

| Patient | Length | | | | | PNGS | | | | | Charge | | | | | Hydropathy | | | | |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| | V1 | V2 | V3 | V4 | V5 | V1 | V2 | V3 | V4 | V5 | V1 | V2 | V3 | V4 | V5 | V1 | V2 | V3 | V4 | V5 |
| IC.10048 | 0 | 0 | 0 | 0 | 0 | 0.049 | 0 | 0 | 0 | 0.049 | 0.471 | 0.018 | 0 | 0 | 0.471 | 0.061 | 0.015 | 0.009 | 0.006 | 0.037 |
| IC.10196 | 0.047 | 0 | 0 | 0 | 0.056 | 0.145 | 2E-16 | 0 | 0 | 0.054 | 1.224 | 2E-16 | 0.108 | 0 | 0.054 | 0.02 | 0 | 0.007 | 0 | 0.011 |
| IC.102 | 0 | 0 | 0 | 0 | 0 | 0.049 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.009 | 0.009 | 0 | 0 | 0 |
| IC.10213 | 0 | 0 | 0 | 0.02 | 0 | 1E-16 | 2E-16 | 0 | 0 | 0.143 | 0 | 2E-16 | 0 | 0.237 | 0.406 | 2E-16 | 0 | 1E-16 | 0.051 | 0.028 |
| IC.10259 | 0 | 0.014 | 0 | 0 | 0.119 | 0 | 0.205 | 0 | 0 | 0.109 | 0.217 | 0.014 | 0 | 0 | 0.496 | 0.029 | 0.009 | 0 | 0 | 0.012 |
| IC.1036 | 0.23 | 0 | 0 | 0 | 0.124 | 0.147 | 0 | 0 | 0 | 0.143 | 0.467 | 2 | 0.065 | 0 | 0.14 | 0.023 | 0.014 | 0.016 | 0 | 0.031 |
| IC.10419 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.471 | 1.414 | 0 | 0 | 0 | 1.414 | 0.015 | 0 | 0 | 0 | 0.054 |
| IC.10473 | 0 | 0 | 0.017 | 0.123 | 0 | 0 | 0 | 0.017 | 0.238 | 2E-16 | 0 | 0 | 0.017 | 0.238 | 0.466 | 0 | 0.013 | 0.003 | 0.01 | 0.066 |
| IC.11100 | 0 | 0 | 0 | 0.033 | 0 | 0 | 0 | 0 | 0 | 0.277 | 0.298 | 0 | 0 | 0.153 | 0.176 | 1.156 | 0 | 0.006 | 0.039 | 0.094 |
| IC.1125 | 0 | 0.013 | 0 | 0.072 | 0 | 0 | 0.014 | 0 | 0.014 | 0 | 1.491 | 0.013 | 0.077 | 0.203 | 0 | 0.03 | 0.014 | 0.012 | 0.019 | 0 |
| IC.1211 | 0.293 | 0.045 | 0 | 0 | 0.065 | 0.065 | 0.205 | 1E-16 | 0.073 | 0.291 | 0.216 | 0 | 0.06 | 0.318 | 1.438 | 0.038 | 0.008 | 0.004 | 0.007 | 0.036 |
| IC.1240 | 0.06 | 0.08 | 0 | 0.017 | 0 | 0.417 | 0.4 | 0 | 0.017 | 2E-16 | 0.066 | 0.448 | 0 | 0.358 | 1.742 | 0.029 | 0.035 | 0.016 | 0.032 | 0.048 |
| IC.1260 | 0.025 | 0 | 0 | 0.109 | 0 | 0.025 | 0 | 0 | 0.177 | 0.298 | 0.298 | 0 | 0 | 0.109 | 1.414 | 0.031 | 0.007 | 0 | 0.021 | 0.033 |
| IC.1329 | 0.408 | 0.042 | 0 | 0 | 0 | 0 | 0.408 | 0 | 0.414 | 2E-16 | 1.742 | 1 | 0.108 | 1 | 0.466 | 0.039 | 0.009 | 0.023 | 0.018 | 0.004 |
| IC.1331 | 0.031 | 0 | 0 | 0.032 | 0.049 | 0.146 | 0 | 0 | 0.031 | 0.047 | 2 | 0 | 0 | 0.465 | 0 | 0.057 | 0.008 | 0.021 | 0.008 | 0.143 |
| IC.1378 | 0 | 0.011 | 0 | 0 | 0 | 0 | 0.011 | 0 | 0 | 0.046 | 0.466 | 0.046 | 0.217 | 0.466 | 0.031 | 0.005 | 0.02 | 0.021 | 0.136 | 0 |
| IC.1386 | 0.027 | 0.045 | 0 | 0 | 0.129 | 0.027 | 0.14 | 0 | 0 | 0.129 | 14.57 | 0.14 | 0.157 | 0 | 1.414 | 0.012 | 0.029 | 0.023 | 0.008 | 0.024 |
| IC.193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.346 | 1.752 | 2E-16 | 0 | 0 | 4E-04 | 0.007 | 0 | 0 | 2E-16 |
| IC.2 | 0 | 0.068 | 0 | 0.074 | 0 | 0.147 | 0.062 | 1E-16 | 0.057 | 0.146 | 0 | 0.446 | 0 | 0.071 | 0.466 | 0.021 | 0.023 | 0.005 | 0.057 | 0.131 |
| IC.20476 | 0.141 | 0.018 | 0 | 0 | 0 | 0.141 | 0.018 | 0 | 0 | 0 | 0.466 | 0.018 | 0.202 | 0.466 | 0 | 0.029 | 0.016 | 0.018 | 0.04 | 0.205 |
| IC.206 | 0 | 0.031 | 0.06 | 0 | 0 | 0 | 0.031 | 0.06 | 0 | 0 | 0 | 0.031 | 0.235 | 0.235 | 0.467 | 0.026 | 0.015 | 0.016 | 0.031 | 0.015 |
| IC.239 | 0.051 | 0 | 0 | 0.038 | 0 | 0.053 | 0.217 | 0 | 0.117 | 2E-16 | 0.466 | 2E-16 | 2E-16 | 0.267 | 2E-16 | 0.017 | 0.003 | 0.022 | 0.032 | 0 |
| IC.241 | 0 | 0.035 | 0 | 0 | 0 | 0 | 0.446 | 0 | 0 | 0 | 0.471 | 0.035 | 0 | 0 | 0 | 0.055 | 0.042 | 0 | 0 | 0 |
| IC.246 | 0.069 | 0.013 | 0 | 0.009 | 0 | 0.069 | 0.013 | 0 | 0.009 | 0 | 0.434 | 0.137 | 0.133 | 0.466 | 0 | 0.073 | 0.022 | 0.002 | 0.052 | 0.002 |
| IC.253 | 0 | 0.035 | 0 | 0 | 0.074 | 0 | 0.035 | 0 | 0 | 0.466 | 0 | 0.035 | 0 | 0 | 14.57 | 0 | 0.008 | 0.029 | 0.049 | 0.045 |
| IC.277 | 0.049 | 0 | 0 | 0 | 0.043 | 0.12 | 0 | 0 | 0 | 0.044 | 0.414 | 0 | 0.106 | 1.491 | 0.733 | 0.008 | 0 | 0.014 | 0.024 | 0.146 |
| IC.295 | 0 | 0.019 | 0 | 0.039 | 0 | 0 | 0.019 | 0 | 0.039 | 0 | 0 | 0.019 | 0.129 | 0.275 | 0 | 0 | 0.01 | 0.01 | 0.072 | 0 |
| IC.30048 | 0 | 0 | 0 | 0.019 | 0 | 0.146 | 0.208 | 0 | 0.14 | 0 | 0 | 0 | 0.118 | 0.77 | 0 | 0.045 | 0.008 | 0.015 | 0.033 | 0 |
| IC.30281 | 0 | 0 | 0 | 0 | 0.06 | 1E-16 | 0.055 | 0 | 0 | 0.062 | 0 | 0.047 | 0 | 0.217 | 0 | 0 | 0.007 | 0 | 0.002 | 0.023 |
| IC.35 | 0 | 0.012 | 0 | 0.039 | 0.184 | 0.146 | 0.235 | 0 | 0.1 | 0.466 | 1.742 | 0.14 | 0 | 0.09 | 1.742 | 0.032 | 0.032 | 0.01 | 0.059 | 0.146 |
| IC.387 | 0 | 0 | 0 | 0 | 0 | 2E-16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2E-16 | 0 | 2E-16 | 0.003 | 0 | 1E-16 | 1E-16 |
| IC.389 | 0 | 0 | 0 | 0.037 | 0.054 | 0 | 2E-16 | 0 | 0.038 | 0.054 | 0 | 0 | 2E-16 | 0.434 | 0.521 | 0 | 0.007 | 0 | 0.049 | 0.06 |
| IC.404 | 0.028 | 0.043 | 0 | 0 | 0 | 0.028 | 0.203 | 0 | 0 | 2E-16 | 0.466 | 0.127 | 0 | 0 | 2E-16 | 0.009 | 0.013 | 0 | 1E-16 | 0.015 |
| IC.450 | 0.022 | 0 | 0 | 0.019 | 0 | 0.023 | 0.446 | 0 | 0.13 | 0 | 0.471 | 0.046 | 0.235 | 0.466 | 1.742 | 0.024 | 0.015 | 0.011 | 0.039 | 0.016 |
| IC.451 | 0.042 | 0 | 0 | 0 | 0.127 | 0.275 | 0 | 0 | 0.26 | 0.25 | 1.742 | 0 | 0 | 0.266 | 0.466 | 0.074 | 0.003 | 0.009 | 0.002 | 0.13 |
| IC.454 | 0.146 | 0.017 | 0 | 0.02 | 0 | 0.033 | 0.017 | 0 | 0.008 | 0 | 0.357 | 0 | 0 | 0.733 | 0 | 0.063 | 0.012 | 0.038 | 0.047 | 0 |
| IC.461 | 0.104 | 0.052 | 0 | 0.13 | 0.091 | 0.066 | 0.203 | 0 | 0.132 | 0.147 | 0.466 | 0.129 | 0.266 | 0.266 | 1.432 | 0.049 | 0.06 | 0.027 | 0.07 | 0.146 |
| IC.465 | 0.031 | 0 | 0 | 0 | 0 | 0.031 | 0 | 0 | 0 | 0 | 0 | 0 | 0.109 | 0.266 | 0 | 0.015 | 0.01 | 0.038 | 0.061 | 0 |
| IC.472 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| IC.479 | 0 | 0 | 0 | 0 | 0.133 | 0 | 2E-16 | 0 | 0.134 | 0.411 | 0 | 0.434 | 0.217 | 0.217 | 0.466 | 0.024 | 0.027 | 0.014 | 0.011 | 0.091 |
| IC.525 | 0.021 | 0.055 | 0 | 0 | 0.061 | 0.141 | 0.466 | 0 | 0.283 | 0.061 | 0.453 | 1.414 | 0 | 0.271 | 1.414 | 0.036 | 0.061 | 0 | 0.012 | 0.056 |
| IC.534 | 0 | 0 | 0 | 0.016 | 0.049 | 0.229 | 0.208 | 0 | 0.017 | 0.047 | 0.266 | 0.4 | 0 | 0.275 | 1.466 | 0.011 | 0.032 | 0 | 0.034 | 0.049 |
| IC.606 | 0.133 | 0 | 0 | 0 | 0 | 0.126 | 0 | 0 | 0 | 0 | 0.133 | 0 | 0 | 0 | 1.414 | 0.049 | 0 | 0.005 | 0 | 0.024 |
| IC.616 | 0.063 | 0 | 0 | 0.139 | 0.056 | 0.191 | 2E-16 | 0 | 0.135 | 0.171 | 0.063 | 1.466 | 0.23 | 1.367 | 0.466 | 0.079 | 0.015 | 0.022 | 0.021 | 0.068 |
| IC.629 | 0.059 | 0.022 | 0 | 0.029 | 0 | 0.144 | 0.208 | 0 | 0.138 | 0 | 0.466 | 0.253 | 0.212 | 17.46 | 0 | 0.058 | 0.041 | 0.02 | 0.02 | 0 |
| IC.660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1E-16 | 0.138 | 2E-16 | 0 | 0 | 0 | 1 | 2E-16 | 0 | 0 | 0 | 0.013 | 0 |
| IC.665 | 0.072 | 0.046 | 0 | 0 | 0.048 | 0.143 | 0.466 | 0.466 | 0.266 | 0.143 | 0.239 | 0.202 | 0.16 | 0.275 | 0.466 | 0.06 | 0.031 | 0.032 | 0.029 | 0.054 |
| IC.684 | 0.213 | 0 | 0 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.266 | 0.266 | 0.035 | 0 | 0 | 0.027 | 0.026 |
| IC.689 | 0.027 | 0.026 | 0 | 0 | 0.233 | 0.449 | 0.027 | 0 | 0 | 0.141 | 2 | 0.466 | 0 | 0 | 0.471 | 0.036 | 0.049 | 0.013 | 0 | 0.06 |
| IC.711 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.244 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.006 | 0.025 | 0 |
| IC.736 | 0.127 | 0 | 0.015 | 0.086 | 0.037 | 0.037 | 0 | 0.015 | 0.035 | 0.299 | 1.466 | 0.213 | 0.109 | 1.224 | 0.213 | 0.028 | 0.015 | 0.03 | 0.037 | 0.081 |
| IC.797 | 0 | 0 | 0 | 0 | 0.145 | 0.146 | 0 | 0 | 0.238 | 0.143 | 0.142 | 2 | 0.061 | 0.266 | 2 | 0.032 | 0.009 | 0.018 | 0.017 | 0.037 |
| IC.818 | 0 | 0 | 0 | 0 | 0.051 | 0 | 2E-16 | 0 | 0 | 0.277 | 0 | 0 | 0 | 0 | 0.049 | 0 | 0.004 | 0 | 0.004 | 0.113 |
| IC.857 | 0.054 | 0.091 | 0 | 0.231 | 0.056 | 0.089 | 0.231 | 0.346 | 0.05 | 0.465 | 0.21 | 0.088 | 0.266 | 0.271 | 1.742 | 0.114 | 0.044 | 4E-04 | 0.046 | 0.039 |
| IC.912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.266 | 0 | 0 | 0 | 0 | 1.156 | 0 | 0.003 | 0.015 | 0.003 | 0.096 |
| IC.940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.004 | 0.006 | 0 | 0 |
| IC.999 | 0.02 | 0 | 0 | 0 | 0 | 0.133 | 0 | 0 | 0 | 0 | 1.156 | 0 | 0 | 2 | 0 | 0.056 | 0 | 0.016 | 0.011 | 0.014 |
| IC.JCP | 0 | 0.056 | 0.017 | 0 | 0.047 | 0.147 | 0.057 | 0.017 | 0.266 | 0.146 | 1.742 | 0.04 | 0.108 | 0.147 | 0.046 | 0.053 | 0.008 | 0.005 | 0.04 | 0.053 |
| IC.JJM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.203 | 0 | 0.266 | 0.266 | 0 | 0.238 | 0 | 0.018 | 0.006 | 0.007 | 0.011 | 0 |
| IC.REH | 0.031 | 0 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0.088 | 0.047 | 0 | 0 | 0 | 0.036 | 0.006 | 0 | 0.004 | 0 |