



# **Fistulas in Digestive Surgery**

**Nadim Al Hajjar and Florin Graur**



# Fistulas in Digestive Surgery

Nadim al Hajjar

Florin Graur



**SciencePG**

Science Publishing Group

Published by  
Science Publishing Group  
548 Fashion Avenue  
New York, NY 10018, U.S.A.  
<http://www.sciencepublishinggroup.com>

ISBN: 978-1-940366-77-7



© Nadim al Hajjar 2019.

© Florin Graur 2019.

The book is published with open access by Science Publishing Group and distributed under the terms of the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/4.0/>) which permits any use, distribution, and reproduction in any medium, provided that the original author(s) and source are properly credited.

## Preface

Digestive fistula is one of the most important complications that can appear after digestive surgery. For a digestive surgeon along with postoperative hemorrhage, digestive fistula is a main concern after a surgical intervention. When a digestive fistula appears not only that the prognosis of the patient is impaired but also the therapeutic algorithm is changed. In order to know how to deal in case of a digestive fistula requires many years of work, study and training. Therefore, possibly more than ever before, surgeons need to know how to identify a digestive fistula and to treat it properly.

In this book every chapter is addressed to a specific area of digestive fistula: biliary, upper gastro-intestinal, colo-rectal and pancreatic. Due to the great number of years of experience in the digestive surgery of the authors, this book deals extensively with diagnostic and therapeutic methods for digestive fistulas.

In summary, we believe that the *Digestive Fistulas* is new in concept, and new in scope. We hope that specialists as well as surgeons at various levels of training will benefit from this huge effort.



# Contents

Preface. ....	III
Chapter 1 Digestive Fistulas - Introduction.....	1
Chapter 2 Esophageal Fistulas.....	11
Chapter 3 Gastric Fistulas. ....	39
Chapter 4 Duodenal Fistulas.....	67
Chapter 5 Pancreatic Fistulas. ....	87
Chapter 6 Biliary Fistulas. ....	115
Chapter 7 Enteral Fistulas.....	135
Chapter 8 Colon and Rectal Fistulas. ....	147

