

Crohn's disease

Appendix N

Clinical Guideline <...>

Surgery recurrence rates

10 October 2012

*Commissioned by the National Institute for
Health and Clinical Excellence*

Published by the National Clinical Guideline Centre at
The Royal College of Physicians, 11 St Andrews Place, Regents Park, London, NW1 4BT

First published 10 October, 2012

© National Clinical Guideline Centre - October, 2012

Apart from any fair dealing for the purposes of research or private study, criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, no part of this publication may be reproduced, stored or transmitted in any form or by any means, without the prior written permission of the publisher or, in the case of reprographic reproduction, in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK. Enquiries concerning reproduction outside the terms stated here should be sent to the publisher at the UK address printed on this page.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant laws and regulations and therefore for general use.

The rights of National Clinical Guideline Centre to be identified as Author of this work have been asserted by them in accordance with the Copyright, Designs and Patents Act, 1988.

Contents

1	Observational data on surgery recurrence rates.....	5
1.1	Reference List.....	8

1 Observational data for surgery recurrence rates

Healthcare professionals seeking to discuss surgery for Crohn's disease limited to the distal ileum may find these ranges from observational data useful.

1.1.1 Summary - Ileal surgery recurrence rates

	Overall recurrence rate range (%)	Clinical recurrence rate range (%)	Surgical recurrence rate range (%)	Mucosal recurrence rate range (%)	Quality of life
After 2000	36-52	28-38	5-28.5	Not reported	Not reported
Before 2000	30-79	28-38	5-58		Normal on CGQL*; impaired on HRQL**and PIBDQL***

Cleveland Global Quality of Life; ** Health Related Quality of Life; *Padova Inflammatory Bowel Disease Quality of Life*

1.1.2 Recurrence rates for elective surgery of disease of the distal ileum after first resection – from 2000 onwards

Author	Sample size	Site	Length of follow-up in years (median)	Overall recurrence rate (%)	Clinical recurrence rate (%)	Surgical recurrence rate (%)	Mucosal recurrence rate
Baldassano, 2001 ¹	39	ileocaecal	4.4	36			
Cook, 2007 ²	37 (32 with follow up information) children		3.8			28	NR
Eshuis, 2010 ³	55	ileocaecal	6.8		38	9	NR
Ng, 2009 ⁴	99	ileocaecal	1		28	5	NR
Stocchi, 2008 ⁵	56		10.5	52		28.5	NR
Summary	247			Range 36-52	Range 28-38	Range 5-28.5	

1.1.3 Recurrence rates for elective surgery of disease of the distal ileum after first resection – from before 2000

Author	Sample size	Length of follow-up (median)	Overall recurrence rate (%)	Clinical recurrence rate (%)	Surgical recurrence rate (%)	Mucosal recurrence rate (%)	Quality of Life
Agrez, 1982 ⁶	23 with small and large bowel disease	8.5 years	48				
Andrews, 1991 ⁷	139 distal ileal disease	10 years	79		58		
Baldassano, 2001 ¹	39 ileocaecal disease	4.4	36				
Chardavoyne, 1986 ⁸	37 with small and large bowel disease	10 years			35		
Cook, 2007 ²	37 (32 with follow up information) children with ileo-caecal disease	3.8 years			28		
Dirks, 1989 ⁹	58 patients with ileocolitis	4 years			20		
Eshuis, 2010 ³	55 with ileocaecal disease	6.8 years		38	9		
Hellers, 1979 ¹⁰	277 with ileocaecal disease	5 years 10 years 15 years	30 50 55				
Kirkegaard, 1978 ¹¹	20 with CD of terminal ileum	5 years	40		30		
Ng, 2009 ⁴	99 with ileocaecal disease	1 year		28	5		
Scarpa, 2007 ¹²	97 with ileocolonic resection	47.1 months					Normal on CGQL*; impaired on HRQL**and PIBDQL***
Stocchi, 2008 ⁵	56	10.5 years	52		28.5		
Summary			Range 30-79	Range 28-38	Range 5-58		Normal on CGQL*; impaired on HRQL**and PIBDQL***

*Cleveland Global Quality of Life; ** Health Related Quality of Life; ***Padova Inflammatory Bowel Disease Quality of Life

1.1.4 Reference List

- 1 Baldassano R, Han PD, Jeshion WC, Berlin JA, Piccoli DA, Lautenbach E et al. Pediatric Crohn's disease: risk factors for postoperative recurrence. *American Journal of Gastroenterology*. 2001; 96(7):2169-2176
- 2 Cook L, Al-Hendawi E, Bates AW, Brennan M, Salvestrini C, Malik M et al. Limited ileo-caecal resection for localised Crohn's disease in childhood: Clinical outcome and predictors of further surgery. *Journal of Crohn's and Colitis*. 2007; 1(2):82-86
- 3 Eshuis EJ, Slors JF, Stokkers PC, Sprangers MA, Ubbink DT, Cuesta MA et al. Long-term outcomes following laparoscopically assisted versus open ileocolic resection for Crohn's disease. *British Journal of Surgery*. 2010; 97(4):563-568
- 4 Ng SC, Lied GA, Arebi N, Phillips RK, Kamm MA. Clinical and surgical recurrence of Crohn's disease after ileocolonic resection in a specialist unit. *European Journal of Gastroenterology and Hepatology*. 2009; 21(5):551-557
- 5 Stocchi L, Milsom JW, Fazio VW. Long-term outcomes of laparoscopic versus open ileocolic resection for Crohn's disease: follow-up of a prospective randomized trial. *Surgery*. 2008; 144(4):622-627
- 6 Agrez MV, Valente RM, Pierce W, Melton LJ, III, van Heerden JA, Beart RW, Jr. Surgical history of Crohn's disease in a well-defined population. *Mayo Clinic Proceedings*. 1982; 57(12):747-752
- 7 Andrews HA, Keighley MR, Alexander-Williams J, Allan RN. Strategy for management of distal ileal Crohn's disease. *British Journal of Surgery*. 1991; 78(6):679-682
- 8 Chardavoyne R, Flint GW, Pollack S, Wise L. Factors affecting recurrence following resection for Crohn's disease. *Diseases of the Colon and Rectum*. 1986; 29(8):495-502
- 9 Dirks E, Goebell H, Schaarschmidt K, Forster S, Quebe-Fehling E, Eigler FW. Clinical relapse of Crohn's disease under standardized conservative treatment and after excisional surgery. *Digestive Diseases and Sciences*. 1989; 34(12):1832-1840
- 10 Hellers G. Crohn's disease in Stockholm County 1955-1974. *Acta Chirurgica Scandinavica*. 1979; 145(Suppl):490
- 11 Kirkegaard P, Weile F, Henriksen FW, Nielsen OV, Christiansen J. Long-term results after excisional surgery for Crohn's disease of the terminal ileum. *Acta Chirurgica Scandinavica*. 1978; 144(1):51-54
- 12 Scarpa M, Ruffolo C, D'Inca R, Filosa T, Bertin E, Ferraro S et al. Health-related quality of life after ileocolonic resection for Crohn's disease: long-term results. *Inflammatory Bowel Diseases*. 2007; 13(4):462-469