Dysbiosis of Intestinal Butyrate-producing Bacteria in Saudi Pediatric Inflammatory Bowel Disease Patients

Try to follow this backbone:

Introduction

* Crohn disease (CD) (300 words)

What is it ? – relation to IBD – Historical background - type of IBD (mainly CD & UC) – Diffrance between CD & UC in signs and symptoms

* Epidemiology of CD
* Incidence & Prevalence: (300 words)

Worldwide > Middle East > Gulf Cooperation Council (GCC) Countries > Saudi Arabia

* Distribution by Age: (100 words)

Worldwide > Middle East > Gulf Cooperation Council (GCC) Countries > Saudi Arabia

* Distribution by Gender : (100 words)

Worldwide > Middle East > Gulf Cooperation Council (GCC) Countries > Saudi Arabia

* The etiology of CD (150 words)
* Risk Factors: ( try to relate this factors to the dysbiosis of gut Microbiota)
* The immune mechanisms involved in IBD
* Normal mucosal immunity (200 words)
* IBD immunopathology (200 words)
* Genetic (200 words)
* Gut Microbiota (200 words)
* Diet (200 words)
* Smoking (200 words)
* Infection (200 words)
* Immunization (200 words)
* Antibiotic consumption (200 words)
* Hygiene Hypostasis (200 words)
* Butyrate Producing Bacteria (BPB) (500 words)

What is Butyrate? – The important of butyrate for Gut – The 4 Pathways of Butyrate production in Bacteria.

* BPB in Healthy Humans: (700 words)

Mention the main BPB families and species in Westin, Middle east, GCC and Saudi Cohorts.

The difference between Adult and pediatric BPB

Give example the factors affecting the normal gut microbiota (geographic, economic, race, diet,)

* BPB in CD Pediatric (700 words)

Mention 10 studies showing the dysbiosis BPB in Westin, Middle east, GCC and Saudi Cohorts.

(Note: The 10 studies should be from Pediatric chron’s Cohort, using stool sample, using PCR or sequencing Technique)

Add a Table summaring the 10 studies (example below)

* Sample types used for studding intestinal microbiota (300 words)

 Why the stool is the most use.

::::::: General instruction :::::::

* Use new references (2010 – 2020).
* Please consider the interconnection of ideas.
* Use my references below and add more.
* Use up to 60 references.
* See my attached file (proposal) to take overview.
* Contact me if you wont to edit something.

***Research and References:***

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