Bond University Research Repository



Influence of inpatient dietary restriction on acute uncomplicated diverticulitis: A pilot observational study

Crichton, Megan; Dahl, Camilla ; Jenkins-Chapman, Julie; Nucera, Romina; Chen, Yvonne; Russell, Kayla; Marshall, Skye

Published: 01/11/2017

Document Version: Publisher's PDF, also known as Version of record

Link to publication in Bond University research repository.

Recommended citation(APA):

Crichton, M., Dahl, C., Jenkins-Chapman, J., Nucera, R., Chen, Y., Russell, K., & Marshall, S. (2017). *Influence of inpatient dietary restriction on acute uncomplicated diverticulitis: A pilot observational study.* 37-38. Abstract from The First Gold Coast Health Research Week Conference 2017, Gold Coast, Australia.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

For more information, or if you believe that this document breaches copyright, please contact the Bond University research repository coordinator.



Research Team: Megan Crichton, Camilla Dahl, Skye Marshall, Julie Jenkins-Chapman, Romina Nucera, Yvonne Chen, Kayla Russell, Sophie Mahoney







Background



 Towards a healthier Gold Coast

 Gold Coast Health Research Week Conference

 Q
 Q

 Q
 Q

 P
 28 - 30 November 2017

Sandler et. al. Gastroenterology, 2002; AIHW 2016

Queensland Government Queensland Health



Background

- >152,000 annual hospitalisations
- Length of stay 3-4 days
- 1.5 million days of inpatient care
- Annual cost AUD\$3.4 billion







Background



Sandler et. al. Gastroenterology, 2002; AIHW 2016

Towards a healthier Gold Coast Gold Coast Health Research Week Conference 28 - 30 November 2017





Research Question

What is the effect of inpatient prescription of liberalised diets compared with restrictive diets on hospital length of stay and 30-day diverticulitis reoccurrence?

> Liberalised diet = solid food in \leq 48 hours Restricted diet = fasting/fluid only for \geq 48 hours







Methods



Results: Recruitment



Towards a healthier Gold CoastGold Coast Health Research Week ConferenceQQQ28 - 30 November 2017





Results: Baseline Characteristics

| Inpatient Diet Analysis at Baselir | |
|------------------------------------|--|
| Restricted Diet (n=16) | Liberalised Diet (n=11) |
| 54 ± 11* | 65 ± 14* |
| 26.7 ± 3.3 | 27.6 ± 5.7 |
| 36.8 ± 0.6 | 36.8 ± 0.7 |
| 9 (56%) | 8 (73%) |
| 11 (69%) | 6 (55%) |
| 1 (6%) | 3 (27%) |
| 2 (13%) | 2 (18%) |
| 1 (6%) | 0 |
| 1 (6%) | 0 |
| 4 (25%) | 2 (18%) |
| 4 (25%) | 2 (18%) |
| 5 (31%)* | 9 (82%)* |
| 4 (25%) | 6 (55%) |
| 3 (19%) | 5 (46%) |
| 6 (40%) | 3 (27%) |
| 3 (20%)* | 7 (64%)* |
| | Inpatient Diet Restricted Diet (n=16) 54 ± 11* 26.7 ± 3.3 36.8 ± 0.6 9 (56%) 11 (69%) 1 (6%) 2 (13%) 1 (6%) 2 (13%) 1 (6%) 4 (25%) 4 (25%) 4 (25%) 5 (31%)* 4 (25%) 3 (19%) 6 (40%) 3 (20%)* |

| | Inpatient Gastrointestinal Symptoms | | |
|--|--|--|--|
| Inpatient Gastrointestinal Symptoms | Restricted Diet (n=16) | Liberalised Diet (n=11) | |
| Total GSRS Score Abdominal Pair Reflux Indigestion Constipation Diarrhoea | 8.9 ± 3.4 2 (0-4) 0 (0-4) 3.9 ± 2.1 1.6 ± 1.3 0.5 (0-8) | 7.6 ± 3.0 1 (1-3) 0 (0-2) 2.6 ± 1.6 1.5 ± 1.2 2 (0-4) | |
| P>0.05 | | | |











Length of Stay (days)

Length of Stay (days)

* P=0.031 BUT small sample size, not precise







Results: Length of Stay



After accounting for smoking status and GSRS Score at baseline,

Liberalised diet decreased LOS by 1.1 days*

(P=0.035)

Towards a healthier Gold Coast Gold Coast Health Research Week Conference 28 – 30 November 2017





Results: Reoccurrence / GP Visits

| | Restricted Diet Group (n=16) | Liberalised Diet Group (n=11) |
|--------------|------------------------------|-------------------------------|
| Reoccurrence | 1 | 0 P>0.05 |
| GP visits | 5 | 2 |







Take Home Message

A liberalised diet may be favourable compared to a restricted diet BUT a larger sample size and RCT is needed to strengthen confidence in findings.









Thank you Questions?

Towards a healthier Gold Coast Gold Coast Health Research Week Conference Q 3 9 28 - 30 November 2017



