Article ID: WMC005771 ISSN 2046-1690



Colon Reparation After Colonoscopy

Peer review status:

No

Corresponding Author:

Dr. Deepak Gupta,

Anesthesiologist, Wayne State University - United States of America

Submitting Author:

Dr. Deepak Gupta,

Anesthesiologist, Self - United States of America

Other Authors:

Dr. Shushovan Chakrabortty,

Clinical Associate Professor, Wayne State University, Anesthesiology - United States of America

Prof. David Edelman,

Professor, Wayne State University, Surgery - United States of America

Article ID: WMC005771
Article Type: My opinion

Submitted on: 21-Feb-2022, 01:11:23 AM GMT Published on: 22-Feb-2022, 04:26:31 AM GMT

Article URL: http://www.webmedcentral.com/article_view/5771

Subject Categories:GASTROENTEROLOGY **Keywords:**Colonoscopy, Prebiotics, Probiotics

How to cite the article:Gupta D, Chakrabortty S, Edelman D. Colon Reparation After Colonoscopy.

WebmedCentral GASTROENTEROLOGY 2022;13(2):WMC005771

Copyright: This is an open-access article distributed under the terms of the Creative Commons Attribution License(CC-BY), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Source(s) of Funding:

NOT APPLICABLE

Competing Interests:

NOT APPLICABLE

Colon Reparation After Colonoscopy

Author(s): Gupta D, Chakrabortty S, Edelman D

My opinion

The science of biomes has continued to grow during the ongoing global pandemic. COVID-19 has affected our biomes. The use of protective gear limits the ability of biomes to replenish while the absence of social contact limits biomes' diversity. Our eating habits (processed foods) have also changed as we have quarantined for extended periods of time. There is an ongoing balance between probiosis and antibiosis [1-4]. Perioperative and peripartum medicine should evolve and include consideration for the use of synbiotics (prebiotics plus probiotics [5-6]).

Â

As Bowel Prep for colonoscopy must be altering our biomes [7], we are putting forth the following questions:

- Should we first investigate patients' colonic biomes' diversity as deciphered from the irrigated and suctioned fluids during their colonoscopies?
- Why have we not realized yet that even the fiber man, Dr Denis Burkitt [8], if alive today would talk not only about eating fiber to naturalize our stool production but also about how eating fiber feeds our hungry gut biomes to normalize our stool production?
- Do we ever wonder about travelers' constipation due to lost biomes just like we have been conscious about travelers' diarrhea due to pathogens' exposure?
- Can we agree that probiotics without prebiotics may be dangerous as by not providing foods for the expanded biomes, we are just adding more populations of hungry biomes in vivo while prebiotics without probiotics may be wasted as by not having any biomes to feed, prebiotics will just pass ex vivo?
- Must we always consider personâ∈™s immune systemâ∈™s integrity when considering adding any biomes in the form of probiotics [9]?
- Do we ever wonder whether our zealous focus on colonoscopy-based screening for early diagnosis of colon cancer has made us ignore even discussing about potentially preventative role of our dietary habits against colon cancer?
- Are we ignoring our viromes (commensal virophages, bacteriophages and virions) in the wholesome perspective of our biomesâ∈™ mutualism when we limit our focus to only our microbiomes (commensal bacteria) [10-13]?
- Are we permanently reshaping our nasal biomes with nasal decolonization in healthcare institutions?
- Are we permanently reshaping our newborns' biomes by adding more broad-spectrum antibiotics for surgical site infections' prophylaxis during

- cesarean sections thus worsening the interference in essential vertical transmission of maternal biomes to their newborns?
- Are we going for the overkill when cleansing and preparing genital areas externally and internally (with povidone-iodine or chlorohexidine) not only during cesarean sections but also during spontaneous and induced vaginal deliveries?
- Do we ever wonder whether as compared to communal bathing in stagnant pools or ponds, communal bathing in flowing rivers or seas [14-15] may come in handy to flood our whole bodies with commensal biomes especially If pandemic mitigation measures continue to persist even after the pandemic is over?
- Will there be a futuristic role for auto-transplantation of suctioned irrigating fluids with patients' colonic biomes therein before finishing their colonoscopies?

Â

<u>A</u>	
Å	
What happens before your co	
	solution that is needed to clear up your colonic contents for visualization of your colon
during colonoscopy	
A	
What happens during your co	
	olon is further cleared of any remaining contents in your colonic lumen and mucus
	r better visualization of your colon during colonoscopy
Â	Ď.
What happens after your colo	
 It takes weeks for your colon 	i to repienish its contents
	- 4-III h 40
Which colonic contents are we	e talking about? which are essential for your health
- Your coion contains biomes Å	which are essential for your health
A What helps in replenishing the	naa hiamaa?
	ase blumes: bods which your colonic biomes need to feed on and your ingestion of fermented food
which enrich diversity of your	
Å	colonic biolities.
Which are the common prebio	ntic foods?
	s, bananas, berries, asparagus, garlic, onions are some prebiotic foods
Å	, buriando, borrios, deparagas, game, ornorio are somo presione reces
Which are the common ferme	nted (probiotic) foods?
	bles, sauerkraut, kimchi, natto are some fermented (probiotic) foods
Å	,,,,,
What are the cost implications	\$?
 Although most of these food 	s can be cost-effectively prepared at home, they may be affordably bought at cheape
prices from local farmers'	markets
Ā	
What are the options for those	e allergic to certain foods?
	airy-free options available as over-the-counter prebiotic and probiotic supplements
Â	
What are the options for immu	
	nanaging your immunocompromised state regarding which prebiotics and fermented
	tic and probiotic supplements are safe for you
Â	
	tics, what else needs to be done for colonic reparation?
 As colonoscopy is about visu 	ualizing what's in your colonic wall and to visualize better, what's in your

Â

Summarily, although we envisage that the future endoscopists may consider investigating and exploring the safety of synbiotic (prebiotic plus probiotic) bowel preparation solutions to be routinely used prior to colonoscopy as well as evolving safe synbiotic (prebiotic plus probiotic) irrigating water solutions to be routinely used during colonoscopy, we as providers can make the case in the interim for bowel reparations with synbiotic foods post-colonoscopy after the currently prevalent use of non-synbiotic bowel preparation regimens and bowel irrigation regimens for and during colonoscopies.

Reference(s)

https://biomes.world/en/interesting-facts/intestinal-flora/colonoscopy/

- Surgical site infections and the microbiome: An updated perspective.
 - https://www.cambridge.org/core/journals/infection-control-and-hospital-epidemiology/article/abs/surgi cal-site-infections-and-the-microbiome-an-updated-perspective/31F5C47102A03ED7DBB4CE78B1A 3953F
- Babies Born by C-Section Have Different Gut Microbes Than Vaginally Delivered Infants. https://www.smithsonianmag.com/science-nature/ babies-born-c-section-found-have-different-gut-mi crobes-vaginally-delivered-infants-180973174/
- Antibiotics at birth and later antibiotic courses: effects on gut microbiota. https://www.nature.com/articles/s41390-021-0149 4-7
- The influence of prenatal and intrapartum antibiotics on intestinal microbiota colonisation in infants: A systematic review. https://www.sciencedirect.com/science/article/pii/S 0163445320302747
- Probiotics and prebiotics. https://www.worldgastroenterology.org/UserFiles/fi le/guidelines/probiotics-and-prebiotics-english-201 7.pdf
- Probiotics and Prebiotics: What's the Difference? https://www.healthline.com/nutrition/probiotics-and-prebiotics
- Does Colon Cleansing Wipe Out Our Gut Microbiome? https://www.nytimes.com/2017/08/11/well/live/doe s-colon-cleansing-wipe-out-our-gut-microbiome.ht
- The Fibre Man: The Life Story of Dr Denis Burkitt. https://www.amazon.com/Fibre-Man-Life-story-Dr-Denis-Burkitt/dp/0856485837
- Immunosuppression and probiotics: are they effective and safe? https://pubmed.ncbi.nlm.nih.gov/26287986/
- 10. Symbiosis: The Art of Living Together. https://www.nationalgeographic.org/article/symbiosis-art-living-together/6th-grade/
- 11. The other microbiome. https://www.pnas.org/content/110/8/2682
- The human virome: assembly, composition and host interactions. https://www.nature.com/articles/s41579-021-00536-5
- Defining the Human Microbiome. https://academic.oup.com/nutritionreviews/article/7 0/suppl_1/S38/1921538
- 14. World's Largest Mass Bathing Event Influences the Bacterial Communities of Godavari, a Holy River of India. https://link.springer.com/article/10.1007/s00248-01 8-1169-1
- Swimming in the sea completely changes the microbes on your skin. https://www.newscientist.com/article/2207868-swi mming-in-the-sea-completely-changes-the-microb es-on-your-skin/
- 16. Intestinal flora after colonoscopy: How to rebuild it.