NZAGS 2022 ASM

A systematic review and network meta-analysis comparing treatments for chronic anal fissure

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Hanson UNASA, Melbourne MAUILIU-WALLIS, Andrew HILL





MEDICAL AND HEALTH SCIENCES

SCHOOL OF MEDICINE



Declaration of Interests

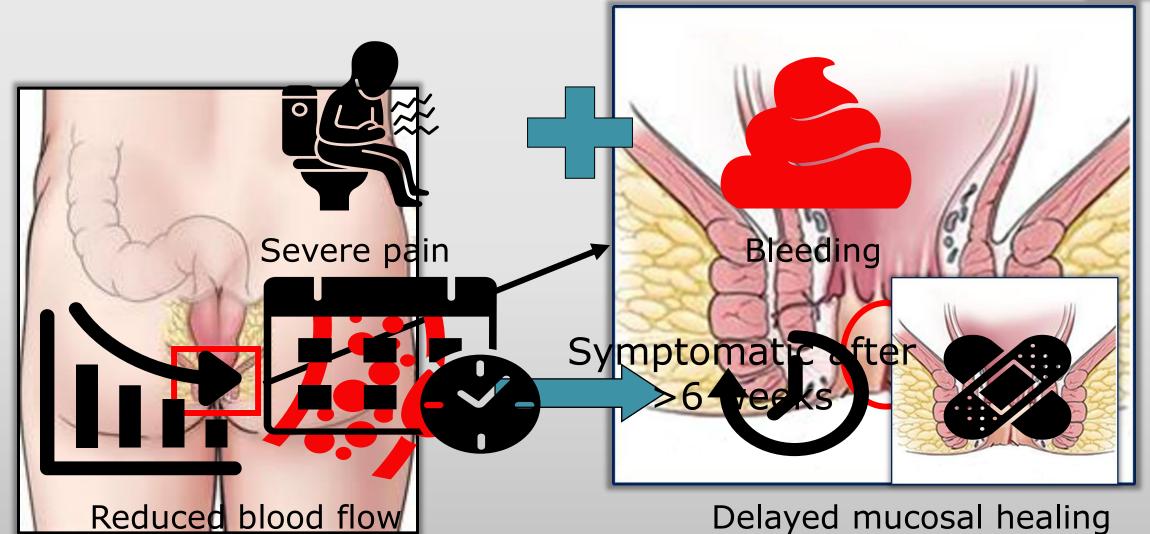


No conflicts of interest or personal disclosures



Chromia Wrias Firsure



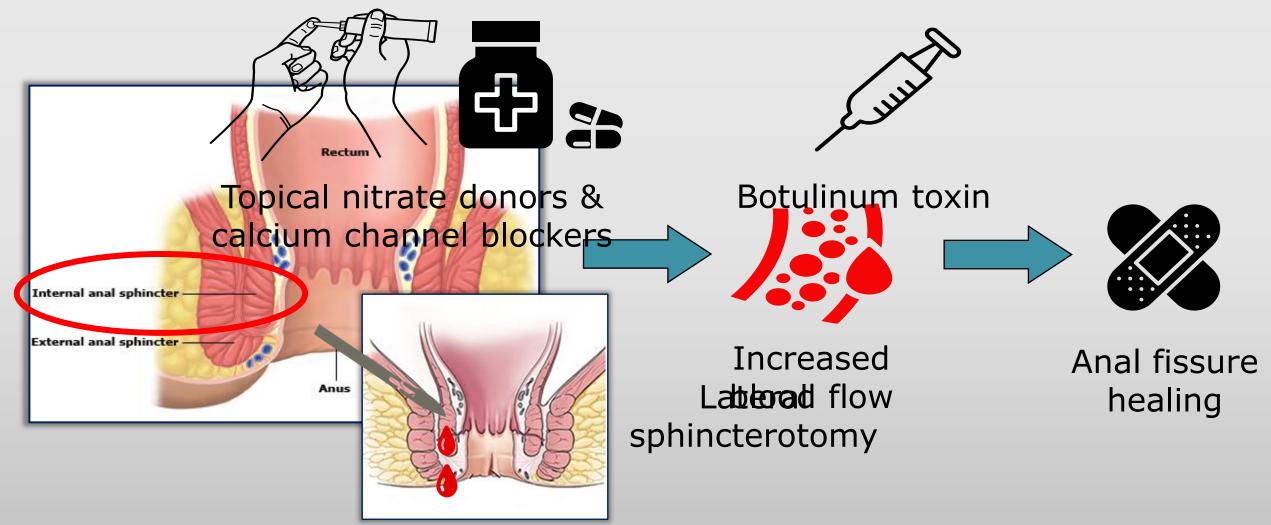






Treatment of Chronic Anal Fissure







Rationale



Tech Coloproctol (2014) 18:693–698 DOI 10.1007/s10151-014-1121-4

ORIGINAL ARTICLE

Botulinum toxin injection versus lateral internal spning rotom for chronic anal fissure: a meta-analysis of trials

H.-L. Chen · X.-B. Woo · H.-S. Wang · Y.-J. Lin · H.-X. Luo · Y.-H. Chen ·

C.-O. Chen · J.-S. Peng

Int J Colorectal Dis (2009) 24:995–1000 DOI 10.1007/s00384-009-0683-5

REVIEW

Systematic review and meta-analysis of randomized omparing botulinum toxin injection all sphincterotomy for chronic anal fissure

Zhi-Kun Zhang

Meta-Analysis doi:1/j.1463-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j.1461-1/j

Botulinum toxin vs glyceryltrinitrate for the incalcal management of chronic anal fissure: a me

M. S. Sajid*, B. Vijaynagar*, M. Desai*, E. Cheek† and M. K. Ba

*Department of Colorectal Surgery, Worthing Hospital, Worthing, West Sussex and †Department University of Brighton, Brighton, UK

Received 11 July 2007; accepted 3 August 2007

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doi:10.1111/codi.13969

Botumun. Ain injection *vs* topical nitrates for chronic anallissure: a lated systematic review and meta-analysis of rando and blled trials

M. Salusa and D. Beddy‡

rtment tional University of Ireland, Galway, Ireland, †Department of Colorectal Surgery, University Hospital arway, Galway, Ireland, and Department of Colorectal Surgery, Connolly Hospital, Blanchardstown, Ireland

Received 4 September 2017; accepted 6 November 2017; Accepted Article online 22 November 2017



Aims

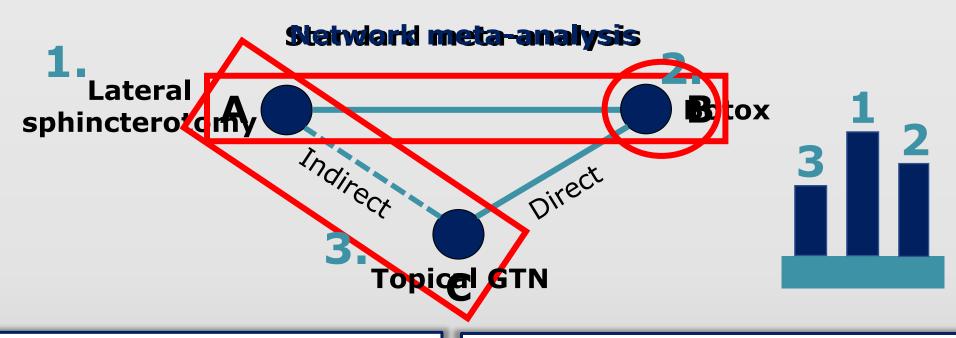


To evaluate the <u>relative efficacy and risk</u> of different treatments for chronic anal fissure



Methods





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ORIGINAL ARTICLE

Botulinum toxin injection versus lateral internal sphincterotomy for chronic anal fissure: a meta-analysis of randomized control trials

H.-L. Chen · X.-B. Woo · H.-S. Wang · Y.-J. Lin · H.-X. Luo · Y.-H. Chen · C.-Q. Chen · J.-S. Peng

Meta-Analysis

 $doi:10.1111/j.1463\text{-}1318.2007.01387.x}$

Botulinum toxin vs glyceryltrinitrate for the medical management of chronic anal fissure: a meta-analysis

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*Department of Colorectal Surgery, Worthing Hospital, Worthing, West Sussex and †Department of Computing Mathematical & Information Science, University of Brighton, Brighton, UK

Received 11 July 2007; accepted 3 August 2007





Methods: Search Strategy



January 1990



February 2021









("anal fissure" OR "fissure-in-ano") AND ("randomized controlled trial" OR "clinical trial")





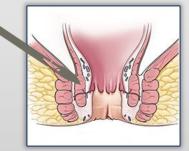
Methods: Study Selection







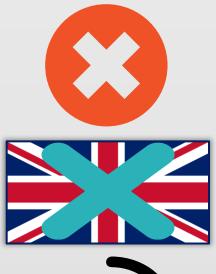
RCTs













Pre 1990



Variations in:

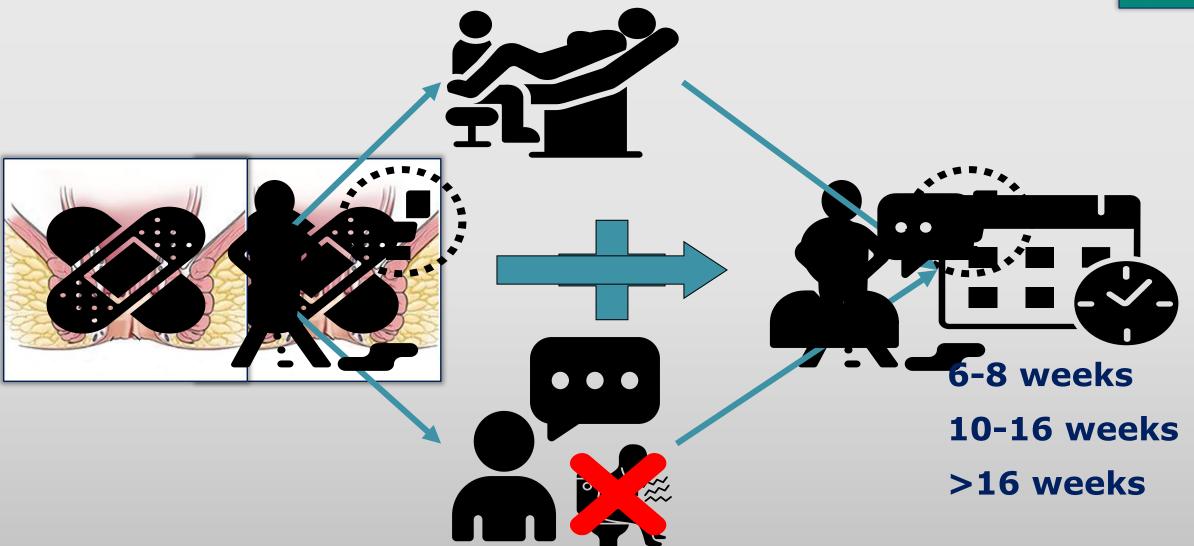
- Surgical Tx
- Medical Tx
- Botox doses





Methods: Outcome Measures



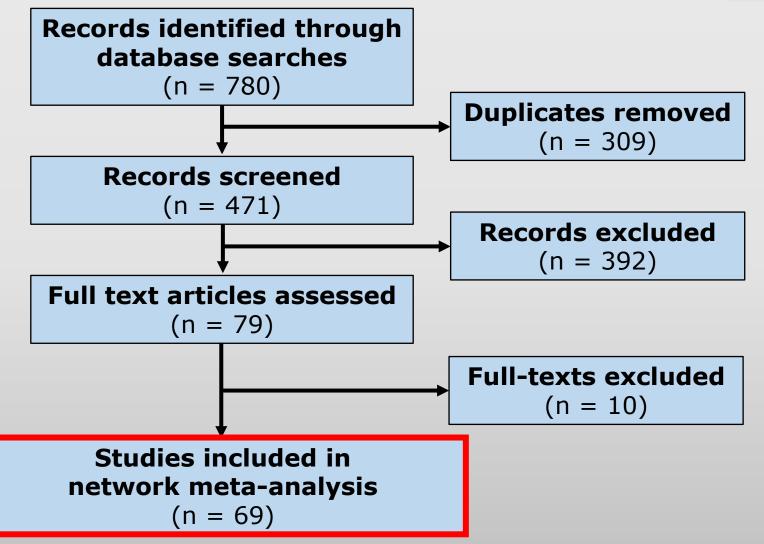






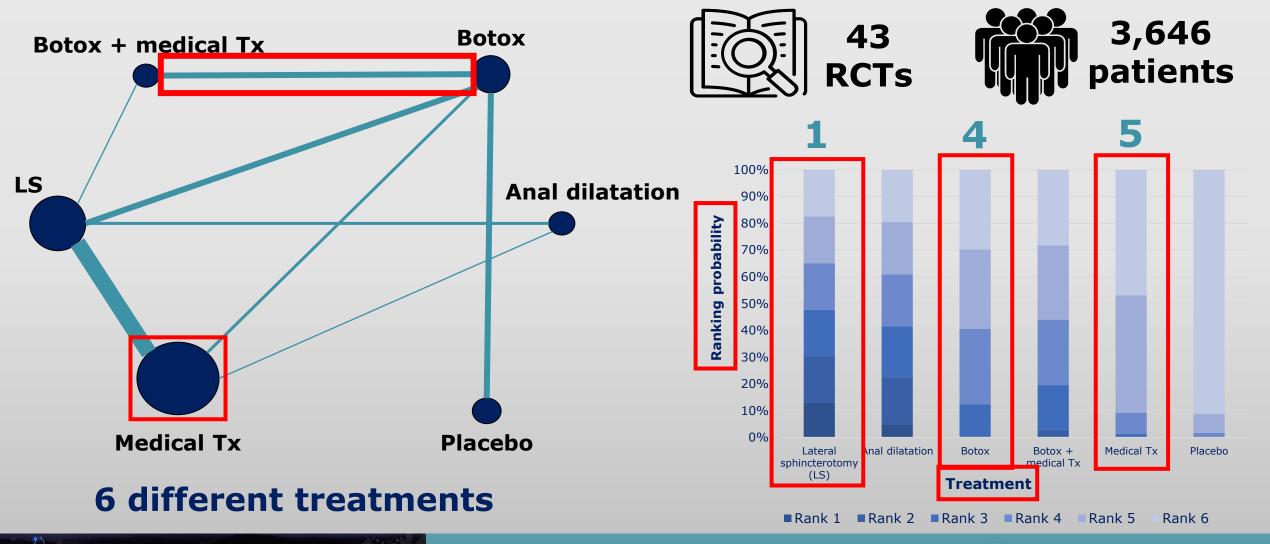
Results: Study Selection





Results: Healing (6-8 weeks)



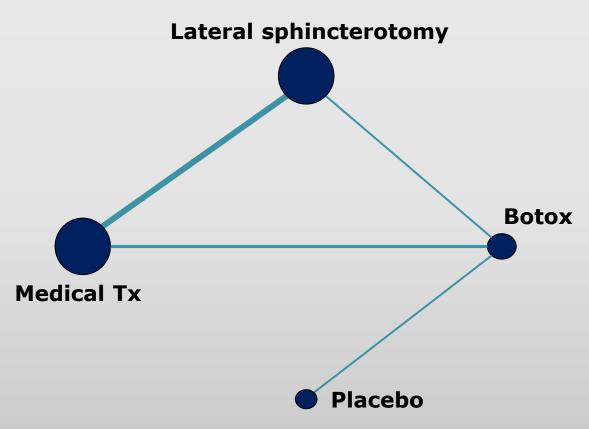






Results: Healing (10-16 weeks)





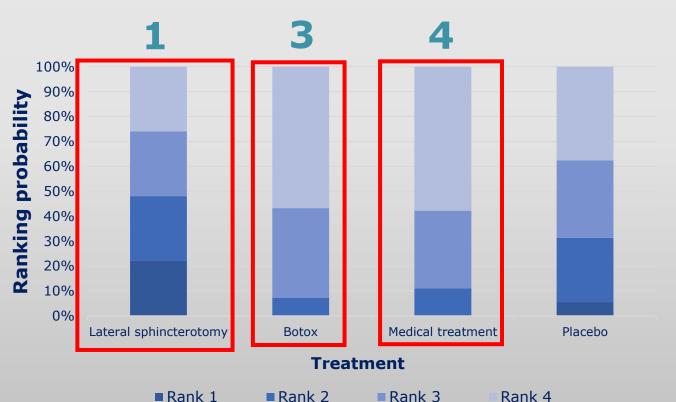




16 RCTs



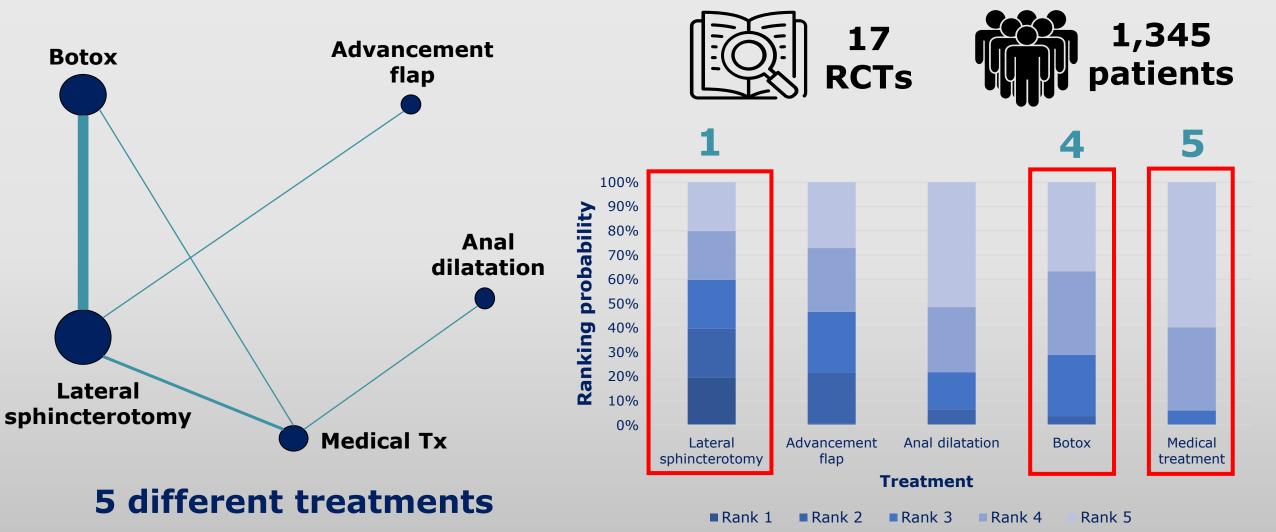
986 patients





Results: Healing (>16 weeks)



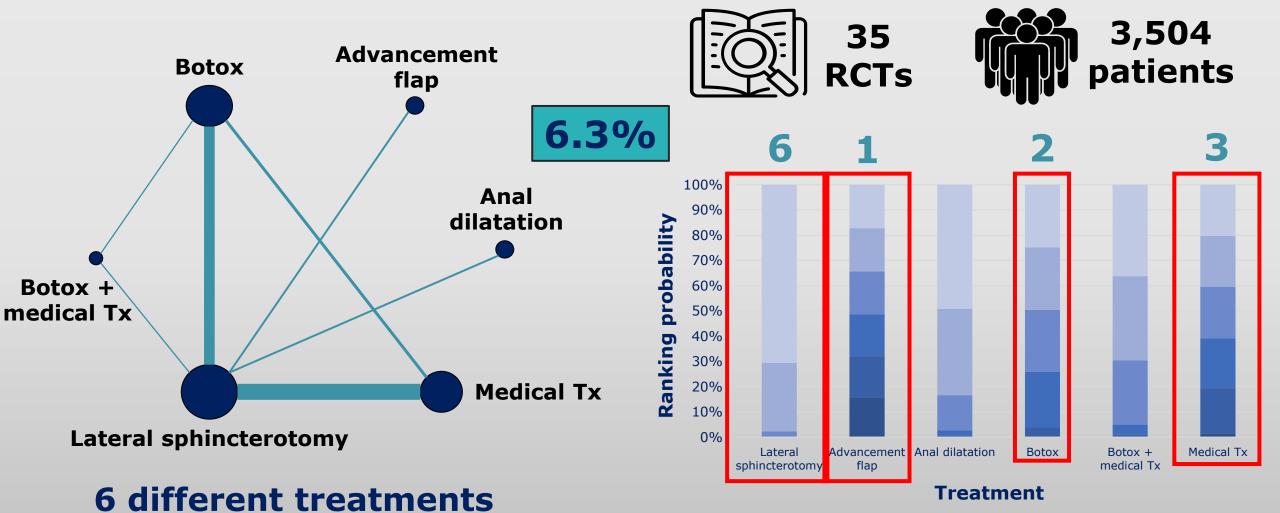






Results: Faecal Incontinence









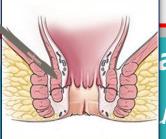
Rank 6

Rank 5

■ Rank 2 ■ Rank 3 ■ Rank 4

Conclusions





agents or botox should be used as first-line therapy for chronic are stress of their comparatively lower rates of faecal incontinence.

Definitive treatment with lateral sphincterotomy should only be considered

hen these initial therapies have failed to achieve healing.

incontinence amongst all treatments compared

CLINICAL PRACTICE GUIDELINES

Clinical Practice Guideline for the Management of Anal Fissures

David B. Stewart, Sr., M.D. • Wolfgang Gaertner, M.D. • Sean Glasgow, M.D. John Migaly, M.D. • Daniel Feingold, M.D. • Scott R. Steele, M.D.

Prepared on behalf of the Clinical Practice Guidelines Committee of the American Society of Colon and Rectal Surgeons





Original Article 🙃 Full Access

Treatment of anal fissure: a survey of surgical practice in Australia and New Zealand

J. Siddiqui, G. E. Fowler, A. Zahid, K. Brown, C. J. Young 🔀

First published: 09 November 2018 | https://doi.org/10.1111/codi.14466 | Citations: 5





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Colon/Rectum/Anus

A systematic review and network meta-analysis comparing treatments for anal fissure



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