 -0.652814822 -0.7550346269 -0.5283717699  
## 1361 7.220092e-01 -1.208461820 -1.053685308 0.7376726642 0.8185032377  
## 1362 1.635607e+00 0.014785035 0.572738789 -0.9546015853 0.4976111613  
## 1363 -9.313815e-01 0.889283266 -1.080934360 -1.3868542187 1.1850938880  
## 1364 -2.994624e-01 -0.933535429 1.601642437 0.3438682927 -0.3923162604  
## 1365 2.987994e-01 -0.371256417 0.947563893 -0.7086857907 2.4302113566  
## 1366 -9.974862e-01 1.769362667 -1.372159015 0.4711738071 -0.8733331425  
## 1367 1.258486e+00 0.031731355 -2.041466427 0.1106116674 -0.7107177192  
## 1368 -7.610995e-01 0.444523530 -0.190156476 0.9904069743 -1.5608015105  
## 1369 4.724005e-01 -0.864419705 -0.733801394 0.3101765201 1.2034890596  
## 1370 -2.298199e-01 -0.345151324 1.003298297 -0.3460058162 -1.7318693242  
## 1371 9.322919e-01 -1.315039959 -0.457583061 -0.4047516092 0.2606920027  
## 1372 1.670456e+00 -0.801629871 -1.427444537 0.6458723528 0.2412158993  
## 1373 -4.700315e-01 -0.156359929 -1.105667419 -0.5275803678 -1.6174123768  
## 1374 1.587460e+00 1.455912018 -0.624149613 -1.2167331408 -0.2055502344  
## 1375 -5.298364e-01 -1.119909753 -0.253981262 1.0397719395 1.7828712671  
## 1376 -9.546244e-01 0.709135071 -0.748701301 1.5150425495 -0.9236930269  
## 1377 -1.673763e+00 -0.975135809 1.398588978 -0.5643789161 0.1907932389  
## 1378 -2.037858e+00 0.924335412 1.567238530 0.3102486891 -1.6925447456  
## 1379 -4.815269e-01 2.699900541 0.783328068 0.0963258722 -1.3954363408  
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## 1381 -4.598009e-01 0.461725101 -1.652107624 0.2839849601 -1.6468722217  
## 1382 9.200165e-01 -1.697296299 -1.080242750 0.3232439567 -1.0221781709  
## 1383 3.026416e-01 -0.691448697 1.719719322 0.2539505045 0.7648853864  
## 1384 -1.935498e+00 0.954977360 1.094012383 0.8408801250 0.0712634942  
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## PC11 PC12 PC13 PC14 PC15  
## 1 -2.7964937772 0.0662914478 -0.741380422 1.5607971684 -0.207549855  
## 2 0.4280611529 0.3666203717 0.001118133 -1.2390176537 0.575955399  
## 3 -1.6621069026 -0.9079589234 -1.061919452 1.1806293491 1.574822495  
## 4 -0.1851473192 -0.0767714671 -0.206650200 0.1379092087 -0.773630087  
## 5 -1.0608842146 0.7383213384 -1.738344491 -1.2144292471 -2.232657370  
## 6 1.0267720926 0.3600519445 -0.591761997 0.8063848954 -0.390444279  
## 7 0.0391723327 0.9517041861 -0.226569879 1.2372711170 0.992658535  
## 8 1.1842648174 0.6744398696 -0.619431538 0.8576293915 1.786547501  
## 9 0.1456339496 -0.3694771114 -0.421954687 -0.2977885030 0.993967651  
## 10 -0.1269038323 -1.3599879184 -0.144848709 1.6971391451 -0.919682072  
## 11 0.5594033719 1.7539018998 1.894795852 0.1525084886 -1.394292716  
## 12 -0.6501034045 -1.2797674385 1.650215409 -0.9310331917 2.187569676  
## 13 -1.1152415956 0.0288879397 -0.237953060 -0.7121620255 -0.347229831  
## 14 -2.0104772784 0.8818173283 0.509473710 -1.4018098235 -0.301715025  
## 15 1.0075307053 1.0079718116 0.201346914 -0.2730442391 -0.214407555  
## 16 -0.9332819104 -0.0259564600 -0.521027396 -1.6166088993 -1.015015613  
## 17 -0.1299955907 -1.0943753533 -1.540043096 -0.1830219156 0.641593204  
## 18 -0.2359982717 -0.0940926603 -1.094846759 1.6948317340 -1.376234256  
## 19 0.4020178080 -0.4942526512 -1.981437901 1.1887974115 0.034896131  
## 20 0.1684692741 -0.9899920024 1.595836929 0.5840701402 0.529010836  
## 21 2.1234053665 0.8415143689 -1.352691611 0.7630572870 1.184409979  
## 22 -2.1127002526 0.0655370335 1.130165891 0.8069673819 -0.238756074  
## 23 1.6832841088 -0.8253449811 -0.142309584 1.0740842768 0.315500338  
## 24 -1.3833516307 -0.7627034087 0.334222913 0.5005302485 -0.026035632  
## 25 1.6281873859 -0.9940913412 -0.637807325 0.0697106521 2.706308053  
## 26 2.4046032640 -0.7731494929 0.797532925 2.0618760765 -1.264345403  
## 27 1.4007546526 -0.5275357448 0.252825314 0.7756294287 -1.000087614  
## 28 2.1363251795 0.3642312132 1.288622291 1.0869025214 -0.889549399  
## 29 2.5122126390 -0.6919322833 0.023314243 0.3173460713 0.378449417  
## 30 2.5845632142 1.7083410820 -0.211370462 0.3047827641 0.607054421  
## 31 1.0864921939 -0.8834260700 -0.811443241 -1.1366054070 -0.374586001  
## 32 0.8801332965 -0.1471014284 -0.982126052 0.0470823550 -0.251578875  
## 33 -0.7356375258 -0.0894849856 -1.444409905 1.1487107989 0.889453720  
## 34 0.4513969990 -0.8153026768 -1.259920910 0.8016566487 -0.869326701  
## 35 0.3351654040 -1.3643079758 0.700218318 0.1770788759 0.425452130  
## 36 0.8226554498 -0.2376630048 1.502757722 -1.2648760029 -0.558037683  
## 37 0.1367778433 -0.6758664097 -1.881564860 -0.1782899027 0.909858363  
## 38 -0.6489366503 -1.3901676237 -1.534935631 -1.4603920547 0.005058895  
## 39 0.8479058851 -0.7111205911 1.269589090 0.7666480448 -2.021322341  
## 40 0.6700779212 -1.1872446762 1.019145190 -0.9392457358 -0.247952232  
## 41 1.0647988080 1.6161560737 0.140072612 -0.2733310288 -0.247951367  
## 42 -2.0757523384 -0.0818734119 -0.179905481 -0.5529954103 1.277278537  
## 43 0.7569561224 1.0155692458 -1.088675598 -0.1575818130 1.366815986  
## 44 -0.2247781802 -0.6316872316 -0.523117045 -0.3337858886 0.975526211  
## 45 0.1961856609 0.2694130976 0.722217785 0.8423485217 -1.282927124  
## 46 -0.2555910880 0.3264955575 -0.917602716 -1.0647224061 1.186080431  
## 47 0.3741915881 -0.0617833341 1.283383697 -2.5012314742 -0.994883766  
## 48 -1.7534597268 -0.5253982494 0.431553362 -1.2586491983 -0.553966609  
## 49 -1.3298572675 2.3081875026 -0.695934599 -1.0415976259 -0.774814610  
## 50 0.2143435324 1.0161788400 0.306571047 -0.0476728522 -0.032787596  
## 51 0.8084637872 0.4347938203 0.093049951 0.8097084853 -1.014608350  
## 52 1.1332708062 0.1081361425 -0.383134251 -1.3255548333 0.509162400  
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## 55 0.2038229275 -1.6331234060 1.268238759 -1.4564500499 0.705183122  
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## 57 -1.0345304564 -0.6152758951 0.230228542 -0.4778845687 0.298079120  
## 58 1.1739653010 -2.1162499166 -0.744289767 1.8382102448 -1.488286202  
## 59 -1.5675371053 -0.2671381732 -0.127022878 0.5483199848 -0.132569366  
## 60 -0.8217576304 0.9668270481 0.483086880 0.1050232729 0.434364765  
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## 65 -1.2485285746 1.2574800418 0.495181232 -0.3564563779 -0.133135100  
## 66 0.2091168157 -0.9696453874 -2.053155381 -0.0693204401 0.145142858  
## 67 -1.4934543630 0.4208674850 0.109303195 -0.4452849343 -1.027649967  
## 68 -0.4925903718 -0.6856174098 0.460766033 2.4147430257 0.531518273  
## 69 -0.2012866516 1.0127088969 -1.040744401 -0.7753930463 1.281812607  
## 70 -1.9715160477 -0.6842473220 1.417343614 -0.9713941867 0.262224646  
## 71 1.4080370223 0.7338023468 1.048197955 0.2744110602 -0.595058516  
## 72 0.2413379417 0.5476171500 -1.918530763 1.7993512120 0.791946508  
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## 76 -0.4101131306 -1.0693868852 -1.230335095 0.3893589194 -0.468447546  
## 77 -0.5859865001 1.4226144695 1.298068852 1.1368164554 0.319897327  
## 78 -0.8940710001 -0.6374122477 1.172876470 0.4105773021 -0.172928535  
## 79 -0.0467422952 0.6133339785 1.156881454 -1.6375431805 0.892351993  
## 80 0.4490090067 -0.7346240374 -0.496617662 -0.0977460303 3.024525785  
## 81 1.3118907512 1.0958085294 0.318783938 -1.5927203914 -1.135867574  
## 82 -0.5173087218 -1.0732391956 0.615404152 0.9651222341 -1.138012616  
## 83 -0.3005369082 -0.0291942667 -1.349279879 0.3382837357 -0.684680552  
## 84 0.4941444705 -0.5283315613 0.768837025 1.2489173145 -0.691915209  
## 85 -1.1650119528 -0.0052768369 1.103469403 2.5896881615 -0.672979577  
## 86 -0.5318343157 -1.5950963675 0.580072777 -0.5437571273 -0.856761172  
## 87 -1.2943740723 0.3039234948 0.694495000 0.0173876816 -1.109910842  
## 88 0.3482079768 -0.6931040993 0.642604307 -1.1366373416 -0.027897926  
## 89 0.6263901455 0.3496946956 -0.333478706 1.5064834221 0.033810365  
## 90 0.9166604280 -0.7197396290 -0.213063701 -2.5920758780 0.073982505  
## 91 1.3663515588 1.8771323494 0.899970786 -2.0379173519 -0.083730964  
## 92 -1.2089867682 0.5679761774 0.514667365 -0.6437709052 -0.219303472  
## 93 1.1883969959 0.9781215117 -0.266057860 0.0557885500 0.368989243  
## 94 -1.4358033447 -0.9733456490 1.226776304 0.4231472039 0.998649903  
## 95 -0.6638679981 -0.9632002739 -1.703767150 0.1056610488 2.686959506  
## 96 -0.8844188193 0.9536533526 -0.264479433 2.1298794162 0.224251752  
## 97 -1.1713338560 -0.9916306194 0.705613280 -1.3807279933 -0.067058482  
## 98 -1.8960647551 -1.8361787091 0.683345402 -1.4579781428 -0.375897035  
## 99 0.4728556611 0.4412599118 1.519001767 1.6347195598 -2.328810865  
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## 1358 -1.3842521887 0.4566383906 -1.007059716 -0.2682911613 -0.806134548  
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## 1360 -1.9598286888 -0.9946560032 0.419478595 1.5062224549 0.251048549  
## 1361 0.4675936395 -0.9702783715 0.614713546 -0.2601413259 -1.004103007  
## 1362 -2.1033663114 0.4767949767 0.854435607 0.1889784378 0.500865064  
## 1363 -0.2505154524 -1.0340325420 0.629017793 1.1394266962 -0.659880055  
## 1364 -1.6715774026 -0.4847363564 -1.179508027 -1.5281253991 1.376705381  
## 1365 -0.2943715143 0.1098164475 -0.681185692 -1.9655875400 0.593947744  
## 1366 -0.1703777426 -0.1277164851 -0.142096358 0.7416011941 -0.179689056  
## 1367 -0.0673795668 0.8019816305 1.068676228 -0.9711690353 -0.268381274  
## 1368 0.3167963303 -0.3951357184 0.197691599 -2.4815509501 -1.044120434  
## 1369 1.6964289261 -2.2037070567 0.969966958 0.5910811339 -0.298526377  
## 1370 -1.2128880328 -0.5683097072 0.144521681 0.1543523224 0.431026481  
## 1371 1.5301620331 0.4280615513 -0.082061788 1.1992933571 -1.100934874  
## 1372 -0.5826053296 -0.9133831411 -1.050854161 -0.8373682889 -0.555377023  
## 1373 -0.8287081290 0.3578404315 0.871334199 -0.2449186541 -0.861775949  
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## 1377 -1.3995442681 -1.1181157822 0.139150063 0.8695576115 -0.615307128  
## 1378 1.0402980745 0.2865779750 0.082854685 -1.6840251290 1.521664440  
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## PC16 PC17 PC18 PC19 PC20  
## 1 -1.874682e-01 2.2228242504 -0.517164734 0.4818292549 -0.191891995  
## 2 -7.138569e-02 -1.7088385430 0.924518162 -2.0056395273 -1.468383361  
## 3 -4.115377e-01 0.8808323812 -1.179174709 1.8483789796 -1.213522129  
## 4 -6.850280e-01 -1.0097293437 -0.842279996 -0.0994969433 0.110111646  
## 5 -1.528751e+00 0.3723607412 -0.436293764 -1.3490176509 -1.738878549  
## 6 6.008166e-01 -0.2236445285 1.118372203 -0.4839220428 1.007522367  
## 7 4.794896e-01 -0.7752429549 -0.737053013 -0.8415612088 -1.288844161  
## 8 -5.622105e-01 -1.3250906262 -0.817011853 1.1800291467 -0.343075460  
## 9 2.463556e-01 0.3319256084 0.359502554 -0.3103126115 -0.916561698  
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## 11 -1.002211e+00 -0.1984535919 -0.497388324 0.0954583941 -0.109625317  
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## 15 -1.322081e+00 -2.6398729294 0.675197008 -0.1106750942 0.634855804  
## 16 -2.708657e+00 0.2864706167 0.792206813 1.1256663677 -0.977616245  
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## 18 -9.314396e-02 1.1532934028 0.756662932 0.0653357043 0.518828608  
## 19 1.242308e+00 1.5770049382 0.163838378 -1.2600619509 -0.668679649  
## 20 -1.050658e+00 -1.3065381213 -0.888099469 1.9480022202 2.715890483  
## 21 9.361544e-01 0.3364459694 -1.442924283 -0.2311324016 0.782955379  
## 22 -9.444223e-01 0.7488703478 0.436961830 -0.0723250278 -1.313574525  
## 23 2.417148e+00 0.7638652391 -0.012609852 -0.2926397120 -0.174556014  
## 24 5.670976e-02 -0.9279860083 -1.734833056 0.7732578085 0.811366546  
## 25 6.695222e-01 -1.8492717245 -0.965144804 -1.5947612229 -0.374975792  
## 26 2.105837e-01 -0.4073838108 0.156127920 0.6029028112 0.741563825  
## 27 1.180845e+00 0.3916600871 1.826823147 0.9513082023 -0.245942437  
## 28 -1.220088e+00 -1.2398766995 0.525765723 0.2010570373 0.143632484  
## 29 -3.403079e-01 0.5347917194 0.644054818 -0.4969003544 0.587001768  
## 30 -5.817644e-01 0.1699856802 -0.437957778 0.2919918688 -0.028290478  
## 31 -1.202236e+00 -0.4689871822 0.665549886 -0.9501302026 0.836439768  
## 32 1.024858e+00 -2.1029884156 0.677627996 0.6567343160 0.086565730  
## 33 -1.115099e+00 -0.3257074892 -0.137250990 0.8135862494 -0.621208813  
## 34 -2.779294e-01 -0.3733372888 1.748487827 0.7493670448 -0.622975847  
## 35 1.962599e+00 0.1216855105 0.738718530 -1.0906988416 0.832632171  
## 36 -5.502877e-01 -0.2006990467 0.232263483 1.5992968504 1.113373846  
## 37 -3.311363e-01 0.2403462806 0.807533092 -2.2914026345 1.339866650  
## 38 -1.307955e+00 0.5813548183 0.661172516 -0.7707147055 -2.492035754  
## 39 -5.881536e-01 0.7345536975 -0.339485714 1.5814950495 0.025655437  
## 40 1.370291e+00 -1.1902894025 0.602901781 1.6265049380 0.425261002  
## 41 1.984616e-01 -1.2029575260 0.627853140 -0.2189760697 1.712927725  
## 42 -9.488939e-01 -1.2432995005 1.262759764 -0.5712515400 0.376050157  
## 43 3.778862e-01 0.9108640343 -0.792889378 0.9298743133 1.215636945  
## 44 7.660776e-01 0.8659320200 0.037198242 -0.9856432074 0.749394824  
## 45 1.192820e+00 -0.5664754320 0.683553245 -0.4346762162 -0.149308456  
## 46 1.037510e-01 -1.5621208050 1.105552001 -0.1423411178 -0.077693545  
## 47 8.682126e-01 0.6158099035 -1.741635674 1.1485641988 -0.245965814  
## 48 1.285681e-01 0.1754459924 -1.049662830 0.0070364179 -2.265784586  
## 49 -3.704298e-01 -0.1872626106 -0.365489926 2.0310717850 -1.346051561  
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## 55 -1.456868e+00 0.6671616746 1.506482980 -0.2615042909 1.101482962  
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## 59 -2.146644e-01 -0.9034236490 -1.207550355 0.6193373725 -0.109476260  
## 60 1.611798e+00 -0.0497191175 -1.208206040 1.0789829814 0.702412859  
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## 64 -3.375953e-02 -0.2704346808 1.018437235 -0.0449389314 0.393941090  
## 65 2.001529e+00 -0.4456628565 0.932079874 -0.6136001771 0.227035750  
## 66 -6.636301e-02 -0.2673807504 -0.633961821 0.5834039859 -0.266998790  
## 67 -1.462937e+00 0.9523542228 -1.284148172 -1.5119175695 0.848410195  
## 68 -1.494924e+00 1.7446553791 -0.152315780 -0.1098396009 0.660615549  
## 69 -9.619882e-01 -0.7367167025 -1.514836837 0.4066064509 -0.104191686  
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## 78 -1.667686e+00 0.5016729023 -0.511200137 0.2456508054 -0.437675188  
## 79 1.032079e+00 -0.6239746308 0.154334506 -0.8602282046 -0.592611468  
## 80 8.054067e-01 -0.4273185988 -0.367635560 0.4328209502 0.015948754  
## 81 -8.083209e-01 1.7211087807 1.127561397 -0.4311681626 -0.335308519  
## 82 2.381443e+00 -1.2290594585 0.679176926 1.8911832701 0.762974698  
## 83 -4.225506e-01 1.2334504446 0.816144436 0.1270625968 0.498409432  
## 84 -3.783051e-01 0.8526204529 -0.340736567 0.0829618221 0.910542030  
## 85 4.253742e-01 -1.9509056127 0.341446123 0.4727893108 -0.339134692  
## 86 -1.006061e-01 -1.1171286116 -1.201348613 -1.0107057982 1.140090111  
## 87 7.349266e-02 -1.1025587270 -0.729545902 -0.0981576919 1.231617649  
## 88 1.827547e+00 -1.2378786850 -0.930794962 1.4606422149 0.977991926  
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## 95 -1.158246e-01 1.0334480180 -0.688531990 0.5182945072 0.724391123  
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## 132 -1.025414e+00 1.9748307535 1.489111428 -0.5257862918 1.975967163  
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## 147 3.211941e+00 -0.1688560598 0.976283136 -0.6870714985 -1.448505221  
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## 155 9.656035e-01 0.5614191474 0.131106788 0.2250600190 1.198297205  
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## 158 -2.067612e-01 -0.8809466817 -0.508545628 -0.6537798981 0.732415417  
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## 161 -8.494648e-01 -0.7505705573 -1.820290743 -0.4849443036 0.599342275  
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## 163 6.399549e-01 0.2641686634 0.722066213 0.3081631543 -0.590143496  
## 164 -1.229937e-01 -1.6624723635 0.457051915 0.9913681153 -0.506854249  
## 165 -6.558184e-01 -0.5864924867 -0.171606753 0.3570245602 0.632998015  
## 166 -1.432160e+00 0.7595648715 -1.003524166 0.9949818719 -0.389707898  
## 167 -3.100266e-01 0.7833648839 2.122078971 -0.3452218361 -0.307440043  
## 168 -1.222660e+00 0.0955402230 -1.061095253 -0.2677528261 0.361984709  
## 169 -3.544295e-01 -0.2627146227 1.238952779 -1.4196278185 -0.026170156  
## 170 -5.300355e-02 0.2285787390 0.320298832 -0.7877846687 0.544798658  
## 171 3.252229e-01 -0.0017106554 1.506858053 1.6616151294 -0.668393276  
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## 175 3.911793e-01 0.2167463788 -0.275670196 0.1119567117 -2.825280145  
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## 183 -5.144742e-01 -0.8525457766 -0.901080160 0.1959019438 -1.796879591  
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## 213 1.574398e+00 -1.2954298867 1.024010029 -0.4034840158 1.647713202  
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## 252 -9.689964e-02 -1.1739095588 0.010125092 0.8537829003 -0.019453357  
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## 389 -9.163131e-01 -0.3292480546 1.263979197 1.0199562100 0.003629771  
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## 412 -1.394790e+00 -0.3308367832 -0.151759731 -1.1201585487 -0.401863173  
## 413 -5.834979e-01 1.3244687535 -0.584157784 -1.3033232053 -1.287048889  
## 414 -9.828398e-01 -0.2068786125 0.733052014 -0.4900873397 0.047117906  
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## 588 -3.848576e-01 -0.1089291345 -1.093492031 -2.3920560202 -0.610692693  
## 589 -1.074687e+00 0.1914444888 0.278065132 -1.3504332925 1.458314622  
## 590 -1.402736e+00 1.0548474198 -1.465957301 1.9710608097 -0.398190560  
## 591 -9.420185e-02 0.3800314217 0.403018067 0.0667436511 0.649379511  
## 592 3.939492e-01 -0.2762840721 0.895299331 0.6444179466 0.052092741  
## 593 7.872879e-01 1.3780036695 0.700850805 1.4236040428 1.900061348  
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## 596 6.976632e-01 1.0838066035 -0.232516182 -0.2029924904 0.581933293  
## 597 -1.130928e+00 0.4063625071 0.599979209 -1.9731319166 1.748134610  
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## 602 -9.741517e-01 0.3441437154 0.836650889 -1.5907135755 0.670595843  
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## 604 5.089168e-01 -2.0051000199 -1.784508949 -1.2565936355 -0.222525436  
## 605 1.422908e+00 -0.6436213181 -1.117069831 -0.4107268243 0.206178830  
## 606 4.220500e-01 0.2432704322 -0.380737685 -0.6665454905 -0.672390354  
## 607 5.954058e-01 -0.3778077948 -1.367116220 1.2466075161 -0.428474129  
## 608 7.876683e-01 -0.1401995974 1.238974234 0.8269884898 -0.367749465  
## 609 1.232732e+00 2.7541634443 1.355999309 1.5304818085 1.286921260  
## 610 1.392579e-01 0.6975372495 0.023625444 -0.7784201127 2.482811346  
## 611 4.256132e-01 -0.8745301265 -0.889872207 0.2871023491 1.562097270  
## 612 2.073947e-01 -1.3075610865 1.318225811 -0.2755804057 -0.611457462  
## 613 1.995810e+00 -0.4150498662 -0.796651452 1.3961266758 0.400196246  
## 614 -1.099374e+00 -0.5020486372 0.309682304 0.6892310556 -0.270398628  
## 615 -1.819350e+00 -0.6332998428 0.548475771 -0.7730447557 -1.213992952  
## 616 -1.755881e-01 -1.1195802423 0.360945367 -1.5285575478 -0.409920934  
## 617 1.600201e+00 0.2613793628 -0.495857499 -0.8172807374 -0.050450819  
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## 619 -1.546799e+00 -1.1441105482 -1.078426727 0.7385459366 -0.033808937  
## 620 1.329314e+00 1.0364601712 0.554409550 -0.8656099633 0.847060277  
## 621 -5.357706e-01 -2.0373671886 -0.433599090 0.7243970494 0.824561079  
## 622 -4.603173e-02 0.0580806408 0.591470531 0.1398007610 0.494286313  
## 623 1.121433e+00 -0.9821299475 1.058310690 -1.1666475950 1.476461330  
## 624 6.426206e-02 0.0941650059 -1.672236796 -1.3117537451 0.630406984  
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## 626 1.018665e+00 0.4310110724 -1.408972977 0.7954795448 -1.107919133  
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## 631 3.333285e-01 -2.7177674693 0.998036220 0.3971204038 0.693202013  
## 632 -1.569154e-01 -0.3561084266 0.877181334 0.5824172598 0.160028197  
## 633 -9.133541e-01 -0.8207562294 1.218183595 0.8081866753 -0.729489152  
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## 635 -1.175621e+00 -0.4782006787 2.103274742 -0.3055297800 0.648685460  
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## 637 -1.037677e+00 1.4472835614 -0.575113403 -1.1965187404 0.206988488  
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## 639 -5.723461e-01 -1.2808856587 -0.586309105 0.2103760162 0.191337211  
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## 647 -1.170322e+00 -0.2434734457 0.805696428 0.7007812299 1.444647111  
## 648 3.716398e-01 -1.1490955416 0.856201026 -1.1503236144 0.598836480  
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## 657 -1.269027e+00 1.7845541815 0.221459426 1.3012226976 0.929799443  
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## 661 -5.259454e-01 0.3902653215 0.274103559 1.8692738473 -0.471920822  
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## 664 1.872016e-01 -1.0176796645 0.229680103 0.7887632296 0.369423400  
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## 669 9.773537e-01 -0.6573895317 -0.788195067 -0.5221459784 0.133743006  
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## 672 8.843655e-01 0.8880927381 -1.398457899 0.0812430397 0.750235949  
## 673 -1.869519e+00 0.5390746987 -0.859920578 1.2459244331 -0.340566697  
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## 675 -3.762120e-01 -0.1427774194 -2.303688380 0.7087220244 1.182635311  
## 676 9.651597e-01 0.3841609119 0.669168617 1.5245633669 -0.781835244  
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## 678 1.183183e+00 0.6363598770 -0.227312513 -0.7363056417 -0.495447715  
## 679 1.125971e+00 0.8780971346 0.245920245 -0.3103401109 -0.688768819  
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## 707 -5.339565e-01 -0.5969934579 1.213695521 -2.4762913786 0.355893345  
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## 710 2.435079e+00 -0.1800201953 0.368472552 -0.6363361703 1.514066837  
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## 729 7.796287e-01 0.9097290036 -2.041330986 -0.6971130514 -0.087679186  
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## 731 1.055135e+00 0.1859980447 0.412784186 -0.5292310983 -0.930585194  
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## 795 1.012899e+00 0.7274338798 2.211028727 1.1851325618 0.172637787  
## 796 5.773415e-01 -1.3397192087 -0.248720052 -0.6187248619 0.047510490  
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## 807 7.366954e-01 -1.1709961446 0.178365205 -1.3724326716 0.400563247  
## 808 1.633964e+00 0.4290377172 -0.227218564 0.6316357108 0.165272304  
## 809 1.681649e+00 2.0088637368 -1.052707752 0.4422099961 -0.117735336  
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## 812 -1.249944e+00 -0.3400597775 -1.819038510 -0.2938250646 1.167513100  
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## 817 1.412714e-01 0.6334052234 0.015828654 0.5114040379 -0.692642398  
## 818 -4.241613e-01 0.3731733149 0.511922288 0.0078914073 1.284315148  
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## 821 1.126701e+00 0.1411746021 0.539549897 1.9064270148 -0.628370127  
## 822 -1.301450e+00 0.1022254537 0.931725651 1.0485299866 -0.986934707  
## 823 -2.277182e-01 -0.6975070445 -1.109602421 1.6824093540 1.366624440  
## 824 -1.647108e-01 -0.2168434708 1.459577769 -1.6048610748 -0.525151310  
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## 827 7.484339e-01 1.2595757423 2.152829075 0.9628860014 0.244149070  
## 828 -8.597849e-01 0.7556635943 1.725798088 -0.3390280109 1.358824114  
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## 830 9.453314e-01 -0.2347394489 -0.504736356 1.5529300063 1.169291434  
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## 833 -6.894129e-01 0.5307613516 0.854572690 -2.1099020619 -0.239051558  
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## 838 5.216202e-01 0.0230113178 -1.140133027 0.4534871275 -0.330878529  
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## 849 1.457023e-01 -0.4780913010 0.596835740 -0.5747595898 -0.170396413  
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## 853 1.996356e+00 -0.3309766035 -0.367242108 -0.6697976943 2.011956937  
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## 862 1.709206e-01 -0.2029009210 0.605177402 1.1229338713 -0.817190229  
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## 864 2.739867e-01 -0.9167591553 -0.166681013 -0.6628644911 -0.063536602  
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## 874 -8.079942e-01 0.0710729679 1.062923140 2.2722586495 1.170462243  
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## 879 5.640602e-02 -0.5015937269 0.304186694 1.1423733620 -0.001918094  
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## 886 3.330671e-01 0.2601507990 0.373059529 -0.6022508259 -0.367126498  
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## 932 4.243812e-01 -2.1210783319 0.972972679 -0.7089462451 0.195910254  
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## 1064 -1.290836e+00 1.9522552687 -0.957497548 0.7686171460 0.077336175  
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## 1092 2.513796e-01 -1.0200849640 1.478663017 -0.0117419564 0.106075345  
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## 1095 -7.713338e-01 -1.7599507576 0.042479971 2.0814068286 0.590796130  
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## 1190 -1.030027e+00 -0.0311305290 -1.106049595 0.5135071987 -0.212756527  
## 1191 -8.541835e-01 -1.0083392167 1.238509717 -1.4282945706 -1.526419141  
## 1192 6.007258e-01 -1.6912147718 -0.183391153 0.0236045024 -0.837725511  
## 1193 -5.702734e-01 0.3294049096 -0.664025366 -0.9166631487 0.445331476  
## 1194 -2.261233e+00 -1.0123899607 -0.371480207 -0.8662010580 0.474357670  
## 1195 2.921249e-01 -0.4227556524 -1.291008427 0.0815391219 0.556470752  
## 1196 -4.476455e-01 0.7794249528 0.414503255 -1.1030021376 2.429213335  
## 1197 -5.547439e-01 0.3460369291 0.242031877 1.9495397806 -1.444023750  
## 1198 1.646362e-01 -0.2243763243 2.138261851 0.4543100006 -0.791955005  
## 1199 1.066750e-02 0.5706573493 0.730514481 -0.7330321723 0.370421512  
## 1200 -2.313109e-01 -0.8137787605 0.922953749 -1.8513139418 1.390277445  
## 1201 1.366393e+00 1.4027191303 1.419387200 1.0408041408 -0.568258531  
## 1202 -2.393528e-01 -0.3476418045 -0.668891863 0.5963931052 0.162270983  
## 1203 1.027442e-01 -0.9398161551 -0.951369267 -1.0321017135 0.503456129  
## 1204 5.400612e-01 -1.0385612622 1.651078375 1.1569879216 0.238799117  
## 1205 6.393506e-01 -0.0342451249 1.483659281 2.2492157332 -0.054133035  
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## 1207 1.118063e+00 0.7153660827 -0.017449898 -0.7346051412 -0.689088044  
## 1208 -7.486419e-01 -0.1369875496 -0.058680867 1.0099401312 -1.624271803  
## 1209 -2.947350e-01 0.7601227362 -0.083132378 0.5345813665 -0.434762774  
## 1210 -8.841394e-01 -1.4992589468 -0.245979026 0.9505759970 -0.379893325  
## 1211 -2.735502e+00 -0.5811798872 1.666415703 0.4106175127 1.267250639  
## 1212 1.369619e+00 0.1273560439 -0.942895834 0.5922035536 1.196639389  
## 1213 -1.640108e+00 -0.1825232164 0.248410086 -0.3545863551 -0.195931464  
## 1214 -5.316161e-01 0.3928987075 0.999808456 -0.3890880708 0.191858099  
## 1215 -9.310126e-01 -1.6403452075 -0.336504448 1.0088752596 -0.964284483  
## 1216 2.325344e-01 0.4960354132 -1.392240321 -0.4652698461 1.033582625  
## 1217 -9.566688e-02 1.3737891373 -0.769733164 -1.3432801463 0.450262580  
## 1218 5.916021e-02 0.8481119953 0.795371261 -1.3074342290 0.102656394  
## 1219 9.893505e-02 0.8682554872 -1.253667906 -1.1244024709 0.484820764  
## 1220 -3.013373e-01 -0.9981391531 1.765088847 -0.0175249127 -0.126013767  
## 1221 2.887566e-01 0.7161842775 -0.038798548 0.0697895645 1.080622632  
## 1222 1.252108e+00 -1.1371924666 -0.479863540 1.4339336726 -0.091738402  
## 1223 -1.297213e-02 -2.8744793979 0.221919134 -0.2163110275 0.725088405  
## 1224 -7.832390e-01 1.3840030781 1.010825288 -1.1514590755 0.051975309  
## 1225 -1.858235e-02 0.6326480956 0.741918385 -0.4085327898 0.071673353  
## 1226 6.297581e-01 1.4167471210 0.509045534 -0.1010447975 -0.130159519  
## 1227 6.168792e-02 -0.5104356199 -0.900636474 -0.1968010375 -0.030088489  
## 1228 -1.930164e+00 -1.1075053824 0.725170017 1.7860325221 -0.236914561  
## 1229 -1.432605e-01 1.0377459364 0.446315318 -0.0547383411 0.460249054  
## 1230 7.634462e-01 -1.6355035542 -0.403795667 -0.8107319657 0.899710298  
## 1231 -8.945613e-01 0.2522154139 0.099298037 0.6049478536 0.342680577  
## 1232 2.724230e-01 -1.2738750897 -0.198074698 -0.0158433329 -0.803498209  
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## 1234 1.000512e+00 0.9928677585 1.107880958 0.0566267694 0.040436480  
## 1235 -7.106260e-01 0.2427047031 -1.063356191 -0.4014730864 -0.068015318  
## 1236 -1.980584e-01 2.6288376518 -2.049728083 1.3899385746 -0.142173757  
## 1237 -1.062456e+00 1.0183712891 0.095361756 -0.3220038531 1.901875469  
## 1238 -1.945104e+00 -0.0534536691 -1.131826157 0.4427435407 1.997770995  
## 1239 -2.291992e+00 0.3215268658 -0.940105391 1.4000066987 0.056794359  
## 1240 8.629891e-01 -0.3209233391 -0.244610138 0.3292002126 0.525726294  
## 1241 5.506043e-01 -0.4946711273 -1.192067870 1.6581430046 -2.393888566  
## 1242 -2.055583e+00 -0.8408637308 0.558129951 -0.4368549883 0.992163959  
## 1243 -4.446484e-01 -0.4826364039 -0.357208030 0.3416952522 -1.290197627  
## 1244 1.172569e+00 0.6360744230 2.180659317 -0.2929149015 0.197301220  
## 1245 -1.792387e+00 0.7994101021 -0.842937134 1.7190058415 0.433977876  
## 1246 6.621460e-02 0.9261341501 1.024962669 -1.1858646571 1.665129789  
## 1247 4.539363e-01 -0.3141527280 0.924193797 -1.1393686134 0.867130490  
## 1248 -8.548964e-01 -0.5760990978 -0.462997925 0.0596988182 0.656347479  
## 1249 -2.369519e+00 -1.1597523964 0.078036678 1.3724107706 -1.212537624  
## 1250 1.322252e+00 -1.0001184697 -1.162077034 -1.2324453779 1.447198860  
## 1251 1.961810e+00 -0.4210096197 0.242697028 0.8039201184 -0.277622288  
## 1252 -2.827584e-01 0.4839873178 -0.480261506 -1.4746945099 -0.655782277  
## 1253 -2.747926e-02 0.3424288830 1.023573052 -1.7371000418 0.374108163  
## 1254 2.773487e-01 2.0071967462 -0.886637811 0.0096409524 0.112278829  
## 1255 2.956700e-01 0.9091874646 1.177293095 -0.3583966225 1.635769619  
## 1256 -1.741100e-01 -1.2489208755 -0.415301860 0.0019162604 -0.266330575  
## 1257 -7.053138e-01 1.2834907313 0.412278079 -0.5184981402 -0.567025300  
## 1258 1.101224e+00 0.6698853249 -0.536882667 1.5358905103 1.124018216  
## 1259 -8.784931e-01 1.6015572420 -1.896030071 1.8264198266 -0.487237301  
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## 1276 1.846127e+00 -0.2112903095 -0.038913541 -0.1716870100 0.753067059  
## 1277 -8.792851e-01 1.2571363535 -0.689360958 -1.4337565635 0.965086338  
## 1278 -5.889466e-01 0.5708776165 0.261310215 0.6778110345 0.058204269  
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## 1281 1.289860e+00 -0.7868492326 -0.566157606 -0.0102440969 0.258385735  
## 1282 3.960818e-01 -1.7841886724 -1.872016540 0.4749214478 -0.043658552  
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## 1294 -6.565254e-02 0.6197063386 0.721016622 -0.4950493804 0.987438034  
## 1295 1.996423e+00 -1.1701845893 1.597980382 1.8152247841 -0.476935642  
## 1296 1.477659e+00 -0.1991394169 0.895999646 0.6911878391 0.135302243  
## 1297 1.102485e+00 1.7294245701 -0.261884238 -1.2302943750 -0.236762083  
## 1298 4.004037e-01 -1.3200229538 1.281224501 -0.8230629017 0.037682363  
## 1299 -8.953851e-01 0.9946134158 -0.711978498 0.2655149416 0.533010421  
## 1300 1.654629e+00 -0.0207839740 -0.174720689 -0.9499280625 -0.974582887  
## 1301 1.574951e+00 -1.0122547190 -0.138557437 0.7878851508 -1.631990507  
## 1302 6.290621e-01 -0.0693009280 -0.171781950 -1.3199839209 0.117735414  
## 1303 1.449957e+00 -0.5450299694 -1.483271451 -1.4564441686 1.251023720  
## 1304 8.489967e-01 1.6155843877 0.418132392 0.5831655192 -0.035827290  
## 1305 -1.651734e-01 0.1954677260 -0.150872028 0.6294567354 0.208613053  
## 1306 2.373541e+00 -0.5399774562 -0.500028685 0.1399115101 -0.792395524  
## 1307 -3.233867e-02 0.7419288155 -0.440971141 -0.3266928807 -1.043485159  
## 1308 -2.432282e-02 -2.5752741364 0.883613152 0.3218288720 1.600785347  
## 1309 2.242236e+00 -1.3214516771 -1.330522310 -2.2627929513 -1.386894064  
## 1310 -4.382909e-01 -0.6310784982 -0.081162737 -0.8458296134 -0.905462430  
## 1311 7.210036e-01 -0.1578746911 -0.149682566 -0.1363168819 0.274330908  
## 1312 -2.025096e-01 0.0499208167 -0.672393998 0.0396572760 -0.295875773  
## 1313 4.035391e-01 -2.0295420190 -0.141027550 0.4973031437 -0.627950127  
## 1314 1.147241e+00 -0.0865236309 -1.348136599 -0.6778656645 -1.573691152  
## 1315 1.818204e+00 1.9147330376 0.208262011 1.0269967134 -1.269002067  
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## 1317 4.910981e-01 1.0305499795 -0.414157318 -1.0126872893 0.300900235  
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## 1319 2.497708e+00 0.9106319776 -0.328309967 0.2872522094 -0.327627715  
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## 1322 2.212654e+00 0.9685471509 -0.420301770 -0.5518209260 -0.980628337  
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## 1334 -4.387065e-01 -0.2417778857 2.018753002 -0.8625684307 0.505586031  
## 1335 -5.851442e-01 -1.2566414700 1.145751001 1.1171776704 -0.609120102  
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## 1337 6.891100e-01 -0.7573791366 -0.233678976 -0.2901141131 -0.056274226  
## 1338 4.726275e-01 -0.9561455140 1.088097593 -0.5307017387 -0.457062378  
## 1339 1.404210e-01 -0.8144279876 -0.325979091 -0.3867410140 -1.194697810  
## 1340 -1.288896e+00 1.8756311512 -1.047191826 0.6130724118 -0.674759183  
## 1341 2.719178e-01 -0.6381745284 -0.981411586 0.2286769253 -0.233624542  
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## 1343 4.242182e-02 0.4920918629 0.969601213 -0.2821347498 1.026197023  
## 1344 -1.600407e+00 2.1104408092 0.617535411 -0.1146558726 1.304445090  
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## 1366 -1.790740e+00 1.8094220715 0.432302223 -1.0896281965 0.575799787  
## 1367 -1.766629e-01 0.2577727938 0.401035344 -0.0451749011 -1.439581351  
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## 1369 1.324911e-02 -0.1327217924 0.612066149 0.0656940770 2.010329191  
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## 1371 -1.559929e-02 0.6496520450 1.397922831 2.2867693155 1.402234805  
## 1372 1.997054e+00 0.6972357593 -0.872069156 -0.5041574235 0.689468688  
## 1373 -9.850163e-01 1.0150593822 -0.056363309 1.6797342852 -1.159077375  
## 1374 1.823675e+00 0.2489922913 -0.928768156 0.2186831106 -0.885584339  
## 1375 2.504681e-01 0.1346492829 0.854754913 0.8955615003 -1.443386305  
## 1376 -2.890594e-01 0.2991188322 1.114963571 0.1820762379 0.329964483  
## 1377 3.242078e-01 1.3372713452 -0.650903331 -1.2346709554 -1.151686680  
## 1378 -5.026728e-01 -0.5963631935 0.345741996 0.4084178487 0.980982195  
## 1379 -8.404233e-01 0.1702521240 -2.301177523 -1.1131856175 -1.240658361  
## 1380 5.799334e-01 1.7068896836 0.001826808 -0.1045770156 -0.082125178  
## 1381 -1.475797e+00 0.7282017489 0.244699266 0.4687070836 -0.724131413  
## 1382 -1.051944e+00 -1.2160838942 0.023795240 0.5276717571 -0.283556605  
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## 1384 -2.533620e-01 1.1391612292 0.530540304 -0.1777484200 -1.763762023  
## 1385 -4.489098e-01 0.3060420461 0.463318913 -1.0974408451 1.211445091  
## PC21 PC22 PC23 PC24 PC25  
## 1 0.4828063464 0.2033317363 -0.293264630 1.716424360 -1.767420052  
## 2 -1.8129985362 0.8979809912 -0.819693389 -0.509456407 0.986485484  
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## 4 0.0294015671 2.1127639426 0.207336447 -0.365636197 -1.211129306  
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## 1147 -0.368009877 1.367418395 1.9361337887 -0.6158817023  
## 1148 1.130004925 -1.413634674 0.2728764070 -0.4051512741  
## 1149 0.476892619 0.522532066 0.6560791673 -0.4079658917  
## 1150 -0.096597741 -0.737201127 0.9107352688 -0.2001927649  
## 1151 1.641146188 0.108106097 1.4624053023 0.8203299067  
## 1152 0.354777116 0.572522294 -1.3819671326 -0.2689825482  
## 1153 0.771946622 -1.750515561 -0.9987733479 -1.1090285149  
## 1154 0.633923755 -0.111216216 1.3435135959 0.5696899809  
## 1155 -0.263178691 1.020137291 -0.4477332331 -0.1146298158  
## 1156 0.453898906 0.074839406 1.0672191503 -0.1997296236  
## 1157 0.610592736 -0.078134131 -0.2725147107 -0.1003373670  
## 1158 -0.922457846 -0.837715683 0.0210225519 -0.4561566462  
## 1159 0.366576559 0.609111127 -0.1025113188 -0.4563386185  
## 1160 -1.131978281 -0.421971140 0.7856623009 -0.3958352316  
## 1161 -0.738433440 0.818188019 -0.1977659054 0.8761830768  
## 1162 0.160085212 0.144022554 0.7211577142 -0.4299082872  
## 1163 0.020898534 0.355051859 1.4716450233 -0.8427777245  
## 1164 0.408359924 -1.886017127 0.5378859681 1.0934313816  
## 1165 1.078261300 0.790659595 -0.3477090773 -0.5790354357  
## 1166 -0.374515663 1.202101930 -1.0475317080 0.7013737120  
## 1167 1.872887870 0.104296757 -0.6383984567 0.3194477294  
## 1168 -0.148743773 -0.405970336 -0.1387661698 -0.2410461565  
## 1169 0.235514412 -0.086927253 0.1406418281 1.3997217395  
## 1170 -0.286167772 0.903132086 0.5021215452 0.0201083929  
## 1171 -0.739287167 0.490613436 1.1092505880 -1.4358404327  
## 1172 -1.058545481 -1.209036448 1.2576937896 0.1772574482  
## 1173 1.299464553 -0.001804378 -0.4756127267 -0.1962011169  
## 1174 0.015340844 -2.321123878 -0.8464876681 0.3494371102  
## 1175 0.245210999 0.413589183 0.1401202698 -0.0395700602  
## 1176 0.254937097 0.450550268 0.6821035254 -0.8784804720  
## 1177 0.607309255 1.290375748 1.7690441159 -0.7926353043  
## 1178 0.294595969 -1.206055587 0.2961220044 -0.0037055254  
## 1179 0.350267514 0.383543127 -1.5073876003 -0.1886852690  
## 1180 -0.829797979 -0.244111875 -0.4243141362 0.8151163186  
## 1181 -0.693582720 0.259628401 -0.9967324887 -0.6662021928  
## 1182 -0.240737123 1.476864639 0.5572471012 -0.0745971207  
## 1183 1.670514745 0.255926169 0.2914748587 -0.0079906351  
## 1184 0.083917781 0.639878114 0.9205948612 1.4986097494  
## 1185 0.373365780 -0.767826610 -1.1451080311 -1.0996931985  
## 1186 -0.106297862 -0.349853020 0.2796695452 0.6454792695  
## 1187 -0.362147988 -1.112469764 -0.8653074248 -0.0409180867  
## 1188 0.292768341 -0.774190188 -0.7109861325 1.5968090064  
## 1189 -0.301438433 -2.112499154 0.4557455188 0.5698494022  
## 1190 0.067039978 0.120463441 -0.6718421203 -0.3194399338  
## 1191 0.153687331 0.690697508 0.3924047574 0.7812794176  
## 1192 0.280339876 -1.104235139 0.6490455912 -0.4294790669  
## 1193 0.083769661 -1.008460052 1.1130104620 0.2177001023  
## 1194 -1.088139494 -0.619216828 0.5393902583 -0.2564923671  
## 1195 -0.220413456 0.210442121 0.0506973664 -0.2065271631  
## 1196 -0.720425491 -0.237617601 0.1152962085 -1.1244065166  
## 1197 -1.261622487 0.519048583 -1.0471966327 -0.1582807258  
## 1198 0.090685530 -1.672757427 1.1488238562 0.2742769314  
## 1199 -1.204981967 0.674436548 0.1712811587 -0.4672513408  
## 1200 -0.168816571 1.792742316 0.3065059067 0.0762249625  
## 1201 1.553737357 -0.268572661 -0.8978040375 -0.1099748872  
## 1202 -0.365404193 0.657462101 -0.4882589365 -0.7491803422  
## 1203 -0.817772933 0.109064655 -0.1120929391 -0.7842113635  
## 1204 -0.435021765 -0.146147624 0.0396019759 1.5066573731  
## 1205 1.437884958 0.940416072 -0.6627247087 -0.0401503201  
## 1206 -0.111345840 0.498307417 0.6054627718 -0.2280814133  
## 1207 1.362871568 0.191759325 -0.6658662530 0.3859535079  
## 1208 -0.194119914 0.366069044 -1.4637088932 -0.7695548606  
## 1209 -1.003326545 0.122661034 0.0917754754 0.1605434011  
## 1210 0.388103944 -1.090139274 0.5291357933 0.3058086759  
## 1211 0.598570188 -0.297662507 0.2899672387 -0.0025648197  
## 1212 0.336946258 0.286599839 -0.1661081851 0.2963105609  
## 1213 -0.926976348 -0.596377216 0.0189972082 -0.2350951090  
## 1214 0.196793867 -0.080528060 1.8755050260 0.9091673963  
## 1215 1.958242092 -0.117891632 -0.4723800478 0.5832522897  
## 1216 0.085529608 -1.840876044 -0.7756223431 -0.5323619456  
## 1217 0.363457643 0.417583874 1.7444640979 0.0090195178  
## 1218 -0.897758076 1.427696477 -1.2811251988 0.6437403407  
## 1219 -0.047787949 1.325247240 0.1830497612 0.7270500913  
## 1220 -0.278909493 1.329480725 -1.3672272069 -0.4256683700  
## 1221 -0.528669418 -0.260306486 -1.0650189507 -1.1224151635  
## 1222 -0.273569996 1.486541301 0.3547896642 0.3593696250  
## 1223 1.024777307 0.517527044 -0.3646739703 0.0115890280  
## 1224 0.669617717 -0.909336984 -0.0582097432 -0.1350437161  
## 1225 -0.288299802 -0.654854864 0.1209022597 -0.2886293972  
## 1226 0.921837464 -0.778744521 -1.2353710006 1.5514137980  
## 1227 0.209357142 -0.140496628 0.2598735046 1.0297213300  
## 1228 -0.032351880 0.290082446 0.4893599626 0.4638586794  
## 1229 0.735118560 -0.813268002 -0.8535765735 -0.5268553903  
## 1230 0.527541248 0.684513800 0.9063811686 -0.0418571802  
## 1231 -0.672219315 0.641060133 -1.6071280253 -1.0671068048  
## 1232 0.425202307 -0.343325898 -0.1881798439 1.6790165844  
## 1233 0.517801605 -0.498101546 -0.8675639751 -1.1382037898  
## 1234 1.010379339 0.161255229 1.0762957515 -0.0227750133  
## 1235 0.275934173 0.140834782 0.3463282700 0.4060742097  
## 1236 -1.073877191 1.439442742 0.0650663297 0.6261015150  
## 1237 0.267192144 0.758745945 0.4272503044 0.2870071829  
## 1238 0.341344367 -0.333293659 0.9611754233 0.3067382047  
## 1239 0.372001796 0.026973907 0.7680312172 1.0256228654  
## 1240 0.473634475 1.539391335 -0.8115603616 0.2883525127  
## 1241 0.187042673 -0.216533507 0.3926520048 -0.5368410555  
## 1242 -0.359473459 -0.009534146 -1.3553620631 1.4947296547  
## 1243 0.022885842 -0.184374415 1.1505260655 0.9184647213  
## 1244 -1.312865185 -0.028947581 0.9450414795 -0.0750256801  
## 1245 0.761334332 1.856726803 0.3126897496 -0.5083219591  
## 1246 -0.984553652 0.355672361 1.2023962662 0.5842188729  
## 1247 0.924350815 -0.844865664 0.6449036606 -0.1105278019  
## 1248 -0.815667423 1.287479229 1.0762846399 -1.5288553976  
## 1249 0.345629952 1.048487465 0.0763623070 -0.0163889402  
## 1250 1.977083436 0.042521457 -0.8419968243 1.5870581976  
## 1251 -1.064472779 0.569477422 -0.8223884328 -0.5811805115  
## 1252 -0.669884369 -0.848011269 -0.0132480659 0.0381792676  
## 1253 0.044985737 -0.856916228 -0.2404187511 -0.8036655311  
## 1254 -0.612215173 0.120101674 0.5663083347 0.0059266222  
## 1255 0.146930377 0.055334534 1.4137462080 0.1802019524  
## 1256 0.391742587 -1.076685949 0.5923268239 -0.2523644801  
## 1257 0.085205729 0.339696643 -1.6732581662 1.0295500979  
## 1258 -0.176479947 -0.279389330 0.9772875405 -0.3953775180  
## 1259 1.361849582 1.650346294 0.0121100588 -1.2495883135  
## 1260 -0.132237963 0.015836114 0.0880535059 -0.0268908603  
## 1261 -1.617593527 0.479144304 0.0334430776 0.1733184025  
## 1262 0.771925176 0.106487288 0.7015473459 0.8322503907  
## 1263 -0.452920603 -0.249501642 0.3319912465 0.4505112072  
## 1264 0.736143978 -0.272835214 0.7821511566 -0.4537856911  
## 1265 -1.292271568 0.004084203 -0.2088415536 0.4771382106  
## 1266 -0.245723344 0.070065388 1.0053464985 -1.1953486518  
## 1267 1.882376458 0.200912865 0.3893028475 -0.0769279786  
## 1268 0.068236455 -0.544781419 -0.0464976460 0.6262759622  
## 1269 -0.978770206 0.289325422 -0.6209562207 -1.7088933167  
## 1270 -1.759415126 0.962474548 -0.7752753139 0.1724155343  
## 1271 -0.434607322 0.207085812 -0.8155714568 -1.9401619192  
## 1272 -0.058569693 -1.390689106 1.4365254610 -0.0482884820  
## 1273 1.152988319 -1.256438537 -0.8332809210 0.5547900851  
## 1274 -0.138616323 -0.093951744 -0.9357818884 0.0160589974  
## 1275 -0.081804191 -0.778386641 0.7980553699 -0.1003843682  
## 1276 -0.397919520 -0.237854766 -0.5480476414 -0.5705873691  
## 1277 -1.210114449 -1.255185400 -0.3868073673 1.4832077615  
## 1278 -1.094485266 -0.251705854 0.4928976888 2.4659401106  
## 1279 -0.640050520 -1.817682756 -0.0078576801 0.1794176416  
## 1280 -0.680927995 -0.958687695 0.3639893619 -0.5904026870  
## 1281 -0.642687542 -1.439842633 -0.6205141196 1.7529572694  
## 1282 -0.361297753 1.419319095 -1.7540077466 1.5387431833  
## 1283 0.071204361 0.711121106 -0.2188166985 1.0303788206  
## 1284 0.119967373 -1.595810153 -1.0836675905 0.1057779568  
## 1285 1.417969531 0.148744363 -0.7910675284 -0.2956530516  
## 1286 -0.301948179 0.729510826 0.0204091420 -0.7958829953  
## 1287 -0.316401073 -0.131653507 -0.1754158167 -0.1608289672  
## 1288 -0.159099964 -1.735721172 0.5070431346 -0.7962088282  
## 1289 0.461016097 0.266696000 0.5707339072 0.5698139277  
## 1290 1.028251685 -0.359910607 -0.0296409348 1.7780513606  
## 1291 -0.049532823 -0.031562033 0.4748095731 0.0707154653  
## 1292 -0.468493933 0.258435561 -0.0351594397 0.0904113651  
## 1293 1.601245859 0.051577622 0.4303982330 -0.0888737330  
## 1294 -1.075088029 0.025212863 0.1868141991 -0.2044476021  
## 1295 -0.692951181 1.003793034 0.0028929721 0.1474565103  
## 1296 1.020289228 1.158469202 0.4922913591 -0.2517480582  
## 1297 0.054474393 -0.152198109 0.7939259661 0.3143495702  
## 1298 0.352651019 -0.619788819 0.4841874584 -0.6233486866  
## 1299 -1.550324917 0.801463718 0.3518970923 0.2014269051  
## 1300 -0.591574598 0.918668803 0.4630469814 0.8363100212  
## 1301 0.671459730 -1.740432881 -1.1055784145 0.8574993025  
## 1302 -2.011707771 0.734460169 0.4861989520 -1.3508241844  
## 1303 -1.105326576 0.324846973 0.1306953192 -0.0605373268  
## 1304 1.647358916 -0.823582322 -0.7673112634 1.3325546967  
## 1305 0.040571804 -0.211431645 -0.7601842922 -0.2617829318  
## 1306 -0.107027321 -0.020312192 -0.2387531178 1.0207439852  
## 1307 -1.077067121 0.071744511 0.1001672955 0.0654074365  
## 1308 0.161836142 0.330148529 0.2542497750 -0.1041734065  
## 1309 -0.682825916 -0.436270854 -1.3742221580 -0.3913366984  
## 1310 -0.384145243 0.483721562 0.2015287546 0.0695077180  
## 1311 1.616727555 0.071410022 -1.1002963519 -1.0052468367  
## 1312 -0.207421726 -0.592119132 0.4323615522 -0.4383031805  
## 1313 0.160454849 -0.139995376 1.0972871133 -0.6879128580  
## 1314 -0.363674280 -0.272541417 -0.9501346493 0.1773401475  
## 1315 0.648341142 0.494460424 -0.5212092496 0.2449488691  
## 1316 -1.046858907 0.334756198 0.0332228267 -0.1684844171  
## 1317 -0.441038644 1.643675910 0.3135486447 0.3014136504  
## 1318 -0.637510897 -0.144276201 1.4576566534 0.4026355645  
## 1319 0.708901363 -0.307980040 -0.0457395983 0.4664629099  
## 1320 -1.346985450 0.959790031 0.4103829232 -0.1969430061  
## 1321 1.233072950 -0.400272910 -0.4829555544 0.3633894374  
## 1322 -0.324535277 0.343486161 -0.4718312628 -0.8896302717  
## 1323 -0.756152627 -0.128846603 -0.2566094199 0.0713487079  
## 1324 -0.969721055 -0.372260701 0.1185624169 -0.0716693466  
## 1325 -0.636488498 -0.648120810 0.5710210307 -0.1638979616  
## 1326 -1.191418155 0.590457153 -0.6769672931 -0.4334183209  
## 1327 -1.047984637 0.303267570 0.6284706106 -0.2456298629  
## 1328 0.520560206 -0.568184985 0.1277881354 1.2416759101  
## 1329 -0.335874519 0.274288244 -1.7515666968 0.1003919686  
## 1330 -0.362886403 0.362236760 -0.2931405345 0.1865776431  
## 1331 -0.237010708 0.104903888 1.5612232431 -0.1529620901  
## 1332 0.485991201 0.322588906 0.2310150982 -0.3296764545  
## 1333 -0.969550953 -2.226219101 0.7689238919 -0.4933576808  
## 1334 0.781616318 -0.098264270 -1.1070394465 -1.4301405800  
## 1335 -0.034342605 0.772977790 0.0954290034 0.2227715635  
## 1336 0.186078027 -0.978079100 -0.0571996025 -0.2159140756  
## 1337 -0.160557970 1.538290293 -0.7316988818 -0.4814405078  
## 1338 0.018737751 -0.237960761 0.1183233518 0.0963383908  
## 1339 -0.188249528 -0.171104274 -0.6498919294 0.7819849792  
## 1340 0.329476212 0.008329678 -0.5419122143 -0.7341272936  
## 1341 0.407285102 -0.361596206 0.3264537190 -0.2904675715  
## 1342 -0.095080410 1.157588626 0.0430755289 -0.2986478923  
## 1343 0.368481463 -0.962551467 -0.5022500523 0.3822946351  
## 1344 0.310739368 1.093782033 -1.0096975778 -0.5432300053  
## 1345 -0.428974101 -1.248462774 0.8044531430 0.7015437908  
## 1346 -0.083876631 -0.529947867 -0.7324441708 0.2670063295  
## 1347 0.223591333 2.037345029 -0.8327343377 -0.2516334629  
## 1348 0.988062589 1.221041246 0.1287729484 0.1044668947  
## 1349 -1.194390011 -2.364865822 -0.5021049386 -0.1279350113  
## 1350 0.621997144 0.391204723 0.3284517028 0.4926608319  
## 1351 -0.252775707 1.192011913 -0.2801052383 0.0380535074  
## 1352 0.643193210 0.912726388 0.0343636439 0.6102271046  
## 1353 2.466062425 1.989752107 0.2617670405 1.0898575309  
## 1354 1.522359774 0.795292503 -0.9018529487 0.7992627865  
## 1355 1.070361491 -0.474594266 -0.8865466710 0.3990491191  
## 1356 -0.918927704 0.756954740 0.4727833521 -0.3621283999  
## 1357 -1.382137664 0.411892229 0.0286535298 0.1470105204  
## 1358 0.859621835 -1.382883245 1.6352254601 0.2793510188  
## 1359 -0.555926236 -0.224378654 0.0823550421 -0.0241916251  
## 1360 1.124944132 -0.142169449 0.8974047617 -0.5940940409  
## 1361 0.985439668 -0.586061474 0.0804835738 -0.2014517430  
## 1362 -0.126831662 -0.291995151 0.3421062736 -0.4887747987  
## 1363 -0.982119778 -1.240102335 0.2991808273 0.1113005650  
## 1364 0.282659515 0.596157750 -1.0489864397 0.1168562265  
## 1365 1.311659285 0.300305166 -0.0472350928 -0.2247217307  
## 1366 0.245917589 -1.730523671 0.2712663980 0.1633469733  
## 1367 -1.541374671 0.424088893 -0.1478278007 0.2674456509  
## 1368 -0.747306821 1.003846966 -0.0730200585 0.1113447904  
## 1369 -1.574783821 -1.306783930 -0.0156860841 0.0501064948  
## 1370 1.956217368 0.244542880 0.2643376535 -0.0918734303  
## 1371 -0.606842339 0.761599319 0.0128714852 0.4942769401  
## 1372 0.962508470 -0.513738074 1.0777355251 -0.8814288691  
## 1373 -0.348727633 -1.663127541 -0.3971012840 -0.5549872231  
## 1374 -0.122825505 -1.895844694 -0.1968987269 -0.0287423386  
## 1375 1.244565813 -0.697693739 -0.5889467936 0.1573636743  
## 1376 0.725184169 0.452930635 1.4985019471 -0.4147899083  
## 1377 -0.700724308 0.321703869 -0.0070282287 0.0137290862  
## 1378 0.867088830 0.123646914 -0.2100341003 0.6822695598  
## 1379 0.353139020 0.234344788 0.1246724124 1.9564430625  
## 1380 -0.443756224 0.171224434 0.0683552206 1.9235377812  
## 1381 -1.538230356 -0.990475393 0.0580138131 0.5781459871  
## 1382 0.795155562 -0.736785143 0.4352565249 0.0352400065  
## 1383 1.058031642 -0.175987406 1.4115923316 0.5498884969  
## 1384 -0.521458442 0.427243179 0.5402317962 -1.6528026807  
## 1385 0.888337334 -1.317748032 -0.0585544293 0.0357826311

colnames(xtyp\_pca)[colnames(xtyp\_pca)=="HCV"] <- "p"  
  
  
#T-test  
  
t.test(xtyp\_pca$PC1,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC1  
## t = 1.3812e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.07258031 0.07258031  
## sample estimates:  
## mean of x   
## 5.110326e-17

t.test(xtyp\_pca$PC2,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC2  
## t = 3.1924e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05890145 0.05890145  
## sample estimates:  
## mean of x   
## 9.585373e-17

t.test(xtyp\_pca$PC3,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC3  
## t = -1.3147e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05858043 0.05858043  
## sample estimates:  
## mean of x   
## -3.926017e-17

t.test(xtyp\_pca$PC4,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC4  
## t = -1.1776e-14, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.057541 0.057541  
## sample estimates:  
## mean of x   
## -3.454062e-16

t.test(xtyp\_pca$PC5,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC5  
## t = -4.1339e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05683654 0.05683654  
## sample estimates:  
## mean of x   
## -1.197728e-16

t.test(xtyp\_pca$PC6,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC6  
## t = 4.3937e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05644074 0.05644074  
## sample estimates:  
## mean of x   
## 1.264148e-16

t.test(xtyp\_pca$PC7,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC7  
## t = 1.4728e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05601164 0.05601164  
## sample estimates:  
## mean of x   
## 4.205154e-17

t.test(xtyp\_pca$PC8,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC8  
## t = -2.5671e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05545865 0.05545865  
## sample estimates:  
## mean of x   
## -7.257477e-17

t.test(xtyp\_pca$PC9,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC9  
## t = -3.5647e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05432754 0.05432754  
## sample estimates:  
## mean of x   
## -9.87233e-17

t.test(xtyp\_pca$PC10,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC10  
## t = -9.8856e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05425367 0.05425367  
## sample estimates:  
## mean of x   
## -2.734037e-16

t.test(xtyp\_pca$PC11,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC11  
## t = 3.8301e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05362274 0.05362274  
## sample estimates:  
## mean of x   
## 1.046953e-16

t.test(xtyp\_pca$PC12,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC12  
## t = 3.5329e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05345617 0.05345617  
## sample estimates:  
## mean of x   
## 9.627199e-17

t.test(xtyp\_pca$PC13,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC13  
## t = -1.3948e-14, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05335081 0.05335081  
## sample estimates:  
## mean of x   
## -3.793323e-16

t.test(xtyp\_pca$PC14,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC14  
## t = 7.7887e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05297021 0.05297021  
## sample estimates:  
## mean of x   
## 2.103156e-16

t.test(xtyp\_pca$PC15,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC15  
## t = 1.1375e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05232264 0.05232264  
## sample estimates:  
## mean of x   
## 3.033915e-17

t.test(xtyp\_pca$PC16,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC16  
## t = -1.7259e-14, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05202847 0.05202847  
## sample estimates:  
## mean of x   
## -4.577439e-16

t.test(xtyp\_pca$PC17,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC17  
## t = 1.441e-14, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05168785 0.05168785  
## sample estimates:  
## mean of x   
## 3.796728e-16

t.test(xtyp\_pca$PC18,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC18  
## t = 2.5267e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05161749 0.05161749  
## sample estimates:  
## mean of x   
## 6.648561e-17

t.test(xtyp\_pca$PC19,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC19  
## t = -9.6291e-16, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05076703 0.05076703  
## sample estimates:  
## mean of x   
## -2.491958e-17

t.test(xtyp\_pca$PC20,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC20  
## t = 3.1081e-16, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.05023418 0.05023418  
## sample estimates:  
## mean of x   
## 7.959218e-18

t.test(xtyp\_pca$PC21,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC21  
## t = -1.9424e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04957742 0.04957742  
## sample estimates:  
## mean of x   
## -4.908983e-17

t.test(xtyp\_pca$PC22,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC22  
## t = 4.4445e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04904289 0.04904289  
## sample estimates:  
## mean of x   
## 1.111157e-16

t.test(xtyp\_pca$PC23,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC23  
## t = 1.5062e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04893451 0.04893451  
## sample estimates:  
## mean of x   
## 3.757132e-17

t.test(xtyp\_pca$PC24,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC24  
## t = 7.5899e-16, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.0485042 0.0485042  
## sample estimates:  
## mean of x   
## 1.876664e-17

t.test(xtyp\_pca$PC25,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC25  
## t = 1.3053e-14, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04811283 0.04811283  
## sample estimates:  
## mean of x   
## 3.201533e-16

t.test(xtyp\_pca$PC26,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC26  
## t = 4.0746e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04701561 0.04701561  
## sample estimates:  
## mean of x   
## 9.765609e-17

t.test(xtyp\_pca$PC27,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC27  
## t = -6.0049e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.04614832 0.04614832  
## sample estimates:  
## mean of x   
## -1.412655e-16

t.test(xtyp\_pca$PC28,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC28  
## t = -2.9579e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.03961035 0.03961035  
## sample estimates:  
## mean of x   
## -5.97271e-17

t.test(xtyp\_pca$PC29,xtyp\_pca$p,var.equal = TRUE)

##   
## One Sample t-test  
##   
## data: xtyp\_pca$PC29  
## t = 3.6587e-15, df = 1384, p-value = 1  
## alternative hypothesis: true mean is not equal to 0  
## 95 percent confidence interval:  
## -0.03835558 0.03835558  
## sample estimates:  
## mean of x   
## 7.153602e-17