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Table SI The sequence of the primers used in the present study.

| Primer Name            | Primer Sequences(5'-3') |
|------------------------|-------------------------|
| U6 snRNA(F)            | CTCGCTTCGGCAGCACA       |
| U6 snRNA(R)            | AACGCTTCACGAATTTGCGT    |
| miR-16-5p qRT-PCR(F)   | TAGCAGCACGTAAATATTGGCG  |
| miR-31-5p qRT-PCR(F)   | AGGCAAGATGCTGGCATAGCT   |
| miR-151a-3p qRT-PCR(F) | CTAGACTGAAGCTCCTTGAGG   |
| miR-142-5p qRT-PCR(F)  | CATAAAGTAGAAAGCACTACT   |

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Table SII The sample information of 74 cases patients

| Number | Age | Sex | Group  |
|--------|-----|-----|--------|
| 1      | 88  | F   | normal |
| 2      | 70  | M   | normal |
| 3      | 68  | M   | normal |
| 4      | 74  | F   | normal |
| 5      | 78  | F   | normal |
| 6      | 75  | F   | normal |
| 7      | 82  | M   | normal |
| 8      | 72  | F   | normal |
| 9      | 79  | M   | normal |
| 10     | 82  | M   | normal |
| 11     | 80  | F   | normal |
| 12     | 72  | F   | normal |
| 13     | 73  | F   | normal |
| 14     | 70  | F   | normal |
| 15     | 69  | F   | normal |
| 16     | 73  | M   | normal |
| 17     | 75  | M   | normal |
| 18     | 82  | F   | AKI    |
| 19     | 78  | M   | AKI    |
| 20     | 90  | M   | AKI    |
| 21     | 84  | M   | AKI    |
| 22     | 85  | F   | AKI    |
| 23     | 71  | M   | AKI    |
| 24     | 87  | M   | AKI    |
| 25     | 81  | M   | AKI    |
| 26     | 85  | M   | AKI    |
| 27     | 67  | F   | AKI    |

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|    |    |   |         |
|----|----|---|---------|
| 28 | 90 | F | AKI     |
| 29 | 89 | F | AKI     |
| 30 | 80 | F | AKI     |
| 31 | 97 | F | AKI     |
| 32 | 92 | F | AKI     |
| 33 | 87 | M | AKI     |
| 34 | 85 | M | AKI     |
| 35 | 73 | F | AKI     |
| 36 | 69 | M | AKI     |
| 37 | 95 | M | AKI     |
| 38 | 89 | M | AKI     |
| 39 | 82 | M | AKI     |
| 40 | 87 | F | AKI     |
| 41 | 86 | F | AKI     |
| 42 | 80 | F | AKI     |
| 43 | 90 | F | AKI     |
| 44 | 88 | F | AKI     |
| 45 | 79 | M | AKI     |
| 46 | 94 | F | AKI     |
| 47 | 89 | M | non-AKI |
| 48 | 64 | M | non-AKI |
| 49 | 79 | M | non-AKI |
| 50 | 70 | M | non-AKI |
| 51 | 87 | M | non-AKI |
| 52 | 83 | M | non-AKI |
| 53 | 82 | M | non-AKI |
| 54 | 89 | M | non-AKI |
| 55 | 84 | F | non-AKI |
| 56 | 92 | F | non-AKI |

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|    |    |   |         |
|----|----|---|---------|
| 57 | 82 | M | non-AKI |
| 58 | 72 | M | non-AKI |
| 59 | 90 | F | non-AKI |
| 60 | 82 | F | non-AKI |
| 61 | 86 | F | non-AKI |
| 62 | 82 | F | non-AKI |
| 63 | 86 | M | non-AKI |
| 64 | 76 | F | non-AKI |
| 65 | 85 | M | non-AKI |
| 66 | 78 | F | non-AKI |
| 67 | 83 | F | non-AKI |
| 68 | 80 | F | non-AKI |
| 69 | 82 | M | non-AKI |
| 70 | 83 | F | non-AKI |
| 71 | 65 | M | non-AKI |
| 72 | 67 | M | non-AKI |
| 73 | 88 | F | non-AKI |
| 74 | 86 | F | non-AKI |

M, male; F, female.

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Table SIII. Sepsis group non-AKI vs. control group up-regulate miRNAs (partial results).

| name            | logFC    | AveExpr  | t        | P-Value  | adj. P-Val | B        |
|-----------------|----------|----------|----------|----------|------------|----------|
| hsa-miR-151a-3p | 5.813837 | 7.812073 | 6.62202  | 0.000131 | 0.009755   | 1.514494 |
| hsa-miR-500a-5p | 3.688784 | 3.833427 | 4.949794 | 0.000962 | 0.053331   | -0.85786 |
| hsa-miR-31-5p   | 5.478866 | 7.335774 | 4.402507 | 0.00201  | 0.065644   | -0.98322 |
| hsa-miR-514a-3p | 3.59048  | 5.644407 | 4.37955  | 0.002075 | 0.065644   | -1.02294 |
| hsa-miR-340-5p  | 3.506918 | 5.670863 | 4.100343 | 0.003077 | 0.065644   | -1.36852 |
| hsa-miR-424-5p  | 3.782597 | 6.121998 | 3.962594 | 0.003752 | 0.069878   | -1.54237 |
| hsa-let-7i-5p   | 0.668551 | 15.7691  | 4.866088 | 0.001074 | 0.053331   | -1.73202 |
| hsa-miR-106b-3p | 3.642873 | 4.584951 | 4.244238 | 0.002508 | 0.065644   | -1.73401 |
| hsa-miR-218-5p  | 3.633033 | 4.471111 | 4.166423 | 0.0028   | 0.065644   | -1.80463 |
| hsa-miR-642a-5p | 3.621071 | 3.85025  | 4.050566 | 0.003304 | 0.065644   | -1.88209 |
| hsa-miR-224-5p  | 3.156281 | 5.351929 | 3.624408 | 0.006176 | 0.108259   | -1.98448 |
| hsa-miR-20a-5p  | 3.798946 | 6.312977 | 3.388386 | 0.008824 | 0.131474   | -2.3089  |
| hsa-miR-3940-3p | 3.492934 | 3.895063 | 3.523641 | 0.007186 | 0.118967   | -2.54063 |
| hsa-miR-16-5p   | 1.108491 | 15.66035 | 2.625301 | 0.029102 | 0.216808   | -5.15229 |
| hsa-miR-141-5p  | 3.013321 | 5.3202   | 2.924224 | 0.018129 | 0.191927   | -2.9462  |
| hsa-miR-144-3p  | 2.89675  | 5.134524 | 2.909762 | 0.018547 | 0.191927   | -2.96681 |
| hsa-miR-127-3p  | 2.776642 | 5.013307 | 2.720853 | 0.025002 | 0.207064   | -3.23678 |
| hsa-miR-1180-3p | 2.727889 | 5.037432 | 2.721603 | 0.024972 | 0.207064   | -3.23746 |
| hsa-miR-21-5p   | 1.505238 | 13.75776 | 3.230715 | 0.011241 | 0.156085   | -3.28593 |
| hsa-miR-574-5p  | 2.177782 | 5.073166 | 2.62917  | 0.028923 | 0.216808   | -3.40885 |
| hsa-miR-15a-5p  | 2.706286 | 5.458631 | 2.562098 | 0.032183 | 0.226997   | -3.46171 |
| hsa-miR-15b-5p  | 2.636183 | 5.34011  | 2.543381 | 0.033157 | 0.226997   | -3.49368 |
| hsa-miR-4508    | 1.815846 | 4.196274 | 2.536629 | 0.033516 | 0.226997   | -3.62724 |
| hsa-miR-29c-5p  | 2.375432 | 4.959989 | 2.423518 | 0.040143 | 0.244133   | -3.66696 |

|                 |          |          |          |          |          |          |
|-----------------|----------|----------|----------|----------|----------|----------|
| hsa-miR-143-3p  | 2.272014 | 10.98054 | 2.554281 | 0.032586 | 0.226997 | -3.67984 |
| hsa-miR-1306-5p | 2.055232 | 4.055457 | 2.48653  | 0.036304 | 0.227458 | -3.81811 |
| hsa-miR-132-3p  | 2.934371 | 4.382718 | 2.394845 | 0.042022 | 0.25045  | -4.01716 |