Supplementary Table 1: Search Strategy

Supplementary Table 2: A proposed classification of fructose and lactose breath testing results. Adapted from Amieva-Balmori(68)

**Supplementary Table 1: PubMed search strategy.**

1. breath test\*[tw] OR aspirat\*[tw] OR culture[tw] OR hydrogen[tw] OR methan\*[tw] OR “breath tests”[MeSH] OR Microbiology[MeSH] OR bacteria[MeSH]
2. “small intestin\*”[tw] OR “intestine, small”[MeSH]
3. SIBO[tw] OR overgrowth[tw]
4. #1 AND #2 AND #3

**Supplementary Table 2**: A proposed classification of fructose and lactose breath testing results. Adapted from Amieva-Balmori68

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| **Positive Fructose or Lactose Breath Test** |
| *Malabsorption*: Increase in H2 ≥20 ppm OR CH4 ≥15 ppm OR increase in both ≥20 ppm above baseline OR significant diarrhea (≥2 score\*) during the breath test |
| *Intolerance*: BOTH malabsorption AND GI symptoms (2 or more symptoms with increase in symptom severity score ≥2\*) during the breath test |
| **Negative Fructose or Lactose Breath Test** |
| *Normal*: No GI symptoms during the breath test AND gas levels that do not meet cutoffs for malabsorption |
| *Hypersensitivity*: Gas levels that do not meet cutoffs for malabsorption, but presence of GI symptoms other than diarrhea are present anew or are increased during the breath test (2 or more symptoms with increase in symptom severity score ≥2\*) |

\* Patient assessment of symptom intensity using a 0-3 Likert Scale: 0 = none, 1 = mild, 2 = moderate, 3 = severe.