## Quantitative Real-Time Reverse Transcription Polymerase Chain Reaction

| Patient | Group | Log_{2} of normalized expression | ROS (fresh) | ROS (frozen) | SOD Activity (fresh) | SOD Activity (frozen) | SOD Concentration (fresh) | SOD Concentration (frozen) | NO (fresh) | NO (frozen) | Apoptotic cells | Dead cells | Live cells | Live cell concentration |
|---------|-------|---------------------------------|------------|-------------|---------------------|----------------------|------------------------|--------------------------|------------|-------------|----------------|------------|-----------|----------------------|
| C       | -4.17 | -0.89                           | 1.87       | 1.86         | -0.87               | -0.87                | 1.84                   | 1.84                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |
| C       | -4.11 | -0.98                           | 1.98       | 1.98         | -1.02               | -1.02                | 1.98                   | 1.98                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |
| C       | -4.21 | -0.89                           | 1.89       | 1.89         | -0.98               | -0.98                | 1.86                   | 1.86                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |
| C       | -4.14 | -0.89                           | 1.87       | 1.87         | -0.87               | -0.87                | 1.84                   | 1.84                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |
| C       | -4.06 | -0.91                           | 1.91       | 1.91         | -0.91               | -0.91                | 1.84                   | 1.84                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |
| C       | -3.94 | -0.89                           | 1.86       | 1.86         | -0.87               | -0.87                | 1.84                   | 1.84                     | 0.53       | 0.53        | 0.87           | 0.87       | 0.53      | 0.87                 |

## Biochemical Evaluation of Oxidative Stress

| Patient | Group | Log_{2} of normalized expression | SOD Activity (fresh) | SOD Activity (frozen) | SOD Concentration (fresh) | SOD Concentration (frozen) | NO (fresh) | NO (frozen) | Apoptotic cells | Dead cells | Live cells | Live cell concentration |
|---------|-------|---------------------------------|---------------------|----------------------|------------------------|--------------------------|------------|-------------|----------------|------------|-----------|----------------------|
| C       | -4.17 | -0.89                           | 1.87               | 1.86                 | -0.87                  | -0.87                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.11 | -0.98                           | 1.98               | 1.98                 | -1.02                  | -1.02                    | 1.98       | 1.98         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.21 | -0.89                           | 1.98               | 1.98                 | -0.98                  | -0.98                    | 1.86       | 1.86         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.14 | -0.89                           | 1.98               | 1.98                 | -0.98                  | -0.98                    | 1.86       | 1.86         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.06 | -0.91                           | 1.91               | 1.91                 | -0.91                  | -0.91                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -3.94 | -0.89                           | 1.91               | 1.91                 | -0.91                  | -0.91                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |

## Cytometric Analysis

| Patient | Group | Log_{2} of normalized expression | SOD Activity (fresh) | SOD Activity (frozen) | SOD Concentration (fresh) | SOD Concentration (frozen) | NO (fresh) | NO (frozen) | Apoptotic cells | Dead cells | Live cells | Live cell concentration |
|---------|-------|---------------------------------|---------------------|----------------------|------------------------|--------------------------|------------|-------------|----------------|------------|-----------|----------------------|
| C       | -4.17 | -0.89                           | 1.87               | 1.86                 | -0.87                  | -0.87                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.11 | -0.98                           | 1.98               | 1.98                 | -1.02                  | -1.02                    | 1.98       | 1.98         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.21 | -0.89                           | 1.89               | 1.89                 | -0.98                  | -0.98                    | 1.86       | 1.86         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.14 | -0.89                           | 1.98               | 1.98                 | -0.98                  | -0.98                    | 1.86       | 1.86         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -4.06 | -0.91                           | 1.91               | 1.91                 | -0.91                  | -0.91                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |
| C       | -3.94 | -0.89                           | 1.91               | 1.91                 | -0.91                  | -0.91                    | 1.84       | 1.84         | 0.53           | 0.53       | 0.87      | 0.87                 |

## ROS, reactive oxygen species; NO, nitric oxide; SOD, superoxide dismutase; C, control group; E, experimental group.