As the population grows older, cancer becomes an Issue. Generally this disease appears in relation to age. Below is a study of 339 men going through prostate cancer treatments at a large medical center in Philadelphia.

Prostate, as in all cancers, is quantified by the medical profession in stages. Generally the classification is 1 to 4 with 1 being the least dangerous, 4 being the worst. We have translated this to A to D representing 1 to 4.

The patients have the option of treatments. Radical surgery would remove the prostate. General radiation would use Gamma ray technology to attempt to destroy the cancerous tissue while the prostate is not removed (A new study involving proton beam radiation is in the works once that becomes more readily available.)

Seed radiation involves the planting of radioactive particles (described as seeds) into the prostate to destroy the cancerous tissue. Another possibility is a holistic one involving a diet high in beta carotenes.

Cryogenics involves attacking the cancer with low temperature. This is an attempt to destroy the tumor’s blood supply by freezing the surrounding tissue.

A final treatment offered to these patients is Provenge, a drug that is being tested and has yet to be approved by the FDA, which attacks prostate cancer as if a virus. The patients below who are using provenge are part of a larger study to determine whether this drug, an outgrowth of genetic research, really is an immunological answer to this type of cancer.

Each patient has been scanned as to body type. There are 6 body types to which a patient can be assigned:

|  |  |
| --- | --- |
| B1 | Underweight, little to medium musculature |
| B2 | Underweight, muscular |
| B3 | Average, little to medium musculature |
| B4 | Average, muscular |
| B5 | Overweight |
| B6 | Obese |

Finally, Efficacy is a doctor derived result. How does the doctor feel this treatment has worked with the patient. The ratings are from 1 to 5 where 1 indicates a cure (the patient is free of cancer) and 5 is the worst scenario – the cancer has spread. Below is a table indicating the patients and their procesdures.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Patient | Stage | Body Type | Treatment | Efficacy |
| Patient 1 | A | B6 | Provenge | 1 |
| Patient 2 | B | B5 | Provenge | 3 |
| Patient 3 | C | B4 | Provenge | 4 |
| Patient 4 | B | B3 | Diet | 2 |
| Patient 5 | C | B3 | Provenge | 1 |
| Patient 6 | C | B2 | Seed Radiation | 2 |
| Patient 7 | C | B2 | Diet | 2 |
| Patient 8 | A | B6 | Provenge | 1 |
| Patient 9 | C | B1 | Diet | 2 |
| Patient 10 | A | B2 | Diet | 2 |
| Patient 11 | D | B3 | Provenge | 1 |
| Patient 12 | C | B1 | Radical Surgery | 4 |
| Patient 13 | A | B2 | Radical Surgery | 2 |
| Patient 14 | A | B5 | General Radiation | 3 |
| Patient 15 | A | B6 | Diet | 3 |
| Patient 16 | A | B6 | Diet | 4 |
| Patient 17 | B | B1 | Radical Surgery | 3 |
| Patient 18 | B | B5 | cryogenics | 4 |
| Patient 19 | B | B5 | Radical Surgery | 2 |
| Patient 20 | A | B4 | Radical Surgery | 5 |
| Patient 21 | D | B6 | Radical Surgery | 4 |
| Patient 22 | B | B3 | Seed Radiation | 3 |
| Patient 23 | C | B6 | Provenge | 1 |
| Patient 24 | A | B5 | Radical Surgery | 4 |
| Patient 25 | D | B2 | General Radiation | 3 |
| Patient 26 | A | B3 | Cryogenics | 3 |
| Patient 27 | B | B2 | Radical Surgery | 1 |
| Patient 28 | D | B1 | Cryogenics | 1 |
| Patient 29 | A | B5 | Diet | 3 |
| Patient 30 | B | B7 | Cryogenics | 1 |
| Patient 31 | A | B7 | Seed Radiation | 1 |
| Patient 32 | B | B6 | Diet | 4 |
| Patient 33 | A | B4 | Radical Surgery | 4 |
| Patient 34 | C | B2 | General Radiation | 2 |
| Patient 35 | B | B2 | Provenge | 1 |
| Patient 36 | C | B3 | Seed Radiation | 5 |
| Patient 37 | A | B6 | General Radiation | 3 |
| Patient 38 | C | B2 | Provenge | 2 |
| Patient 39 | B | B3 | Diet | 2 |
| Patient 40 | C | B4 | General Radiation | 5 |
| Patient 41 | C | B5 | General Radiation | 5 |
| Patient 42 | A | B3 | Seed Radiation | 1 |
| Patient 43 | D | B3 | Diet | 1 |
| Patient 44 | C | B5 | Diet | 3 |
| Patient 45 | A | B3 | seed radiation | 1 |
| Patient 46 | A | B2 | Radical Surgery | 2 |
| Patient 47 | B | B5 | Provenge | 4 |
| Patient 48 | D | B4 | Radical Surgery | 5 |
| Patient 49 | C | B3 | Radical Surgery | 4 |
| Patient 50 | A | B2 | General Radiation | 4 |
| Patient 51 | A | B4 | General Radiation | 3 |
| Patient 52 | C | B5 | Provenge | 3 |
| Patient 53 | B | B6 | Cryogenics | 1 |
| Patient 54 | A | B6 | Provenge | 3 |
| Patient 55 | A | B1 | General Radiation | 5 |
| Patient 56 | B | B2 | Diet | 1 |
| Patient 57 | C | B3 | General Radiation | 3 |
| Patient 58 | D | B2 | Diet | 2 |
| Patient 59 | B | B6 | Provenge | 2 |
| Patient 60 | C | B5 | Diet | 2 |
| Patient 61 | C | B2 | Diet | 2 |
| Patient 62 | A | B6 | General Radiation | 1 |
| Patient 63 | B | B4 | Provenge | 1 |
| Patient 64 | D | B6 | Provenge | 1 |
| Patient 65 | C | B5 | General Radiation | 3 |
| Patient 66 | B | B4 | Seed Radiation | 3 |
| Patient 67 | C | B3 | Radical Surgery | 2 |
| Patient 68 | A | B4 | Radical Surgery | 3 |
| Patient 69 | B | B4 | Seed Radiation | 3 |
| Patient 70 | B | B2 | Diet | 1 |
| Patient 71 | B | B5 | Diet | 2 |
| Patient 72 | A | B5 | Diet | 3 |
| Patient 73 | A | B5 | cryogenics | 1 |
| Patient 74 | A | B1 | Radical Surgery | 1 |
| Patient 75 | A | B1 | Seed Radiation | 2 |
| Patient 76 | A | B1 | General Radiation | 2 |
| Patient 77 | B | B5 | Diet | 3 |
| Patient 78 | D | B2 | Cryogenics | 3 |
| Patient 79 | A | B6 | Radical Surgery | 2 |
| Patient 80 | D | B3 | Diet | 3 |
| Patient 81 | A | B2 | Cryogenics | 4 |
| Patient 82 | B | B6 | Provenge | 1 |
| Patient 83 | C | B4 | General Radiation | 4 |
| Patient 84 | A | B2 | General Radiation | 4 |
| Patient 85 | C | B2 | Radical Surgery | 2 |
| Patient 86 | B | B4 | Provenge | 3 |
| Patient 87 | C | B5 | Diet | 2 |
| Patient 88 | C | B5 | Seed Radiation | 1 |
| Patient 89 | D | B6 | General Radiation | 2 |
| Patient 90 | A | B4 | Diet | 1 |
| Patient 91 | A | B2 | Radical Surgery | 3 |
| Patient 92 | C | B6 | Radical Surgery | 3 |
| Patient 93 | B | B5 | Radical Surgery | 2 |
| Patient 94 | B | B6 | Cryogenics | 1 |
| Patient 95 | C | B6 | Seed Radiation | 1 |
| Patient 96 | C | B7 | Seed Radiation | 1 |
| Patient 97 | C | B3 | Diet | 2 |
| Patient 98 | C | B5 | Radical Surgery | 3 |
| Patient 99 | D | B2 | General Radiation | 2 |
| Patient 100 | C | B3 | General Radiation | 4 |
| Patient 101 | D | B2 | Diet | 1 |
| Patient 102 | A | B3 | General Radiation | 4 |
| Patient 103 | A | B3 | Provenge | 5 |
| Patient 104 | B | B5 | Seed Radiation | 1 |
| Patient 105 | A | B3 | Provenge | 1 |
| Patient 106 | B | B6 | Cryogenics | 1 |
| Patient 107 | A | B5 | Seed Radiation | 2 |
| Patient 108 | A | B4 | General Radiation | 1 |
| Patient 109 | C | B4 | Provenge | 1 |
| Patient 110 | C | B3 | Radical Surgery | 3 |
| Patient 111 | D | B6 | Cryogenics | 1 |
| Patient 112 | A | B1 | Seed Radiation | 1 |
| Patient 113 | A | B1 | Diet | 3 |
| Patient 114 | A | B6 | General Radiation | 2 |
| Patient 115 | A | B4 | seed radiation | 3 |
| Patient 116 | C | B5 | Provenge | 2 |
| Patient 117 | B | B1 | General Radiation | 2 |
| Patient 118 | B | B1 | Diet | 1 |
| Patient 119 | A | B3 | Seed Radiation | 5 |
| Patient 120 | A | B6 | Provenge | 1 |
| Patient 121 | C | B2 | Diet | 2 |
| Patient 122 | A | B5 | Provenge | 1 |
| Patient 123 | C | B1 | General Radiation | 3 |
| Patient 124 | A | B4 | Diet | 4 |
| Patient 125 | A | B2 | Radical Surgery | 1 |
| Patient 126 | A | B3 | General Radiation | 1 |
| Patient 127 | D | B2 | Cryogenics | 5 |
| Patient 128 | A | B4 | Provenge | 3 |
| Patient 129 | B | B5 | General Radiation | 4 |
| Patient 130 | C | B3 | Diet | 5 |
| Patient 131 | A | B4 | General Radiation | 2 |
| Patient 132 | A | B2 | Radical Surgery | 3 |
| Patient 133 | B | B4 | Seed Radiation | 5 |
| Patient 134 | B | B3 | General Radiation | 3 |
| Patient 135 | D | B4 | Seed Radiation | 1 |
| Patient 136 | C | B4 | General Radiation | 3 |
| Patient 137 | B | B6 | Radical Surgery | 1 |
| Patient 138 | D | B4 | Radical Surgery | 3 |
| Patient 139 | D | B2 | Diet | 1 |
| Patient 140 | C | B4 | cryogenics | 4 |
| Patient 141 | A | B6 | Cryogenics | 3 |
| Patient 142 | A | B5 | Provenge | 3 |
| Patient 143 | A | B4 | Seed Radiation | 2 |
| Patient 144 | A | B5 | General Radiation | 3 |
| Patient 145 | A | B5 | General Radiation | 4 |
| Patient 146 | B | B2 | General Radiation | 3 |
| Patient 147 | B | B6 | Seed Radiation | 2 |
| Patient 148 | A | B1 | Diet | 2 |
| Patient 149 | A | B3 | Radical Surgery | 4 |
| Patient 150 | A | B5 | Provenge | 4 |
| Patient 151 | A | B1 | Seed Radiation | 5 |
| Patient 152 | B | B1 | Provenge | 1 |
| Patient 153 | C | B3 | Radical Surgery | 2 |
| Patient 154 | D | B5 | Seed Radiation | 4 |
| Patient 155 | C | B3 | Seed Radiation | 2 |
| Patient 156 | A | B4 | Diet | 4 |
| Patient 157 | C | B5 | General Radiation | 3 |
| Patient 158 | A | B4 | Seed Radiation | 3 |
| Patient 159 | B | B5 | Provenge | 2 |
| Patient 160 | B | B1 | Seed Radiation | 3 |
| Patient 161 | B | B5 | Provenge | 2 |
| Patient 162 | B | B4 | General Radiation | 3 |
| Patient 163 | C | B1 | Radical Surgery | 5 |
| Patient 164 | A | B6 | Seed Radiation | 3 |
| Patient 165 | C | B4 | Seed Radiation | 1 |
| Patient 166 | C | B5 | cryogenics | 2 |
| Patient 167 | D | B1 | General Radiation | 5 |
| Patient 168 | C | B1 | Seed Radiation | 2 |
| Patient 169 | A | B3 | Provenge | 1 |
| Patient 170 | B | B6 | General Radiation | 2 |
| Patient 171 | B | B2 | Diet | 2 |
| Patient 172 | C | B5 | General Radiation | 1 |
| Patient 173 | D | B1 | Seed Radiation | 1 |
| Patient 174 | A | B4 | Radical Surgery | 4 |
| Patient 175 | C | B2 | Radical Surgery | 3 |
| Patient 176 | B | B3 | seed radiation | 4 |
| Patient 177 | A | B2 | Provenge | 1 |
| Patient 178 | C | B4 | General Radiation | 1 |
| Patient 179 | C | B5 | Diet | 2 |
| Patient 180 | A | B3 | Diet | 4 |
| Patient 181 | C | B4 | Radical Surgery | 2 |
| Patient 182 | C | B2 | General Radiation | 2 |
| Patient 183 | A | B4 | General Radiation | 4 |
| Patient 184 | A | B3 | General radiation | 3 |
| Patient 185 | B | B4 | General Radiation | 3 |
| Patient 186 | C | B4 | Radical Surgery | 1 |
| Patient 187 | B | B6 | Radical Surgery | 1 |
| Patient 188 | D | B4 | Radical Surgery | 4 |
| Patient 189 | C | B2 | General Radiation | 4 |
| Patient 190 | B | B4 | Diet | 3 |
| Patient 191 | C | B6 | Seed Radiation | 2 |
| Patient 192 | C | B5 | Radical Surgery | 5 |
| Patient 193 | C | B4 | General Radiation | 2 |
| Patient 194 | C | B5 | Provenge | 3 |
| Patient 195 | D | B5 | Seed Radiation | 2 |
| Patient 196 | B | B2 | Radical Surgery | 2 |
| Patient 197 | A | B6 | Provenge | 3 |
| Patient 198 | B | B1 | General Radiation | 2 |
| Patient 199 | A | B3 | Diet | 2 |
| Patient 200 | C | B5 | seed radiation | 1 |
| Patient 201 | C | B1 | Seed Radiation | 4 |
| Patient 202 | B | B1 | cryogenics | 2 |
| Patient 203 | B | B3 | Diet | 3 |
| Patient 204 | B | B5 | Seed Radiation | 5 |
| Patient 205 | B | B3 | Radical Surgery | 3 |
| Patient 206 | A | B4 | Diet | 3 |
| Patient 207 | D | B5 | Provenge | 1 |
| Patient 208 | B | B4 | Cryogenics | 1 |
| Patient 209 | B | B5 | General Radiation | 1 |
| Patient 210 | A | B1 | Diet | 4 |
| Patient 211 | C | B5 | Provenge | 1 |
| Patient 212 | C | B4 | Provenge | 2 |
| Patient 213 | D | B6 | Seed Radiation | 5 |
| Patient 214 | A | B5 | Seed Radiation | 5 |
| Patient 215 | C | B4 | Provenge | 1 |
| Patient 216 | C | B5 | Provenge | 1 |
| Patient 217 | D | B5 | Seed radiation | 1 |
| Patient 218 | A | B2 | Diet | 2 |
| Patient 219 | A | B6 | Seed Radiation | 1 |
| Patient 220 | A | B1 | Cryogenics | 1 |
| Patient 221 | A | B3 | Diet | 2 |
| Patient 222 | C | B5 | Cryogenics | 1 |
| Patient 223 | A | B1 | General Radiation | 2 |
| Patient 224 | A | B1 | Seed Radiation | 3 |
| Patient 225 | A | B3 | Seed Radiation | 3 |
| Patient 226 | C | B5 | Seed Radiation | 4 |
| Patient 227 | A | B3 | Provenge | 2 |
| Patient 228 | A | B4 | General Radiation | 3 |
| Patient 229 | A | B5 | General Radiation | 3 |
| Patient 230 | B | B4 | General Radiation | 2 |
| Patient 231 | C | B5 | Provenge | 3 |
| Patient 232 | A | B1 | Diet | 2 |
| Patient 233 | B | B5 | General Radiation | 3 |
| Patient 234 | B | B4 | Provenge | 4 |
| Patient 235 | A | B1 | Radical Surgery | 4 |
| Patient 236 | C | B6 | Provenge | 2 |
| Patient 237 | A | B4 | Provenge | 1 |
| Patient 238 | B | B5 | General Radiation | 2 |
| Patient 239 | A | B1 | cryogenics | 1 |
| Patient 240 | A | B1 | Diet | 4 |
| Patient 241 | A | B3 | Seed Radiation | 3 |
| Patient 242 | C | B6 | Seed Radiation | 2 |
| Patient 243 | D | B2 | General Radiation | 2 |
| Patient 244 | B | B5 | Diet | 2 |
| Patient 245 | B | B1 | Provenge | 5 |
| Patient 246 | C | B1 | General Radiation | 3 |
| Patient 247 | B | B5 | Seed Radiation | 3 |
| Patient 248 | A | B2 | Radical Surgery | 1 |
| Patient 249 | B | B6 | General Radiation | 1 |
| Patient 250 | A | B3 | Diet | 1 |
| Patient 251 | B | B2 | Provenge | 1 |
| Patient 252 | C | B6 | cryogenics | 2 |
| Patient 253 | A | B4 | Radical Surgery | 5 |
| Patient 254 | D | B2 | Seed Radiation | 1 |
| Patient 255 | A | B2 | Provenge | 2 |
| Patient 256 | B | B4 | Radical Surgery | 4 |
| Patient 257 | A | B5 | Radical Surgery | 3 |
| Patient 258 | A | B5 | Seed Radiation | 3 |
| Patient 259 | D | B6 | Seed Radiation | 1 |
| Patient 260 | B | B4 | Provenge | 1 |
| Patient 261 | A | B2 | Diet | 5 |
| Patient 262 | B | B6 | seed radiation | 2 |
| Patient 263 | B | B5 | Seed Radiation | 3 |
| Patient 264 | C | B6 | Seed Radiation | 1 |
| Patient 265 | A | B6 | General Radiation | 4 |
| Patient 266 | D | B7 | Radical Surgery | 4 |
| Patient 267 | A | B3 | Seed Radiation | 1 |
| Patient 268 | B | B5 | General Radiation | 3 |
| Patient 269 | A | B2 | Seed Radiation | 3 |
| Patient 270 | B | B3 | Radical Surgery | 4 |
| Patient 271 | D | B2 | Provenge | 1 |
| Patient 272 | B | B3 | Diet | 4 |
| Patient 273 | A | B3 | Cryogenics | 1 |
| Patient 274 | A | B5 | Seed Radiation | 5 |
| Patient 275 | C | B3 | cryogenics | 2 |
| Patient 276 | D | B7 | General Radiation | 3 |
| Patient 277 | C | B3 | Diet | 3 |
| Patient 278 | C | B5 | Cryogenics | 2 |
| Patient 279 | C | B2 | Seed Radiation | 2 |
| Patient 280 | C | B3 | Provenge | 5 |
| Patient 281 | A | B2 | Provenge | 1 |
| Patient 282 | A | B3 | Diet | 1 |
| Patient 283 | B | B3 | General Radiation | 2 |
| Patient 284 | A | B5 | Seed Radiation | 5 |
| Patient 285 | D | B3 | General Radiation | 2 |
| Patient 286 | D | B6 | Provenge | 1 |
| Patient 287 | A | B5 | Diet | 2 |
| Patient 288 | B | B4 | Diet | 4 |
| Patient 289 | D | B4 | Radical Surgery | 2 |
| Patient 290 | A | B3 | General Radiation | 4 |
| Patient 291 | B | B6 | Seed Radiation | 1 |
| Patient 292 | C | B1 | Seed Radiation | 3 |
| Patient 293 | A | B1 | Radical Surgery | 2 |
| Patient 294 | C | B6 | General Radiation | 3 |
| Patient 295 | A | B4 | General Radiation | 5 |
| Patient 296 | B | B5 | Seed Radiation | 1 |
| Patient 297 | B | B1 | Radical Surgery | 4 |
| Patient 298 | B | B1 | General Radiation | 3 |
| Patient 299 | C | B3 | Radical Surgery | 2 |
| Patient 300 | C | B6 | Radical Surgery | 5 |
| Patient 301 | A | B2 | General Radiation | 3 |
| Patient 302 | D | B5 | Seed Radiation | 5 |
| Patient 303 | C | B1 | Provenge | 1 |
| Patient 304 | A | B4 | Cryogenics | 1 |
| Patient 305 | C | B2 | General Radiation | 4 |
| Patient 306 | B | B3 | General Radiation | 3 |
| Patient 307 | C | B2 | Seed Radiation | 3 |
| Patient 308 | A | B4 | Seed Radiation | 1 |
| Patient 309 | C | B5 | Seed Radiation | 3 |
| Patient 310 | D | B3 | Provenge | 5 |
| Patient 311 | C | B4 | Diet | 3 |
| Patient 312 | C | B2 | Radical Surgery | 5 |
| Patient 313 | B | B4 | General Radiation | 3 |
| Patient 314 | B | B3 | Seed Radiation | 1 |
| Patient 315 | C | B4 | Diet | 1 |
| Patient 316 | B | B4 | General Radiation | 4 |
| Patient 317 | A | B6 | General Radiation | 4 |
| Patient 318 | A | B4 | Seed Radiation | 3 |
| Patient 319 | C | B2 | cryogenics | 2 |
| Patient 320 | D | B4 | Radical Surgery | 4 |
| Patient 321 | A | B6 | Diet | 4 |
| Patient 322 | A | B5 | Provenge | 4 |
| Patient 323 | A | B4 | Radical Surgery | 2 |
| Patient 324 | D | B5 | Radical Surgery | 3 |
| Patient 325 | A | B5 | Provenge | 3 |
| Patient 326 | C | B2 | Radical Surgery | 4 |
| Patient 327 | D | B6 | Diet | 2 |
| Patient 328 | B | B1 | Diet | 2 |
| Patient 329 | C | B3 | Seed Radiation | 5 |
| Patient 330 | C | B5 | Provenge | 5 |
| Patient 331 | A | B1 | Radical Surgery | 5 |
| Patient 332 | A | B6 | General Radiation | 3 |
| Patient 333 | D | B1 | General Radiation | 5 |
| Patient 334 | B | B1 | General Radiation | 3 |
| Patient 335 | B | B6 | Radical Surgery | 3 |
| Patient 336 | C | B4 | General Radiation | 4 |
| Patient 337 | B | B5 | Provenge | 2 |
| Patient 338 | C | B1 | Cryogenics | 1 |
| Patient 339 | A | B1 | Diet | 2 |