Ivermectin and COVID-19 - many studies



- Interview concerning Ivermectin: Dr. Campbell April 2025
- Why It's Important Everyone Should Have Ivermectin Handy Nov 2024
- 4-year history of (political) suppression of Ivermectin's ability to fight COVID (which continues) Sept 2024
 - 66 REFERENCES
- Ivermectin vs Paxlavoid by FLCCC Spring 2024
- c19ivermectin.com
- 10+ VitaminDWiki pages have IVERMECTIN in the title
- Ivermectin raises levels of vitamin D (by decreasing CYP3A4) 6 studies
- Compare Ivermectin and vitamin D
- Mikki Willis, Pierre Kory The War on Ivermectin 12-minute video Dec 2023
- The War on Ivermectin (an overview) May 2023
- Australia had banned Invermectin use for COVID in Sept 2021, Reconsidering in Sept 2022
 - Australia again ALLOWS Ivermectin to be used for any health problem April 2023
- Ivermectin substantially reduced COVID infection, hospitalization, death (India)- Sept 2022
- Ivermectin shows 'antiviral effect' against COVID (RCT- Japan) Jan 31, 2022
- Hypothesis: Ivermectin works by improving the gut microbiome Dec 2022
- A series of 4 blog posts on Ivermectin including censorship Feb-March 2022
- Some Ivermectin Videos
- <u>Dr. Campbell pointed out the new Pfizer drug and Ivermectin work in the same way Nov 2021 video was removed from Facebook</u>
- Ivermectin COVID-19 effectivity 86%, meta-analysis Aug 2021
- Weekly Ivermectin prevents COVID-19 Feb 2021
- Goa (1.8 million, India) to give Ivermectin every 5 days to all residents May 11, 2021
- 1 cent of Ivermectin decreased risk of COVID-19 by half (India healthcare workers) Feb 2021
- Ivermectin RCT in Israel: 2.6X more likely for outpatient infection to go away preprint May 2021
- Ivermectin reduced COVID-19 deaths in Peru by 14X March 19, 2021
- Top Yale Doctor/Researcher: 'Ivermectin works,' including for long-haul COVID March 22, 2021
- <u>Ivermectin Long-COVID</u>

- Ivermectin reduced Vaccination Injury Jan 2024
- NOT Using Ivermectin Is Unethical And Immoral Jan 2021
- 7X less morbidity in those African countries using Ivermectin March 26, 2021
- Countries using prophylactic chemotherapy with Ivermectin have far fewer COVID-19 infections Jan 2021
- Mercola Jan 25, 2021
- NIH is no longer opposed to the use of Ivermectin Jan 20, 2021
- Doctors Ask Arizona Gov to Facilitate COVID-19 Treatment with Ivermectin Jan 26, 2021
- <u>Ivermectin protocol and experiences</u>
- Use of Ivermectin did not change COVID-19 outcomes meta-analysis Jan 29, 2021
- Covid-19: Ivermectin's politicization is a warning sign for doctors turning to orphan treatments
- The Drug that Cracked Covid Ivermectin May 2021
- Review of Evidence: Ivermectin helps May 2021
- Ivermectin helped in Mexico City May 2021
- Bird = British Ivermectin Recomendation Development
- Additional groups trying to get Invermetin allowed/used
- Ivermectin DID NOT decrease COVID-19 severity RCT March 2021
- The Scientific Misconduct Story Behind Ivermectin Mercola Jan 2022
- The Global Disinformation Campaign Against Ivermectin The "Blitz"
- ---- Ivermectin, other than COVID
 - There have been 261630 visits to this page

Interview concerning Ivermectin: Dr. Campbell - April 2025

YouTube 65 minutes

The video features Professor Colleen Aldis from the University of Kwazulu Natal, South Africa, discussing her recent paper on ivermectin use for COVID-19, specifically for patients with hypoxemia (low blood oxygen levels).

Key points discussed include:

- 1. The research applied **Bradford Hill criteria** (established in 1965) to evaluate causality between ivermectin treatment and improved oxygen levels in COVID-19 patients.
- 2. Prof. Aldis became interested in ivermectin in late 2020 when South African pharmaceutical agencies warned against its use despite its established safety profile.
- 3. Three clinical studies were analyzed: Dr. Jackie Stone (Zimbabwe), Dr. Sabine Hazan (US), and Dr. Babalola (Nigeria), all showing rapid improvement in oxygen saturation after ivermectin treatment compared to control groups.
- 4. The highest doses of ivermectin (used by Stone and Hazan) showed the most dramatic improvement, demonstrating a dose-response relationship.
- 5. Mechanistic evidence shows ivermectin works through multiple pathways: inhibiting viral replication (as a zinc ionophore), (note: Zinc fighting COVID 39 studies) reducing inflammation during cytokine storms, and most critically, removing spike proteins from red blood cells to prevent micro-clotting in the lungs.
- 6. Timing matters: early treatment with lower doses prevents disease progression, while higher doses are needed later to address thrombosis (clotting) when patients are already hypoxic.
- 7. The research demonstrates "coherence" consistency between laboratory findings, clinical observations, and community-level outcomes supporting ivermectin's effectiveness.
- 8. Studies showing negative results typically used short treatment regimens (3 days), low doses, late administration after symptom onset, or involved low-risk patients who wouldn't have been hospitalized anyway.
- 9. The researchers criticize rigid adherence to p-value thresholds (0.05) for determining efficacy, arguing that for pandemic treatments, a higher threshold (0.2) may be appropriate when considering life-saving interventions.

10. For future pandemics, they propose prioritizing treatments that are: cheap, readily available, safe, have plausible mechanisms of action, and are backed by evidence, even before randomized controlled trials are completed.

Why It's Important Everyone Should Have Ivermectin Handy - Nov 2024

Substack includes:

- "The med has won a Nobel Prize for its safety and efficacy."
- US: 1 year of Ivermectin zero deaths, 1 year of Tylenol 164 deaths
- Ivermectin will be protective for 3.5 days.
- "Early Treatment (if infected with anything, bacterial, viral, whatever) 0.4 mg/kg daily. Continue use up to a few days after symptoms subside. Symptoms might subside in just a few hours."

4-year history of (political) suppression of Ivermectin's ability to fight COVID (which continues) - Sept 2024

TrialSiteNews

which references

Guest Editorial Negative Evidence: Repurposed Drugs for COVID-19: the Partisan Bone of Contention. Part II

Journal of American Physicians and Surgeons Volume 29 Number 3 Fall 2024

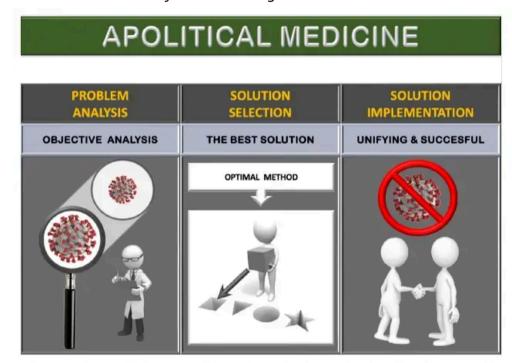


Figure 1. Apolitical medicine. Credit: Info Healer. Reproduced with permission.

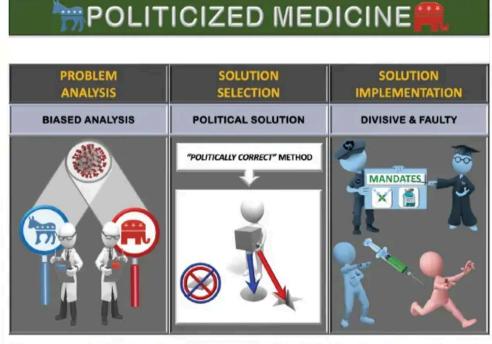


Figure 2. Politicized medicine. Credit: InfoHealer. Reproduced with permission.

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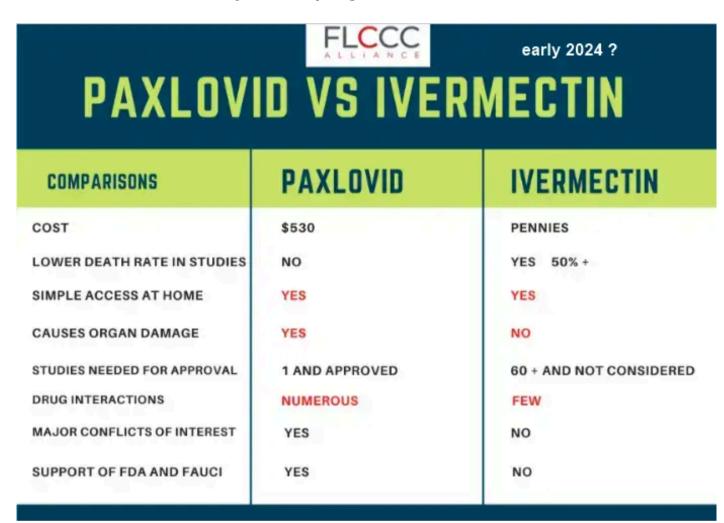
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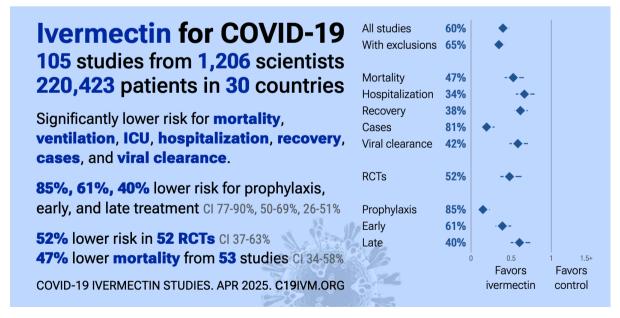
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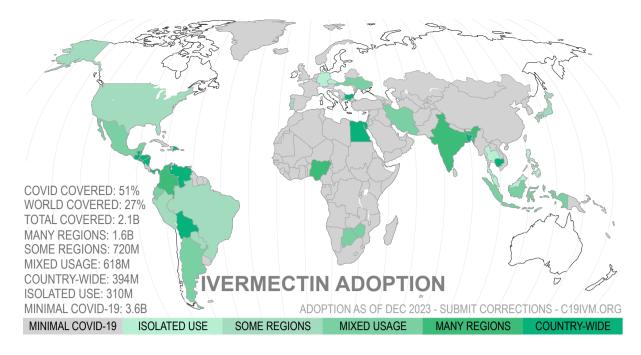
Ivermectin vs Paxlavoid - by FLCCC Spring 2024



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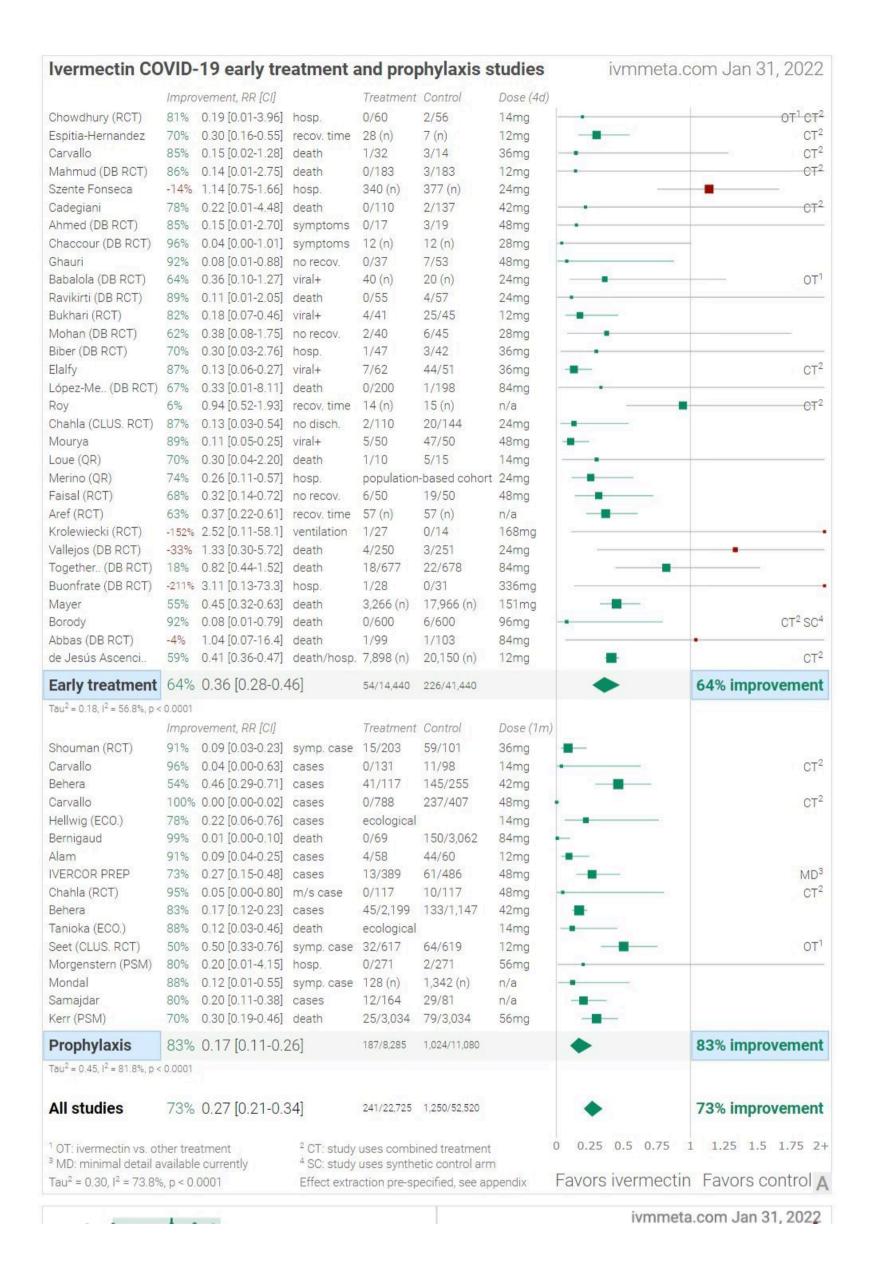
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CHAIRMAN OF TOKYO MEDICAL ASSOCIATION TELLS DOCTORS TO PRESCRIBE IVERMECTIN FOR COVID TREATMENT - 90 second video, Aug 26, 2021



10+ VitaminDWiki pages have IVERMECTIN in the title

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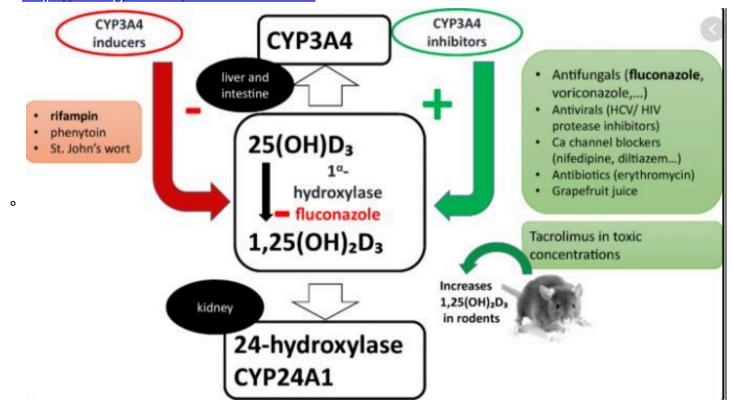
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Al Ranks Ivermectin the best Drug to Fight Metastatic Cancer - Jan 2025	14 Jan, 2025
Ivermectin and COVID-19 - many studies	06 Sep, 2024
COVID 20X lower death rate in nursing homes if early Ivermectin etc. (Columbia) - April 2024	22 Арг, 2024

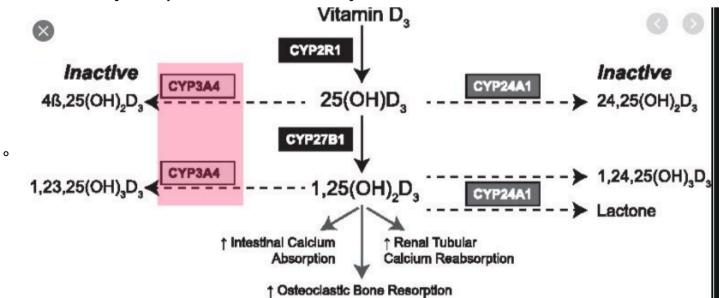
Title	Modified
Red blood cell clumping (Hemagglutination) - by COVID and vaccination (Ivermectin helps) - Dec 2023	28 Dec, 2023
Those taking Ivermectin for COVID were 3X less likely to die (1,000 people, 18 months) – March 2022	07 Mar, 2022
Ivermectin taken before COVID decreased death rate by 68 percent (3,000 with Ivermectin vs 3,000 without) - Dec 24, 2021	10 Jan, 2022
Ivermectin can now be prescribed in Nebraska for COVID-19 - Oct 15, 2021	31 Oct, 2021
Long-haul, VAERS, Ivermectin, vaccines, etc. Drs. Seheult, Patrick: Video with table of contents - Sept 17, 2021	20 Sep, 2021
Vitamin D levels massively changed by CYP3A4 gene (drugs such as Ivermectin and anti-epileptics)	26 Jul, 2021
Ivermectin reduced COVID-19 deaths in Peru by 14X, after new president halted it, the death rate increased 13X – March 18, 2021	25 Mar, 2021
Low-cost Ivermectin and Vitamin D fight COVID-19 – Marik video 1 hr – Feb 18, 2021	26 Feb, 2021

Ivermectin raises levels of vitamin D (by decreasing CYP3A4) - 6 studies

- 1. Interplay between Vitamin D and the Drug Metabolizing Enzyme CYP3A4 2014 PDF
- 2. Identification of cytochrome P4503A4 as the major enzyme responsible for the metabolism of ivermectin by human liver microsomes
 - Xenobiotica, . 1998 Mar;28(3):313-21. doi: 10.1080/004982598239597
- 3. Metabolism and interactions of Ivermectin with human cytochrome P450 enzymes and drug transporters, possible adverse and toxic effects March 2021 PDF
- 4. Drug-metabolizing enzymes CYP3A as a link between tacrolimus and vitamin D in renal transplant recipients: is it relevant in clinical practice? July 2019 https://doi.org/10.1007/s00467-018-4030-3



5. CYP3A4 Induction by Rifampin: An Alternative Pathway for Vitamin D Inactivation in Patients With CYP24A1 Mutations -2017 [[FREE PDF]



6. Vitamin D levels massively changed by CYP3A4 gene (drugs such as Ivermectin and anti-epileptics)

Note: Ivermectin treats river blindness, which is also treated by Vitamin D

	Ivermectin	Vitamin D
Dosing for Prevention	weekly	weekly
Availability for humans	Prescription And over-the-counter	Over-the-Counter
Form	Oral	Oral, topical, etc
COVID-19 phase Prevent, treat, long-haul	All phases	Prevent - Great Early treat - Good Late treat - poor Long-haul possibly
Allowed for COVID-19	In some places	in some places
Safe: # of doses given in 50 years	> 3 billion	> 3 billion
Able to deal with virus that has mutated	Yes	Yes
Fight more than just COVID-19	unsure	Proven 90+ health problems

Both are heavily supported by both observations and clinical trials

Not clear which is best

Note: Ivermectin raises vitamin D levels/ (see 6 studies further down this page)

Mikki Willis, Pierre Kory - The War on Ivermectin - 12-minute video Dec 2023

Rumble

The War on Ivermectin (an overview) - May 2023

Dr. Malone Substack

Australia had banned Invermectin use for COVID in Sept 2021, Reconsidering in Sept 2022

<u>URL</u>

Australia again ALLOWS Ivermectin to be used for any health problem - April 2023

Ivermectin substantially reduced COVID infection, hospitalization, death (India)- Sept 2022

Regular Use of Ivermectin as Prophylaxis for COVID-19 Led Up to a 92% Reduction in COVID-19 Mortality Rate in a Dose-Response Manner: Results of a Prospective Observational Study of a Strictly Controlled Population of 88,012 Subjects

Cureus 14(8): e28624. DOI 10.7759/cureus.28624

Background

We have previously demonstrated that ivermectin used as prophylaxis for coronavirus disease 2019 (COVID- 19), irrespective of the regularity, in a strictly controlled citywide program in Southern Brazil (Itajai, Brazil), was associated with reductions in COVID-19 infection, hospitalization, and mortality rates. In this study, our objective was to determine if the regular use of ivermectin impacted the level of protection from COVID- 19 and related outcomes, reinforcing the efficacy of ivermectin through the demonstration of a dose- response effect.

Methods

This exploratory analysis of a prospective observational study involved a program that used ivermectin at a dose of 0.2 mg/kg/day for two consecutive days, every 15 days, for 150 days. Regularity definitions were as follows: regular users had 180 mg or more of ivermectin and irregular users had up to 60 mg, in total,

throughout the program. Comparisons were made between non-users (subjects who did not use ivermectin), and regular and irregular users after multivariate adjustments. The full city database was used to calculate and compare COVID-19 infection and the risk of dying from COVID-19. The COVID-19 database was used and propensity score matching (PSM) was employed for hospitalization and mortality rates.

Results

Among 223,128 subjects from the city of Itajai, 159,560 were 18 years old or up and were not infected by COVID-19 until July 7, 2020, from which 45,716 (28.7%) did not use and 113,844 (71.3%) used ivermectin. Among ivermectin users, 33,971 (29.8%) used irregularly (up to 60 mg) and 8,325 (7.3%) used regularly (more than 180 mg). The remaining 71,548 participants were not included in the analysis. COVID-19 infection rate was 49% lower for regular users (3.40%) than non-users (6.64%) (risk rate (RR): 0.51; 95% CI: 0.45-0.58; p < 0.0001), and 25% lower than irregular users (4.54%) (RR: 0.75; 95% CI: 0.66-0.85; p < 0.0001). The infection rate was 32% lower for irregular users than non-users (RR: 0.68; 95% CI: 0.64-0.73; p < 0.0001). Among COVID-19 participants, regular users were older and had a higher prevalence of type 2 diabetes and hypertension than irregular and non-users. After PSM, the matched analysis contained 283 subjects in each group of non-users and regular users, between regular users and irregular users, and 1,542 subjects between non-users and irregular users. The hospitalization rate was reduced by 100% in regular users compared to both irregular users and non-users (p < 0.0001), and by 29% among irregular users compared to non-users (RR: 0.781; 95% CI: 0.49-1.05; p = 0.099). Mortality rate was 92% lower in regular users than non-users (RR: 0.08; 95% CI: 0.02-0.35; p = 0.0008) and 84% lower than irregular users (RR: 0.16; 95% CI: 0.04-0.71; p = 0.016), while irregular users had a 37% lower mortality rate reduction than non-users (RR: 0.67; 95% CI: 0.04-0.77; p = 0.006), and 72% lower than irregular users (RR: 0.28; 95% CI: 0.07-1.18; p = 0.083), while irregular users had a 51% reduction compared to non-users (RR: 0.49; 95% CI: 0.32-0.76; p = 0.001).

Conclusion

Non-use of ivermectin was associated with a 12.5-fold increase in mortality rate and a seven-fold increased risk of dying from COVID-19 compared to the regular use of ivermectin. This dose-response efficacy reinforces the prophylactic effects of ivermectin against COVID-19.

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Ivermectin shows 'antiviral effect' against COVID (RCT- Japan) Jan 31, 2022

<u>Ivermectin shows 'antiviral effect' against COVID, Japanese company says</u> Reuters

<u>Apparently Kowa Co. Ltd. 1000 patient Phase 3 clinical trial</u> TrialSiteNews Jan 31 no details were given

Hypothesis: Ivermectin works by improving the gut microbiome - Dec 2022

Trial Site News Dec 15

• suggest heightened levels of Bifidobacterium may reduce not only inflammation levels but also TNF- α function thus contributing to "calming the cytokine storm of SARS-CoV-2 infection."

See also

- Microbiome-Based Hypothesis on Ivermectin's Mechanism in COVID-19 July 2022 https://doi.org/10.3389/fmicb.2022.952321 FREE PDF
- Different gut microbial communities correlate with efficacy of albendazole-ivermectin against soil-transmitted helminthiases RCT Feb 2022 https://doi.org/10.1038/s41467-022-28658-1 FREE PDF
- Ivermectin (IVM) Possible Side Activities and Implications in Antimicrobial Resistance and Animal Welfare: The Authors' Perspective Jan 2022 https://doi.org/10.3390/vetsci9010024 FREE PDF

A series of 4 blog posts on Ivermectin - including censorship Feb-March 2022

1) Ivermectin Part 1: The Very Unusual Paper

2)

Ivermectin Part 2: A Very Unusual Business

3) Ivermectin Part 3: The People Behind the Curtain

(3.1)Part 1: An Unacknowledged Influence

- 3.2)Part 2: The Conflicts of Interest of those who discredited Ivermectin
- 3.3)Part 3: Who is Andrew Owen?

Some Ivermectin Videos

- History of Ivermectin Dec 2021 10-minute video followed by discussion
 - found in soil bacteria, became top-selling drug for Veterinarians
 - Approved for humans in 1987, 4 billion doses so far,
 - single annual dose stopped river blindness, 2015 Nobel prize,
- Dr. Pierre Kory, Ivermectin, and COVID (Let's help end the pandemic.) Feb 25. 2 hours, the same interviewer
- Covid, Ivermectin and the Crime of the Century Kory June 1, 2021?
 - The first 5 minutes appear to be blank
- Dr. Campbell asks why Ivermectin is not being considered video, Israel RCT June 15, 2021
 - Includes overview of recent successful Randomized Clinical Trial in Israel
 - 2.6X better reduction in viral load than placebo
- Those taking Ivermectin for COVID were 3X less likely to die (1,000 people, 18 months) March 2022 Campbell Video March 6
- 32 Ivermectin and COVID-19 questions answered Video May 31, 2021Mobeen Syed 22 minutes

Dr. Campbell pointed out the new Pfizer drug and Ivermectin work in the same way Nov 2021 - video was removed from Facebook

New Pfizer drug and ivermectin Nov 9, 2021

Alternative facts Nov 11, 2021

Facebook of his video was removed after journalists review. NOT a peer review

Ivermectin COVID-19 effectivity 86%, meta-analysis Aug 2021

Ivermectin for Prevention and Treatment of COVID-19 Infection: A Systematic Review, Meta-analysis, and Trial Sequential Analysis to Inform Clinical Guidelines

Download the PDF from VitaminDWiki

One of the authors routinely has made reviews of drugs for WHO, but WHO refused to look at Ivermectin

Sept 2021 video interview of the author, Theresa Lawrie

Weekly Ivermectin prevents COVID-19 - Feb 2021

Is ivermectin ready to be part of a public health policy for COVID-19 prophylaxis?

Download the PDF from VitaminDWiki

Similar to weekly vitamin D dosing, which provides far more benefits

Goa (1.8 million, India) to give Ivermectin every 5 days to all residents - May 11, 2021

Forbes

- "...12 mg of Ivermectin for a period of five days as prophylaxis to protect against Covid-19"
- "...Goa—one of India's smallest states by population—has witnessed a recent surge in Covid-19 cases and on Tuesday it reported 3,124 new cases and 75 fatalities on Tuesday evening."

1 cent of Ivermectin decreased risk of COVID-19 by half (India healthcare workers) - Feb 2021

Role of ivermectin in the prevention of SARS-CoV-2 infection among healthcare workers in India: A matched case-control study

Download the PDF from VitaminDWiki

Video by Dr. john Cambell on the study - May 6, 2021

Ivermectin RCT in Israel: 2.6X more likely for outpatient infection to go away - preprint May 2021

Favorable outcome on viral load and culture viability using Ivermectin in early treatment of non-hospitalized patients with mild COVID-19 – A double-blind, randomized placebo-controlled trial

doi: https://doi.org/10.1101/2021.05.31.21258081

Background Ivermectin, an anti-parasitic agent, also has anti-viral properties. Our aim was to assess whether ivermectin can shorten the viral shedding in patients at an early-stage of COVID-19 infection.

Methods The double-blinded trial compared patients receiving ivermectin 0·2 mg/kg for 3 days vs. placebo in non-hospitalized COVID-19 patients. RT-PCR from a nasopharyngeal swab was obtained at recruitment and then every two days. Primary endpoint was reduction of viral-load on the 6th day (third day after termination of treatment) as reflected by Ct level>30 (non-infectious level). The primary outcome was supported by determination of viral culture viability.

Results Eighty-nine patients were eligible (47 in ivermectin and 42 in placebo arm). Their median age was 35 years. Females accounted for 21.6%, and 16.8% were asymptomatic at recruitment. Median time from symptom onset was 4 days. There were no statistical differences in these parameters between the two groups.

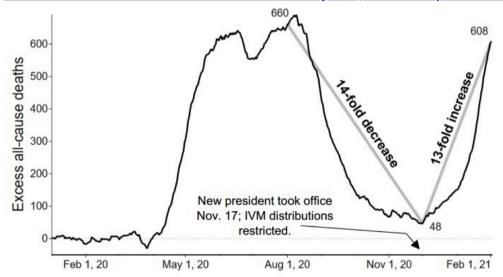
On day 6, 34 out of 47 (72%) patients in the ivermectin arm reached the endpoint, compared to 21/42 (50%) in the placebo arm (OR 2.62; 95% CI: 1.09-6.31). In a multivariable logistic-regression model, the odds of a negative test at day 6 was 2.62 time higher in the ivermectin group (95% CI: 1.06-6.45). Cultures at days 2 to 6 were positive in 3/23 (13.0%) of ivermectin samples vs. 14/29 (48.2%) in the placebo group (p=0.008).

Conclusions There were significantly lower viral loads and viable cultures in the ivermectin group, which could lead to shortening isolation time in these patients.

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Ivermectin reduced COVID-19 deaths in Peru by 14X - March 19, 2021

Ivermectin reduced COVID-19 deaths in Peru by 14X, after new president halted it, the death rate increased 13X - March 18, 2021



Top Yale Doctor/Researcher: 'Ivermectin works,' including for long-haul COVID - March 22, 2021

Top Yale Doctor/Researcher: 'Ivermectin works,' including for long-haul COVID TrialSiteNews

Prevention, treatment, and long-haul

""When you have people that can't breathe for five, six, eight, nine months and they tried multiple drugs and supplements with no success, and you give them ivermectin," Dr. Santin said of long-haul patients, "and you see that they start immediately feeling better, this is not placebo. This is real."

Ivermectin - Long-COVID

- IVERMECTIN IN LONG-COVID PATIENTS A RETROSPECTIVE STUDY Feb 2021
 - Download the PDF from VitaminDWiki
- Several Facebook pages > 1,000 Long-haul using Ivermectin at each page
- Protocol of treating long-haul with Ivermetin Mercola July 2021
 - I-RECOVER a long-term management protocol for long-haul syndrome

Campbell and Robert Clancy - 58 minute video

sSeems to decrease clotting ==> increase oxygen update

00:00:00 - Intro

00:00:01 - New medical findings on post-vaccine syndrome

00:05:59 - treatment for low oxygen saturation

00:12:22 - Patient case study, symptoms, improvement.

00:18:33 - In silico drug screening, ivermectin, spike protein

00:24:18 - Pain mechanisms, fatigue illness, autonomic disorder

00:30:36 – Iva, mechanism and treatment

00:36:52 - Repurposed drugs, virus replication, drug mechanisms

00:42:45 - Testing hypotheses, gut microbiome, immune resilience

00:48:41 - Stopped hydroxychlorin, treatment, patient experiences.

NOT Using Ivermectin Is Unethical And Immoral - Jan 2021

Not Using Ivermectin, One Year In, Is Unethical And Immoral TrialSiteNews

The family pushed to have Ivermectin given to the 80-year old woman in ICU

She got so much benefit that she left the ICU 48 hours later

The non-ICU portion of the hospital refused to continue the Ivermectin

The family had to sue the hospital, and the judge forced the hospital to continue the Ivermectin

She was released to a rehabilitation facility soon after

7X less morbidity in those African countries using Ivermectin - March 26, 2021

Why COVID-19 is not so spread in Africa: How does Ivermectin affect it?

Preprint - doi: https://doi.org/10.1101/2021.03.26.21254377

Download the PDF from VitaminDWiki

Africa and COVID 32 countries using Ivermecti have 7X less morbidity		Non-Ivermectin (n=22) Mean ± SD	P-value
Average life expectancy	60.7 ± 4.8	66.4 ± 7.3	.002
Morbidity per Million	926.4 ± 926.2	6473.5 ± 7090.6	.001
Mortality per Million	14.4 ± 13.2	121.9 ± 161.2	.002

Background: Scientists have so far been unable to determine the reason for the low number of COVID-19 cases in Africa.

Objective: To evaluate the impact of ivermectin interventions for onchocerciasis on the morbidity, mortality, recovery, and fatality rates caused by COVID-19.

Method: A retrospective statistical analysis study of the impact of ivermectin against COVID-19 between the 31 onchocerciasis-endemic countries using the community-directed treatment with ivermectin (CDTI) and the non-endemic 22 countries in Africa. The morbidity, mortality, recovery rate, and fatality rate caused by COVID-19 were calculated from the WHO situation report in Africa. We investigated the onchocerciasis endemic 31 countries and the non-endemic 22 countries. Statistical comparisons used by the Welch test of them in the two groups were made.

Results: The morbidity and mortality were statistically significantly less in the 31 countries using CDTI. The recovery and fatality rates were not statistically significant difference. The average life expectancy was statistically significantly higher in the non-endemic countries.

Conclusions: The morbidity and mortality in the onchocerciasis endemic countries are lesser than those in the non-endemic ones. The community-directed onchocerciasis treatment with ivermectin is the most reasonable explanation for the decrease in morbidity and fatality rate in Africa. In areas where ivermectin is distributed to and used by the entire population, it leads to a significant reduction in mortality.

Countries using prophylactic chemotherapy with Ivermectin have far fewer COVID-19 infections - Jan 2021

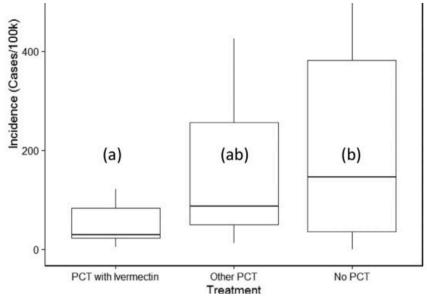
A COVID-19 prophylaxis? Lower incidence associated with prophylactic administration of ivermectin

Int J Antimicrob Agents. 2021 Jan;57(1):106248. doi: 10.1016/j.ijantimicag.2020.106248.

Martin D Hellwig 1, Anabela Maia 2

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COVID-19 incidence worldwide



Another chart shows similar reduction for African countries

As COVID-19 (coronavirus disease 2019) continues to rapidly spread throughout the world, the incidence varies greatly among different countries. These differences raise the question whether nations with a lower incidence share any medical commonalities that could be used not only to explain that lower incidence but also to provide guidance for potential treatments elsewhere. Such a treatment would be particularly valuable if it could be used as a prophylactic against SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) transmission, thereby effectively slowing the spread of the disease while we await the wide availability of safe and effective vaccines.

Here, we show that countries with routine mass drug administration of prophylactic chemotherapy including ivermectin have a significantly lower incidence of COVID-19. Prophylactic use of ivermectin against parasitic infections is most common in Africa and we hence show that the reported correlation is highly significant both when compared among African nations as well as in a worldwide context. We surmise that this may be connected to ivermectin's ability to inhibit SARS-CoV-2 replication, which likely leads to lower infection rates. However, other pathways must exist to explain the persistence of such an inhibitory effect after serum levels of ivermectin have declined. It is suggested that ivermectin be evaluated for potential off-label prophylactic use in certain cases to help bridge the time until a safe and effective vaccine becomes available.

Mercola Jan 25, 2021

Mercola

- "The data shows the ability of the drug Ivermectin to prevent COVID-19, to keep those with early symptoms from progressing to the hyper-inflammatory phase of the disease, and even to help critically ill patients recover. FLCCC Alliance" FLCCC = Frontline COVID-19 Critical Care Alliance
- "Like hydroxychloroquine, ivermectin is an **antiparasitic drug** with a well-documented safety profile and "proven, highly potent, antiviral and anti-inflammatory properties." 12 It's been on the market since 1981 and is on the World Health Organization's list of essential medicines. It's also inexpensive, with a treatment course costing less than \$2 in countries such as India and Bangladesh"
- FLCCC Press release Jan 7
- FLCCC Clinical summary

NIH is no longer opposed to the use of Ivermectin - Jan 20, 2021

"The National Institutes of Health (NIH) has dropped its recommendation against the inexpensive antiparasitic drug ivermectin for treatment of COVID-19, and the agency now advises it can't recommend for or against its use, leaving the decision to physicians and their patients."

https://www.medscape.com/viewarticle/944440

Doctors Ask Arizona Gov to Facilitate COVID-19 Treatment with Ivermectin - Jan 26, 2021

<u>Arizona chapter of American Physicians and Surgeons</u>

Ivermectin protocol and experiences

Use of Ivermectin did not change COVID-19 outcomes - meta-analysis Jan 29, 2021

Outcomes of Ivermectin in the treatment of COVID-19: a systematic review and metaanalysis

№ of participants		Certainty of the		Anticipated absolute effects	
Outcomes	(studies) Follow up	udies) evidence Relativ	Relative effect (95% CI)	Risk with [Standar care]	Risk difference with [Ivermectin]
Mortality assessed with: RR	3607 (5 observational studies)	⊕222 VERY LOW	RR 0.70 (0.31 to 2.28)	154 per 1,000	46 fewer per 1,000 (106 fewer to 197 more)
Recovery assessed with: RR	397 (3 observational studies)	⊕222 VERY LOW	RR 1.37 (0.61 to 3.07)	857 per 1,000	317 more per 1,000 (334 fewer to 1,773 more)

^{*}The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

CI: Confidence interval; RR: Risk ratio

GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect lies close to that of the estimate of the effect

Moderate certainty: We are moderately confident in the effect estimate: The true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different

Study	TE seTE	Log Risk Ratio	logRR
Soto 2020 Cepelowicz 2020 Gorial 2020 Khan 2020 Rajter 2020	1.75 0.1365 0.85 1.5257 0.60 0.2457 0.13 1.0464 0.54 0.3144	-	1.75 - 0.85 0.60 0.13 0.54
Random effects mod Heterogeneity: $I^2 = 85\%$	ρ , $\tau^2 = 0.5290$, $\rho < 0.01$	-2 -1 0 1 2 3	0.89

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Covid-19: Ivermectin's politicization is a warning sign for doctors turning to orphan treatments

British Medical Journal April 1. 2021

Doctors are not permitted to use a drug that has been successfully used over a billion times for other health problems Interesting that US doctors are permitted to use other drugs for off-label health problems,

but not for this particular health problem, for which tens of billions of dollars have been invested (vaccines)

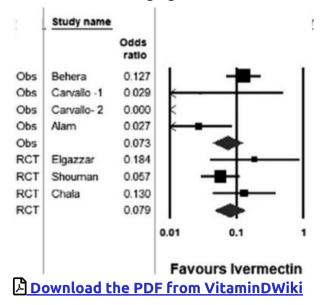
lots to be gained by promoting vaccines, but virtually no one will gain by promoting potential pre-existing solutions

The Drug that Cracked Covid - Ivermectin May 2021

Download the PDF from VitaminDWiki

Review of Evidence: Ivermectin helps - May 2021

Review of the Emerging Evidence Demonstrating the Efficacy of Ivermectin in the Prophylaxis and Treatment of COVID-19



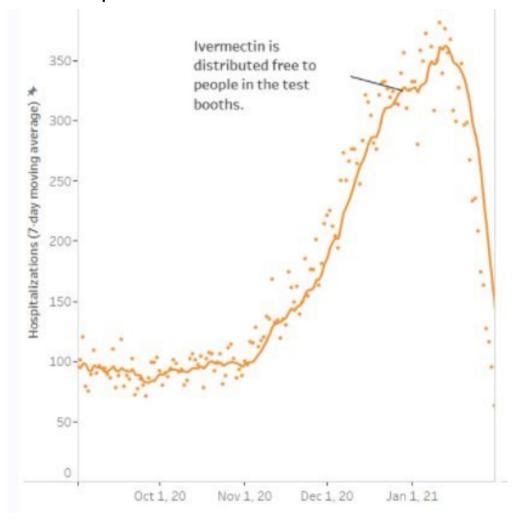
Ivermectin helped in Mexico City - May 2021

• Mexico City Wide Innovative Population-Level Study Administers Ivermectin-based Home Kits with Drastic Reduction in Hospitalizations May 8, 2021

Gave Ivermectin (several pills) to those with symptoms (but not in the hospital)

"The Mexico City study team generated compelling results in that they reduced the pressures on hospital system by 52% to 76% depending on a number of factors."

COVID-19 hospitalizations



Bird = British Ivermectin Recomendation Development

https://bird-group.org/

Started after watching FLCCC presentation to US senate in Dec 2020

BIRD hosted the first International Ivermectin for Covid Conference in May 2021 <u>closing video</u>

Additional groups trying to get Invermetin allowed/used

FLCCC Alliance,

World Doctors Alliance,

Médicos pela Vida Brazil),

Long Covid-19 Foundation (UK),

Covid Medical Network Australia,

https://ivmmeta.com/

https://www.e-bmc.co.uk/ strongly associated with BIRD

Ivermectin DID NOT decrease COVID-19 severity - RCT March 2021

Effect of Ivermectin on Time to Resolution of Symptoms Among Adults With Mild COVID-19 - A Randomized Clinical Trial

ivermectin, 300 μg/kg of body weight per day for 5 days

with mild disease and symptoms for **7 days or fewer** (at home **or hospitalized**)

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The Scientific Misconduct Story Behind Ivermectin - Mercola Jan 2022

Download the PDF from VitaminDWiki

Associated 9 minute Video

The Global Disinformation Campaign Against Ivermectin - The "Blitz"

Pierre Kory substack Nov 7, 2022

which is in The disinformation playbook problems of US healthcare – Grant 2025, 2017

---- Ivermectin, other than COVID

- Ivermectin used to fight Scabies TrialSite news Aug 2022
 - ""Our research shows MDA could reduce the prevalence of scabies by 90 percent after just one treatment, which could have a huge impact on children in the region."
 - Previous trial for 130,000 Fijians. was very successful, now using it for everyone
 - A mass drug administration (MDA) has been funded for all of the **Solomon Islands**
 - WebMD on Scabies

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The original document is available at https://vitamindwiki.com/lvermectin+and+COVID-19+-+many+studies

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