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Name of Journal: *World Journal of Gastrointestinal Pharmacology and Therapeutics***Manuscript NO:** 55669**Manuscript Type:** ORIGINAL ARTICLE*Retrospective Study***The role of telomere shortening in anticipation of inflammatory bowel disease**Truta B *et al.* Telomere and IBD

Brindusa Truta, Elizabeth Wohler, Nara Sobreira, Lisa Datta, Steven Brant

Abstract

AIM

To determine whether it was predictive of genetic anticipation, we evaluated telomere

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Author: Vasileios Kordinas, Anastasios Ioannidis, S...

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Telomere Diseases

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Mar 12, 2013 · **Telomere shortening**, along with various other endogenous and environmental factors, can drive cells into senescence, which is involved in the ...

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Dec 10, 2009 · The finding of short telomeres in colorectal cancer suggested that telomere loss contributes to tumorigenesis and genetic instability of the malignant cell. 55 Telomerase deficiency has been **detected in the histologically normal mucosa of patients with inflammatory bowel disease (cancer cells expressed high telomerase activity)**. 56 Losses of chromosomes in nondysplastic ...

[Syndromes of Telomere Shortening](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2818564)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2818564>

The anticipation occurs because of an **accumulation of short telomeres** across generations and highlights the role of telomere length, and not only telomerase mutations, in determining disease onset and severity (Figure 3) (5, 73). Mutations in hTERT and hTR can thus lead to diverse phenotypes where severity depends on which generation is examined.

Cited by: 334 **Author:** Mary Armanios

Publish Year: 2009

[Telomere Biology and Telomere Diseases: Implications for ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6380489)

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Telomerase deficiency has been reported in the histologically normal mucosa of inflammatory bowel disease. **Losses of chromosomes in nondysplastic tissue of ulcerative colitis patients** was correlated with telomere shortening and **associated with the appearance of anaphase bridges, especially in patients who progressed to cancer**. 26

Cited by: 66 **Author:** Neal S. Young

Publish Year: 2010

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What are the syndromes of telomere shortening? ▾

What is the role of telomeres in apoptosis? ▾

What is the effect of telomere shortening on stem cells? ▾