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Supplementary Materials

Supplementary Fig. S1: Quality control diagram. A and B are TIC diagrams of QC samples; C and D are EIC diagrams of internal standard in QC sample; E and F are PCA analysis of QC samples.

Supplementary Fig. S2: Heatmap of hierarchical clustering analysis of group AS vs HC. **Supplementary Fig. S3**: Metabolic pathways with red/blue dots representing the differentially expressed compounds. Red means up regulation, blue means down regulation.

Supplementary Tab. S1: Clinical Characteristics of AS Patients.

Supplementary Tab. S2: Clinical Characteristics of HC Patients.

Supplementary Tab. S3: Positive-Differentially Expressed Metabolites.

Supplementary Tab. S4: Negative-Differentially Expressed Metabolites.