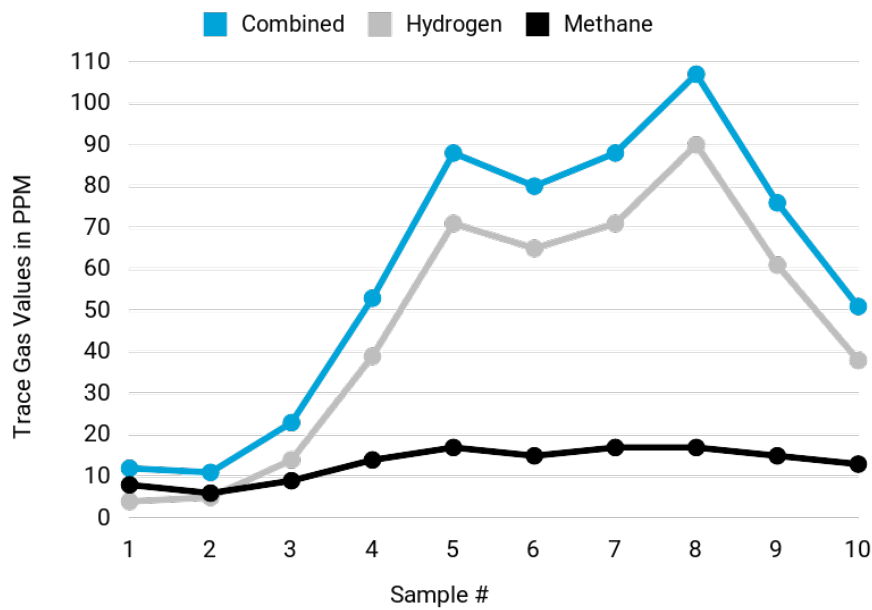


Patient First Name:	Mahleia-Luca	Patient Last Name	Arancibia
Patient DOB:	7-Jan-2015	Patient Gender	Female
Practitioner Name:	Advanced Functional Medicine	Type of Test Performed:	Lactulose
Date Samples Collected:	19-Feb-24	Date of Analysis:	23-Feb-24

Data



#	Sample	ppm H ₂ (Hydrogen)	ppm CH ₄ (Methane)	Combined	CO ₂ %
1	Baseline	4	8	12	2.7
2	20 min	5	6	11	3.4
3	40 min	14	9	23	3.1
4	60 min	39	14	53	3.5
5	80 min	71	17	88	3.6
6	100 min	65	15	80	3.2
7	120 min	71	17	88	3.3
8	140 min	90	17	107	3.3
9	160 min	61	15	76	3.3
10	180 min	38	13	51	3.0

Interpretation	Reference Ranges	Your Test Results
SIBO Suspected – Elevated Hydrogen	Increases of hydrogen greater than 20ppm over the lowest preceding value within the first 100 minutes are indicative of bacterial overgrowth. Levels between 100-120 minutes are considered borderline. See additional interpretation	POSITIVE
SIBO Suspected – Elevated Methane	Increases of methane greater than 12ppm over the lowest preceding value within the first 100 minutes are indicative of bacterial overgrowth. Levels between 100-120 minutes are considered borderline. See additional interpretation	BORDERLINE
SIBO Suspected – Elevated Combined hydrogen & methane gasses	Increases of combined hydrogen and methane gas values greater than 15ppm over the lowest preceding value within the first 100 minutes are indicative of bacterial overgrowth. Levels between 100-120 minutes are considered borderline. See additional interpretation	POSITIVE

Hydrogen (H₂) and Methane (CH₄) values corrections are based on CO₂ content in the samples. CO₂ is not used for diagnosis, only for quality assurance of samples. *Correction is based on contamination with room air or bronchial deadspace air, typically good samples are around 5.5% CO₂. Poor samples are typically below 1.5%. If a sample is considered "poor" the charted result cannot be determined accurately due to contamination of the sample. This does not mean the test is inconclusive in all cases.

Notes

Patient reported symptoms of abdominal discomfort during testing

Additional Information and Interpretation

- Hydrogen Baseline Reading - should read below 10 ppm if performing a the Methane Spot Retest and disregarded if performing the Constipation Breath Test.
- Methane Spot Retest - Methane levels are considered in relation to the previous Lactulose breath test baseline reading to monitor treatment efficacy.
- Constipation Breath Test - Methane is high if reading is >10 ppm.

References:

1. Rezaie A, Buresi M, Lembo A, Lin H, McCallum R, Rao S, et al. Hydrogen and methane-based breath testing in gastrointestinal disorders: The North American Consensus. The American Journal of Gastroenterology. 2017;112(5):775.
2. Triantafyllou K, Chang C, Pimentel M. Methanogens, methane and gastrointestinal motility. J Neurogastroenterol Motil. 2014;20(1):31-40.