

**Table 1** Results of MR analysis revealing the causality of gout on Crohn's disease

| Exposure | Outcome         | MR method       | No.SNPs | $\beta$    | OR   | P value |
|----------|-----------------|-----------------|---------|------------|------|---------|
| Gout     | Crohn's disease | IVW             | 22      | 0.03068248 | 1.03 | 0.01    |
|          |                 | MR Egger        |         | 0.04525803 | 1.04 | 0.04    |
|          |                 | Weighted median |         | 0.03194732 | 1.03 | 0.03    |
|          |                 | Weighted mode   |         | 0.03173249 | 1.03 | 0.03    |

**Table 2** Results of MR analysis demonstrating the causality of IBD on IgA nephropathy

| Exposure | Outcome         | MR method       | No.SNPs | $\beta$   | OR   | P value |
|----------|-----------------|-----------------|---------|-----------|------|---------|
| IBD      | IgA nephropathy | IVW             | 71      | 0.5380802 | 1.71 | 4.77e-7 |
|          |                 | MR Egger        |         | 0.4548096 | 1.73 | 1.53e-1 |
|          |                 | Weighted median |         | 0.5887292 | 1.80 | 1.48e-4 |
|          |                 | Weighted mode   |         | 0.6171294 | 1.85 | 1.77e-2 |