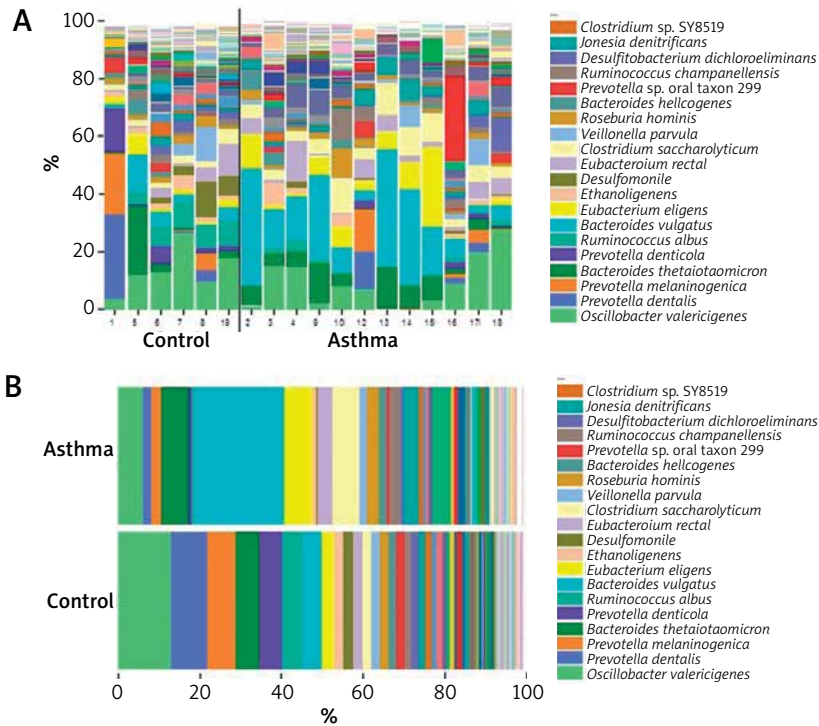
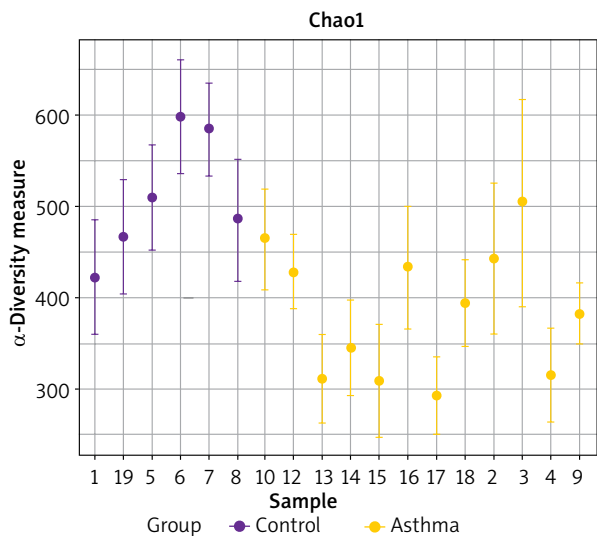


Supplementary Figure S1. A – Bar chart showing the percentage of individual bacterial groups among asthma and control groups. **B** – Bar chart showing the percentage of individual bacterial groups among asthma and control groups



Supplementary Figure S2. A – Bar chart showing the percentage of individual bacterial species among asthma and control groups. **B** – Bar chart showing the percentage of individual bacterial species among asthma and control groups



Supplementary Figure S3. α -diversity measure using Chao1. Notes: α -diversity measure using Chao1 at the OTU level across each individual patient – asthma (yellow) and controls (purple). The samples are represented on the X-axis and their estimated diversity on the Y-axis

Supplementary Table S1. Asthma treatment among the study group

Patient no.	Treatment
1	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers)
2	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers) - Short acting muscarinic antagonists + short acting β agonists (combination inhalers)
3	- Inhaled glucocorticosteroids monotherapy
4	- Inhaled glucocorticosteroids monotherapy
5	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers)
6	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers) - Leukotriene receptor antagonist
7	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers)
8	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers)
9	- Short acting muscarinic antagonists + short acting β agonists (combination inhalers)
10	- Inhaled glucocorticosteroids - Leukotriene receptor antagonist
11	- Inhaled glucocorticosteroids + long acting β agonists (combination inhalers) - Short acting muscarinic antagonists + short acting β agonists (combination inhalers)
12	- Inhaled glucocorticosteroids - Short acting muscarinic antagonists
13	- Inhaled glucocorticosteroids - Short acting muscarinic antagonists + short acting β agonists (combination inhalers)