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H C Noel[1]

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- May 2017

DOI:10.5281/zenodo.580856

Authors:

Mazen alzo'ubi

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Minoxidil, hypercoagulability and thromboembolic disease of the lung

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Free PMC article

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In the Absence of Streptomycin, Minoxidil Potentiates the Mitogenic Effects of Fetal Calf Serum, Insulin-Like Growth Factor 1, and Platelet-Derived Growth Factor on NIH 3T3 Fibroblasts in a K^+ Channel-Dependent Fashion

Author links open overlay panelDeborah A. Sanders, Darren M. Thompson, Michael P. Philpott, Terence Kealey, Ian Fiddes [1], Gillian E. Westgate [2]

https://www.jaad.org/article/S0190-9622(12)01146-2/fulltext

Topical minoxidil treatment for congenital alopecia in hypohidrotic ectodermal dysplasia

- Hae-Eul Lee, MD
- In-Kyu Chang, MD
- Myung Im, MD
- Young-Joon Seo, MD
- Jeung-Hoon Lee, MD
- Young Lee, MD

DOI:https://doi.org/10.1016/j.jaad.2012.10.019

"Minoxidil has a mitogenic effect on epidermal cells" !!!

Suppression of fibroblast proliferation and lysyl hydroxylase activity by minoxidil.

by S Murad · 1987 · Cited by 98 — Studies with cells in culture have shown that minoxidil exerts a mitogenic effect on keratinocytes (6, 7) and an immunosup- pressive effect on lymphocytes ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7222831/#:~:text=Minoxidil%20is%20a%20cosmetic%20drug.possibility%20of%20perpetuating%20DNA%20damage.

Effect of High-Dose Topical Minoxidil on Erythrocyte Quality in SKH1 Hairless Mice

Eduardo Naranjo-Vázquez,[1,2] María Guadalupe Sánchez-Parada,[1] Belinda Claudia Gómez-Meda,[3] Ana Lourdes Zamora-Perez,[4] Martha Patricia Gallegos-Arreola,[5] Ana Elizabeth González-Santiago,[1] and Guillermo Moisés Zúñiga-González[2,*]

"Minoxidil is a cosmetic drug that is recognized as a mitogenic agent, and mitogens are suggested to have carcinogenic and mutagenic potential by inducing cell division and increasing the possibility of perpetuating DNA damage."

"In this work, excessive doses of a cosmetic drug for topical use in dermatological treatments, known as minoxidil, produced defects in the blood of hairless mice, particularly in red cells, indicating loss of DNA, a situation that may compromise life or the offspring by causing damage to their genetic material. It is important to consider that compounds may be tissue- or species-specific, although we cannot rule out the possibility that similar damage could occur in other animal species. Thus, excessive exposure to this compound should be prevented"

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"Minoxidil, at concentrations ranging from 500 to 1,000 microM., caused an increase in DNA synthesis, which was proportional to the initial degree of fibroblast activation. Concentrations higher than 1,000 microM. caused a cytotoxic effect"

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Toxicological assessment of minoxidil: A drug with therapeutic potential besides alopecia

Author links open overlay panelLismare da Silva Prado [a], Ivana Grivicich [b], Jessica Machado Miri [b], Mariele Feiffer Charão [c], Amanda Bonfada [c], Gabriela Endres da Rocha [c], Juliana Bondan da Silva [a], Fernanda Brião Menezes Boaretto [a], Ana Letícia Hilario Garcia [a d], Juliana da Silva [a d], Jaqueline Nascimento Picada [a]

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Suppression of fibroblast proliferation and lysyl hydroxylase activity by minoxidil

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Epidermal growth factor receptor (EGFR) in lung cancer: an overview and update

Gillian Bethune,[1] Drew Bethune,[2] Neale Ridgway,[3] and Zhaolin Xu[1]
Author information Article notes Copyright and License information
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3256436/
Case Reports

Pustular dermatosis of the scalp due to topical minoxidil 5

Ouiam El Anzi et al. Pan Afr Med J. 2018

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- Makedonski medicinski pregled. Revue médicale macedonienne 70(2)

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Minoxidil Toxicity and Febrile Illness in a Pediatric Patient,a Life-Threatening Combination

- I. Mukhtar, Fadel AlBasarah, +3 authors F. Khudair
- Published 9 October 2020
- Medicine
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The investigation of minoxidil-induced $[Ca^{2+}]_i$ rises and non-Ca^{2+}-triggered cell death in PC3 human prostate cancer cells

I-Shu Chen

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Chiang-Ting Chou

,
Yuan-Yuarn Liu
,
Chia-Cheng Yu
,
Wei-Zhe Liang
,
Chun-Chi Kuo
, show all
Pages 1-7 | Received 21 Aug 2015, Accepted 16 Nov 2015, Published online: 16 Jun 2016

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Skin and hair abnormalities of Cantu syndrome: A congenital hypertrichosis due to a genetic alteration mimicking the pharmacological effect of minoxidil

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Mathias B Forrester. Pediatr Emerg Care. 2018 Jun.

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Frontal Edema Due to Topical Application of %5 Minoxidil Solution Following Mesotherapy Injections

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ECG Changes During Long-term Minoxidil Therapy for Severe Hypertension

Donald Hall, MD; Fotis Charocopos, MD; Karl-Ludwig Froer, MD; et al
https://www.sciencedirect.com/science/article/abs/pii/S0190962203004225

Pseudoacromegaly induced by the long-term use of minoxidil☆,☆☆

Author links open overlay panelKari H. Nguyen MD, James G. Marks Jr MD

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Suppression of fibroblast proliferation and lysyl hydroxylase activity by minoxidil.

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Minoxidil Downregulates Interleukin-1 Alpha Gene Expression in HaCaT Cells

Erkin Pekmezci, Murat Turkoğlu,[1] Hilal Gökalp,[2] and Zekayi Kutlubay[3]

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ROGAINE EXTRA STRENGTH (FOR MEN) Reviews

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Short-term minoxidil use associated with pericardial effusion and cardiac tamponade: an uncommon presentation

Krishna K Pasala et al. Am J Ther. 2012 Nov.

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Minoxidil Topical Solution

An Unsafe Product for Children

Claudet, Isabelle MD, MSc*; Cortey, Caroline MD*; Honorat, Raphaele MD*; Franchitto, Nicolas MD, PhD†

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Author links open overlay panelSheldon R. Pinnell MD, Saood Murad PhD

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Minoxidil

Oral minoxidil is a potent agent which has significant side effects including pericardial effusion leading to tamponade and angina pectoris.
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Could Topical Minoxidil Cause Non-Arteritic Anterior Ischemic Optic Neuropathy?

Habibullah Aktas,[1] Sevil Alan,[2] Elif Betül Türkoglu,[3] and Özge Sevik[4]

מכניזם
השפעת המינוקסידיל על הקרטינוציטים שמסבירה את הריבאונד בנסיגה מהתרופה

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Effect of Minoxidil on Cultured Keratinocytes

Author links open overlay panelHoward
P. Baden M.D., Joseph Kubilus Ph.D.

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A Comparative Study of Minoxidil-Induced Myocardial Lesions in Beagle Dogs and Miniature Swine'"
EUGENE H. HERMAN,2 VICTOR J. FERRANS,3 ROBERT S. K. YOUNG

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Minoxidil, hypercoagulability and thromboembolic disease of the lung

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Pericardial, pleural effusion and anasarca: A rare complication of low-dose oral minoxidil for hair loss

מכניזם:

https://www.mdpi.com/1422-0067/19/3/691?fbclid=IwAR3P9Sws67lbetwqyXPURlu5plmvYxvykbaTF98TQla58jjy2h9URazGCSc**Minoxidil Promotes Hair Growth through Stimulation of Growth Factor Release from Adipose-Derived Stem Cells**

https://www.jrpp.net/article.asp?issn=2319-9644;year=2018;volume=7;issue=4;spage=210;epage=212;aulast=Gheshlaghi

Unstable angina: A rare presentation of minoxidil intoxication: A case report and literature review

Farzad Gheshlaghi

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Severe toxicity from ingestion of a topical minoxidil preparation☆

Author links open overlay panelMary A. McCormick

https://ejournal2.undip.ac.id/index.php/jbtr/article/view/11681/0

Diagnostic Value of Vascular Endothelial Growth Factor C (VEGF-C) and CA 15-3 in Breast Cancer

Ajeng Kurnia Wardhani

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Direct Effects of Minoxidil on Epidermal Cells in Culture

Author links open overlay panelRhonna L.

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Minoxidil-Associated Exudative Pleural Effusion Atif Siddiqui

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Side effects of low-dose oral minoxidil for

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Minoxidil-induced lung disease, masquerading as hypersensitivity pneumonitis

Daisuke Takekosh et al. Respir Med Case Rep. 2023.

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LETTERS| SEPTEMBER 29 2000

Leucoderma Associated with the Use of Topical Minoxidil: A Report of Two Cases

Subject Area: Dermatology , Immunology and Allergy

Subrata Malakar;

Sandipan Dhar

https://pubmed.ncbi.nlm.nih.gov/7353909/

Pericardial effusion associated with minoxidil therapy in dialyzed patients

A Zarate,

https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/minoxidil?fbclid=IwAR0J9hD28Rk3-JQ3e_JRMptGnStLi8wdlYYugd4qzS7cPE1jqyAA-HLgQek#:~:text=Sodium%20and%20water%20retention%20occur,lack%20of%20an%20antihypertensive%20effect

Minoxidil

Oral minoxidil is a potent agent which has significant side effects including pericardial effusion leading to tamponade and angina pectoris.
From: Drugs for the Geriatric Patient, 2007

מכניזם אנטי אנדרוגני
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039155/

Minoxidil may suppress androgen receptor-related functions

Cheng-Lung Hsu,[1]

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Comparative effects of finasteride and minoxidil on the male reproductive organs: A systematic review of in vitro and in vivo evidence

Francielle de Fátima Viana Santana et al. Toxicol Appl Pharmacol. 2023.

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Could Topical Minoxidil Cause Non-Arteritic Anterior Ischemic Optic Neuropathy?

Habibullah Aktas

https://bmcophthalmol.biomedcentral.com/articles/10.1186/s12886-020-01499-6

Minoxidil induced central serous Chorioretinopathy treated with oral Eplerenone – a case report

- Ramesh Venkatesh

מכניזם אנטי אנדרוגני נוסף
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Minoxidil Acts as an Antiandrogen: A Study of 5α-reductase Type 2 Gene Expression in a Human Keratinocyte Cell Line

Erkin Pekmezci

מכניזם
https://www.mdpi.com/1422-0067/19/3/691

Minoxidil Promotes Hair Growth through Stimulation of Growth Factor Release from Adipose-Derived Stem Cells

by



Nahyun Cho

פציעה מתמשכת לאחר הפסקת השימוש
https://rxisk.org/post-minoxidil-syndrome/

Post Minoxidil Syndrome

https://academic.oup.com/bjd/article-abstract/138/3/407/6682880?redirectedFrom=PDF

Minoxidil upregulates the expression of vascular endothelial growth factor in human hair dermal papilla cells

Get access

S. Lachgar, M. Charveron, Y. Gall, J.L. Bonafe

גידולים אדרנוקורטיקלים ו VEGF
https://pubmed.ncbi.nlm.nih.gov/26475302/

Role of Endocrine Gland-Derived Vascular Endothelial Growth Factor (EG-VEGF) and Its Receptors in Adrenocortical Tumors

Dorothee Heck

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Minoxidil and cardiac enlargement

D S Svahn

https://www.cureus.com/articles/48654-a-case-of-contact-allergic-dermatitis-to-topical-minoxidil#!/

A Case of Contact Allergic Dermatitis to Topical Minoxidil

פגיעה בלב

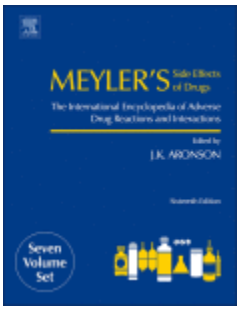
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Minoxidil-associated pericarditis and fatal cardiac tamponade

J M Krehlik

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2016, Pages 1053-1056



Minoxidil

Available online 21 October 2015, Version of Record 21 October 2015.

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Retinal artery occlusion as a probable idiosyncratic reaction to topical minoxidil: a case report

- Ramesh Venkatesh

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fbclid=IwAR32c5iWn8iFrnSN1NSfHFp2y7XAz47ni4Vq5l3bXSJrGgFs54O8D0nULN0#:~:text=Minoxidil%2C%20a%20common%20hair%20growth,topically%20to%20stimulate%20hair%20growth

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Minoxidil Induction of VEGF Is Mediated by Inhibition of HIF-Prolyl Hydroxylase

Soohwan Yum,

VEGF And extracellular matrix degradation
https://www.sciencedirect.com/topics/neuroscience/vascular-endothelial-growth-factor

Vascular Endothelial Growth Factor

Vascular endothelial growth factor (VEGF) is an angiogenic factor that regulates angiogenesis by inducing proliferation, migration and permeability of endothelial cells.
From: Cardiac Regeneration and Repair, 2014

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VEGF-A in Cardiomyocytes and Heart Diseases

Mariantonia Braile

VEGF And Eyes
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Vascular endothelial growth factors and angiogenesis in eye disease

A N Witmer

מאגר

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E Novak,

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Nitric oxide-dependent vasodilation induced by minoxidil in isolated rat aorta
Soo Hee Lee et al. Gen Physiol Biophys. 2021 May.
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Pathogenesis of cardiovascular alterations in dogs treated with minoxidil

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2 Reddit (social media) links of sufferers of post Minoxidil syndrome sharing their injuries at WITHDRAWAL

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Side effects of low-dose oral minoxidil for treating alopecia

- Renée A.

How to detect Katp gain of function

https://iask.ai/?mode=question&q=Katp+gain+of+function+detection+method

Look for the answers in this AI platform. These answers for these questions are very important and may explain the persistent injuries (and even the temporary).
https://iask.ai/?mode=question&q=can+minoxidil+cause+cell+metabolic+dependency+%3F

Metabolic arrest lead into genotoxicity

https://iask.ai/?mode=question&q=can+metabolic+dependency+of+cells+lead+into+genotoxicity