Mymensingh Medical Journal

Indexed In: Index Medicus MEDLINE & PubMed

ISSN 1022 - 4742 NLM ID: 9601799

January 2020 Vol 29 No 1

Original Contribution

- 1 Serum Amino-Terminal Pro-B Type Natriuretic Peptide (NT-pro BNP) Status among Heart Failure (HF) Patients in Bangladesh Banu M, Hoque MR
- 5 Clinical Profile and Immediate Outcome of Children Admitted With Acute Glomerulonephritis in Pediatrics Department of A Tertiary Level Hospital Sharmin M, Chowdhury AM, Ali MA, Rahman MW, Hossain MA, Rahman MH, Sharmin P, Roy AS, Chowdhury B
- 16 Depression among Medical Students of Bangladesh Tareq SR, Likhon RA, Rahman SN, Akter S, Basher MS, Hasan MS, Hussain MZ, Khan MK
- 21 Comparison of Serum Amylase and Lipase Levels between Predialysis and Maintenance Haemodialysis CKD Patients Khan SI, Iqbal M, Chowdhruy AA3, Roy AS, Ahammed SU, Asadujjaman M, Rahman MA, Hossain MB, Rabbani MG, Islam MS, Salahuddin AZ, Sarker NR, Das SK, Miah OF, Majumder RC, Borman GC
- 32 Outcome of Bone Marrow Injection in Patient with Delayed Union and Non-Union of Long Bone Fracture Islam MA, Kabir JJ, Rahman MM, Islam MS, Saha MK, Rahman MM, Akter S, Ara R, Kabir KM
- 37 Antimicrobial Resistance Pattern and Genetic Characteristics of ESBL and Carbapenemase-producing Escherichia coli at a Tertiary Care Hospital in Bangladesh Khan ER, Paul SK, Kobayashi N, Khan TR, Rahman MH, Rahman MM
- 43 Risk Factors for Hypertension in Young Adults of Bangladesh Paul GK, Karmoker KK, Sen B, Hussain MZ, Hasan MS, Khan MK
- 48 Evaluation of Breast Lump Comparison between True-cut Needle Biopsy and FNAC in MMCH: A Study of 100 Cases Kamal MZ, Banu NR, Alam MM, Das UK, Karmoker RK
- 55 Legg-Calve-Perthes Disease: Correlation between Computed Radiography and Magnetic Resonance Imaging Banu NR, Kamal MZ, Uddin MS, Ruly RA, Ferdaus AM, Islam FA, Alam MM, Das UK, Islam MT
- 60 Influence of the Interval between Antenatal Corticosteroid Therapy and Delivery on the Incidence of Respiratory Distress Syndrome in Neonate Karmoker RK, Mirza TT, Hossain AK, Ali MA, Sarker K, Zaman K, Talukder A, Kamal MZ, Banu NR
- 66 Frequency and Risk Factors of Erectile Dysfunction among Bangladeshi Adult Men with Type 2 Diabetes Mellitus Asaduzzaman M, Kamrul-Hasan AB, Islam A, Kabir MA, Chanda PK, Islam MA, Sharif JM, Ahmed N, Mandal T, Ghosh S, Paul PK, Saha RK, Hossain F, Rana MS, Alam K, Kamruzzaman M, Nandi AK, Siddiqui NI
- 73 The Role of Histological Assessment of Distal Doughnut in Low Anterior Resection for Low Rectal Cancer Ferdaus AM, Hossain MS, Sheikh SH, Islam T, Islam FA, Islam MS, Kamal MZ, Mustafa G, Islam A
- 78 Outcome of Double Tension Band Wiring Method for the Treatment of Intercondylar Fractures of Humerus Rahman MM, Islam NS, Kabir SJ, Islam MS, Rahman MM, Islam MA, Kabir KM, Islam MN, Hossain MA
- 86 Knowledge and Practice of Nurses on Pediatric Pain Management in Bangladesh Islam MR, Biswas HB, Hossain MS, Kim HS, Azim A, Nath P, Ali MA

Content continued on inside front cover

Published by

Mymensingh Medical College, Bangladesh

MMJ

The Role of Histological Assessment of Distal Doughnut in Low Anterior Resection for Low Rectal Cancer

*Ferdaus AM¹, Hossain MS², Sheikh SH³, Islam T⁴, Islam FA⁵, Islam MS⁶, Kamal MZ⁷, Mustafa G⁸, Islam A⁹

Anterior resection (AR), especially low anterior resection (LAR), for low rectal cancer and colorectal anastomosis is a technical challenge to surgeons. But by using circular stapling devices now it is possible make more LARs technically feasible. A stapled end-to-end colorectal anastomosis is increasingly adopted following a low anterior resection for low rectal cancer. This descriptive cross-sectional study was carried out in the department of Surgery, Bangabandhu Sheikh Mujib Medical University, Dhaka, Bangladesh from December 2015 to December 2016. The ensuing doughnuts created from the stapling device are routinely sent for histological analysis. However, its efficacy remains debatable. This study aims to determine the role of sending distal doughnut for histological examination following a stapled end-to-end colorectal anastomosis done in low anterior resection for low rectal cancers.

[Mymensingh Med J 2020 Jan; 29 (1): 73-77]

Key words: Doughnut, Low rectal cancer, Low anterior resection, Ultralow anterior resection (ULAR)

Introduction

al.

e 2

yeb

gen

in

fed

62.

In the last 2 decades, there are much more improvements are seen rectal cancer surgery by using more advanced surgical techniques. Abdominoperineal resection, which was the previous gold standard treatment of rectal cancer surgery; now it is considered unnecessary in most patients with low rectal cancer and most of these patients can now be treated with sphincter saving surgery. Anterior resection (AR), especially low anterior resection (LAR), for rectal carcinoma and colorectal anastomosis is a technical challenge to surgeons. The introduction of circular stapling devices has made more and more LARs technically feasible².

Tumor cell deposits within the mesorectal lymph nodes have been identified up to 5cm distal to the inferior aspect of the tumor, emphasizing the need to mesorectal transection 5cm distal to the inferior border of the tumor for more proximal rectal cancers. However, for patients with low lying tumors treated with total mesorectal excision, the clinical evidence is less clear regarding what constitutes an adequate distal margin³.

Subclinical distal bowel intramural spread is present within 1cm distally from visible palpable tumor in a substantial proportion of patients. For these reasons, for patients with low-lying cancer who are undergoing anterior resection (AR), >1cm of distal bowel clearance is recommended as minimally acceptable³.

1.*Dr Md Ashek Mahmud Ferdaus, Assistant Professor, Department of Colorectal Surgery, Mymensingh Medical College (MMC), Mymensingh, Bangladesh; E-mail: ferdous mmc37@gmail.com

2. Professor Dr Md Shahadat Hossain, Professor & Chairman, Department of Colorectal Surgery, BSMMU, Dhaka, Bangladesh

3. Dr Md Shahadot Hossain Sheikh, Professor, Department of Colorectal Surgery, BSMMU, Dhaka, Bangladesh

4. Dr Touhidul Islam, Assistant Professor, Department of Colorectal Surgery, MMC, Mymensingh, Bangladesh

5. Dr Fakir Amirul Islam, Assistant Professor, Department of Surgery, MMC, Mymensingh, Bangladesh

6. Dr Md Shofiqul Islam, Associate Professor, Department of Surgery, MMC, Mymensingh, Bangladesh

7. Dr Mostofa Zahid Kamal, Senior Consultant (Surgery), MMCH, Mymensingh, Bangladesh

8. Dr Golam Mustafa, Assistant Professor, Department of Colorectal Surgery, Dhaka Medical College, Dhaka, Bangladesh

9. Dr Aminul Islam, Assistant Professor, Department of Gastroenterology, MMC, Mymensingh, Bangladesh

*for correspondence

Management. Available at: www.springer. com/series/7631;1-315.

ner

he

nal

of

or

he

&

nt

10

le

in

is

r

n

- 8. Wen B, Zhang L, Wang C, Huang R, Peng H, Zhang T, Dong J. Prognostic significance of clinical and pathological stages on locally advanced rectal carcinoma after neoadjuvant chemoradiotherapy. Radiation Oncology. 2015;10:124.
- 9. Fleming M, Ravula S, Tatishchev SF, Wang HL. Colorectal carcinoma: Pathologic aspects. Gastrointest Oncol. 2012;3(3):153-73.
- Tsutsumi S, Tabe Y, Fijii T, Yamaguchi S, Suto T, Yajima R, Morita H, Cato T, Shiya M, Saito J, Asao T, Nakano T, Kuwano H. Tumor

- Response & Negative Distal Resection Margins Of Rectal Cancer After Hyperthermo Chemoradiation Therapy. Anticancer Research, 2011;31:3963-8.
- 11. Celene W, Lieske NB, Tan KK. Routine histological sampling of doughnuts post oncologic anterior resection is not necessary. International. 2014;29:843-5.
- 12. Mason MC, Przybyl K, Brelsford K. Histopathological assessment of "doughnuts" after anterior resection-a regional survey & single institution audit. Guidelines for the management of colorectal cancer (3rd Edition). 2007.

Sym and The constant of the second of the se

Key nursh of the Land Rewirs, Makifi has a contract

were the Difference of Second

es detario espera se pero en incualingo plimano. But, lucer se como e este se compute polo, del los 28. Son la como este este espera en los transportations de

wind have personned througher on movement bet-

SALLY CONTROL PROGRAMMENT OF BUILDING PLANT OF THE

The state of the state of

the territory of some state of \$1000 the transfer has a second

S has been been been and been a supplied to find a

itali marijat stranja praja 11. 11.0

the and it that is a supplied place of the