Results Of the 367 patients who met Rome III criteria for IBS, 319 patients agreed to participate in the study. These cases were further stratified into the subgroups of IBS+FD, IBS+BD/FH (BD and/or FH), IBS+FD+BD/FH, or IBS only according to the symptoms. IBS+FD group had significantly higher anxiety scores than IBS+BD/FH group and greater depression than IBS only (P<0.05). Multiple regression analysis showed that IBS+FD+BD/FH was a predictive factor of worse mental component score (MCS), physical component score (PCS) and SF-36 global health while IBS+FD was a predictor of lower PCS and SF-36 compared with IBS only.

Conclusions IBS patients overlapping with FD experience more anxiety, depression and lower PCS. The coexisting FD +BD/FH is a predictive factor of reduced MCS and PCS in IBS patients.