Supplementary Table S1. Comparison among CT left percent residual parenchymal volume (RPV), equation-estimated left differential renal function (DRF), and renogram (RG) left DRF

|  |  |  |  |
| --- | --- | --- | --- |
| Patients |  percent RPVa | Equation-estimated DRFb | RG DRFc |
| 1  | 11.86  | 10.03  | 16.05  |
| 2  | 82.80  | 85.94  | 77.24  |
| 3  | 75.20  | 77.81  | 94.77  |
| 4  | 1.95  | -0.58  | 0.00  |
| 5  | 13.23  | 11.49  | 8.12  |
| 6  | 27.41  | 26.67  | 26.58  |
| 7  | 51.60  | 52.55  | 57.70  |
| 8  | 80.89  | 83.89  | 76.45  |
| 9  | 71.67  | 74.02  | 71.79  |
| 10  | 71.85  | 74.22  | 61.33  |
| 11  | 72.83  | 75.26  | 100.00  |
| 12  | 77.75  | 80.54  | 81.63  |
| 13  | 4.74  | 2.41  | 4.78  |
| 14  | 94.98  | 98.97  | 100.00  |
| 15  | 75.45  | 78.07  | 89.11  |
| 16  | 19.10  | 17.78  | 23.35  |
| 17  | 91.42  | 95.16  | 76.87  |
| 18  | 83.57  | 86.76  | 84.63  |
| 19  | 34.79  | 34.56  | 24.81  |
| 20  | 73.87  | 76.38  | 68.77  |
| 21  | 14.33  | 12.67  | 0.00  |
| 22  | 8.40  | 6.32  | 13.12  |
| 23  | 59.88  | 61.41  | 60.16  |
| 24  | 73.83  | 76.34  | 72.45  |
| 25  | 41.96  | 42.23  | 34.30  |
| 26  | 8.43  | 6.36  | 8.13  |
| 27  | 34.41  | 34.16  | 43.45  |
| 28  | 21.98  | 20.86  | 33.89  |
| 29  | 78.21  | 81.03  | 77.45  |
| 30  | 25.53  | 24.66  | 27.41  |
| 31  | 88.52  | 92.05  | 88.15  |
| 32  | 32.00  | 31.58  | 30.77  |
| 33  | 14.32  | 12.66  | 0.00  |
| 34  | 82.88  | 86.02  | 100.00  |
| 35  | 52.37  | 53.38  | 56.70  |
| 36  | 71.11  | 73.43  | 65.14  |
| 37  | 93.84  | 97.75  | 100.00  |
| 38  | 42.54  | 42.86  | 18.38  |
| 39  | 57.17  | 58.51  | 57.05  |
| 40  | 74.28  | 76.82  | 73.51  |
| 41  | 18.84  | 17.50  | 9.35  |
| 42  | 82.13  | 85.22  | 72.49  |
| 43  | 69.96  | 72.19  | 81.79  |
| 44  | 93.79  | 97.70  | 100.00  |
| 45  | 86.24  | 89.61  | 80.75  |
| 46  | 88.62  | 92.16  | 100.00  |
| 47  | 33.62  | 33.31  | 28.67  |
| 48  | 11.74  | 9.90  | 13.52  |
| 49  | 75.15  | 77.75  | 75.25  |
| 50  | 69.54  | 71.74  | 73.79  |
| 51  | 57.34  | 58.69  | 60.59  |
| 52  | 22.38  | 21.28  | 25.96  |
| 53  | 70.77  | 73.06  | 76.61  |
| 54  | 35.65  | 35.48  | 22.70  |
| 55  | 61.78  | 63.44  | 71.45  |
| 56  | 65.64  | 67.58  | 65.28  |
| 57  | 40.96  | 41.17  | 67.33  |
| 58  | 73.93  | 76.45  | 78.26  |
| 59  | 19.51  | 18.22  | 15.75  |
| 60  | 23.22  | 22.19  | 18.84  |
| 61  | 27.69  | 26.97  | 12.98  |
| 62  | 83.24  | 86.41  | 85.26  |
| 63  | 20.98  | 19.79  | 18.97  |
| 64  | 53.66  | 54.76  | 64.29  |
| 65  | 14.76  | 13.14  | 15.75  |
| 66  | 69.58  | 71.79  | 61.09  |
| 67  | 100.00  | 104.34  | 100.00  |
| 68  | 17.78  | 16.36  | 19.58  |
| 69  | 11.33  | 9.46  | 7.03  |
| 70  | 80.77  | 83.76  | 69.36  |
| 71  | 76.71  | 79.42  | 100.00  |
| 72  | 45.95  | 46.50  | 38.51  |
| 73  | 49.19  | 49.97  | 58.82  |
| 74  | 36.75  | 36.67  | 40.37  |
| 75  | 52.06  | 53.04  | 51.73  |
| 76  | 84.39  | 87.63  | 91.90  |

aLeft percent RPV = 100\*(Left RPV / [Left RPV + Right RPV]).

bEquation-estimated left DRF =-2.66+1.07\*x, where 'x' is the value of left percent RPV.

cThe value of the left kidney's DRF on renogram.