Untitled

Arina

2024-11-04

trauma <- read.csv("C:/Users/Huawei/Desktop/biostat\_2024-2025/Специфика мед данных/trauma - Sheet1.csv")

#Задание 1 ##Описательная статистика для переменных

sum(is.na(trauma)) #поиск NA

## [1] 0

#Меняем знаки  
trauma$Height = gsub('"', '', trauma$Height)  
trauma$Weight = gsub(',', '.', trauma$Weight)  
trauma$Hb = gsub(',', '.', trauma$Hb)  
  
trauma

## id Name Sex Age Height Weight SBP DBP FOUR GSC  
## 1 1 Jecelle Oberly Female 24 68 176 102 78 10 8  
## 2 2 Halie Mccone Female 35 69.8 183.9 116 86 9 7  
## 3 3 Kole Cook Male 39 72.8 210.1 122 102 12 12  
## 4 4 Patricia Davis Female 20 70.5 195.4 120 100 11 9  
## 5 5 Grace Cress Female 63 66.8 169 112 84 9 7  
## 6 6 Joseph Benbrook Male 60 72.4 201.6 118 88 13 11  
## 7 7 Kelsie Coombs Female 63 69.6 216 122 100 10 9  
## 8 8 Aaron Eddy Male 26 74.7 194.1 114 94 11 10  
## 9 9 Victoria Hartman-Crowe Female 20 69.5 192.1 104 84 10 9  
## 10 10 Lindsay Locher Female 25 69.1 170.5 106 78 7 5  
## 11 11 Joshua Bullard Male 35 73.4 217 106 86 11 10  
## 12 12 Riley Beard Female 43 68.7 189.2 108 80 3 3  
## 13 13 Kyra Boyd Female 61 72.2 167.2 100 78 6 6  
## 14 14 Morgan Chacon Male 47 74.5 216.4 114 86 11 7  
## 15 15 Jackson Hall Male 40 71.9 217.9 114 82 13 11  
## 16 16 Maeve Waite Female 22 67.3 194.2 102 70 4 4  
## 17 17 Mackenzie Logan Female 61 66.8 139.5 126 98 13 12  
## 18 18 Dillon Rohweder Male 34 72.7 203.2 108 84 5 5  
## 19 19 Nicholas Devries Male 35 72 223.8 98 72 7 5  
## 20 20 Justin Hutchison Male 47 69.2 198.4 102 74 5 4  
## 21 21 Zhado Taylor Female 51 70.3 171.1 104 76 8 5  
## 22 22 Azamat Turk Male 27 75.8 198.7 106 80 9 8  
## 23 23 Courtney Miner Female 45 68.5 145.3 114 84 10 8  
## 24 24 Rachel Gardner Female 57 67.6 163.9 120 100 8 6  
## 25 25 Brian Conway Male 64 72.9 199.7 106 74 9 8  
## 26 26 Christopher Aziz Male 19 75.3 213.5 114 84 10 10  
## 27 27 Stephen Bobo Male 56 75 204.2 116 92 6 4  
## 28 28 Rachel Stewart Female 27 69.8 190.6 106 74 7 5  
## 29 29 Adam Wilkes Male 23 74.5 185.5 116 94 13 11  
## 30 30 Amberly Milliff Female 50 70.2 203.3 100 70 0 3  
## 31 31 Katelynn Dowse Female 31 69.9 198.9 106 80 12 10  
## 32 32 Heather Smith Female 56 70.1 190.3 116 96 12 11  
## 33 33 Kasey Kicera Male 48 75.5 198.4 110 88 13 10  
## 34 34 Jessica Hernandez Female 42 72.3 193.9 102 74 8 7  
## 35 35 Ryan Richie Male 19 72.4 191.7 118 92 12 11  
## 36 36 Madison Roseberry Female 31 72 167.8 110 86 10 9  
## 37 37 Dillon Yarbrough Male 20 73.8 167.6 108 78 7 5  
## 38 38 Zachary Stump Male 59 74.4 203.9 120 98 11 11  
## 39 39 Abigail Simonton Female 24 69.2 146.3 114 82 10 9  
## 40 40 Jordan Kendall Female 20 68.1 180.6 110 78 8 7  
## 41 41 Michael White Male 35 69.4 207.6 112 82 8 7  
## 42 42 Parker Drake Male 50 73.9 212.8 102 80 8 6  
## 43 43 Elijah Terrell Male 59 74.6 216.3 106 84 11 9  
## 44 44 Alexis Elson Female 29 65.5 190.2 106 80 9 7  
## 45 45 Kristofer Berger Male 36 75.6 188.1 106 78 5 3  
## 46 46 Amanda Goddard Female 47 67.8 194.4 112 84 10 9  
## 47 47 Sarah Sture Female 44 71.9 181.9 106 74 8 6  
## 48 48 Kirstye Schell Female 20 69.5 153 114 82 11 10  
## 49 49 Emily Lutkin Female 40 67.4 179.3 104 78 5 4  
## 50 50 Emily Brogan Female 62 69.3 154.2 104 72 3 3  
## 51 51 Zachary Dolquist Male 29 75 185.2 112 92 8 8  
## 52 52 Matthew Mawson Male 49 76.3 191.7 112 82 7 6  
## 53 53 Dillon Beck Male 60 74.2 192.2 122 90 11 10  
## 54 54 Jessica Hutson Female 20 64.9 194.9 106 74 3 3  
## 55 55 Jeffrey Mcilvride Male 24 71.9 200 104 76 6 4  
## 56 56 Nikki Gertie Female 23 67.3 166.9 120 98 9 9  
## 57 57 Mckenzie Stgermaine Female 37 69.9 171.5 110 78 7 7  
## 58 58 Brendan Chado Male 63 73.9 192.4 108 84 8 6  
## 59 59 Garrett Cline Male 35 73.3 203.8 104 78 5 4  
## 60 60 Dylan Hansen Male 51 72.8 209.1 110 90 7 6  
## 61 61 Linsey Mcginty Female 50 69.3 174.7 100 78 6 4  
## 62 62 Sara Olson Female 19 67.3 175.9 100 78 4 4  
## 63 63 Hannah Shimko Female 62 68.2 188.8 122 90 10 9  
## 64 64 Drae Boyle Male 43 72.6 188 100 70 7 6  
## 65 65 Alyssa Benton Female 50 66.2 178.6 114 94 7 6  
## 66 66 Cole Dupper Male 20 76.4 198.9 106 78 12 10  
## 67 67 Thomas Goddard Male 60 71.9 189.5 122 100 11 9  
## 68 68 Emily Peters Female 20 69.1 171.1 106 74 7 6  
## 69 69 Brooke Trayer Female 54 67.9 176.4 134 108 12 13  
## 70 70 Tristan Nelson Male 42 72.4 187.8 112 88 8 8  
## 71 71 Austin Wood Male 30 75 199.6 108 84 8 8  
## 72 72 John Patterson Male 41 75.2 181.9 114 88 9 7  
## 73 73 Eric Collupy Male 42 77 206.6 112 82 9 8  
## 74 74 Tanner Goodge Male 22 75.2 194 118 94 9 10  
## 75 75 Declan Fitzke Male 60 74.2 213 108 88 8 6  
## 76 76 Amie Dyer Female 44 74.2 187.4 118 98 10 8  
## 77 77 Alexander Kinzer Male 21 73.2 193.3 120 94 12 10  
## 78 78 Devin Witkin Male 49 72.5 195.8 110 90 8 8  
## 79 79 Austin Gorney Male 47 73.4 210.1 114 86 13 9  
## 80 80 Robert Bohnert Male 21 74.3 212 118 88 6 7  
## 81 81 Robert Barnes Male 38 75.7 208.2 120 96 15 12  
## 82 82 Jeffrey Casal Male 48 75.3 205.9 120 94 11 9  
## 83 83 Peter Skillman Male 55 74.3 174.3 114 94 8 7  
## 84 84 Madeline Otto Female 36 67.3 182.8 102 74 3 3  
## 85 85 Brittany O'Neil Female 54 71.3 159.7 112 92 8 6  
## 86 86 Kristopher Jacobs Male 58 76.3 202.1 102 76 8 5  
## 87 87 Linden Peyton Male 46 73.1 191.1 116 86 13 11  
## 88 88 Garrett Ceaglske Male 34 75.9 199.4 122 98 10 9  
## 89 89 Aaron Keselburg Male 61 75.4 183.3 104 72 4 4  
## 90 90 Riley Dann Male 52 76.6 198.5 122 90 10 10  
## 91 91 Sarah Stephenson Female 21 69.3 203.8 102 76 6 5  
## 92 92 Kyle Toler Male 23 72.2 228.4 94 70 4 5  
## 93 93 Dalton Angotti Male 56 76.1 163.7 114 88 12 12  
## 94 94 Staci Altenburg Female 54 67.5 156.2 112 88 11 9  
## 95 95 Morgan Gordon Female 21 70.1 159.7 104 80 8 8  
## 96 96 Kendra Powell Female 60 72.3 161.9 124 92 13 12  
## 97 97 Matthew Crozier Male 51 71.7 232.2 106 82 8 6  
## 98 98 Christopher Steele Male 60 77.6 216.2 100 78 4 5  
## 99 99 Mariah Sheppard Female 43 71.7 179.4 120 90 12 10  
## 100 100 Georgia Bice Female 34 67.9 195.7 108 80 7 7  
## 101 101 Abbie Erickson Female 56 68.5 214.9 106 74 9 8  
## 102 102 Kyle Gershon Male 54 73.1 210.6 104 76 6 5  
## 103 103 Jack Clayton Male 42 73.4 227.6 108 82 5 6  
## 104 104 Romeo Martenson Male 54 75.7 183.8 126 94 10 10  
## 105 105 Lindsey Korbe Female 21 67.2 164.8 104 80 6 4  
## 106 106 Erin Schaffer Female 39 68.6 197 106 78 7 6  
## 107 107 Rachel Ziegler Female 19 68.7 194.4 110 86 11 10  
## 108 108 Meredith Boekhoff Female 52 68.8 194.1 102 82 1 3  
## 109 109 John Wilson Jr Male 50 74.9 208.3 104 76 6 5  
## 110 110 Garrett Mutch Male 18 77.7 193.9 126 102 14 13  
## 111 111 Allison Kallberg Female 40 68.1 195.2 112 84 9 8  
## 112 112 Elexandra Kimberlain Female 45 67.4 208.7 108 86 4 3  
## 113 113 Ashley Maloney Female 31 70.6 199.6 110 88 9 7  
## 114 114 Wesley Read Male 21 75.3 180.3 102 74 9 7  
## 115 115 Travis Smith Male 35 75 208.1 102 76 7 6  
## 116 116 Collin Schad Male 42 75.7 201.2 104 84 7 5  
## 117 117 Jesse Schymanski Male 30 71.7 202.3 114 82 9 8  
## 118 118 Joseph Mckee Male 61 76.6 198.3 130 108 12 11  
## 119 119 Chrysanthe Norcross Female 38 69.9 162 108 84 6 5  
## 120 120 Bailey Brewer Female 50 70.9 186 118 94 11 10  
## 121 121 Darien Ament Male 26 73.3 221.3 94 70 3 3  
## 122 122 Brandon Larson Zody Male 29 70.8 225.5 122 92 15 13  
## 123 123 Michael Riss Male 19 73.5 208.2 106 80 11 9  
## 124 124 Paul Gray Male 33 72.7 190 104 74 7 6  
## 125 125 Shianne Dykstra Female 37 73.4 172.3 112 86 9 6  
## 126 126 Noah Trenker Male 23 73.7 191.8 110 80 5 5  
## 127 127 Gabrielle Blow Female 57 68.6 190.1 104 82 6 6  
## 128 128 Madalyn Tech Female 18 71.1 177.5 110 90 10 9  
## 129 129 Bradyn Carnahan Male 63 75.7 244.6 100 76 3 3  
## 130 130 Haley Vigil Female 55 70.3 177 124 104 11 10  
## 131 131 Megan Lewis Female 41 74.3 183.2 104 74 12 11  
## 132 132 Zoey Christensen Female 61 69.3 177.9 108 76 9 7  
## 133 133 Destini Ross Female 40 72.8 171.4 114 92 7 7  
## 134 134 Kelly Czaicki Female 42 69.5 193.7 114 94 11 10  
## 135 135 Teanna Fawley Female 56 66.1 173.1 102 74 8 6  
## 136 136 Coy Masciarelli Male 25 70 201 120 94 14 11  
## 137 137 Anna Carlson Female 42 70.3 176.8 118 92 11 9  
## 138 138 Paul Jenkins Male 38 72.5 158.6 112 86 15 12  
## 139 139 Claire Heinemann Female 33 69.1 190.8 104 74 7 5  
## 140 140 Sydney Moore Female 39 72.6 183.4 122 102 12 12  
## 141 141 Tait Watlington Male 20 75.2 188.2 110 84 12 9  
## 142 142 Ryan Lehnerz Male 29 73.9 221.4 114 94 11 10  
## 143 143 Cameron Deschepper Male 23 70.7 182.1 116 90 14 11  
## 144 144 Marija Martin Female 35 67.4 154.3 116 96 13 11  
## 145 145 Kara Durand Female 48 67.8 170.7 116 92 12 11  
## 146 146 Kaylie Collins Female 38 70.4 163.2 126 94 13 12  
## 147 147 Jakob Derush Male 21 75.5 212.8 110 88 7 5  
## 148 148 Mariah Kloberdanz Female 50 69 182.3 116 96 11 9  
## 149 149 Jared Apple Male 57 74.9 195.4 118 90 13 12  
## 150 150 Scott Smith Male 58 73.9 201.1 92 60 3 3  
## 151 151 Kayla Bril Female 22 69.1 166.7 112 82 13 11  
## 152 152 Dustin Swinnerton Male 19 75 203.7 110 88 6 5  
## 153 153 Abrielle Duffy Female 37 69.9 183.9 98 74 5 4  
## 154 154 Andrew Broussard Male 63 78.2 199.9 110 84 9 8  
## 155 155 Megan Ouellette Female 41 66.8 181 108 82 4 4  
## 156 156 Meredith Campbell Female 64 71.9 164.4 100 74 7 6  
## 157 157 Jonathan Bell Male 41 75.8 215 124 100 12 10  
## 158 158 Derek Arvidson Male 24 71.4 178.7 110 78 9 8  
## 159 159 Keaton Theodore Male 44 73.9 234.4 104 80 13 11  
## 160 160 Abby Pribble Female 29 67.7 205.4 104 84 10 7  
## 161 161 Elizabeth Connell Female 51 67.1 188.8 100 76 4 3  
## 162 162 Christopher Hooker Male 54 71.4 180.7 110 90 6 4  
## 163 163 Kendra Selby Female 39 68 187.4 118 98 9 9  
## 164 164 Daniel Lesser Male 40 73.6 176.1 114 86 8 8  
## 165 165 Cody Anderson Male 36 73.9 197 124 102 12 13  
## 166 166 Zane Tiedke Male 60 70.4 212.9 114 82 9 10  
## 167 167 Hunter Sizemore Male 44 75.4 213.6 102 72 6 5  
## 168 168 Wesley Harman Male 50 76 201.5 100 74 7 5  
## 169 169 Evan Warner Male 33 76.1 197.4 120 96 12 10  
## 170 170 Dylan Rangel Male 22 76 205 108 80 6 6  
## 171 171 Brecka Torrey Female 61 69.4 157.1 106 84 4 3  
## 172 172 Tyrell Beck Male 49 77.4 195.4 124 100 11 9  
## 173 173 Matthew Gribble Male 19 72.7 228.2 114 94 10 8  
## 174 174 Jonathan Brennan Male 23 72 174.9 106 82 7 6  
## 175 175 Taylor Cera Male 57 75.2 225.4 116 92 9 8  
## 176 176 David Packard Male 39 75.4 208.9 106 76 9 7  
## 177 177 Madeline Terraz Female 36 67.5 175.6 110 88 7 6  
## 178 178 Erik Pierpont Male 38 74.6 234.6 118 92 10 7  
## 179 179 Katherine Tecklenburg Female 49 69.6 180.4 106 86 7 7  
## 180 180 Breanna Haas Female 26 69.8 209.4 106 80 8 8  
## 181 181 Melanie Nuss Female 57 70.8 181.4 110 86 11 10  
## 182 182 Sarah Adams Female 60 70.9 189.3 116 84 8 7  
## 183 183 Jacob Dillsaver Male 55 69.6 192.4 106 78 4 4  
## 184 184 Zachary Suppes Male 41 78 187.1 118 92 8 8  
## 185 185 Anna Searby Female 30 69.9 151 104 84 4 3  
## 186 186 Chandra Wagner Female 49 67.9 171.7 112 90 7 8  
## 187 187 Darcy Starkebaum Female 61 66.8 191.9 108 84 7 6  
## 188 188 Ashley Pearson Female 63 70.8 164.5 122 96 16 13  
## 189 189 Christian Dore Male 20 75.2 183.6 110 86 10 9  
## 190 190 Brandin Wagner Male 36 76.7 194.4 114 82 10 9  
## 191 191 Jake Veatch Male 55 74.4 203.4 112 92 10 9  
## 192 192 Keli Emich Female 43 68.5 173.6 108 88 7 5  
## 193 193 Steven Brueggeman Male 32 79 219.2 96 64 1 3  
## 194 194 Ryan Johnson Male 37 70.4 205.4 116 94 14 13  
## 195 195 Dylan Deanda Male 19 75.3 200.5 118 96 7 8  
## 196 196 Jeremy Acker Male 57 75.3 184.5 104 82 6 5  
## 197 197 Tyler Hood Male 19 75.4 187 116 92 7 7  
## 198 198 Kellin Delbridge Male 48 75.6 207.9 120 94 12 10  
## 199 199 Courtney Robinson Female 45 68.4 176 110 86 11 10  
## 200 200 Jessie Binns Female 32 71.3 197.6 112 86 13 11  
## 201 201 Katie Craton Female 63 64.1 156.5 106 86 10 7  
## 202 202 Michael Martinez Male 56 72.9 206 98 76 9 6  
## 203 203 Kristin Knoebel Female 46 68.8 173.1 112 92 8 8  
## 204 204 Cole Koenig Male 24 74.8 223 100 76 4 4  
## 205 205 Tyler Hite Male 58 75.3 207.4 106 74 10 9  
## 206 206 Lucas Aberle Male 45 75.8 185.6 100 74 8 5  
## 207 207 Bailey Frost Female 55 66 161.4 116 86 8 7  
## 208 208 Michael Rogers Male 19 74.5 204.4 122 94 12 11  
## 209 209 Roy Kelvin Male 30 75.5 196.4 126 94 13 13  
## 210 210 Austin Klein Male 53 77.2 199.7 118 96 16 13  
## 211 211 Trevor Triplett Male 56 74.3 198.5 120 96 10 9  
## 212 212 Sydnee Sargent Female 42 72.2 190.8 106 78 9 8  
## 213 213 Andrew Tift Male 47 73.9 184.9 110 80 6 6  
## 214 214 Nicholas Chamberlain Male 40 74.4 253.1 110 88 9 8  
## 215 215 Arslan Brandner Male 45 74.8 205.4 126 104 14 12  
## 216 216 Kiana Hoffman Female 23 68 173 112 80 8 7  
## 217 217 Tanner Balagat Male 57 75.9 198.8 112 86 14 12  
## 218 218 Corey Bard Male 37 71.8 209.1 116 96 8 7  
## 219 219 Jarrett Hanson Male 54 74.5 210.5 112 88 10 9  
## 220 220 Shelbi Blackwell Female 62 67.9 154.4 120 88 16 14  
## 221 221 Jordan Henderson Male 30 73.4 170 112 80 9 9  
## 222 222 Koltyn Chitwood Male 56 76.8 199.7 96 76 5 4  
## 223 223 Christopher Baggerly Male 48 76.6 213.6 102 80 7 5  
## 224 224 Austen Breuer Female 55 72.2 183.5 98 70 6 5  
## 225 225 Dalton Homann Male 27 74 216.4 116 86 9 7  
## 226 226 Katelyn Newman Female 53 69.1 187 110 82 7 8  
## 227 227 Ryan Geers Male 52 71.4 207.2 106 84 10 11  
## 228 228 Nicholas Herder Male 53 73.7 226.2 112 80 14 12  
## 229 229 Noah Pell Male 33 78 185.1 104 80 6 5  
## 230 230 Jagger Devincenzo Male 21 73.7 189.1 90 66 6 4  
## 231 231 Zackery Bukowski Male 49 72.2 206.8 98 66 8 7  
## 232 232 Christopher Fulmer Male 20 74.6 204.8 108 88 12 11  
## 233 233 Alexander Kuhlman Male 48 77 168.2 118 94 10 9  
## 234 234 Jacob Spencer Male 32 71.3 209.1 112 92 9 8  
## 235 235 Elora Yantis Female 36 68.5 161.7 120 92 14 13  
## 236 236 Madeline Hoffpauir Female 60 69.9 162.6 106 86 8 9  
## 237 237 Samuel Joy Male 49 78.5 226.9 118 90 15 13  
## 238 238 Daisy Brandon Female 51 67.8 198.4 98 70 4 4  
## 239 239 Robert Grogan Male 51 77.5 189.8 116 88 10 10  
## 240 240 Devon Meadows Male 28 73.6 226 118 94 12 10  
## 241 241 Joseph Bhargava Male 37 72.4 193.1 116 88 12 11  
## 242 242 Jake Hoylman Male 44 72.2 216.4 102 72 5 3  
## 243 243 Devon Barnes Male 58 74.1 221.7 110 80 7 5  
## 244 244 Trigg Grubb Male 45 74.5 221 102 72 3 3  
## 245 245 Matthew Nielsen Male 60 73.9 219.8 102 78 8 6  
## 246 246 Brett Siert Male 34 76.6 196.7 116 94 7 6  
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## 248 248 Tyrell Cordova Male 51 74.3 219.8 108 80 10 8  
## 249 249 Austin Castine Male 28 73.3 199.9 108 80 8 7  
## 250 250 Kayli Kirschbaum Female 38 66.4 170.8 118 94 13 11  
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## 253 253 Joshua Ochiato Male 26 74.6 212.4 120 98 11 11  
## 254 254 Riley Brusak Male 52 77.2 223.2 112 80 11 9  
## 255 255 Leonard Ferraro Male 33 75.1 191.7 114 92 12 11  
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## 257 257 Trey Irvin Male 54 74.6 184.7 98 78 5 3  
## 258 258 Cole Emory Male 35 72.9 202.3 116 90 11 10  
## 259 259 Travis Dermody Male 31 75.1 188.3 104 82 5 3  
## 260 260 Lindsey Mcconnell Female 30 69.7 186.8 96 66 6 4  
## 261 261 Terri Hildebrandt Female 19 67.4 180.4 118 96 8 8  
## 262 262 Jared Manuppella Male 48 74.4 222.7 110 86 11 10  
## 263 263 Vaughn Miller Male 52 78.5 205.8 114 94 11 11  
## 264 264 Nicole Atwell Female 47 66.7 174.9 106 82 3 5  
## 265 265 Matthew Colligan Male 21 77.4 174.9 116 96 10 9  
## 266 266 Nicholas Mccall Male 42 74 194.2 102 76 4 4  
## 267 267 Kaylee Metcalf Female 22 72 172.2 120 96 16 14  
## 268 268 Jordan Rozman Male 30 72.8 218.2 96 72 6 5  
## 269 269 Katheryn Mullen Female 18 68.9 187.9 114 90 14 12  
## 270 270 Cherith Levalley Female 50 69.6 172.2 112 80 8 8  
## 271 271 Camron Edwards Male 55 74.3 204.4 116 86 11 10  
## 272 272 Jillian Mccary Female 24 70.3 183 110 78 7 7  
## 273 273 Jared Akbarzadeh Male 46 74.2 205.9 112 82 9 9  
## 274 274 Logan Flores Male 35 76.9 196.5 112 88 11 9  
## 275 275 Haley Dunning Female 49 69.3 198.8 118 88 14 11  
## 276 276 Dylan Ackerman Male 35 75.9 220.6 122 102 7 6  
## 277 277 Chad Brown Male 55 72.1 183.4 104 72 4 4  
## 278 278 Cooper Buhr Male 63 73.2 215.9 100 78 5 5  
## 279 279 Riley Long Male 40 76.7 189.8 118 94 9 9  
## 280 280 Trey Smith Male 22 75.5 204.3 120 88 10 9  
## 281 281 Tyler Crespin Male 24 74.2 216 112 92 8 6  
## 282 282 Kevin Roberts Male 59 74.3 208.4 108 80 9 7  
## 283 283 Jamie Maeby Male 51 76 200.9 100 68 8 6  
## 284 284 Tory Moler Female 58 68.6 182.4 114 94 8 8  
## 285 285 Jacob Gebhart Male 60 74.6 234.8 128 108 16 14  
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## 288 288 Andrew Phillips Male 51 76 196.2 120 96 16 14  
## 289 289 Edgar Niemer Male 31 76.2 228.6 100 80 5 5  
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## 291 291 Aspen Geoffroy Female 36 69 187 100 72 9 7  
## 292 292 Leah Simenson Female 33 68.2 200.6 116 84 13 10  
## 293 293 Mhamed Hoffmeister Male 23 71.7 191.8 104 82 8 5  
## 294 294 Ty O Neill Male 45 76 194.5 120 92 10 9  
## 295 295 Trevor Peterson Male 53 77 195.3 108 78 10 9  
## 296 296 Jered Sabatka Male 42 73.4 203.6 122 94 10 9  
## 297 297 Briana Marshall Female 31 68.5 144.8 110 82 7 8  
## 298 298 Kerowyn Davis Female 38 72.4 174.7 124 96 16 14  
## 299 299 Charles Newton Male 59 71.2 211.6 100 80 6 5  
## 300 300 Jonah Powell Male 60 76 205.7 102 72 8 8  
## 301 301 Zachery Tolman Male 42 73.9 206.3 108 78 10 10  
## 302 302 Alexander Strange Male 53 74.3 177.2 112 90 10 8  
## 303 303 Jason Rehbein Male 53 73.3 204.2 102 70 5 4  
## 304 304 Christian Funk Male 57 76.7 199.3 120 88 9 9  
## 305 305 Mariah Tarran Female 61 66.7 181.3 104 78 5 5  
## 306 306 Mekenzie Nelson Female 37 70.9 194.4 122 98 12 10  
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## 308 308 Griffin Hedberg Male 28 71.2 197.2 110 80 6 7  
## 309 309 Maxwell Kauvar Male 58 72.2 192 116 90 9 8  
## 310 310 Codey Erickson Male 61 75.7 197.3 102 76 5 4  
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## 312 312 Bethany Grey Female 48 67.6 179.2 106 80 7 6  
## 313 313 Jefferson White Male 21 73.6 194.7 104 82 7 5  
## 314 314 William Drazga Male 29 73.8 200.2 96 68 4 3  
## 315 315 Avi Davis Male 41 75.9 221.3 100 74 2 3  
## 316 316 Sierra Smith Female 42 67.8 167.2 126 100 12 12  
## 317 317 Joseph Stark Male 53 74.7 196.3 116 84 14 12  
## 318 318 Stephanie Beck Female 30 70.5 165.2 126 98 13 11  
## 319 319 Tarra Abeln Female 50 65.9 214.6 106 76 9 8  
## 320 320 Taylor Cathcart Female 44 67.6 173.9 104 84 9 8  
## 321 321 Alan Thorvaldson Male 38 76.2 214.6 104 72 10 8  
## 322 322 Joao Shadden Male 58 73.7 201.6 110 90 8 7  
## 323 323 Shane Krieger Male 23 69.4 198.4 112 86 10 9  
## 324 324 Cullen Williams Male 33 72.8 195.6 112 82 11 8  
## 325 325 Alex Lemon Male 52 76.1 188.9 120 96 12 10  
## 326 326 Sydney Stark Female 43 68.1 201.1 124 98 12 11  
## 327 327 Chandler Fick-Cimino Male 26 73.7 210.4 106 80 8 7  
## 328 328 Clara Kobach Female 49 68.7 181.5 120 96 10 8  
## 329 329 Lindsay Bohlen Female 23 70.4 164.6 108 78 9 7  
## 330 330 Elea Mcguirk Female 31 68 173.7 100 76 5 3  
## 331 331 Alexandra Walden Female 51 70 195.3 100 80 6 6  
## 332 332 Cameron Pommier Male 20 75.6 186.1 106 74 8 8  
## 333 333 Hunter Eucker Male 23 72.5 192.4 112 82 10 9  
## 334 334 Colin Bates Male 37 74.4 212.7 118 98 13 11  
## 335 335 Clara Livingston Female 45 67.9 186.7 104 82 11 7  
## 336 336 Daniel Acosta Male 27 75.3 192 112 92 5 6  
## 337 337 Richard Petrose Male 41 71.5 225.8 120 92 11 9  
## 338 338 Joseph Pate Rinaldi Male 56 77.6 183.1 96 66 6 5  
## 339 339 Michaela Kinnison Female 22 71.7 202.2 114 84 12 11  
## 340 340 Mikalan Doyle Male 40 72.8 213.2 110 80 6 6  
## 341 341 Sebastian Boies Male 59 73.2 169.5 112 82 5 6  
## 342 342 Colin Bland Male 38 72.7 205.8 112 88 9 8  
## 343 343 Leanna Keeler Female 31 68.7 193 104 74 7 5  
## 344 344 Lance Schutt Male 21 73.5 189.1 116 94 12 10  
## 345 345 Kenneth Kellogg Male 59 74.7 200.8 108 80 6 5  
## 346 346 Nathan Keilman Male 25 70.7 176.6 116 94 11 10  
## 347 347 Amanda Brown Female 33 69.3 167.4 134 104 12 11  
## 348 348 Bernard Schwaigert Male 49 74.5 203.1 106 86 8 7  
## 349 349 Kimberly Hobbs Female 31 65.8 185.1 108 86 10 8  
## 350 350 Brianna Hill Female 38 69.6 179.9 112 90 7 7  
## 351 351 Mark Hart Male 40 74.6 189.4 116 92 6 8  
## 352 352 Bryce Gillett Male 29 74 209.9 102 74 2 3  
## 353 353 Patrick Mcgraw Male 35 74.5 220.9 108 80 6 6  
## 354 354 Timothy Ballard Male 21 75.3 192 114 84 10 10  
## 355 355 Crystal Cochran Female 35 69.7 181.8 120 98 9 9  
## 356 356 Jack Harmon Male 63 73.6 193 104 82 6 5  
## 357 357 Michele Fuller Female 27 71.3 179.8 110 78 9 8  
## 358 358 Brianna Jones Female 58 68.9 183.4 106 76 2 3  
## 359 359 Robert Bolender Male 23 74.2 199.5 124 102 11 12  
## 360 360 Carl George Male 27 76.4 195.7 106 80 6 6  
## 361 361 Caleb Buckley Male 52 76.5 193.9 110 82 9 8  
## 362 362 Glenna Campbell Female 30 67.6 181.5 118 88 10 8  
## 363 363 Troy Plante Male 28 72.5 198 112 84 6 5  
## 364 364 Estrella Giles Female 45 67.6 172.8 124 92 13 12  
## 365 365 Tori Carlson Female 22 66.6 186.7 110 78 10 9  
## 366 366 Carlos Watkins Male 40 70.9 207.1 104 72 10 8  
## 367 367 Jennifer Woodall Female 32 69.6 183.6 120 96 11 10  
## 368 368 Karlie Legatski Female 59 68.7 164.5 116 90 12 10  
## 369 369 Devin Johnson Male 28 75.8 207 122 98 11 10  
## 370 370 Mitchell Smith Male 42 74.5 207.4 116 84 16 14  
## 371 371 Alexander Gordiyenko Male 19 75.3 196.8 118 94 7 7  
## 372 372 Zachary Foerster Male 42 73.5 209.3 118 96 14 12  
## 373 373 Sydney Bohus Female 36 67.1 200 104 84 5 5  
## 374 374 Tanner Shue Male 18 76.1 205.9 110 78 7 7  
## 375 375 Brooke Santucci Female 44 70.5 192.5 104 78 8 6  
## 376 376 Alyxandra Kendig Female 39 65.5 200.2 104 84 6 4  
## 377 377 Samuel Allen Male 46 76.3 225.9 108 76 9 8  
## 378 378 David Fabiano Male 20 71 193.8 120 98 11 12  
## 379 379 Taylor Pate Male 48 74.4 194.9 104 72 7 7  
## 380 380 Sophia Mcdaniel Female 33 68.2 176.1 110 90 10 9  
## 381 381 Jared Deluna Male 25 74.2 217.5 120 90 11 10  
## 382 382 Zachary Yonts Male 28 76.7 209.7 124 100 9 9  
## 383 383 Sebastian Nolan Male 35 72 215.4 110 86 7 8  
## 384 384 Justin Bocek Male 49 74 205.5 104 72 6 6  
## 385 385 Josiah Lott Male 25 79.6 196.7 112 88 6 6  
## 386 386 Alexandria Rossman Female 37 66 159.2 116 94 11 11  
## 387 387 Charles Paulek Male 30 73.2 175.4 124 104 14 13  
## 388 388 Emily Vogel Female 34 68.9 211.2 100 78 7 7  
## 389 389 Kyle Dustin Male 23 74.9 201.1 118 90 13 10  
## 390 390 Kyle Johnson Male 31 73.4 209.4 116 94 6 5  
## 391 391 Caitlin Kayrevich Female 24 68.5 191.4 108 86 7 6  
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## 393 393 Kymberli Alfano Female 52 68.6 190.5 114 92 8 9  
## 394 394 Austin Daugherty Male 20 75 201.4 118 90 10 9  
## 395 395 Erika Daise Female 36 69.7 192.1 116 84 12 11  
## 396 396 Danny Roman Male 57 75.3 206.2 112 84 12 10  
## 397 397 Kayllie Kocol Female 36 70 171.6 118 90 11 10  
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## 405 405 Katelyn Margalit Female 54 66.8 180.6 108 76 12 10  
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## 409 409 Jackson Courtney Male 60 75.6 209 118 86 10 10  
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## 411 411 Mitchell Howard Male 34 76.3 164.9 100 72 6 4  
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## 426 426 Spencer Sullivan Male 58 76 222.2 126 102 10 9  
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## 444 444 Samantha Pummel Female 29 68.5 188.8 112 90 13 10  
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## 446 446 Donnie Grocke Male 32 73.2 208.9 112 80 11 8  
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## 472 472 Kasandra Husa Male 48 77 218.1 122 92 12 12  
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## 474 474 Cameron Suleski Female 52 69.3 192.5 124 102 12 13  
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## 490 490 Bryce Diering Male 23 76.3 211.8 106 74 10 8  
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## 561 561 Mackenzie Baer Female 56 67.4 179.4 106 86 9 9  
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## 566 566 Geoffrey Cisar Male 41 75.9 241.1 110 80 7 5  
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## 599 599 Alexander Kimzey Male 62 71.1 190.2 114 88 7 5  
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## 671 671 Luke Gallegos Male 23 76.7 199.3 108 76 8 6  
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## 673 673 Lucas Murray Male 57 75.2 225.2 98 68 6 4  
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## 733 733 Jasmine Price Female 56 67.7 159.1 112 82 10 10  
## 734 734 Rebecca Falbo Female 32 66.8 176 114 84 7 6  
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## 752 752 Tanner Davison Male 26 77.9 199 108 76 10 9  
## 753 753 Austin Airozo Male 42 72.3 188.3 108 82 6 5  
## 754 754 Travis Weiss Male 41 73.5 202.7 108 78 8 6  
## 755 755 Blake Martin Male 60 76.1 181 102 80 7 6  
## 756 756 Michael Friedman Male 39 74 236.6 106 74 10 10  
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## 771 771 Marcus Compton Male 38 76 224 104 72 7 5  
## 772 772 Jordan Smiley Male 19 74.6 193.8 100 78 6 7  
## 773 773 Garrett Mulder Male 59 70.7 205.1 104 74 5 4  
## 774 774 Cameron Calvano Male 24 74.3 220.4 108 84 6 5  
## 775 775 Michelle Smith Female 64 69 187.4 124 96 12 12  
## 776 776 Dylan Brungardt Male 21 72.8 208.9 114 88 10 9  
## 777 777 Sydnee Brown Female 56 66.6 171.2 106 82 6 6  
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## 779 779 Kassandra Markham Female 36 67.6 166.2 104 82 1 3  
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## 784 784 Beau Robinson Male 23 76.8 199.5 128 102 14 14  
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## 805 805 Clark Helmick Male 58 74.5 192.9 116 94 9 8  
## 806 806 Joseph Thornton Male 56 76 232.1 118 92 11 9  
## 807 807 Matthew Mace Male 26 73.7 197.9 112 90 13 11  
## 808 808 John Gardner Male 56 74.8 192.7 110 84 8 7  
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## 869 869 Mitchel Mcquaid Male 19 78.1 171.4 100 68 7 5  
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## 936 936 Jack Showalter Male 22 74.1 184 110 84 6 5  
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## 215 15.1 0  
## 216 11.4 0  
## 217 15 0  
## 218 13.7 1  
## 219 13.8 0  
## 220 13.7 0  
## 221 13.6 0  
## 222 12.8 1  
## 223 12.8 1  
## 224 10.1 1  
## 225 13.8 0  
## 226 11.6 1  
## 227 14 0  
## 228 14.5 0  
## 229 12.9 0  
## 230 13 1  
## 231 14.7 1  
## 232 14.8 0  
## 233 13.4 0  
## 234 14.9 0  
## 235 13.9 0  
## 236 12 1  
## 237 15.7 0  
## 238 10.8 1  
## 239 14.9 0  
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## 251 13.8 0  
## 252 15 0  
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## 321 13.4 0  
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## 326 12.3 0  
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## 350 11.9 0  
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## 356 14.1 1  
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## 362 11.5 0  
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## 417 13.3 1  
## 418 11.4 0  
## 419 13.5 0  
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## 421 14.6 0  
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## 425 12.4 1  
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## 429 11.5 0  
## 430 13.2 0  
## 431 14.4 0  
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## 433 14 0  
## 434 13.3 1  
## 435 12.6 0  
## 436 14 0  
## 437 13.4 0  
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## 445 13.1 1  
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## 457 13.9 1  
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## 459 12.5 0  
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## 463 11 1  
## 464 14.1 0  
## 465 15 0  
## 466 9.4 0  
## 467 13.1 1  
## 468 13.5 0  
## 469 16.2 0  
## 470 11.4 1  
## 471 14.6 0  
## 472 14.5 0  
## 473 12.2 1  
## 474 11.6 0  
## 475 14.8 0  
## 476 12.4 0  
## 477 13.9 0  
## 478 9.4 1  
## 479 15.9 0  
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## 484 12.4 1  
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## 497 10.7 1  
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## 547 10 1  
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## 587 12.6 0  
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## 589 13.6 1  
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## 595 11.4 0  
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## 602 12.9 1  
## 603 0 1  
## 604 14.2 0  
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## 606 11.8 1  
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## 608 14.4 0  
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## 611 12.6 1  
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## 614 13.3 0  
## 615 11.3 0  
## 616 0 0  
## 617 15 0  
## 618 13.5 0  
## 619 12.8 0  
## 620 13.9 0  
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## 622 13.5 1  
## 623 15.4 0  
## 624 12.3 0  
## 625 13.6 1  
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## 631 13.5 0  
## 632 14.1 0  
## 633 12.9 1  
## 634 12.8 1  
## 635 14.2 0  
## 636 12.2 0  
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## 639 13 0  
## 640 11.2 1  
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## 646 12.1 0  
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## 650 12.2 0  
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## 675 13 1  
## 676 14.1 1  
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## 678 13 0  
## 679 14.5 0  
## 680 14.3 0  
## 681 13.1 1  
## 682 11.9 1  
## 683 12.1 0  
## 684 11.9 0  
## 685 12.4 1  
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## 687 14.2 0  
## 688 15.2 0  
## 689 12 0  
## 690 13.4 1  
## 691 12.5 0  
## 692 14.5 1  
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## 694 11.7 0  
## 695 15.1 0  
## 696 11.4 0  
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## 699 10.9 0  
## 700 13.5 0  
## 701 9.7 1  
## 702 13.6 0  
## 703 14.6 0  
## 704 10.2 1  
## 705 13.2 0  
## 706 11.1 1  
## 707 12.5 1  
## 708 14.1 0  
## 709 13.9 0  
## 710 13.4 0  
## 711 11.7 0  
## 712 11.4 1  
## 713 14.5 0  
## 714 11.9 0  
## 715 13.3 0  
## 716 12 0  
## 717 14.7 0  
## 718 14 0  
## 719 14 0  
## 720 11.7 0  
## 721 13.6 1  
## 722 12.4 0  
## 723 13.8 0  
## 724 13.5 1  
## 725 12.6 1  
## 726 11.8 0  
## 727 15.8 0  
## 728 15.4 0  
## 729 14.2 0  
## 730 12.3 1  
## 731 0 1  
## 732 11.5 1  
## 733 11.8 1  
## 734 10.8 1  
## 735 14.6 0  
## 736 13.5 0  
## 737 13.2 1  
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## 741 11.4 1  
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## 750 14.2 0  
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## 761 11.3 1  
## 762 12.1 0  
## 763 14.7 0  
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## 766 11.3 0  
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## 768 13.1 1  
## 769 14.5 0  
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## 773 11.9 1  
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## 775 12 0  
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## 777 12.2 1  
## 778 10.9 1  
## 779 10.3 1  
## 780 10.7 1  
## 781 11.8 0  
## 782 11.4 1  
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## 786 12.9 0  
## 787 12.7 1  
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## 791 0 0  
## 792 13.1 0  
## 793 11.8 1  
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## 798 13.5 0  
## 799 10.3 1  
## 800 13.6 0  
## 801 9.7 1  
## 802 11.5 0  
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## 804 13.4 1  
## 805 14.3 0  
## 806 14.3 0  
## 807 15 0  
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## 812 11.7 0  
## 813 13.3 0  
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## 815 12.8 0  
## 816 12.5 0  
## 817 12.6 0  
## 818 13.5 1  
## 819 12.9 1  
## 820 14 0  
## 821 13.5 0  
## 822 0 0  
## 823 12.9 0  
## 824 12.7 1  
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## 841 11.3 1  
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## 843 13.9 1  
## 844 14 1  
## 845 15.2 0  
## 846 13.6 1  
## 847 12.9 0  
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## 849 12.7 0  
## 850 15.1 0  
## 851 14.2 0  
## 852 11 0  
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## 854 12.7 1  
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## 888 15.1 0  
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## 890 11.4 0  
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## 900 11.6 0  
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## 902 12.7 1  
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## 999 13.4 1  
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## 1001 10.7 1  
## 1002 14.9 0  
## 1003 10.9 1  
## 1004 13.8 0  
## 1005 13.7 0  
## 1006 15.4 0  
## 1007 14.3 1  
## 1008 12.2 1  
## 1009 13.5 0  
## 1010 11.9 1  
## 1011 14.9 0  
## 1012 13.9 0  
## 1013 12.7 0  
## 1014 14.3 0  
## 1015 13.7 0  
## 1016 11 1  
## 1017 14.5 0  
## 1018 12.8 1  
## 1019 11.9 0  
## 1020 13.8 0  
## 1021 13 0  
## 1022 12.3 1  
## 1023 13.3 1  
## 1024 13.5 0

##Изменение типа данных

trauma\_1 <- trauma %>%  
 mutate(id = as.factor(id),  
 FOUR = as.factor(FOUR),  
 GSC = as.factor(GSC),  
 Death = as.factor(Death),  
 Age = as.numeric(Age),  
 SBP = as.numeric(SBP),  
 DBP = as.numeric(DBP),  
 Height = as.numeric(Height),  
 Hb = as.numeric(Hb),  
 Weight = as.numeric(Weight))

trauma\_1 %>%  
 summary()

## id Name Sex Age   
## 1 : 1 Length:1024 Length:1024 Min. :18.00   
## 2 : 1 Class :character Class :character 1st Qu.:29.00   
## 3 : 1 Mode :character Mode :character Median :41.00   
## 4 : 1 Mean :40.94   
## 5 : 1 3rd Qu.:53.00   
## 6 : 1 Max. :64.00   
## (Other):1018   
## Height Weight SBP DBP FOUR   
## Min. :63.80 Min. :133.3 Min. : 90.0 Min. : 58.00 8 :131   
## 1st Qu.:69.70 1st Qu.:181.7 1st Qu.:106.0 1st Qu.: 78.00 10 :129   
## Median :72.80 Median :193.9 Median :110.0 Median : 84.00 9 :122   
## Mean :72.42 Mean :193.5 Mean :110.8 Mean : 84.78 7 :114   
## 3rd Qu.:75.10 3rd Qu.:205.4 3rd Qu.:116.0 3rd Qu.: 90.00 11 :105   
## Max. :79.90 Max. :253.1 Max. :134.0 Max. :110.00 6 : 91   
## (Other):332   
## GSC Hb Death   
## 8 :150 Min. : 0.0 0:615   
## 7 :135 1st Qu.:12.0 1:409   
## 9 :128 Median :13.1   
## 6 :107 Mean :12.8   
## 10 :105 3rd Qu.:14.0   
## 5 : 93 Max. :16.2   
## (Other):306

##Все нули заменяем на NA (пропущенные значения)

trauma\_2 <- trauma\_1 %>%  
 mutate(Hb = na\_if(Hb, 0))

##Пациенты с низким гемоглобином

low\_Hb\_Male <- trauma\_2 %>%  
 filter(Hb < 13.5 & Sex == "Male") %>%  
 nrow()  
  
low\_Hb\_Female <- trauma\_2 %>%  
 filter(Hb < 12 & Sex == "Female") %>%  
 nrow()  
  
low\_Hb\_Female + low\_Hb\_Male #количество пациентов с низким гемоглобином

## [1] 458

(low\_Hb\_Female + low\_Hb\_Male) / nrow(trauma\_2) \* 100 #процент пациентов с низким гемоглобином

## [1] 44.72656

##Меняем размерность переменных (для роста и веса)

trauma\_3 <- trauma\_2 %>%  
 mutate(across(Height, function(x) x\*2.54),  
 across(Weight, function(x) x/2.2))  
  
trauma\_3

## id Name Sex Age Height Weight SBP DBP FOUR  
## 1 1 Jecelle Oberly Female 24 172.720 80.00000 102 78 10  
## 2 2 Halie Mccone Female 35 177.292 83.59091 116 86 9  
## 3 3 Kole Cook Male 39 184.912 95.50000 122 102 12  
## 4 4 Patricia Davis Female 20 179.070 88.81818 120 100 11  
## 5 5 Grace Cress Female 63 169.672 76.81818 112 84 9  
## 6 6 Joseph Benbrook Male 60 183.896 91.63636 118 88 13  
## 7 7 Kelsie Coombs Female 63 176.784 98.18182 122 100 10  
## 8 8 Aaron Eddy Male 26 189.738 88.22727 114 94 11  
## 9 9 Victoria Hartman-Crowe Female 20 176.530 87.31818 104 84 10  
## 10 10 Lindsay Locher Female 25 175.514 77.50000 106 78 7  
## 11 11 Joshua Bullard Male 35 186.436 98.63636 106 86 11  
## 12 12 Riley Beard Female 43 174.498 86.00000 108 80 3  
## 13 13 Kyra Boyd Female 61 183.388 76.00000 100 78 6  
## 14 14 Morgan Chacon Male 47 189.230 98.36364 114 86 11  
## 15 15 Jackson Hall Male 40 182.626 99.04545 114 82 13  
## 16 16 Maeve Waite Female 22 170.942 88.27273 102 70 4  
## 17 17 Mackenzie Logan Female 61 169.672 63.40909 126 98 13  
## 18 18 Dillon Rohweder Male 34 184.658 92.36364 108 84 5  
## 19 19 Nicholas Devries Male 35 182.880 101.72727 98 72 7  
## 20 20 Justin Hutchison Male 47 175.768 90.18182 102 74 5  
## 21 21 Zhado Taylor Female 51 178.562 77.77273 104 76 8  
## 22 22 Azamat Turk Male 27 192.532 90.31818 106 80 9  
## 23 23 Courtney Miner Female 45 173.990 66.04545 114 84 10  
## 24 24 Rachel Gardner Female 57 171.704 74.50000 120 100 8  
## 25 25 Brian Conway Male 64 185.166 90.77273 106 74 9  
## 26 26 Christopher Aziz Male 19 191.262 97.04545 114 84 10  
## 27 27 Stephen Bobo Male 56 190.500 92.81818 116 92 6  
## 28 28 Rachel Stewart Female 27 177.292 86.63636 106 74 7  
## 29 29 Adam Wilkes Male 23 189.230 84.31818 116 94 13  
## 30 30 Amberly Milliff Female 50 178.308 92.40909 100 70 0  
## 31 31 Katelynn Dowse Female 31 177.546 90.40909 106 80 12  
## 32 32 Heather Smith Female 56 178.054 86.50000 116 96 12  
## 33 33 Kasey Kicera Male 48 191.770 90.18182 110 88 13  
## 34 34 Jessica Hernandez Female 42 183.642 88.13636 102 74 8  
## 35 35 Ryan Richie Male 19 183.896 87.13636 118 92 12  
## 36 36 Madison Roseberry Female 31 182.880 76.27273 110 86 10  
## 37 37 Dillon Yarbrough Male 20 187.452 76.18182 108 78 7  
## 38 38 Zachary Stump Male 59 188.976 92.68182 120 98 11  
## 39 39 Abigail Simonton Female 24 175.768 66.50000 114 82 10  
## 40 40 Jordan Kendall Female 20 172.974 82.09091 110 78 8  
## 41 41 Michael White Male 35 176.276 94.36364 112 82 8  
## 42 42 Parker Drake Male 50 187.706 96.72727 102 80 8  
## 43 43 Elijah Terrell Male 59 189.484 98.31818 106 84 11  
## 44 44 Alexis Elson Female 29 166.370 86.45455 106 80 9  
## 45 45 Kristofer Berger Male 36 192.024 85.50000 106 78 5  
## 46 46 Amanda Goddard Female 47 172.212 88.36364 112 84 10  
## 47 47 Sarah Sture Female 44 182.626 82.68182 106 74 8  
## 48 48 Kirstye Schell Female 20 176.530 69.54545 114 82 11  
## 49 49 Emily Lutkin Female 40 171.196 81.50000 104 78 5  
## 50 50 Emily Brogan Female 62 176.022 70.09091 104 72 3  
## 51 51 Zachary Dolquist Male 29 190.500 84.18182 112 92 8  
## 52 52 Matthew Mawson Male 49 193.802 87.13636 112 82 7  
## 53 53 Dillon Beck Male 60 188.468 87.36364 122 90 11  
## 54 54 Jessica Hutson Female 20 164.846 88.59091 106 74 3  
## 55 55 Jeffrey Mcilvride Male 24 182.626 90.90909 104 76 6  
## 56 56 Nikki Gertie Female 23 170.942 75.86364 120 98 9  
## 57 57 Mckenzie Stgermaine Female 37 177.546 77.95455 110 78 7  
## 58 58 Brendan Chado Male 63 187.706 87.45455 108 84 8  
## 59 59 Garrett Cline Male 35 186.182 92.63636 104 78 5  
## 60 60 Dylan Hansen Male 51 184.912 95.04545 110 90 7  
## 61 61 Linsey Mcginty Female 50 176.022 79.40909 100 78 6  
## 62 62 Sara Olson Female 19 170.942 79.95455 100 78 4  
## 63 63 Hannah Shimko Female 62 173.228 85.81818 122 90 10  
## 64 64 Drae Boyle Male 43 184.404 85.45455 100 70 7  
## 65 65 Alyssa Benton Female 50 168.148 81.18182 114 94 7  
## 66 66 Cole Dupper Male 20 194.056 90.40909 106 78 12  
## 67 67 Thomas Goddard Male 60 182.626 86.13636 122 100 11  
## 68 68 Emily Peters Female 20 175.514 77.77273 106 74 7  
## 69 69 Brooke Trayer Female 54 172.466 80.18182 134 108 12  
## 70 70 Tristan Nelson Male 42 183.896 85.36364 112 88 8  
## 71 71 Austin Wood Male 30 190.500 90.72727 108 84 8  
## 72 72 John Patterson Male 41 191.008 82.68182 114 88 9  
## 73 73 Eric Collupy Male 42 195.580 93.90909 112 82 9  
## 74 74 Tanner Goodge Male 22 191.008 88.18182 118 94 9  
## 75 75 Declan Fitzke Male 60 188.468 96.81818 108 88 8  
## 76 76 Amie Dyer Female 44 188.468 85.18182 118 98 10  
## 77 77 Alexander Kinzer Male 21 185.928 87.86364 120 94 12  
## 78 78 Devin Witkin Male 49 184.150 89.00000 110 90 8  
## 79 79 Austin Gorney Male 47 186.436 95.50000 114 86 13  
## 80 80 Robert Bohnert Male 21 188.722 96.36364 118 88 6  
## 81 81 Robert Barnes Male 38 192.278 94.63636 120 96 15  
## 82 82 Jeffrey Casal Male 48 191.262 93.59091 120 94 11  
## 83 83 Peter Skillman Male 55 188.722 79.22727 114 94 8  
## 84 84 Madeline Otto Female 36 170.942 83.09091 102 74 3  
## 85 85 Brittany O'Neil Female 54 181.102 72.59091 112 92 8  
## 86 86 Kristopher Jacobs Male 58 193.802 91.86364 102 76 8  
## 87 87 Linden Peyton Male 46 185.674 86.86364 116 86 13  
## 88 88 Garrett Ceaglske Male 34 192.786 90.63636 122 98 10  
## 89 89 Aaron Keselburg Male 61 191.516 83.31818 104 72 4  
## 90 90 Riley Dann Male 52 194.564 90.22727 122 90 10  
## 91 91 Sarah Stephenson Female 21 176.022 92.63636 102 76 6  
## 92 92 Kyle Toler Male 23 183.388 103.81818 94 70 4  
## 93 93 Dalton Angotti Male 56 193.294 74.40909 114 88 12  
## 94 94 Staci Altenburg Female 54 171.450 71.00000 112 88 11  
## 95 95 Morgan Gordon Female 21 178.054 72.59091 104 80 8  
## 96 96 Kendra Powell Female 60 183.642 73.59091 124 92 13  
## 97 97 Matthew Crozier Male 51 182.118 105.54545 106 82 8  
## 98 98 Christopher Steele Male 60 197.104 98.27273 100 78 4  
## 99 99 Mariah Sheppard Female 43 182.118 81.54545 120 90 12  
## 100 100 Georgia Bice Female 34 172.466 88.95455 108 80 7  
## 101 101 Abbie Erickson Female 56 173.990 97.68182 106 74 9  
## 102 102 Kyle Gershon Male 54 185.674 95.72727 104 76 6  
## 103 103 Jack Clayton Male 42 186.436 103.45455 108 82 5  
## 104 104 Romeo Martenson Male 54 192.278 83.54545 126 94 10  
## 105 105 Lindsey Korbe Female 21 170.688 74.90909 104 80 6  
## 106 106 Erin Schaffer Female 39 174.244 89.54545 106 78 7  
## 107 107 Rachel Ziegler Female 19 174.498 88.36364 110 86 11  
## 108 108 Meredith Boekhoff Female 52 174.752 88.22727 102 82 1  
## 109 109 John Wilson Jr Male 50 190.246 94.68182 104 76 6  
## 110 110 Garrett Mutch Male 18 197.358 88.13636 126 102 14  
## 111 111 Allison Kallberg Female 40 172.974 88.72727 112 84 9  
## 112 112 Elexandra Kimberlain Female 45 171.196 94.86364 108 86 4  
## 113 113 Ashley Maloney Female 31 179.324 90.72727 110 88 9  
## 114 114 Wesley Read Male 21 191.262 81.95455 102 74 9  
## 115 115 Travis Smith Male 35 190.500 94.59091 102 76 7  
## 116 116 Collin Schad Male 42 192.278 91.45455 104 84 7  
## 117 117 Jesse Schymanski Male 30 182.118 91.95455 114 82 9  
## 118 118 Joseph Mckee Male 61 194.564 90.13636 130 108 12  
## 119 119 Chrysanthe Norcross Female 38 177.546 73.63636 108 84 6  
## 120 120 Bailey Brewer Female 50 180.086 84.54545 118 94 11  
## 121 121 Darien Ament Male 26 186.182 100.59091 94 70 3  
## 122 122 Brandon Larson Zody Male 29 179.832 102.50000 122 92 15  
## 123 123 Michael Riss Male 19 186.690 94.63636 106 80 11  
## 124 124 Paul Gray Male 33 184.658 86.36364 104 74 7  
## 125 125 Shianne Dykstra Female 37 186.436 78.31818 112 86 9  
## 126 126 Noah Trenker Male 23 187.198 87.18182 110 80 5  
## 127 127 Gabrielle Blow Female 57 174.244 86.40909 104 82 6  
## 128 128 Madalyn Tech Female 18 180.594 80.68182 110 90 10  
## 129 129 Bradyn Carnahan Male 63 192.278 111.18182 100 76 3  
## 130 130 Haley Vigil Female 55 178.562 80.45455 124 104 11  
## 131 131 Megan Lewis Female 41 188.722 83.27273 104 74 12  
## 132 132 Zoey Christensen Female 61 176.022 80.86364 108 76 9  
## 133 133 Destini Ross Female 40 184.912 77.90909 114 92 7  
## 134 134 Kelly Czaicki Female 42 176.530 88.04545 114 94 11  
## 135 135 Teanna Fawley Female 56 167.894 78.68182 102 74 8  
## 136 136 Coy Masciarelli Male 25 177.800 91.36364 120 94 14  
## 137 137 Anna Carlson Female 42 178.562 80.36364 118 92 11  
## 138 138 Paul Jenkins Male 38 184.150 72.09091 112 86 15  
## 139 139 Claire Heinemann Female 33 175.514 86.72727 104 74 7  
## 140 140 Sydney Moore Female 39 184.404 83.36364 122 102 12  
## 141 141 Tait Watlington Male 20 191.008 85.54545 110 84 12  
## 142 142 Ryan Lehnerz Male 29 187.706 100.63636 114 94 11  
## 143 143 Cameron Deschepper Male 23 179.578 82.77273 116 90 14  
## 144 144 Marija Martin Female 35 171.196 70.13636 116 96 13  
## 145 145 Kara Durand Female 48 172.212 77.59091 116 92 12  
## 146 146 Kaylie Collins Female 38 178.816 74.18182 126 94 13  
## 147 147 Jakob Derush Male 21 191.770 96.72727 110 88 7  
## 148 148 Mariah Kloberdanz Female 50 175.260 82.86364 116 96 11  
## 149 149 Jared Apple Male 57 190.246 88.81818 118 90 13  
## 150 150 Scott Smith Male 58 187.706 91.40909 92 60 3  
## 151 151 Kayla Bril Female 22 175.514 75.77273 112 82 13  
## 152 152 Dustin Swinnerton Male 19 190.500 92.59091 110 88 6  
## 153 153 Abrielle Duffy Female 37 177.546 83.59091 98 74 5  
## 154 154 Andrew Broussard Male 63 198.628 90.86364 110 84 9  
## 155 155 Megan Ouellette Female 41 169.672 82.27273 108 82 4  
## 156 156 Meredith Campbell Female 64 182.626 74.72727 100 74 7  
## 157 157 Jonathan Bell Male 41 192.532 97.72727 124 100 12  
## 158 158 Derek Arvidson Male 24 181.356 81.22727 110 78 9  
## 159 159 Keaton Theodore Male 44 187.706 106.54545 104 80 13  
## 160 160 Abby Pribble Female 29 171.958 93.36364 104 84 10  
## 161 161 Elizabeth Connell Female 51 170.434 85.81818 100 76 4  
## 162 162 Christopher Hooker Male 54 181.356 82.13636 110 90 6  
## 163 163 Kendra Selby Female 39 172.720 85.18182 118 98 9  
## 164 164 Daniel Lesser Male 40 186.944 80.04545 114 86 8  
## 165 165 Cody Anderson Male 36 187.706 89.54545 124 102 12  
## 166 166 Zane Tiedke Male 60 178.816 96.77273 114 82 9  
## 167 167 Hunter Sizemore Male 44 191.516 97.09091 102 72 6  
## 168 168 Wesley Harman Male 50 193.040 91.59091 100 74 7  
## 169 169 Evan Warner Male 33 193.294 89.72727 120 96 12  
## 170 170 Dylan Rangel Male 22 193.040 93.18182 108 80 6  
## 171 171 Brecka Torrey Female 61 176.276 71.40909 106 84 4  
## 172 172 Tyrell Beck Male 49 196.596 88.81818 124 100 11  
## 173 173 Matthew Gribble Male 19 184.658 103.72727 114 94 10  
## 174 174 Jonathan Brennan Male 23 182.880 79.50000 106 82 7  
## 175 175 Taylor Cera Male 57 191.008 102.45455 116 92 9  
## 176 176 David Packard Male 39 191.516 94.95455 106 76 9  
## 177 177 Madeline Terraz Female 36 171.450 79.81818 110 88 7  
## 178 178 Erik Pierpont Male 38 189.484 106.63636 118 92 10  
## 179 179 Katherine Tecklenburg Female 49 176.784 82.00000 106 86 7  
## 180 180 Breanna Haas Female 26 177.292 95.18182 106 80 8  
## 181 181 Melanie Nuss Female 57 179.832 82.45455 110 86 11  
## 182 182 Sarah Adams Female 60 180.086 86.04545 116 84 8  
## 183 183 Jacob Dillsaver Male 55 176.784 87.45455 106 78 4  
## 184 184 Zachary Suppes Male 41 198.120 85.04545 118 92 8  
## 185 185 Anna Searby Female 30 177.546 68.63636 104 84 4  
## 186 186 Chandra Wagner Female 49 172.466 78.04545 112 90 7  
## 187 187 Darcy Starkebaum Female 61 169.672 87.22727 108 84 7  
## 188 188 Ashley Pearson Female 63 179.832 74.77273 122 96 16  
## 189 189 Christian Dore Male 20 191.008 83.45455 110 86 10  
## 190 190 Brandin Wagner Male 36 194.818 88.36364 114 82 10  
## 191 191 Jake Veatch Male 55 188.976 92.45455 112 92 10  
## 192 192 Keli Emich Female 43 173.990 78.90909 108 88 7  
## 193 193 Steven Brueggeman Male 32 200.660 99.63636 96 64 1  
## 194 194 Ryan Johnson Male 37 178.816 93.36364 116 94 14  
## 195 195 Dylan Deanda Male 19 191.262 91.13636 118 96 7  
## 196 196 Jeremy Acker Male 57 191.262 83.86364 104 82 6  
## 197 197 Tyler Hood Male 19 191.516 85.00000 116 92 7  
## 198 198 Kellin Delbridge Male 48 192.024 94.50000 120 94 12  
## 199 199 Courtney Robinson Female 45 173.736 80.00000 110 86 11  
## 200 200 Jessie Binns Female 32 181.102 89.81818 112 86 13  
## 201 201 Katie Craton Female 63 162.814 71.13636 106 86 10  
## 202 202 Michael Martinez Male 56 185.166 93.63636 98 76 9  
## 203 203 Kristin Knoebel Female 46 174.752 78.68182 112 92 8  
## 204 204 Cole Koenig Male 24 189.992 101.36364 100 76 4  
## 205 205 Tyler Hite Male 58 191.262 94.27273 106 74 10  
## 206 206 Lucas Aberle Male 45 192.532 84.36364 100 74 8  
## 207 207 Bailey Frost Female 55 167.640 73.36364 116 86 8  
## 208 208 Michael Rogers Male 19 189.230 92.90909 122 94 12  
## 209 209 Roy Kelvin Male 30 191.770 89.27273 126 94 13  
## 210 210 Austin Klein Male 53 196.088 90.77273 118 96 16  
## 211 211 Trevor Triplett Male 56 188.722 90.22727 120 96 10  
## 212 212 Sydnee Sargent Female 42 183.388 86.72727 106 78 9  
## 213 213 Andrew Tift Male 47 187.706 84.04545 110 80 6  
## 214 214 Nicholas Chamberlain Male 40 188.976 115.04545 110 88 9  
## 215 215 Arslan Brandner Male 45 189.992 93.36364 126 104 14  
## 216 216 Kiana Hoffman Female 23 172.720 78.63636 112 80 8  
## 217 217 Tanner Balagat Male 57 192.786 90.36364 112 86 14  
## 218 218 Corey Bard Male 37 182.372 95.04545 116 96 8  
## 219 219 Jarrett Hanson Male 54 189.230 95.68182 112 88 10  
## 220 220 Shelbi Blackwell Female 62 172.466 70.18182 120 88 16  
## 221 221 Jordan Henderson Male 30 186.436 77.27273 112 80 9  
## 222 222 Koltyn Chitwood Male 56 195.072 90.77273 96 76 5  
## 223 223 Christopher Baggerly Male 48 194.564 97.09091 102 80 7  
## 224 224 Austen Breuer Female 55 183.388 83.40909 98 70 6  
## 225 225 Dalton Homann Male 27 187.960 98.36364 116 86 9  
## 226 226 Katelyn Newman Female 53 175.514 85.00000 110 82 7  
## 227 227 Ryan Geers Male 52 181.356 94.18182 106 84 10  
## 228 228 Nicholas Herder Male 53 187.198 102.81818 112 80 14  
## 229 229 Noah Pell Male 33 198.120 84.13636 104 80 6  
## 230 230 Jagger Devincenzo Male 21 187.198 85.95455 90 66 6  
## 231 231 Zackery Bukowski Male 49 183.388 94.00000 98 66 8  
## 232 232 Christopher Fulmer Male 20 189.484 93.09091 108 88 12  
## 233 233 Alexander Kuhlman Male 48 195.580 76.45455 118 94 10  
## 234 234 Jacob Spencer Male 32 181.102 95.04545 112 92 9  
## 235 235 Elora Yantis Female 36 173.990 73.50000 120 92 14  
## 236 236 Madeline Hoffpauir Female 60 177.546 73.90909 106 86 8  
## 237 237 Samuel Joy Male 49 199.390 103.13636 118 90 15  
## 238 238 Daisy Brandon Female 51 172.212 90.18182 98 70 4  
## 239 239 Robert Grogan Male 51 196.850 86.27273 116 88 10  
## 240 240 Devon Meadows Male 28 186.944 102.72727 118 94 12  
## 241 241 Joseph Bhargava Male 37 183.896 87.77273 116 88 12  
## 242 242 Jake Hoylman Male 44 183.388 98.36364 102 72 5  
## 243 243 Devon Barnes Male 58 188.214 100.77273 110 80 7  
## 244 244 Trigg Grubb Male 45 189.230 100.45455 102 72 3  
## 245 245 Matthew Nielsen Male 60 187.706 99.90909 102 78 8  
## 246 246 Brett Siert Male 34 194.564 89.40909 116 94 7  
## 247 247 Brett Shaufler Male 30 190.246 87.63636 118 98 12  
## 248 248 Tyrell Cordova Male 51 188.722 99.90909 108 80 10  
## 249 249 Austin Castine Male 28 186.182 90.86364 108 80 8  
## 250 250 Kayli Kirschbaum Female 38 168.656 77.63636 118 94 13  
## 251 251 Jackson Bement Male 50 179.324 84.36364 110 88 9  
## 252 252 Noah Belfiore Male 49 190.246 100.22727 114 90 13  
## 253 253 Joshua Ochiato Male 26 189.484 96.54545 120 98 11  
## 254 254 Riley Brusak Male 52 196.088 101.45455 112 80 11  
## 255 255 Leonard Ferraro Male 33 190.754 87.13636 114 92 12  
## 256 256 Katelyn Downs Female 34 179.324 84.04545 98 70 7  
## 257 257 Trey Irvin Male 54 189.484 83.95455 98 78 5  
## 258 258 Cole Emory Male 35 185.166 91.95455 116 90 11  
## 259 259 Travis Dermody Male 31 190.754 85.59091 104 82 5  
## 260 260 Lindsey Mcconnell Female 30 177.038 84.90909 96 66 6  
## 261 261 Terri Hildebrandt Female 19 171.196 82.00000 118 96 8  
## 262 262 Jared Manuppella Male 48 188.976 101.22727 110 86 11  
## 263 263 Vaughn Miller Male 52 199.390 93.54545 114 94 11  
## 264 264 Nicole Atwell Female 47 169.418 79.50000 106 82 3  
## 265 265 Matthew Colligan Male 21 196.596 79.50000 116 96 10  
## 266 266 Nicholas Mccall Male 42 187.960 88.27273 102 76 4  
## 267 267 Kaylee Metcalf Female 22 182.880 78.27273 120 96 16  
## 268 268 Jordan Rozman Male 30 184.912 99.18182 96 72 6  
## 269 269 Katheryn Mullen Female 18 175.006 85.40909 114 90 14  
## 270 270 Cherith Levalley Female 50 176.784 78.27273 112 80 8  
## 271 271 Camron Edwards Male 55 188.722 92.90909 116 86 11  
## 272 272 Jillian Mccary Female 24 178.562 83.18182 110 78 7  
## 273 273 Jared Akbarzadeh Male 46 188.468 93.59091 112 82 9  
## 274 274 Logan Flores Male 35 195.326 89.31818 112 88 11  
## 275 275 Haley Dunning Female 49 176.022 90.36364 118 88 14  
## 276 276 Dylan Ackerman Male 35 192.786 100.27273 122 102 7  
## 277 277 Chad Brown Male 55 183.134 83.36364 104 72 4  
## 278 278 Cooper Buhr Male 63 185.928 98.13636 100 78 5  
## 279 279 Riley Long Male 40 194.818 86.27273 118 94 9  
## 280 280 Trey Smith Male 22 191.770 92.86364 120 88 10  
## 281 281 Tyler Crespin Male 24 188.468 98.18182 112 92 8  
## 282 282 Kevin Roberts Male 59 188.722 94.72727 108 80 9  
## 283 283 Jamie Maeby Male 51 193.040 91.31818 100 68 8  
## 284 284 Tory Moler Female 58 174.244 82.90909 114 94 8  
## 285 285 Jacob Gebhart Male 60 189.484 106.72727 128 108 16  
## 286 286 Bret Haefele Male 40 180.848 101.13636 108 86 9  
## 287 287 Connor Ross Male 21 198.120 91.45455 112 80 13  
## 288 288 Andrew Phillips Male 51 193.040 89.18182 120 96 16  
## 289 289 Edgar Niemer Male 31 193.548 103.90909 100 80 5  
## 290 290 Austin Samour Male 33 179.578 91.95455 110 84 9  
## 291 291 Aspen Geoffroy Female 36 175.260 85.00000 100 72 9  
## 292 292 Leah Simenson Female 33 173.228 91.18182 116 84 13  
## 293 293 Mhamed Hoffmeister Male 23 182.118 87.18182 104 82 8  
## 294 294 Ty O Neill Male 45 193.040 88.40909 120 92 10  
## 295 295 Trevor Peterson Male 53 195.580 88.77273 108 78 10  
## 296 296 Jered Sabatka Male 42 186.436 92.54545 122 94 10  
## 297 297 Briana Marshall Female 31 173.990 65.81818 110 82 7  
## 298 298 Kerowyn Davis Female 38 183.896 79.40909 124 96 16  
## 299 299 Charles Newton Male 59 180.848 96.18182 100 80 6  
## 300 300 Jonah Powell Male 60 193.040 93.50000 102 72 8  
## 301 301 Zachery Tolman Male 42 187.706 93.77273 108 78 10  
## 302 302 Alexander Strange Male 53 188.722 80.54545 112 90 10  
## 303 303 Jason Rehbein Male 53 186.182 92.81818 102 70 5  
## 304 304 Christian Funk Male 57 194.818 90.59091 120 88 9  
## 305 305 Mariah Tarran Female 61 169.418 82.40909 104 78 5  
## 306 306 Mekenzie Nelson Female 37 180.086 88.36364 122 98 12  
## 307 307 Stephen King Male 46 196.342 101.22727 112 92 6  
## 308 308 Griffin Hedberg Male 28 180.848 89.63636 110 80 6  
## 309 309 Maxwell Kauvar Male 58 183.388 87.27273 116 90 9  
## 310 310 Codey Erickson Male 61 192.278 89.68182 102 76 5  
## 311 311 Nicholas Sidor Male 45 184.404 96.63636 104 76 10  
## 312 312 Bethany Grey Female 48 171.704 81.45455 106 80 7  
## 313 313 Jefferson White Male 21 186.944 88.50000 104 82 7  
## 314 314 William Drazga Male 29 187.452 91.00000 96 68 4  
## 315 315 Avi Davis Male 41 192.786 100.59091 100 74 2  
## 316 316 Sierra Smith Female 42 172.212 76.00000 126 100 12  
## 317 317 Joseph Stark Male 53 189.738 89.22727 116 84 14  
## 318 318 Stephanie Beck Female 30 179.070 75.09091 126 98 13  
## 319 319 Tarra Abeln Female 50 167.386 97.54545 106 76 9  
## 320 320 Taylor Cathcart Female 44 171.704 79.04545 104 84 9  
## 321 321 Alan Thorvaldson Male 38 193.548 97.54545 104 72 10  
## 322 322 Joao Shadden Male 58 187.198 91.63636 110 90 8  
## 323 323 Shane Krieger Male 23 176.276 90.18182 112 86 10  
## 324 324 Cullen Williams Male 33 184.912 88.90909 112 82 11  
## 325 325 Alex Lemon Male 52 193.294 85.86364 120 96 12  
## 326 326 Sydney Stark Female 43 172.974 91.40909 124 98 12  
## 327 327 Chandler Fick-Cimino Male 26 187.198 95.63636 106 80 8  
## 328 328 Clara Kobach Female 49 174.498 82.50000 120 96 10  
## 329 329 Lindsay Bohlen Female 23 178.816 74.81818 108 78 9  
## 330 330 Elea Mcguirk Female 31 172.720 78.95455 100 76 5  
## 331 331 Alexandra Walden Female 51 177.800 88.77273 100 80 6  
## 332 332 Cameron Pommier Male 20 192.024 84.59091 106 74 8  
## 333 333 Hunter Eucker Male 23 184.150 87.45455 112 82 10  
## 334 334 Colin Bates Male 37 188.976 96.68182 118 98 13  
## 335 335 Clara Livingston Female 45 172.466 84.86364 104 82 11  
## 336 336 Daniel Acosta Male 27 191.262 87.27273 112 92 5  
## 337 337 Richard Petrose Male 41 181.610 102.63636 120 92 11  
## 338 338 Joseph Pate Rinaldi Male 56 197.104 83.22727 96 66 6  
## 339 339 Michaela Kinnison Female 22 182.118 91.90909 114 84 12  
## 340 340 Mikalan Doyle Male 40 184.912 96.90909 110 80 6  
## 341 341 Sebastian Boies Male 59 185.928 77.04545 112 82 5  
## 342 342 Colin Bland Male 38 184.658 93.54545 112 88 9  
## 343 343 Leanna Keeler Female 31 174.498 87.72727 104 74 7  
## 344 344 Lance Schutt Male 21 186.690 85.95455 116 94 12  
## 345 345 Kenneth Kellogg Male 59 189.738 91.27273 108 80 6  
## 346 346 Nathan Keilman Male 25 179.578 80.27273 116 94 11  
## 347 347 Amanda Brown Female 33 176.022 76.09091 134 104 12  
## 348 348 Bernard Schwaigert Male 49 189.230 92.31818 106 86 8  
## 349 349 Kimberly Hobbs Female 31 167.132 84.13636 108 86 10  
## 350 350 Brianna Hill Female 38 176.784 81.77273 112 90 7  
## 351 351 Mark Hart Male 40 189.484 86.09091 116 92 6  
## 352 352 Bryce Gillett Male 29 187.960 95.40909 102 74 2  
## 353 353 Patrick Mcgraw Male 35 189.230 100.40909 108 80 6  
## 354 354 Timothy Ballard Male 21 191.262 87.27273 114 84 10  
## 355 355 Crystal Cochran Female 35 177.038 82.63636 120 98 9  
## 356 356 Jack Harmon Male 63 186.944 87.72727 104 82 6  
## 357 357 Michele Fuller Female 27 181.102 81.72727 110 78 9  
## 358 358 Brianna Jones Female 58 175.006 83.36364 106 76 2  
## 359 359 Robert Bolender Male 23 188.468 90.68182 124 102 11  
## 360 360 Carl George Male 27 194.056 88.95455 106 80 6  
## 361 361 Caleb Buckley Male 52 194.310 88.13636 110 82 9  
## 362 362 Glenna Campbell Female 30 171.704 82.50000 118 88 10  
## 363 363 Troy Plante Male 28 184.150 90.00000 112 84 6  
## 364 364 Estrella Giles Female 45 171.704 78.54545 124 92 13  
## 365 365 Tori Carlson Female 22 169.164 84.86364 110 78 10  
## 366 366 Carlos Watkins Male 40 180.086 94.13636 104 72 10  
## 367 367 Jennifer Woodall Female 32 176.784 83.45455 120 96 11  
## 368 368 Karlie Legatski Female 59 174.498 74.77273 116 90 12  
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## 385 385 Josiah Lott Male 25 202.184 89.40909 112 88 6  
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## 734 734 Rebecca Falbo Female 32 169.672 80.00000 114 84 7  
## 735 735 Noah Hale Male 27 194.818 92.81818 104 82 10  
## 736 736 Cramer Lanphear Male 42 186.436 84.50000 108 76 8  
## 737 737 Oliver Tompkins Male 26 197.358 87.72727 114 86 9  
## 738 738 Madison Yokeley Female 28 171.704 85.63636 106 84 12  
## 739 739 Laura Oligschlaeger Female 62 178.562 86.00000 108 84 11  
## 740 740 Erin George Female 27 180.848 73.90909 118 96 9  
## 741 741 Haley Wiese Female 63 186.182 75.40909 108 76 6  
## 742 742 Devin Rucker Male 61 184.912 92.77273 120 100 11  
## 743 743 Anthony Tate Male 28 189.738 101.04545 110 86 9  
## 744 744 Chantalle Haworth Female 35 180.086 87.36364 112 88 6  
## 745 745 Katherine Shaffer Female 22 172.720 71.90909 118 88 12  
## 746 746 John Franquemont Male 58 192.278 86.45455 118 86 12  
## 747 747 Nathaniel Luke Male 64 186.944 78.81818 108 88 7  
## 748 748 Carsyn Cook Female 44 169.418 87.63636 118 88 16  
## 749 749 Katlynn Vogel Female 45 163.830 76.31818 94 74 0  
## 750 750 Matthew Osmundson Male 50 191.770 91.27273 118 92 11  
## 751 751 Scott Hart Male 44 187.452 95.50000 104 80 8  
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## 753 753 Austin Airozo Male 42 183.642 85.59091 108 82 6  
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## 757 757 Derek Smith Male 38 191.770 74.36364 106 76 10  
## 758 758 Ryan Orgeron Male 22 196.088 106.40909 120 94 11  
## 759 759 Julia Wright Female 61 186.436 86.18182 116 84 10  
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## 761 761 Katie Ricks Female 37 170.942 84.13636 110 78 9  
## 762 762 Sarah Roberts Female 36 169.672 81.95455 120 90 15  
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## 766 766 Ciana Simon Female 34 178.308 80.31818 104 74 10  
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## 779 779 Kassandra Markham Female 36 171.704 75.54545 104 82 1  
## 780 780 Emily Bandeira Female 62 171.958 77.13636 102 70 6  
## 781 781 Krista Nunnery Female 43 163.576 74.36364 118 98 10  
## 782 782 Kendra O Connor Female 47 174.498 79.27273 102 78 5  
## 783 783 Cody Ghaffarvand Laleh Male 33 194.056 93.63636 102 74 10  
## 784 784 Beau Robinson Male 23 195.072 90.68182 128 102 14  
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## 790 790 Kenneth Forsyth Male 44 198.882 81.72727 112 82 10  
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## 827 827 Serge Workman Male 56 183.896 86.86364 94 74 6  
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## 839 839 Shekinah Cooke Female 56 184.150 97.36364 114 92 12  
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## 845 845 James Stone Male 44 193.548 97.90909 108 78 11  
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## 852 852 Sara Alcantar Female 32 180.594 80.77273 122 98 11  
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## 854 854 Erick Perry Male 26 188.214 98.63636 110 90 7  
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## 871 871 Destinie Nelson Female 37 173.228 89.59091 102 72 5  
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## 876 876 Sophie Campa Female 19 181.102 60.59091 116 96 11  
## 877 877 Kenneth Wallace Male 60 189.738 91.50000 96 64 6  
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## 882 882 Leah Bergner Female 61 178.308 97.86364 106 80 11  
## 883 883 Amanda Landree Female 24 173.482 85.59091 108 88 10  
## 884 884 Tessa Shea Female 44 175.006 95.45455 110 80 7  
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## 888 888 Thamer Tomko Male 30 178.562 82.81818 102 78 12  
## 889 889 Esther Pigg Female 55 179.578 73.22727 110 86 6  
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## 891 891 Wyatt Miles Male 59 184.404 76.18182 114 92 7  
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## 896 896 Cassandra Aiken Female 42 182.880 74.40909 118 92 11  
## 897 897 Andrew Merritt Male 56 190.246 86.00000 116 92 11  
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## 899 899 Diana Rhodes Female 44 167.640 84.40909 118 86 13  
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## 902 902 Jared Dorrell Male 59 192.786 90.22727 114 88 8  
## 903 903 Chance Degenhart Male 29 184.658 79.27273 114 90 9  
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## 905 905 Benjamin Bruce Male 48 188.214 89.27273 118 86 8  
## 906 906 Claire Orr Female 25 177.292 90.59091 114 94 8  
## 907 907 Thomas Millsap Male 62 183.896 97.45455 114 84 10  
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## 913 913 Meagan Huber Female 27 165.354 79.86364 106 86 5  
## 914 914 Mary Mills Female 47 173.228 90.68182 106 86 7  
## 915 915 Chynna Key Female 60 175.514 76.72727 108 88 6  
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## 917 917 Mikayla Smith Female 25 168.148 82.27273 126 100 13  
## 918 918 Tyler Johnson Male 35 187.198 93.36364 104 80 9  
## 919 919 Sean Heinz-Adkison Male 20 188.722 103.00000 104 76 8  
## 920 920 Michael Dickison Male 23 184.658 85.18182 122 92 16  
## 921 921 Aunna Bohnen Female 51 168.402 78.68182 110 84 7  
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## 925 925 Emily Mote Female 63 182.372 85.50000 120 94 11  
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## 942 942 Bogdan Jenkins Male 21 194.818 79.50000 116 90 8  
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## 945 945 Mollie Barker Female 20 187.198 78.63636 92 66 4  
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## 954 954 Olivia Malik Female 47 176.022 76.86364 126 94 13  
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## 957 957 Carley Ogez Female 54 166.116 89.86364 102 80 7  
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## 923 6 NA 0  
## 924 5 14.0 1  
## 925 11 11.8 0  
## 926 5 10.7 1  
## 927 10 14.2 0  
## 928 7 12.6 0  
## 929 9 13.8 1  
## 930 7 12.5 1  
## 931 7 12.7 1  
## 932 8 12.5 0  
## 933 3 10.6 1  
## 934 5 11.4 1  
## 935 9 12.5 0  
## 936 5 13.9 1  
## 937 9 14.1 0  
## 938 5 12.7 1  
## 939 7 13.8 1  
## 940 6 11.8 1  
## 941 7 13.4 1  
## 942 8 13.8 0  
## 943 8 13.2 0  
## 944 10 14.2 0  
## 945 3 11.0 1  
## 946 11 14.2 0  
## 947 10 14.2 0  
## 948 6 11.7 0  
## 949 4 13.1 0  
## 950 6 13.0 1  
## 951 3 11.9 1  
## 952 9 13.6 0  
## 953 11 14.4 0  
## 954 11 13.1 0  
## 955 9 13.7 0  
## 956 11 12.4 0  
## 957 4 11.2 1  
## 958 6 10.8 1  
## 959 8 12.5 0  
## 960 9 13.2 0  
## 961 3 12.8 1  
## 962 10 11.7 0  
## 963 7 12.7 1  
## 964 8 11.3 0  
## 965 5 12.9 1  
## 966 10 12.3 0  
## 967 8 13.0 0  
## 968 5 13.1 1  
## 969 7 11.5 0  
## 970 3 12.8 1  
## 971 7 14.6 0  
## 972 8 13.8 0  
## 973 14 13.1 0  
## 974 10 14.0 0  
## 975 4 12.5 1  
## 976 9 13.1 0  
## 977 8 14.1 1  
## 978 10 14.4 0  
## 979 4 10.6 1  
## 980 11 14.2 0  
## 981 9 13.9 0  
## 982 6 13.1 0  
## 983 3 12.6 1  
## 984 7 11.9 1  
## 985 6 13.0 1  
## 986 3 12.6 1  
## 987 10 11.7 0  
## 988 11 13.9 0  
## 989 6 12.5 0  
## 990 3 11.3 1  
## 991 3 9.9 1  
## 992 3 12.6 1  
## 993 5 11.0 1  
## 994 4 10.7 1  
## 995 9 14.2 0  
## 996 7 14.1 1  
## 997 8 14.2 0  
## 998 10 15.1 0  
## 999 8 13.4 1  
## 1000 3 13.1 1  
## 1001 5 10.7 1  
## 1002 10 14.9 0  
## 1003 5 10.9 1  
## 1004 13 13.8 0  
## 1005 8 13.7 0  
## 1006 12 15.4 0  
## 1007 5 14.3 1  
## 1008 7 12.2 1  
## 1009 9 13.5 0  
## 1010 5 11.9 1  
## 1011 10 14.9 0  
## 1012 7 13.9 0  
## 1013 7 12.7 0  
## 1014 14 14.3 0  
## 1015 8 13.7 0  
## 1016 3 11.0 1  
## 1017 9 14.5 0  
## 1018 6 12.8 1  
## 1019 6 11.9 0  
## 1020 11 13.8 0  
## 1021 13 13.0 0  
## 1022 3 12.3 1  
## 1023 4 13.3 1  
## 1024 10 13.5 0

##Описательная статистика

trauma\_3 %>%   
 select(Age,  
 Death,  
 Height,  
 Weight,  
 SBP,  
 DBP,  
 Hb) %>%   
 tbl\_summary(by = Death) %>%  
 add\_p()

| **Characteristic** | **0** N = 615*1* | **1** N = 409*1* | **p-value***2* |
| --- | --- | --- | --- |
| Age | 40 (29, 52) | 43 (30, 53) | 0.14 |
| Height | 185 (178, 191) | 185 (176, 190) | 0.3 |
| Weight | 88 (83, 94) | 88 (82, 93) | 0.3 |
| SBP | 114 (108, 118) | 106 (102, 110) | <0.001 |
| DBP | 88 (82, 94) | 80 (76, 86) | <0.001 |
| Hb | 13.50 (12.50, 14.30) | 12.70 (11.40, 13.30) | <0.001 |
| Unknown | 10 | 6 |  |
| *1*Median (Q1, Q3) | | | |
| *2*Wilcoxon rank sum test | | | |

#Задание 2

trauma\_IMT <- trauma\_3 %>%  
 mutate('ИМТ' = Weight/Height\*100 %>% round(1))  
  
mean(trauma\_IMT$ИМТ) #средний уровень ИМТ

## [1] 47.82687

trauma\_high\_IMT <- trauma\_IMT %>%  
 filter(ИМТ > 30) %>%  
 nrow()  
  
trauma\_high\_IMT / nrow(trauma\_IMT) \*100 #доля пациентов с ожирением

## [1] 100

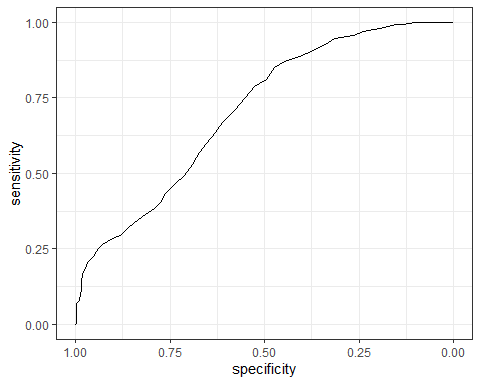
#Задание 3 ##ROC-кривая

roc\_curve\_1 <- roc(Death ~ Hb,   
 data = trauma\_3,  
 ci = T)

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

roc\_curve\_1 %>%   
 ggroc() +   
 theme\_bw()

 Кривая выше, чем диагональ, то есть плошадь под кривой больше 0.5. Это может говорить о том, что признак подходит для прогностической диангостики, то есть это не случайная диагностика (количественный признак не рандомно проводит классификацию по двум группам, а отклоняется от диагонали)

#Задание 4 ##Площадь под ROC-кривой и доверительный интервал

roc\_curve\_1 <- roc(Death ~ Hb,   
 data = trauma\_3,  
 ci = T)

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

roc\_curve\_1

##   
## Call:  
## roc.formula(formula = Death ~ Hb, data = trauma\_3, ci = T)  
##   
## Data: Hb in 605 controls (Death 0) > 403 cases (Death 1).  
## Area under the curve: 0.7078  
## 95% CI: 0.6763-0.7392 (DeLong)

Площадь под кривой - 0.7078 В доверительный интервал не входит 0,5, значит площадь под кривой значимо отличается от 0,5 => можем отвергнуть нулевую гипотезу. Признак подходит, чтобы предсказать смертельный исход

#Задание 5 ##Порог

roc\_curve\_1 %>% coords() #координаты для ROC-кривой

## threshold specificity sensitivity  
## 1 Inf 0.000000000 1.000000000  
## 2 16.05 0.001652893 1.000000000  
## 3 15.85 0.004958678 1.000000000  
## 4 15.75 0.009917355 1.000000000  
## 5 15.65 0.013223140 1.000000000  
## 6 15.50 0.016528926 1.000000000  
## 7 15.35 0.026446281 1.000000000  
## 8 15.25 0.028099174 1.000000000  
## 9 15.15 0.034710744 1.000000000  
## 10 15.05 0.054545455 1.000000000  
## 11 14.95 0.080991736 1.000000000  
## 12 14.85 0.097520661 1.000000000  
## 13 14.75 0.119008264 0.997518610  
## 14 14.65 0.132231405 0.992555831  
## 15 14.55 0.152066116 0.992555831  
## 16 14.45 0.196694215 0.980148883  
## 17 14.35 0.238016529 0.970223325  
## 18 14.25 0.266115702 0.957816377  
## 19 14.15 0.315702479 0.947890819  
## 20 14.05 0.338842975 0.928039702  
## 21 13.95 0.371900826 0.905707196  
## 22 13.85 0.406611570 0.888337469  
## 23 13.75 0.447933884 0.870967742  
## 24 13.65 0.472727273 0.851116625  
## 25 13.55 0.495867769 0.811414392  
## 26 13.45 0.527272727 0.786600496  
## 27 13.35 0.550413223 0.751861042  
## 28 13.25 0.578512397 0.709677419  
## 29 13.15 0.611570248 0.669975186  
## 30 13.05 0.629752066 0.635235732  
## 31 12.95 0.652892562 0.598014888  
## 32 12.85 0.672727273 0.568238213  
## 33 12.75 0.690909091 0.531017370  
## 34 12.65 0.712396694 0.493796526  
## 35 12.55 0.737190083 0.461538462  
## 36 12.45 0.761983471 0.434243176  
## 37 12.35 0.773553719 0.406947891  
## 38 12.25 0.790082645 0.384615385  
## 39 12.15 0.814876033 0.364764268  
## 40 12.05 0.826446281 0.352357320  
## 41 11.95 0.842975207 0.337468983  
## 42 11.85 0.866115702 0.315136476  
## 43 11.75 0.880991736 0.295285360  
## 44 11.65 0.902479339 0.285359801  
## 45 11.55 0.927272727 0.265508685  
## 46 11.45 0.938842975 0.250620347  
## 47 11.35 0.952066116 0.225806452  
## 48 11.25 0.966942149 0.205955335  
## 49 11.15 0.973553719 0.186104218  
## 50 11.05 0.980165289 0.166253102  
## 51 10.95 0.983471074 0.141439206  
## 52 10.85 0.985123967 0.114143921  
## 53 10.75 0.986776860 0.099255583  
## 54 10.65 0.990082645 0.079404467  
## 55 10.55 0.998347107 0.069478908  
## 56 10.45 0.998347107 0.057071960  
## 57 10.35 0.998347107 0.054590571  
## 58 10.25 0.998347107 0.042183623  
## 59 10.15 0.998347107 0.032258065  
## 60 10.05 0.998347107 0.027295285  
## 61 9.95 0.998347107 0.022332506  
## 62 9.85 0.998347107 0.014888337  
## 63 9.75 0.998347107 0.012406948  
## 64 9.65 0.998347107 0.007444169  
## 65 9.55 0.998347107 0.004962779  
## 66 9.45 0.998347107 0.002481390  
## 67 -Inf 1.000000000 0.000000000

#Определяем оптимальное пороговое значение

roc\_curve\_1 %>% coords(x = "best", best.method = "closest.topleft")

## threshold specificity sensitivity  
## 1 13.15 0.6115702 0.6699752

Оптимальное пороговое значение - 13.15 Чувствительность - 67% Специфичность - 61%

#Задание 6 ##Находим площадь под ROC-кривой для всех пколичественных переменных

trauma\_3 %>% names()

## [1] "id" "Name" "Sex" "Age" "Height" "Weight" "SBP" "DBP"   
## [9] "FOUR" "GSC" "Hb" "Death"

trauma\_3 %>%   
   
 select(Age,  
 Death,  
 Height,  
 Weight,  
 SBP,  
 DBP,  
 Hb) %>%   
   
 pivot\_longer(cols = !Death) %>%   
   
 group\_by(name) %>%   
   
 summarise(AUC = roc(Death, value, ci = T)$ci[2] %>% round(3),  
 AUC\_LCL = roc(Death, value, ci = T)$ci[1] %>% round(3),  
 AUC\_UCL = roc(Death, value, ci = T)$ci[3] %>% round(3))

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## # A tibble: 6 × 4  
## name AUC AUC\_LCL AUC\_UCL  
## <chr> <dbl> <dbl> <dbl>  
## 1 Age 0.527 0.491 0.563  
## 2 DBP 0.744 0.714 0.774  
## 3 Hb 0.708 0.676 0.739  
## 4 Height 0.482 0.445 0.518  
## 5 SBP 0.786 0.759 0.814  
## 6 Weight 0.518 0.482 0.554

Наибольшая площадь под кривой для переменной - SBP (систолическое артериальное давление при поступлении). У человека с черепно-мозговой травмой артериальная гипотензия может приводить к ухудшению перфузии головного мозга и повышает риск формирования вторичных ишемических повреждений. Уменьшение уровня систоличесого артериального давления является прогностически неблагоприятным фактором. Наименьшая площадь под кривой для перменной - Height (рост)