

Accepted Manuscript

Title: Anomalous course of the sigmoid colon and the mesosigmoid encountered during colectomy. A case report of a redundant loop of sigmoid colon

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PII: S2210-2612(18)30075-0
DOI: <https://doi.org/10.1016/j.ijscr.2018.02.041>
Reference: IJSCR 3052

To appear in:

Received date: 29-1-2018
Revised date: 22-2-2018
Accepted date: 24-2-2018

Please cite this article as: Zarokosta Maria, Piperos Theodoros, Zoulamoglou Menelaos, Theodoropoulos Panagiotis, Nikou Euthimios, Flessas Ioannis, Boumpa Eleni, Bonatsos Vasileios, Noussios George, Mariolis-Sapsakos Theodoros. Anomalous course of the sigmoid colon and the mesosigmoid encountered during colectomy. A case report of a redundant loop of sigmoid colon. *International Journal of Surgery Case Reports* <https://doi.org/10.1016/j.ijscr.2018.02.041>

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Anomalous course of the sigmoid colon and the mesosigmoid encountered during colectomy. A case report of a redundant loop of sigmoid colon

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Highlights:

- A redundant sigmoid colon is defined as one that is too long to fit into its owner's body without undergoing reduplication.
- It is associated with acute and chronic pathological conditions, sigmoid volvulus and serious confusions in radiological diagnosis and instrumentation of imaging procedures.
- Surgeons, obstetricians and radiologists ought to be aware of this variation and to emphasize to the correlation between gross and clinical anatomy, since their awareness determines the outcomes of an operation and the accurate radiographic diagnosis.

Abstract:

Introduction: Sigmoid colon constitutes a part of the large intestine that presents several congenital anatomic variations. In particular, the presence of a redundant loop of sigmoid colon is of tremendous importance for surgeons, obstetricians and radiologists, since it is closely related to multiple pathological conditions and functional implications of the neighboring anatomical structures.

Presentation of Case: An unusual anatomic variation in position and length of the sigmoid colon and its mesocolon was unexpectedly detected during right hemicolectomy to a 67-year-old Caucasian male patient due to colon cancer. The operation was uneventful. A meticulous review of the literature was conducted as well.

Discussion: A redundant loop of sigmoid colon may go unnoticed or it might lead to urinary, digestive and vascular complications. Its presence is associated with acute and chronic pathological conditions, sigmoid volvulus and serious confusions in radiological diagnosis and instrumentation.

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