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| **Supplemental Table 1** |
| **CBF (Arm 2)** | **Timepoint****(min)** | **HR****(min-1)** | **MAP****(mmHg)** |  | **ABF (Arm 1)** | **Timepoint****(min)** | **HR****(min-1)** | **MAP****(mmHg)** |
| Subject ID 1 | 0 | 57 | 73 |  | Subject ID 1 | 0 | 74 | 45 |
| Female, 26 | 20 | 64 | 71 |  | Female, 26 | 20 | 74 | 40 |
| BMI 30.58 | 180 | 58 | 79 |  | BMI 29.73 | 180 | 97 | 76 |
| BW 81.26 |  |  |  |  | BW 79.00 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 2 | 0 | 87 | 81 |  | Subject ID 2 | 0 | 68 | 47 |
| Male, 32 | 20 | 85 | 77 |  | Male, 32 | 20 | 74 | 44 |
| BMI 22.81 | 180 | 78 | 81 |  | BMI 23.67 | 180 | 105 | 62 |
| BW 73.90 |  |  |  |  | BW 76.70 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 3 | 0 | 71 | 74 |  | Subject ID 3 | 0 | 70 | 65 |
| Female, 30 | 20 | 73 | 73 |  | Female, 30 | 20 | 70 | 57 |
| BMI 24.32 | 180 | 70 | 75 |  | BMI 25.62 | 180 | 70 | 61 |
| BW 65.40 |  |  |  |  | BW 68.90 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 4 | 0 | 82 | 106 |  | Subject ID 4 | 0 | 84 | 63 |
| Female, 26 | 20 | 85 | 101 |  | Female, 26 | 20 | 86 | 54 |
| BMI 24.19 | 180 | 75 | 97 |  | BMI 24.19 | 180 | 92 | 54 |
| BW 69.90 |  |  |  |  | BW 69.90 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 5 | 0 | 76 | 73 |  | Subject ID 5 | 0 | 77 | 60 |
| Female, 34 | 20 | 83 | 69 |  | Female, 34 | 20 | 83 | 48 |
| BMI 23.97 | 180 | 78 | 74 |  | BMI 24.95 | 180 | 82 | 57 |
| BW 56.10 |  |  |  |  | BW 58.40 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 6 | 0 | 48 | 77 |  | Subject ID 6 | 0 | 84 | 52 |
| Male, 28 | 20 | 66 | 72 |  | Male, 28 | 20 | 83 | 46 |
| BMI 22.71 | 180 | 70 | 76 |  | BMI 21.73 | 180 | 90 | 59 |
| BW 51.10 |  |  |  |  | BW 48.90 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 7 | 0 | 59 | 78 |  | Subject ID 7 | 0 | 74 | 61 |
| Male, 28 | 20 | 64 | 78 |  | Male, 28 | 20 | 76 | 52 |
| BMI 20.86 | 180 | 59 | 70 |  | BMI 21.05 | 180 | 100 | 65 |
| BW 66.10 |  |  |  |  | BW 66.70 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 8 | 0 | 78 | 99 |  | Subject ID 8 | 0 | 77 | 59 |
| Male, 20 | 20 | 70 | 80 |  | Male, 20 | 20 | 88 | 53 |
| BMI 25.07 | 180 | 70 | 95 |  | BMI 25 | 180 | 85 | 55 |
| BW 69.50 |  |  |  |  | BW 69.3 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 9 | 0 | 83 | 72 |  | Subject ID 9 | 0 | 76 | 53 |
| Female, 30 | 20 | 81 | 64 |  | Female, 30 | 20 | 76 | 44 |
| BMI 23.73 | 180 | 75 | 66 |  | BMI 23.81 | 180 | 64 | 48 |
| BW 60.00 |  |  |  |  | BW 60.20 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 10 | 0 | 85 | 88 |  | Subject ID 10 | 0 | 80 | 66 |
| Female, 26 | 20 | 91 | 71 |  | Female, 26 | 20 | 80 | 66 |
| BMI 24.22 | 180 | 83 | 75 |  | BMI 23.92 | 180 | 72 | 54 |
| BW 63.80 |  |  |  |  | BW 63.00 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 11 | 0 | 76 | 71 |  | Subject ID 11 | 0 | 75 | 46 |
| Male, 24 | 20 | 77 | 57 |  | Male, 24 | 20 | 85 | 43 |
| BMI 25.39 | 180 | 77 | 60 |  | BMI 26.06 | 180 | 87 | 58 |
| BW 90.70 |  |  |  |  | BW 93.1 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Subject ID 12 | 0 | 57 | 65 |  | Subject ID 12 | 0 | 76 | 50 |
| Male, 32 | 20 | 67 | 67 |  | Male, 32 | 20 | 78 | 42 |
| BMI 27.25 | 180 | 67 | 66 |  | BMI 27.28 | 180 | 81 | 54 |
| BW 95.70 |  |  |  |  | BW 95.80 |  |  |  |

Supplemental Table 1. Hemodynamic parameters for subjects. Subject information CBF = conscious. blood withdrawal. fluid; ABF = anesthetized. blood withdrawal. fluid; HR = heart rate; MAP = mean arterial pressure; BMI = body mass index (kg/m2); BW = body weight (kg).