

Author	Year	Title	Study design	Intervention	Total number of patients	Number of patients receiving treatment for fistula	Number of Outcome Measures	Core criteria for complete high quality reporting				
								Primary outcome clearly stated (73%)	Primary outcome clearly defined (76%)	Secondary outcome clearly stated (57%)	Secondary outcome clearly defined (63%)	Use of outcomes explained (33%)
<i>Echarri</i>	2010	Evaluation of adalimumab therapy in multidisciplinary strategy for perianal Crohn's disease patients with infliximab failure	Prospective cohort (multi-centre)	Combined	16	16	8			y	y	
<i>Glgorijević</i>	2010	The role of pelvic MRI in assessment of combined surgical and infliximab treatment for perianal Crohn's disease.	Prospective cohort	Combination	24	24	6		y		y	
<i>Grimaud</i>	2010	Fibrin glue is effective healing perianal fistulas in patients with Crohn's disease.	Randomised clinical trial	Combination	77	77	2	y	y	y	y	y
<i>Horsthuis</i>	2010	Evaluation of an MRI-based score of disease activity in perianal fistulizing Crohn's disease.	Prospective cohort	Medical	19	19	7	y	y		y	y
<i>Sciaudone</i>	2010	Treatment of complex perianal fistulas in Crohn's disease: infliximab, surgery or combined approach.	Clinical controlled trial	Combined	35	35	7		y			
<i>Soltani</i>	2010	Endorectal advancement flap for cryptoglandular or Crohn's fistula-in-ano.	Systematic review	Surgical	1243	91	3	y		y		
<i>Alessandroni</i>	2011	Local injection of infliximab in severe fistulating perianal Crohn's disease: an open uncontrolled study.	Prospective cohort	Medical	12	12	4	y				
<i>Alvarez</i>	2011	Surgical repair and biological therapy for fecal incontinence in Crohn's disease involving both sphincter defects and complex fistulas.	Prospective cohort	Combination	10	10	6	y	y			
<i>Ciccocioppo</i>	2011	Autologous bone marrow-derived mesenchymal stromal cells in the treatment of fistulising Crohn's disease.	Prospective cohort	Surgical	12	12	8		y		y	
<i>Khan</i>	2011	Antibiotic therapy in inflammatory bowel disease: a systematic review and meta-analysis.	Systematic review and meta analysis	Medical	2008	123	1	y				
<i>Roumeguère</i>	2011	Combined approach with infliximab, surgery, and methotrexate in severe fistulizing anoperineal Crohn's disease: results from a prospective study.	Prospective cohort (multi-centre)	Medical	34	NR	6	y	y	y	y	
<i>Savoie-Collet</i>	2011	Fistulizing perianal Crohn's disease: contrast-enhanced magnetic resonance imaging assessment at 1 year on maintenance anti-TNF-alpha therapy.	Prospective cohort	Medical	20	20	4		y		y	
<i>Schreiber</i>	2011	Randomised clinical trial: certolizumab pegol for fistulas in Crohn's disease - subgroup results from a placebo-controlled study.	Randomised clinical trial	Medical	58	58	6		y		y	
<i>Sileri</i>	2011	Surgery for fistula-in-ano in a specialist colorectal unit: a critical appraisal.	Prospective cohort	Surgical	247	26	7					

Panaccione	2011	Efficacy and safety of adalimumab in Canadian patients with moderate to severe Crohn's disease: Results of the Adalimumab in Canadian Subjects with Moderate to Severe Crohn's Disease (ACCESS) trial	Phase III trial	Medical	304	NR	8	y	y	y	y	y
Loftus	2011	Risk-benefit Analysis of Adalimumab Versus Traditional Non- Biologic Therapies for Patients with Crohn's Disease	Systematic review	Medical	3160	NR	7	y		y		y
Dretze	2011	A systematic review and economic evaluation of the use of tumour necrosis factor-alpha (TNF- α) inhibitors, adalimumab and infliximab, for Crohn's disease	Systematic review	Medical	1783	NR	7	y	y	y	y	y
Duff	2012	Infliximab and surgical treatment of complex anal Crohn's disease.	Retrospective analysis of prospective cohort	Medical	52	52	3	y				
O'Riordan	2012	A systematic review of the anal fistula plug for patients with Crohn's and non-Crohn's related fistula-in-ano.	Systematic review	Surgical	530	42	3	y	y		y	
Tozer	2012	Long-term MRI-guided combined anti-TNF-alpha and thiopurine therapy for Crohn's perianal fistulas	Prospective cohort	Medical	41	33	8	y	y	y	y	y
Antakia	2013	Combined modality treatment for complex fistulating perianal Crohn's disease.	Prospective cohort	Combination	48	48	3	y	y			
Cho	2013	Autologous adipose tissue-derived stem cells for the treatment of Crohn's fistula: a phase I clinical study.	Phase 1 clinical study	Surgical	10	10	4	y		y		
delaPortilla	2013	Expanded allogeneic adipose-derived stem cells (eASCs) for the treatment of complex perianal fistula in Crohn's disease: results from a multicenter phase I/IIa clinical trial.	Clinical trial	Surgical	24	24	8	y	y	y	y	
Lee	2013	Autologous adipose tissue-derived stem cells treatment demonstrated favorable and sustainable therapeutic effect for Crohn's fistula.	Phase 2 clinical study (multi-centre)	Surgical	43	43	7	y	y	y	y	
Schwandner	2013	Video-assisted anal fistula treatment (VAAFT) combined with advancement flap repair in Crohn's disease.	Prospective cohort	Medical	11	10	4	y	y		y	
Da	2013	Adalimumab for Crohn's disease after infliximab treatment failure: a systematic review	Systematic review	Medical	1009	NR	6	y	y	y	y	y
Steenhardt	2013	Individualised therapy is more cost-effective than dose intensification in patients with Crohn's disease who lose response to anti-TNF treatment: a randomised, controlled trial	Randomised clinical trial	Medical	69	14	7	y	y	y	y	y
Panaccione	2013	Adalimumab maintains remission of Crohn's disease after up to 4 years of treatment: data from CHARM and ADHERE	RCT (long term follow up)	Medical	329	70	5	y	y	y	y	y
Kawalec	2013	Tumour necrosis factor- α antibodies (infliximab, adalimumab and certolizumab) in Crohn's disease: systematic review and meta-analysis	SR and MA	Medical	4464	NR	6					
Chande	2013	Azathioprine or 6-mercaptopurine for induction of remission in Crohn's disease (Review)	SR and MA	Medical	1211	18	7	y	y	y		y

Dewint	2014	Adalimumab combined with ciprofloxacin is superior to adalimumab monotherapy in perianal fistula closure in Crohn's disease: a randomised, double-blind, placebo controlled trial (ADAFI)	Randomised clinical trial	Surgical	76	76	7	y	y	y	y	y
Gingold	2014	A prospective evaluation of the ligation of the intersphincteric tract procedure for complex anal fistula in patients with Crohn's disease.	Prospective cohort	Surgical	15	15	4	y	y	y	y	
Hall	2014	Outcomes after operations for fistula-in-ano: Results of a prospective, multicenter, regional study	Retrospective analysis of prospective cohort (multicentre)	Surgical	158	29	2	y	y			
Reinisch	2014	AST-120 (spherical carbon adsorbent) in the treatment of perianal fistulae in mild-to-moderate Crohn's disease: FFAST-1, a phase 3, multicenter, placebo-controlled study	Randomised clinical trial	Surgical	249	249	4	y	y	y	y	y
Yassin	2014	Systematic review: the combined surgical and medical treatment of fistulising perianal Crohn's disease.	Systematic review and meta analysis	Combined	1139	NR	3	y	y			
Song	2014	Efficacy and safety of adalimumab for the Crohn's disease: a systematic review and meta-analysis of published randomized placebo-controlled trials	Randomised clinical trial	Medical	1676	NR	8		y	y	y	
Asma	2014	Stem cell transplantation as rescue therapy for refractory Crohn's disease: a systematic review	Systematic review	Surgical	115	65	15		y		y	
Göttgens	2015	Treatment of Crohn's disease-related high perianal fistulas combining the mucosa advancement flap with platelet-rich plasma: a pilot study.	Prospective cohort	Surgical	10	10	3		y		y	y
Molendijk	2015	Allogeneic Bone Marrow-Derived Mesenchymal Stromal Cells Promote Healing of Refractory Perianal Fistulas in Patients With Crohn's Disease.	Randomised clinical trial	Surgical	21	21	12	y	y	y	y	
Sirany	2015	The ligation of the intersphincteric fistula tract procedure for anal fistula: a mixed bag of results.	Systematic review	Surgical	683	15	4	y	y	y		
Su	2015	Use of antibiotics in patients with Crohn's disease: A systematic review and meta analysis	Systematic review and meta analysis	Surgical	1407	112	3	y	y			
Wiese	2015	Use of Endoscopic Ultrasound to Guide Adalimumab Treatment in Perianal Crohn's Disease Results in Faster Fistula Healing.	Prospective cohort (randomised)	Medical	20	20	4	y	y	y	y	y
Wu	2015	Meta-analysis of ciprofloxacin in treatment of Crohn's disease.	Meta analysis	Medical	293	112	2	y		y		
Yang	2015	Long-term outcome of infliximab combined with surgery for perianal fistulizing Crohn's disease	Prospective cohort	Medical	28	28	8		y		y	
Inamdar	2015	Smoking and Early Infliximab Response in Crohn's Disease: a Meta-analysis	Meta-analysis	Medical	1658	NR	6			y	y	
Jones	2015	Effects of Concomitant Immunomodulator Therapy on Efficacy and Safety of Anti-Tumour Necrosis Factor Therapy for Crohn's Disease: A Meta-analysis of Placebo-controlled Trials	Systematic review and meta analysis	Medical	1601	NR	5	y	y	y	y	y

deGroof	2016	Treatment of perianal fistulas in Crohn's disease: a systematic review and meta-analysis comparing seton drainage and anti-TNF treatment.	Systematic review and meta analysis	Combination	1754	1754	3	y		y		y
Nasseri	2016	The anal fistula plug in Crohn's disease patients with fistula-in-ano: a systematic review.	Systematic review	Surgical	84	84	3	y	y	y	y	
Senéjoux	2016	Fistula Plug in Fistulising Ano-Perineal Crohn's Disease: a Randomised Controlled Trial.	Randomised clinical trial	Surgical	106	54	6	y	y	y	y	

Supplementary file 5. Included studies