## Groups
| Group | Description | Treatment Duration | Treatment Start Age | Treatment End Age |
| --- | --- | --- | --- | --- |
| Y(+) | Young CFZ-Treated | 8-Weeks | 4-Weeks | 12-Weeks |
| Y(-) | Young Vehicle-Treated | 8-Weeks | 4-Weeks | 12-Weeks |
| O(+) | Old CFZ-Treated | 8-Weeks | 61-Weeks | 69-Weeks |
| O(-) | Old Vehicle-Treated | 8-Weeks | 61-Weeks | 69-Weeks |

## Whole Blood
| Whole Blood (WB) | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 |
| --- | --- | --- | --- | --- | --- | --- |
| NaN | NaN | NaN | NaN | NaN | NaN | NaN |
| Group | Sample ID | L-Carnitine (C) (ug/mL) | Acetylcarnitine (C2) (ug/mL) | C (uM) | C2 (uM) | C2/C Ratio |
| Y+ | 7 | 5.5 | 6.7 | 34.119318 | 32.9666 | 0.966215 |
| Y+ | 8 | 9.3 | 10.3 | 57.692666 | 50.679998 | 0.878448 |
| Y+ | 9 | 6.9 | 8.8 | 42.804236 | 43.299415 | 1.011568 |
| Y+ | 10 | 6.8 | 7.1 | 42.183885 | 34.934756 | 0.828154 |
| Y+ | 11 | 8.1 | 7.7 | 50.248451 | 37.886989 | 0.753993 |
| Y+ | 12 | 6.64 | 6.02 | 41.191323 | 29.620736 | 0.719101 |
| Y+ | 13 | 8 | 6.975 | 49.628099 | 34.319707 | 0.691538 |
| Y+ | 14 | 7.29 | 6.765 | 45.223606 | 33.286426 | 0.736041 |
| Y+ | 15 | 6.08 | 5.035 | 37.717356 | 24.774154 | 0.656837 |
| Y+ | 16 | 7.54 | 6.99 | 46.774484 | 34.393513 | 0.735305 |
| Y- | 7 | 5 | 8.1 | 31.017562 | 39.855144 | 1.284922 |
| Y- | 8 | 8 | 11 | 49.628099 | 54.124269 | 1.090597 |
| Y- | 9 | 5.4 | 7.6 | 33.498967 | 37.39495 | 1.116302 |
| Y- | 10 | 7.4 | 8.3 | 45.905992 | 40.839221 | 0.889627 |
| Y- | 11 | 5.6 | 7.8 | 34.73967 | 38.379027 | 1.104761 |
| Y- | 12 | 5.62 | 5.945 | 34.86374 | 29.251707 | 0.83903 |
| Y- | 13 | 5.79 | 6.175 | 35.918337 | 30.383397 | 0.845902 |
| Y- | 14 | 5.75 | 5.89 | 35.670196 | 28.981086 | 0.812473 |
| Y- | 15 | 7.18 | 7.05 | 44.541219 | 34.688736 | 0.778801 |
| Y- | 16 | 7.36 | 7.445 | 45.657851 | 36.63229 | 0.802322 |
| O+ | 6 | 4.5 | 4.2 | 27.915806 | 20.66563 | 0.740284 |
| O+ | 7 | 8.6 | 8.5 | 53.350207 | 41.823299 | 0.783939 |
| O+ | 8 | 6.3 | 5.8 | 39.082128 | 28.538251 | 0.730212 |
| O+ | 9 | 5.6 | 5.4 | 34.73967 | 26.570096 | 0.764834 |
| O+ | 10 | 9.48 | 7.285 | 58.809298 | 35.845027 | 0.609513 |
| O+ | 14 | 4.6 | 5.7 | 28.536157 | 28.046212 | 0.982831 |
| O+ | 15 | 4.5 | 4.6 | 27.915806 | 22.633785 | 0.810787 |
| O+ | 16 | 6.5 | 7.9 | 40.322831 | 38.871066 | 0.963996 |
| O+ | 17 | 4.4 | 5.2 | 27.295455 | 25.586018 | 0.937373 |
| O+ | 18 | 4.7 | 5.2 | 29.156508 | 25.586018 | 0.877541 |
| O- | 7 | 4.1 | 5.3 | 25.434401 | 26.078057 | 1.025307 |
| O- | 8 | 3.3 | 4.6 | 20.471591 | 22.633785 | 1.105619 |
| O- | 9 | 4.2 | 5 | 26.054752 | 24.601941 | 0.94424 |
| O- | 10 | 6.74 | 5.925 | 41.811674 | 29.1533 | 0.697253 |
| O- | 11 | 7.06 | 5.945 | 43.796798 | 29.251707 | 0.667896 |
| O- | 13 | 5.56 | 6.43 | 34.491529 | 31.638096 | 0.917271 |
| O- | 14 | 4 | 5.2 | 24.81405 | 25.586018 | 1.03111 |
| O- | 16 | 5.41 | 5.075 | 33.561002 | 24.97097 | 0.744047 |
| O- | 17 | 4.1 | 5.3 | 25.434401 | 26.078057 | 1.025307 |
| O- | 18 | 3.7 | 8.6 | 22.952996 | 42.315338 | 1.843565 |

## Cardiac Muscle
| Cardiac (Heart) | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 |
| --- | --- | --- | --- | --- |
| NaN | NaN | NaN | NaN | NaN |
| Group | Sample ID | L-Carnitine (C) (ug/g) | Acetylcarnitine (C2) (ug/g) | C2/C Ratio |
| Y+ | 7 | 135.9 | 93.05 | 0.684695 |
| Y+ | 8 | 157.9 | 106.3 | 0.673211 |
| Y+ | 9 | 197.2 | 109.1 | 0.553245 |
| Y+ | 10 | 207 | 88.66 | 0.428309 |
| Y+ | 11 | 239.5 | 83.35 | 0.348017 |
| Y+ | 12 | 200.2 | 45.8 | 0.228771 |
| Y+ | 13 | 200.4 | 51.24 | 0.255689 |
| Y+ | 14 | 216.2 | 47.66 | 0.220444 |
| Y+ | 15 | 179.58 | 34.52 | 0.192226 |
| Y+ | 16 | 198.12 | 42.74 | 0.215728 |
| Y- | 7 | 106.2 | 59.8 | 0.563089 |
| Y- | 8 | 228.4 | 72.63 | 0.317995 |
| Y- | 9 | 209 | 69.02 | 0.330239 |
| Y- | 10 | 186.7 | 72.95 | 0.390734 |
| Y- | 11 | 234.6 | 71.8 | 0.306053 |
| Y- | 12 | 170.82 | 28.06 | 0.164266 |
| Y- | 13 | 196.58 | 38.52 | 0.195951 |
| Y- | 14 | 187.74 | 36.46 | 0.194205 |
| Y- | 15 | 192.62 | 43.98 | 0.228325 |
| Y- | 16 | 179.18 | 41.14 | 0.229602 |
| O+ | 6 | 212.2 | 84.31 | 0.397314 |
| O+ | 7 | 165.1 | 52.35 | 0.317081 |
| O+ | 8 | 192.3 | 82.45 | 0.428757 |
| O+ | 9 | 220.6 | 71.65 | 0.324796 |
| O+ | 10 | 223.4 | 76.08 | 0.340555 |
| O+ | 11 | 247.4 | 88.48 | 0.357639 |
| O+ | 12 | 203.5 | 72.96 | 0.358526 |
| O+ | 13 | 291.5 | 110.8 | 0.380103 |
| O+ | 14 | 193.2 | 74.96 | 0.387992 |
| O+ | 15 | 224.3 | 69.78 | 0.311101 |
| O+ | 16 | 117.1 | 74.91 | 0.63971 |
| O+ | 17 | 121 | 64.97 | 0.536942 |
| O+ | 18 | 106.6 | 58.46 | 0.548405 |
| O- | 7 | 121.8 | 61.51 | 0.505008 |
| O- | 8 | 127.7 | 55.17 | 0.432028 |
| O- | 9 | 134.8 | 55.07 | 0.408531 |
| O- | 10 | 119.9 | 47.45 | 0.395746 |
| O- | 11 | 127 | 46.98 | 0.369921 |
| O- | 12 | 120.3 | 65.66 | 0.545802 |
| O- | 13 | 132.2 | 42.04 | 0.318003 |
| O- | 14 | 150 | 71.31 | 0.4754 |
| O- | 15 | 141.5 | 52.6 | 0.371731 |
| O- | 16 | 159.6 | 78.31 | 0.490664 |
| O- | 17 | 143 | 65.73 | 0.45965 |
| O- | 18 | 142.5 | 46.24 | 0.324491 |
| O- | 19 | 156.1 | 68.92 | 0.441512 |

## Skeletal Muscle
| Skeletal (GAS) | Unnamed: 1 | Unnamed: 2 | Unnamed: 3 | Unnamed: 4 |
| --- | --- | --- | --- | --- |
| NaN | NaN | NaN | NaN | NaN |
| Group | Sample ID | L-Carnitine (C) (ug/g) | Acetylcarnitine (C2) (ug/g) | C2/C Ratio |
| Y+ | 7 | 28.93 | 28.05 | 0.969582 |
| Y+ | 8 | 41.7 | 38.49 | 0.923022 |
| Y+ | 9 | 33.64 | 34.34 | 1.020809 |
| Y+ | 10 | 37.55 | 29.33 | 0.781092 |
| Y+ | 11 | 40.81 | 32.21 | 0.789267 |
| Y+ | 12 | 24.09 | 27.97 | 1.161063 |
| Y+ | 13 | 28.13 | 31.16 | 1.107714 |
| Y+ | 14 | 26.03 | 32.89 | 1.263542 |
| Y+ | 15 | 27.79 | 31.02 | 1.116229 |
| Y+ | 16 | 30.86 | 30.45 | 0.986714 |
| Y- | 7 | 26.96 | 27.78 | 1.030415 |
| Y- | 8 | 50.82 | 44.05 | 0.866785 |
| Y- | 9 | 48.77 | 35.02 | 0.718064 |
| Y- | 10 | 46.78 | 33.89 | 0.724455 |
| Y- | 11 | 47.78 | 41.29 | 0.864169 |
| Y- | 12 | 22.37 | 28.36 | 1.267769 |
| Y- | 13 | 40.53 | 36.28 | 0.895139 |
| Y- | 14 | 29.16 | 26.05 | 0.893347 |
| Y- | 15 | 29.17 | 32.79 | 1.1241 |
| Y- | 16 | 31.02 | 31.56 | 1.017408 |
| O+ | 6 | 41.58 | 33.94 | 0.816258 |
| O+ | 7 | 50.5 | 42.9 | 0.849505 |
| O+ | 8 | 38.92 | 34.97 | 0.89851 |
| O+ | 9 | 40.47 | 28.77 | 0.710897 |
| O+ | 10 | 34.76 | 32.68 | 0.940161 |
| O+ | 11 | 31.05 | 35.95 | 1.15781 |
| O+ | 12 | 49.9 | 35.41 | 0.709619 |
| O+ | 13 | 39.45 | 33.73 | 0.855006 |
| O+ | 14 | 36.62 | 28.62 | 0.78154 |
| O+ | 15 | 78.64 | 44.26 | 0.562818 |
| O+ | 16 | 50.08 | 29.02 | 0.579473 |
| O+ | 17 | 45.22 | 34.13 | 0.754755 |
| O- | 7 | 31.31 | 35.84 | 1.144682 |
| O- | 8 | 31.09 | 30.09 | 0.967835 |
| O- | 9 | 40.87 | 43.35 | 1.06068 |
| O- | 10 | 35.72 | 41.65 | 1.166013 |
| O- | 11 | 44.22 | 32 | 0.723654 |
| O- | 12 | 30.58 | 27.83 | 0.910072 |
| O- | 13 | 41.75 | 33.28 | 0.797126 |
| O- | 14 | 41.27 | 37.22 | 0.901866 |
| O- | 15 | 31.7 | 36.2 | 1.141956 |
| O- | 16 | 30.45 | 32.39 | 1.063711 |
| O- | 17 | 42.07 | 41.49 | 0.986213 |
| O- | 18 | 39.25 | 36.89 | 0.939873 |
| O- | 19 | 37.32 | 38.15 | 1.02224 |