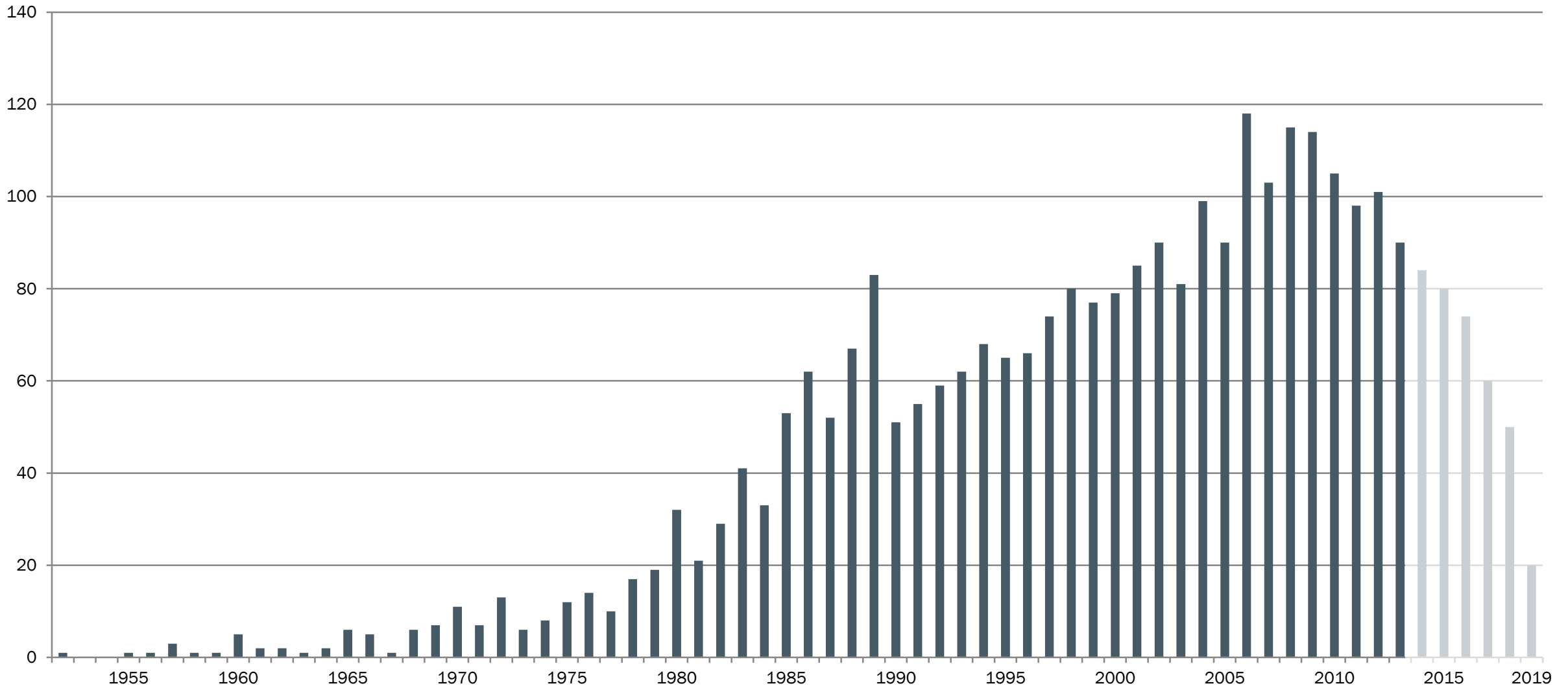


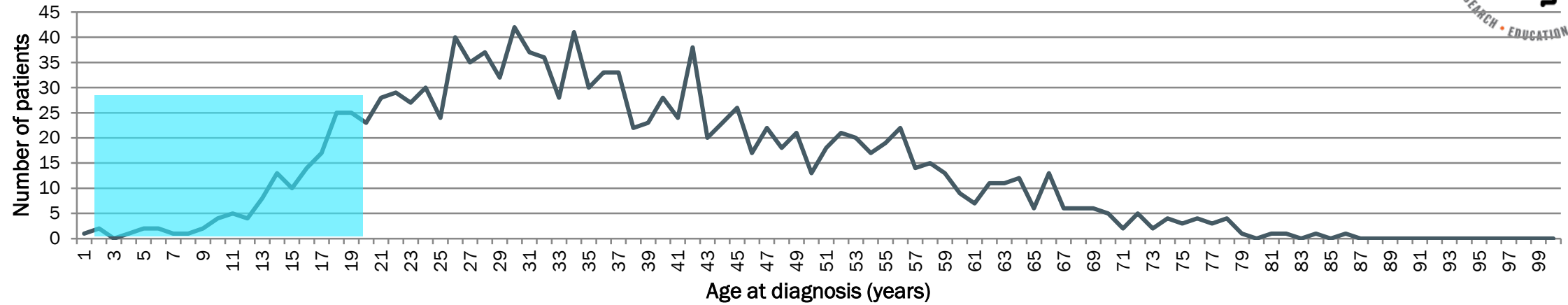
IBD Africa Registry Data from Cape Town, South Africa



New IBD Cases Diagnosed Annually From 5 Practices in Cape Town

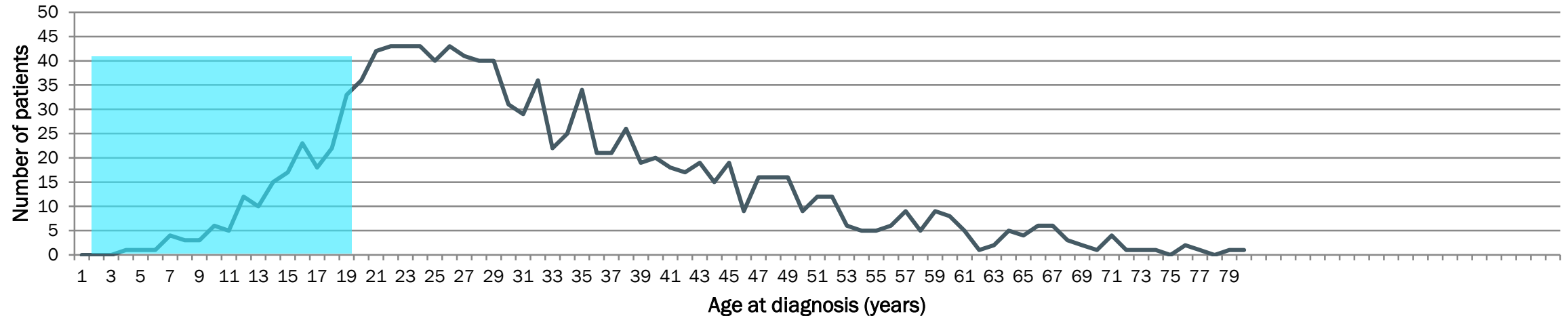


Ulcerative Colitis: Age at Diagnosis

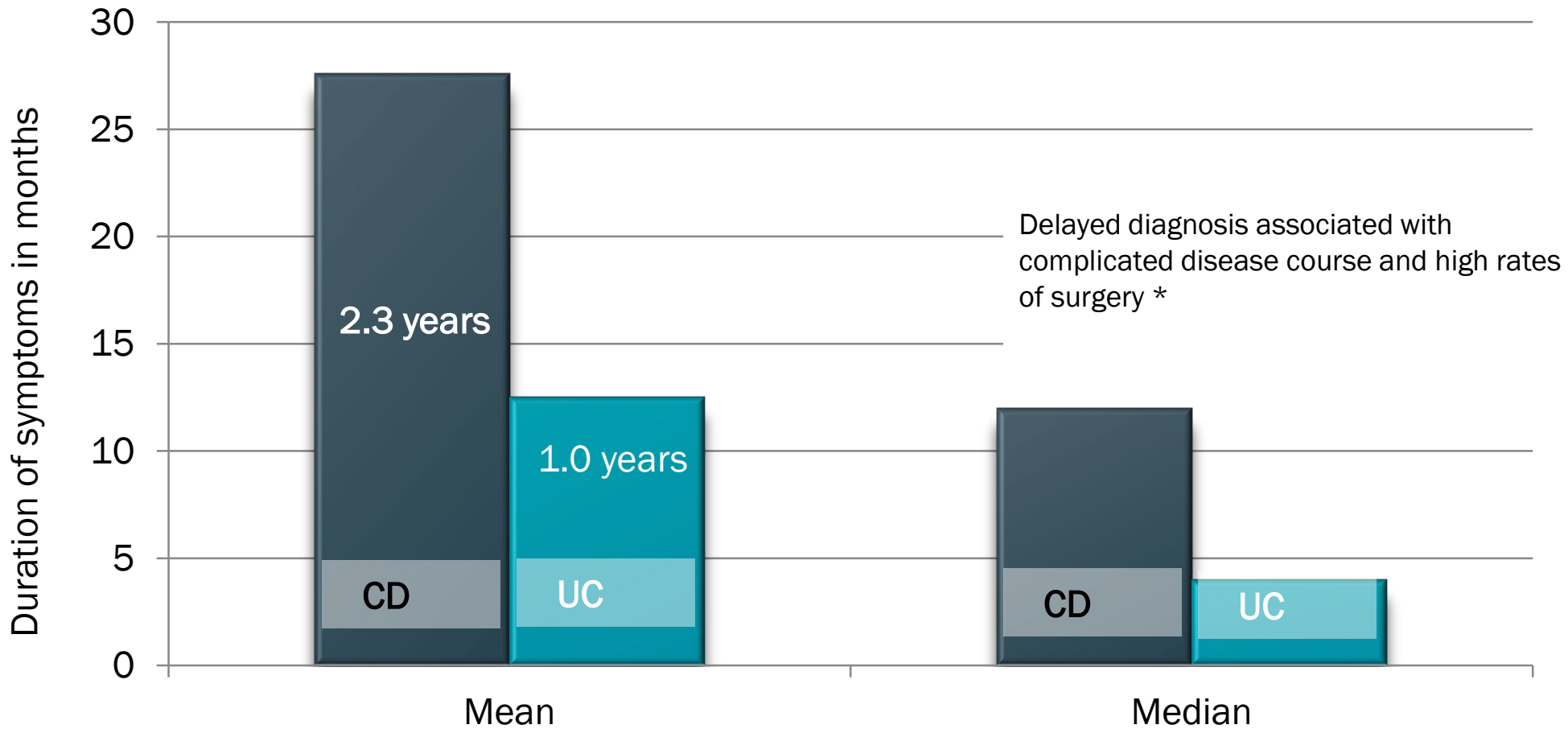


1 paediatric gastroenterologist per 2.8 million people

Crohn's Disease: Age at Diagnosis

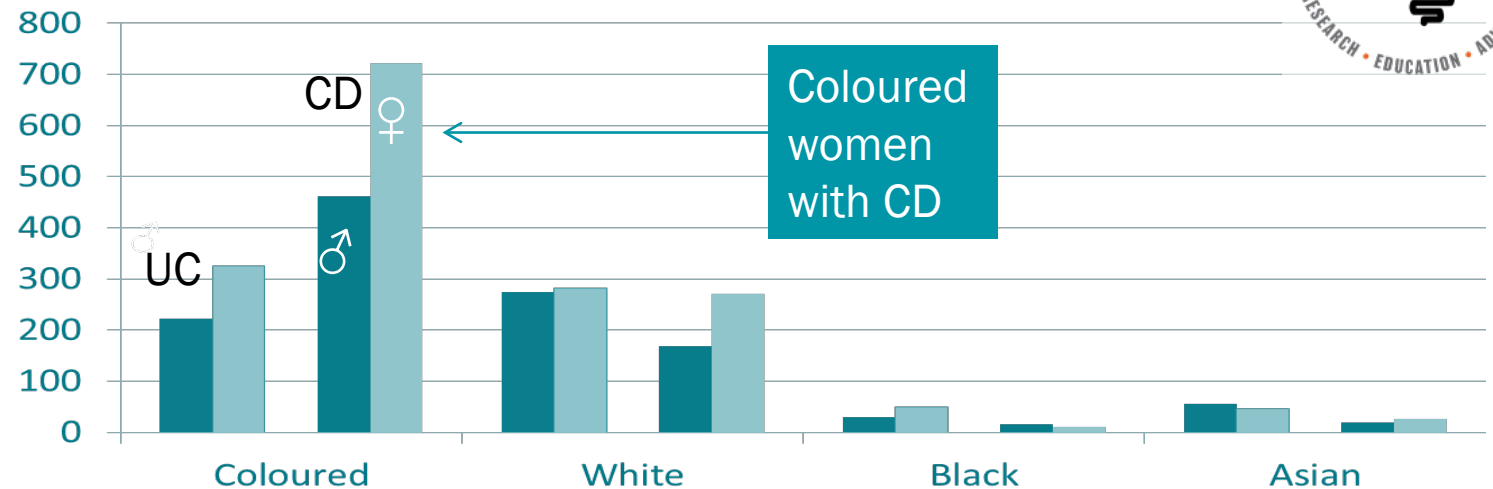


How long does it take to get diagnosed with IBD in Cape Town?



* Schoepfer et al Am J Gastroenterol 2013

IBD in Cape Town's Coloured Community



The term coloured is non-derogatory and refers to a heterogeneous ethnic group of which genome analysis has now identified four predominant genetic contributors:

- Khoesan 32-43%, isiXhosa 20-36%, European 21-28%, Asian 9-11% *

* De Wit, Delpont, Rugamika et al Human Genet 2010

42% of Cape Town's 3.7 million people are coloured

Analysis of the three common mutations in the CARD15 gene (R702W, G908R and 1007fs) in South African colored patients with inflammatory bowel disease

Zaahl MG, Winter T, Warnich L et al Mol Cell Probes. 2005 Aug;19(4):278-81.

No statistically significant differences were furthermore, observed for these mutations between UC and CD patients or when compared with normal control individuals

The Association between Race and Crohn's Disease Phenotype in the Western Cape Population of South Africa, Defined by the Montreal Classification System Basson et al PlosOne 2014

Cape Coloureds more likely to develop 'complicated' CD (60% vs. 9%, $p=0.023$) during the disease course when compared to white subjects

Smoking and IBD

- 1982: Negative association UC / Positive association CD

Mechanisms

- Immune system
- Gut (blood flow, motility, mucus, permeability)
- Platelet activation

Crohn's Disease

- associated with flares
- hospitalizations
- surgical procedures
- increased use of immunosuppressive drugs

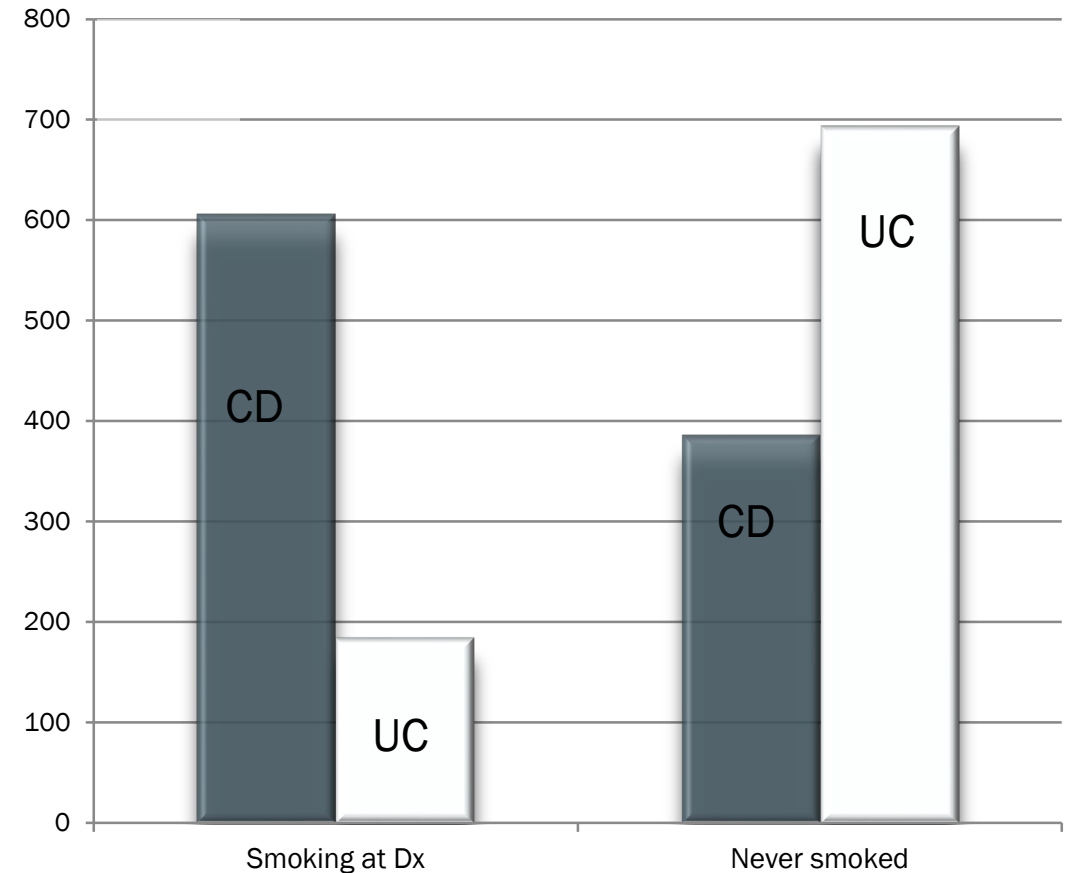
Ulcerative Colitis

- reduced corticosteroid utilization
- reduced risk for colectomy

Odes HS, Fich A, Reif S et al Dig Dis Sci 2001;46:1717-21
Thomas GAO, Rhodes J, Gren JT et al Postgrad Med J. 2000; 76: 273-9
Severs M, Mangen M-JJ, van der Valk ME et al J Crohn's Colitis 2017 342-

Smoking Status at Diagnosis: Crohn's vs UC

n = 2272 June 2019



IBD in South Africa: Access to biological therapy

Health Care Patient Access based on population affordability

