**Supplementary Figure S1.** Patient flow diagram

140 were excluded

2 had cardiac pacemakers

1 had metallic implants

3 were amputees

12 had active malignancies

48 had used antibiotics in the three months prior to enrollment

74 refused to participate

Normal weight group

32 patients

Overweight/obesity group

32 patients

NWO group

32 patients

1 : 1 : 1 matching

110 patients

250 patients undergoing maintenance hemodialysis for at least 3 months