

Additional File 5. Summary of hADSC donor information and cell characterisation used in this study

| Cell ID                      | hADSC-A             | hADSC-B            | hADSC-C                | hADSC-D                | hADSC-E             |
|------------------------------|---------------------|--------------------|------------------------|------------------------|---------------------|
| Supplier                     | Lonza               | Lonza              | Zenbio                 | Zenbio                 | Lonza               |
| Lot number                   | 0000669429          | 0000605220         | ASC120116E             | ASC072709              | 0000440549          |
| Age                          | 42                  | 22                 | 52                     | 39                     | 44                  |
| Sex                          | Female              | Male               | Female                 | Female                 | Female              |
| BMI                          | 32                  | 32                 | 26.5                   | 38                     | 33                  |
| Race                         | Hispanic            | Other              | Caucasian              | Unknown                | African American    |
| Tissue                       | Unknown             | Unknown            | Abdomen                | Abdomen/Hip            | Unknown             |
| Virus                        | -ve                 | -ve                | -ve                    | -ve                    | -ve                 |
| Microbial                    | -ve                 | -ve                | -ve                    | -ve                    | -ve                 |
| Passage frozen               | 1                   | 1                  | 2                      | 2                      | 1                   |
| Cell viability               | 93%                 | 91%                | N/A                    | N/A                    | 73%                 |
| Cell count (viable cells/ml) | $1.968 \times 10^6$ | $2.32 \times 10^6$ | $\geq 1.0 \times 10^6$ | $\geq 1.0 \times 10^6$ | $1.415 \times 10^6$ |
| Seeding efficiency           | 80%                 | 79%                | N/A                    | N/A                    | 58%                 |
| Doubling time (h)            | 22                  | 21                 | N/A                    | N/A                    | 22                  |
| CD13                         | $\geq 90\%$         | $\geq 90\%$        | N/A                    | N/A                    | $\geq 90\%$         |
| CD29                         | $\geq 90\%$         | $\geq 90\%$        | N/A                    | N/A                    | $\geq 90\%$         |
| CD44                         | $\geq 90\%$         | $\geq 90\%$        | 99.4%                  | 91.3%                  | $\geq 90\%$         |
| CD73                         | $\geq 90\%$         | $\geq 90\%$        | N/A                    | N/A                    | $\geq 90\%$         |
| CD90                         | $\geq 90\%$         | $\geq 90\%$        | N/A                    | N/A                    | $\geq 90\%$         |
| CD105                        | $\geq 90\%$         | $\geq 90\%$        | 99.8%                  | 94%                    | $\geq 90\%$         |
| CD166                        | $\geq 90\%$         | $\geq 90\%$        | N/A                    | N/A                    | $\geq 90\%$         |
| CD14                         | $\leq 5\%$          | $\leq 5\%$         | N/A                    | N/A                    | $\leq 5\%$          |
| CD31                         | $\leq 5\%$          | $\leq 5\%$         | 0%                     | 0%                     | $\leq 5\%$          |
| CD45                         | $\leq 5\%$          | $\leq 5\%$         | 0.6%                   | 0.3%                   | $\leq 5\%$          |
| CD34                         | 0%                  | $\leq 5\%$         | N/A                    | N/A                    | 3%                  |
| Adipogenic                   | N/A                 | N/A                | +ve                    | +ve                    | N/A                 |
| Osteogenic                   |                     |                    | +ve                    | +ve                    |                     |
| Chondrogenic                 |                     |                    | +ve                    | +ve                    |                     |