

Supplementary Table 1. Diabetes bowel symptom questionnaire

DBSQ	Answer
1. Have you ever experienced heartburn or regurgitation?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
2. Have you ever experienced indigestion immediately after a meal?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
3. Have you experienced nausea or vomiting recently?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
4. Have you experienced abdominal bloating or distension?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
5. Have you ever experienced more than two of the symptoms listed below that may suggest gastric ulcers? (1) Abdominal pain relieved after meal or drinking milk (2) Abdominal pain before or after the meal (3) Sleep disturbance due to severe abdominal pain	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
6. Have you ever experienced more than two of the symptoms listed below that may suggest irritable bowel syndrome? (1) Pain relieved by defecation (2) Pain occurrence due to frequent defecation or constipation (3) Pain occurrence due to very hard stool or very loose stool	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday

(Continued to the next page)

Supplementary Table 1. Continued

DBSQ	Answer
7. Have you ever experienced diarrhea or loose stool without pain?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
8. Have you ever experienced more than two of the symptoms listed below that might be associated with constipation? (1) Very hard stool (2) Defecate less than three times a week (3) Too much strain on defecation (4) Residual sensation after defecation (5) Sensation of anal blockage (6) Requiring enema for defecation	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
9. Have you ever experienced intolerable moderate or severe abdominal pain on the specific area of abdomen?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday
10. Have you ever experienced anal incontinence?	① Never ② Less than once a month ③ Once a month ④ Two or three times a month ⑤ Once a week ⑥ Several times during the week or everyday

DBSQ, diabetes bowel symptom questionnaire.