

Exhibit 281

192 Ivermectin COVID studies

142 peer reviewed

<https://c19ivm.org/>

192 ivermectin COVID-19 studies, 142 peer reviewed, 93 comparing treatment and control groups. Recent: [Sobrinho](#) [Naggie](#) [de la Rocha](#) [Boschi](#) [De Forni](#) [Ochoa-Jaramillo](#) [PRINCIPLE](#). [ACTIV-6](#) [TOGETHER](#) [PRINCIPLE](#) [COVID-OUT](#). Ivermectin was [adopted](#) for early treatment in all or part of 22 countries (39 including non-government medical organizations). [Submit updates/corrections](#).

Ivermectin

All

- Dec 19** *Covid Analysis (Preprint) (met...* [Ivermectin for COVID-19: real-time meta analysis of 93 studies \(ivmmeta\)](#)
Statistically significant improvements are seen for mortality, ventilation, ICU admission, hospitalization, r...
- Dec 15** *Naggie et al., medRxiv, doi:10....* [Effect of Ivermectin 600 mcg/kg for 6 days vs Placebo on Time to Sustai...](#)
Results for the 600µg/kg arm of ACTIV-6. See [Naggie].
- Nov 28** *Boschi et al., bioRxiv, doi:10.1...* [SARS-CoV-2 Spike Protein Induces Hemagglutination: Implications for C...](#)
In Vitro study showing that ivermectin blocked hemagglutination (clumping of red blood cells) when add...
- Nov 10** *De Forni et al., PLoS ONE, doi:...* [Synergistic drug combinations designed to fully suppress SARS-CoV-2 i...](#)
Vero E6 *In Vitro* study showing ivermectin and remdesivir to be highly synergistic with 6-13 times lower ...
- Oct 27** *Naggie et al., JAMA, doi:10.10...* [Effect of Ivermectin vs Placebo on Time to Sustained Recovery in Outpat...](#)
The ACTIV-6 trial can be found under the original release date [Naggie].
- Oct 27** *Ochoa-Jaramillo et al., Revist...* [Clinical efficacy and safety of ivermectin \(400 µg/kg, single dose\) in pati...](#)
57% lower mortality [p=0.35], 34% higher ventilation [p=0.62], and 37% higher ICU admission [p=0.52]. R...
- Oct 10** *PRINCIPLE (Preprint)* [PRINCIPLE Trial Ivermectin arm: unexplained delay and extension](#)
Critical issues, mid-trial changes, unexplained supply problem, and delay in the ivermectin arm of the PR...
- Sep 27** *Marinos, A., Do Your Own Res...* [Did Use Of Ivermectin In Latin America Sabotage Clinical Trials and Conf...](#)
Meta analysis of ivermectin trials showing community use of ivermectin in Latin America associated wit...
- Sep 26** *Kowa Press Release (News)* [興和/新型コロナウイルス感染症患者を対象とした「K-237」 \(イベル...](#)
Kowa reports no significant differences in their trial, with no mortality, almost no severe cases, and reco...
- Sep 22** *Sobrinho et al., Medicina Clíni...* [Clinical protocol for early treatment of COVID-19 in a real-world scenario...](#)
Retrospective 116 patients between May and September 2020 in Brazil receiving an early treatment prot...

- Sep 19 **Aref et al., Infection and Drug ...** *Possible Role of Ivermectin Mucoadhesive Nanosuspension Nasal Spray...*
74% faster recovery [p=0.0005]. 96 patient RCT showing faster resolution of post-COVID anosmia with a...
- Sep 16 **Kory, P., Pierre Kory's Medical ...** *The Criminal Censorship of Ivermectin's Efficacy By The High-Impact Me...*
Review of censorship and negative publication bias for ivermectin research.
- Sep 15 **Uematsu et al., Research Squ...** *Prophylactic Effect of Ivermectin on SARS-CoV-2 Induced Disease in a S...*
Hamster study showing that prophylactic ivermectin inhibited COVID-19 weight loss, reduced lung viral t...
- Sep 7 **Akhtar et al., The Professional...** *Does ivermectin reduce COVID-19 mortality and progression of disease ...*
90% lower mortality [p<0.0001], 72% lower ICU admission [p=0.0006], 80% higher hospital discharge [p<...
- Aug 31 **Qadeer et al., Pakistan Journa...** *Ivermectin A Potential Treatment In Covid-19, Related to Critical Illness*
58% improved viral clearance [p<0.0001]. Prospective convenience sampling study of 210 hospitalized a...
- Aug 18 **Bramante et al., NEJM, doi:10...** *Randomized Trial of Metformin, Ivermectin, and Fluvoxamine for Covid-19*
COVID-OUT remote RCT, showing no significant differences compared to a combined metformin/placeb...
- Aug 12 **Kory, P., Pierre Kory's Medical ...** *The Miracle Not-Heard Around The World: The Success of Uttar Pradesh*
Detailed review of Uttar Pradesh's use of ivermectin, the dramatically better results compared to states ...
- Aug 10 **Chellasamy et al., Journal of ...** *Docking and molecular dynamics studies of human ezrin protein with a ...*
In Silico study of SARS-CoV-1&2 endodomains and ezrin docking, identifying ivermectin, quercetin, calcif...
- Aug 10 **Al-kuraishy et al., Current Dru...** *Central effects of Ivermectin in alleviation of Covid-19-induced dysauton...*
Review of the potential benefits of ivermectin for mitigating SARS-CoV-2 infection-induced dysautonomi...
- Jul 23 **Marcolino et al., BMC Infectio...** *Systematic review and meta-analysis of ivermectin for treatment of COV...*
Meta analysis including 25 of studies (RCTs), with only 10 and 8 reporting mortality and mechanical ve...
- Jul 19 **Schilling et al., medRxiv, doi:1...** *Pharmacometric assessment of the in-vivo antiviral activity of ivermecti...*
86% lower progression [p=0.24] and 9% worse viral clearance [p=0.36]. Very high conflict of interest RCT ...
- Jul 17 **Hazan, S., Frontiers in Microbi...** *Microbiome-Based Hypothesis on Ivermectin's Mechanism in COVID-19: ...*
Hypothesis for an additional mechanism of action for ivermectin: inhibition of pro-inflammatory cytokin...
- Jun 29 **Nimitvilai et al., Journal of Glo...** *A randomized controlled trial of combined ivermectin and zinc sulfate ve...*
33% improved viral clearance [p=0.12]. RCT low-risk patients in Thailand comparing HCQ, darunavir/rito...

- Jun 23 *Mirahmadizadeh et al., Respir...* *Efficacy of single-dose and double-dose ivermectin early treatment in pr...*
67% lower ventilation [p=0.37], 46% lower hospitalization [p=0.22], and 39% improved recovery [p=0.27]. ...
- Jun 21 *Popp et al., Cochrane Databa...* *Ivermectin for preventing and treating COVID-19*
Highly biased meta analysis. Authors originally wrote a highly biased meta analysis that avoided statisti...
- Jun 18 *Jitobaom et al., BMC Pharma...* *Synergistic anti-SARS-CoV-2 activity of repurposed anti-parasitic drug co...*
In Vitro study showing a strong synergistic effect of combinations of ivermectin, niclosamide, and chlor...
- Jun 16 *Rezai et al., Frontiers in Medic...* *Non-effectiveness of Ivermectin on Inpatients and Outpatients With COV...*
9% higher ICU admission [p=0.95], 36% higher hospitalization [p=0.41], 2% worse recovery [p=0.49], and ...
- Jun 16 *Rezai et al., Frontiers in Medic...* *Non-effectiveness of Ivermectin on Inpatients and Outpatients With COV...*
31% lower mortality [p=0.36], 50% lower ventilation [p=0.07], 16% lower ICU admission [p=0.47], and 11%...
- Jun 14 *Williams, T., Do Your Own Res...* *Not All Ivermectin Is Created Equal: Comparing The Quality of 11 Differe...*
In Vitro analysis of ivermectin from 11 different sources showing highly variable antiparasitic efficacy. M...
- Jun 13 *Shafiee et al., Virology Journa...* *Ivermectin under scrutiny: a systematic review and meta-analysis of effi...*
Meta analysis including 17 of studies (RCTs), finding significantly lower mortality with ivermectin. All se...
- Jun 12 *Naggie et al., JAMA, doi:10.10...* *Effect of Ivermectin vs Placebo on Time to Sustained Recovery in Outpat...*
152% higher combined mortality/hospitalization [p=0.29], 5% higher hospitalization [p=1], 68% lower pro...
- Jun 12 *Angkasekwinai et al., Antibioti...* *Safety and Efficacy of Ivermectin for the Prevention and Treatment of C...*
Low-risk RCT in Thailand with zero mortality, reporting no significant differences with the addition of iver...
- May 27 *George et al., Indian Journal o...* *Single Dose of Ivermectin is not Useful in Patients with Hematological Di...*
30% lower mortality [p=0.55], 19% faster recovery [p=0.37], 33% lower progression [p=0.41], and 33% wo...
- May 27 *Schwartz, E., New Microbes a...* *Does ivermectin have a place in the treatment of mild Covid-19?*
Discussion of ivermectin research compared to paxlovid and molnupiravir. Author includes a meta analy...
- May 23 *de la Rocha et al., BMC Infecti...* *Ivermectin compared with placebo in the clinical course in Mexican pati...*
15% worse recovery [p=0.58] and 2% improved viral clearance [p=0.64]. Small low-risk patient RCT with ...
- May 20 *Valerio Pascua et al., Epidemi...* *Repurposing Drugs for Covid-19 by a Developing Country*
Review of a multiphasic multidrug early treatment protocol for COVID-19 in Honduras, showing one dea...

- May 20 *Silva et al., Frontiers in Cellula... Clinical-Epidemiology Aspect of Inpatients With Moderate or Severe COV... 32% lower mortality [p=0.57]. Retrospective 395 hospitalized patients in Brazil, showing mortality HR 0.5...*
- May 14 *Alvarado et al., Computaciona... Interaction of the New Inhibitor Paxlovid (PF-07321332) and Ivermectin ... In Silico study comparing ivermectin and paxlovid M^{PRO} interaction, showing similar interaction for paxlo...*
- May 8 *Croci et al., International Jour... Liposomal Systems as Nanocarriers for the Antiviral Agent Ivermectin In Vitro study of liposomal formulations of ivermectin showing up to 5 times lower cytotoxicity and incre...*
- Apr 27 *Babalola et al., Research Squ... Ivermectin is associated with increase in SPO2 in hypoxemic SARS-CoV... Extended analysis of [Thairu], showing significantly faster and greater improvement in SpO₂ with iverme...*
- Apr 13 *Marinos, A. (Review) (Preprint) The Problem With The TOGETHER Trial Analysis of serious problems with the Together Trial. Also see [Marinos].*
- May 31 *Zheng et al., International Jou... Red blood cell-hitchhiking mediated pulmonary delivery of ivermectin: Ef... In Vitro and mouse study proposing a method for improving ivermectin pharmacokinetics and bioavaila...*
- Apr 6 *Ravikirti et al., Research Squa... Association between Ivermectin treatment and mortality in Covid-19: A h... 3% lower mortality [p=0.82]. Retrospective 965 late stage (44% severe, 27% ICU) hospitalized patients in ...*
- Apr 2 *Delandre et al., Pharmaceutic... Antiviral Activity of Repurposing Ivermectin against a Panel of 30 Clinical... In Vitro study with 30 COVID-19 strains from 14 variants, showing stronger efficacy with ivermectin com...*
- Mar 25 *Aminpour et al., Computation,... In Silico Analysis of the Multi-Targeted Mode of Action of Ivermectin and... In Silico analysis identifying strong or moderate affinity bindings for ivermectin to multiple sites on the s...*
- Mar 21 *Bitterman et al., JAMA Netwo... Comparison of Trials Using Ivermectin for COVID-19 Between Regions ... Analysis of a small subset of 12 ivermectin trials showing a relationship with efficacy and strongyloides ...*
- Mar 18 *Albariqi et al., International Jo... Pharmacokinetics and Safety of Inhaled Ivermectin in Mice as a Potentia... Mouse study of an inhaled ivermectin formulation, showing high concentrations in the lung and broncho...*
- Mar 11 *Albariqi et al., Journal of Aero... Preparation and Characterization of Inhalable Ivermectin Powders as a P... Creation and analysis of an inhalable dry powder formulation of ivermectin for COVID-19.*
- Mar 7 *Harper, P. (News) Professor tied to altered Andrew Hill paper also prepared 'Ivermectin Evi... Forensic analysis of the Hill meta analysis discovering an unlisted author potentially connected to chan...*

Mar 4	Lawrie, T. (News)	A Letter to Dr. Andrew Hill	Documentary about the external forces changing the conclusions of the Hill et al. meta analysis, and the...
Mar 2	Soto et al., PLOS ONE, doi:10...	Mortality and associated risk factors in patients hospitalized due to COV...	41% higher mortality [p=0.001]. Retrospective 1,418 very late stage (46% mortality) patients in Peru, sho...
Feb 28	Efimenko et al., International ...	Treatment with Ivermectin Is Associated with Decreased Mortality in CO...	69% lower mortality [p<0.0001]. PSM retrospective 41,608 patients in the USA, 1,072 treated with iverme...
Feb 25	Thairu et al., Journal of Phar...	A Comparison of Ivermectin and Non Ivermectin Based Regimen for CO...	88% lower mortality [p=0.12], 55% higher hospital discharge [p=0.0001], and 95% improved viral clearanc...
Feb 18	Lim et al., JAMA, doi:10.1001/...	Efficacy of Ivermectin Treatment on Disease Progression Among Adults ...	The I-TECH RCT can be found at [c19ivermectin.com]. Studies are listed under the date they first becam...
Feb 6	Kerr et al., Cureus, doi:10.775...	Regular Use of Ivermectin as Prophylaxis for COVID-19 Led Up to a 92% ...	92% lower mortality [p=0.0008]. PSM multivariable analysis of the Itajaí trial showing significantly lower ...
Feb 2	Manomaipiboon et al., Trials, ...	Efficacy and safety of ivermectin in the treatment of mild-to-moderate C...	43% improved recovery [p=0.26] and 5% improved viral clearance [p=1]. Small RCT with 72 low-risk patie...
Jan 31	Kowa News Release (News) (I...	Antiviral effect of ivermectin confirmed for omicron	Kowa reports that ivermectin is effective for omicron in <i>In Vitro</i> research.
Jan 24	de Jesús Ascencio-Montiel et...	A Multimodal Strategy to Reduce the Risk of Hospitalization/death in A...	59% lower combined mortality/hospitalization [p<0.0001], 15% lower mortality [p=0.16], 9% lower ventila...
Jan 23	Liu et al., bioRxiv, doi:10.1101...	SARS-CoV-2 Viral Genes Compromise Survival and Functions of Human ...	<i>In Vitro</i> study showing that ivermectin and meclizine may be protective for heart muscle damage due to ...
Jan 20	Parvez et al., Immunity, Inflam...	Insights from a computational analysis of the SARS-CoV-2 Omicron vari...	<i>In Silico</i> analysis of the omicron variant and 10 treatments reported effective for previous variants, predi...
Jan 18	Zubair et al., Monaldi Archives...	The effect of ivermectin on non-severe and severe COVID-19 disease an...	9% higher mortality [p=1] and 8% longer hospitalization [p=0.4]. Retrospective 188 hospitalized patients i...
Jan 13	Tyson et al., Preprint (Preprint)	Low Rates of Hospitalization and Death in 4,376 COVID-19 Patients Give...	100% lower mortality [p<0.0001] and 100% lower hospitalization [p<0.0001]. Retrospective 4,376 patient...

- Dec 31 2021 **Abbas et al., Indian Journal of...** *The Effect of Ivermectin on Reducing Viral Symptoms in Patients with M...*
41% lower progression [p=0.54] and 36% improved recovery [p=0.04]. RCT 99 ivermectin and 103 contro...
- Dec 31 2021 **Kerr et al., Research Gate, doi:...** *COVID-19 In-Hospital Mortality Rate is Reduced by Prophylactic Use of I...*
45% lower mortality [p=0.05]. PSM retrospective 378 hospitalized patients in Brazil, showing lower mort...
- Dec 31 2021 **Shimizu et al., Journal of Infe...** *Ivermectin administration is associated with lower gastrointestinal com...*
100% lower mortality [p=0.001], 48% lower ventilation [p=0.03], 43% lower ICU admission [p=0.06], and 7...
- Dec 30 2021 **Semiz, S., Biomolecular Conc...** *SIT1 transporter as a potential novel target in treatment of COVID-19*
Review of the potential connections between SLC6A20/SIT1, ACE2, Type 2 Diabetes, and COVID-19 sev...
- Dec 29 2021 **Mustafa et al., Exploratory Re...** *Pattern of medication utilization in hospitalized patients with COVID-19 i...*
64% lower mortality [p=0.09]. Retrospective 444 hospitalized patients in Pakistan, showing lower mortali...
- Dec 28 2021 **Baguma et al., Research Squa...** *Characteristics of the COVID-19 patients treated at Gulu Regional Referr...*
97% lower mortality [p=0.31]. Retrospective COVID+ hospitalized patients in Uganda, showing no statisti...
- Dec 21 2021 **Zaidi et al., The Journal of Ant...** *The mechanisms of action of ivermectin against SARS-CoV-2—an exten...*
Extensive review of 20 mechanisms of action of ivermectin for SARS-CoV-2.
- Dec 13 2021 **Jamir et al., Cureus, doi:10.77...** *Determinants of Outcome Among Critically Ill Police Personnel With CO...*
53% higher mortality [p=0.13]. Retrospective 266 COVID-19 ICU patients in India, showing significantly lo...
- Dec 11 2021 **Kerr et al., Cureus, doi:10.775...** *Ivermectin Prophylaxis Used for COVID-19: A Citywide, Prospective, Obs...*
70% lower mortality [p<0.0001], 67% lower hospitalization [p<0.0001], and 44% fewer cases [p<0.0001]. ...
- Dec 4 2021 **Wentzel et al., Open Forum Inf...** *Systematic Review and Meta-Analysis of Ivermectin Safety Profile in CO...*
Systematic review and meta-analysis of safety in ivermectin COVID-19 trials, showing no significant diff...
- Dec 1 2021 **Behl et al., Science of The Tot...** *CD147-spike protein interaction in COVID-19: Get the ball rolling with a n...*
Review of the cluster of differentiation 147 (CD147) transmembrane protein as an entry route for SARS-...
- Nov 26 2021 **Ferreira et al., Revista da Ass...** *Outcomes associated with Hydroxychloroquine and Ivermectin in hospit...*
54% higher combined mortality/intubation [p=0.37]. Retrospective 230 hospitalized patients in Brazil sh...
- Nov 23 2021 **Ozer et al., Journal of Medical...** *Effectiveness and Safety of Ivermectin in COVID-19 Patients: A Prospect...*
75% lower mortality [p=0.09], 13% lower ventilation [p=0.2], and 9% longer hospitalization [p=0.09]. Small...

- Nov 17 2021 **Samajdar et al., Journal of the...** *Ivermectin and Hydroxychloroquine for Chemo-Prophylaxis of COVID-19...* 80% fewer cases [$p<0.0001$]. Physician survey in India with 164 ivermectin prophylaxis, 129 HCQ prophylaxis...
- Nov 9 2021 **Stone et al., Biologics, doi:10.1093/bio/btab211** *Changes in SpO2 on Room Air for 34 Severe COVID-19 Patients after Ivermectin...* Retrospective severe COVID-19 patients in Zimbabwe treated with ivermectin, doxycycline, and zinc. For...
- Nov 3 2021 **Lim et al., JAMA, doi:10.1001/jama.2021.19111** *Efficacy of Ivermectin Treatment on Disease Progression Among Adults ...* 69% lower mortality [$p=0.09$], 59% lower ventilation [$p=0.17$], 22% lower ICU admission [$p=0.79$], and 31%...
- Oct 30 2021 **Rezk et al., Zagazig University...** *miRNA-223-3p, miRNA-2909 and Cytokines Expression in COVID-19 Patients...* 56% lower progression [$p=0.06$], 33% improved recovery [$p=0.27$], and 27% faster viral clearance [$p=0.01$]...
- Oct 28 2021 **Verma et al., Indian Journal of...** *Assessing Knowledge, Attitude, and Practices towards Ivermectin Pre-exposure Prophylaxis...* Survey of 306 healthcare workers involved in the medication of COVID-19 patients in India. 71% indicate...
- Oct 20 2021 **Low et al., Biochimica et Biophysica Acta...** *Repositioning Ivermectin for Covid-19 treatment: Molecular mechanism...* Review of the antiviral characteristics of ivermectin and mechanisms of action. Authors note that ivermectin...
- Oct 19 2021 **Borody et al., TrialSite News (News)** *Combination Therapy For COVID-19 Based on Ivermectin in an Australian Outpatient Cohort...* 92% lower mortality [$p=0.03$] and 93% lower hospitalization [$p<0.0001$]. Retrospective 600 PCR+ outpatients...
- Oct 15 2021 **Segatori et al., Viruses, doi:10.3390/v11101937** *Effect of Ivermectin and Atorvastatin on Nuclear Localization of Importin α ...* Gene expression analysis of nasopharyngeal swabs of COVID-19 positive and negative patients, and *in vitro*...
- Oct 14 2021 **Jitobaom et al., Research Square** *Favipiravir and Ivermectin Showed in Vitro Synergistic Antiviral Activity against SARS-CoV-2...* *In Vitro* study showing a strong synergistic effect of ivermectin and favipiravir. Combining multiple antivirals...
- Oct 14 2021 **Goodkin, M. (News)** *Are Major Ivermectin Studies Designed for Failure?* Discussion of flaws in ivermectin trials creating a bias towards not finding an effect.
- Oct 7 2021 **Fordham et al., OSF Preprints, doi:10.21203/rs.3.rs-1000000/v1** *The uses and abuses of systematic reviews* Analysis of defects in the Popp et al. meta analysis.
- Oct 5 2021 **Francés-Monerris et al., Physiological Reports** *Microscopic interactions between ivermectin and key human and viral proteins...* *In Silico* molecular dynamics study showing that ACE2 and ACE2/RBD aggregates form persistent interactions...
- Oct 2 2021 **TrialSite News (News)** *Committed to Medical Evidence, a Prominent Ivermectin Group is Eradicated by Twitter's Censorship...* Report on Twitter's censorship of the British Ivermectin Recommendation Development group.

Oct 7 2021	<i>Babalola et al., Journal of Infe...</i> A Randomized Controlled Trial of Ivermectin Monotherapy versus Hydro... Small RCT with 61 patients in Nigeria, all patients treated with ivermectin, zinc, and vitamin C, showing n...
Sep 23 2021	<i>Mayer et al., Frontiers in Publi...</i> Safety and Efficacy of a MEURI Program for the Use of High Dose Iverm... 55% lower mortality [$p<0.0001$] and 66% lower ICU admission [$p<0.0001$]. Retrospective 21,232 patients ...
Sep 7 2021	<i>Scheim, D., TrialsSite News (N...</i> Merck's deadly Vioxx playbook, redux: a debunked smear campaign agai... Discussion of Merck's ivermectin statements and past actions related to Vioxx raising significant concer...
Sep 6 2021	<i>Buonfrate et al., International ...</i> High dose ivermectin for the early treatment of COVID-19 (COVER study)... 20% improved viral clearance [$p=0.59$]. Early terminated 89 patient RCT with 29 high dose and 32 very hi...
Sep 3 2021	<i>Okogbenin et al., Nigerian Pos...</i> Clinical characteristics, treatment modalities and outcome of coronaviru... Retrospective 300 COVID-19 patients in Nigeria treated with ivermectin, zinc, vitamin C, and azithromyci...
Sep 2 2021	<i>Marik et al., American Journal...</i> Ivermectin, A Reanalysis of the Data Updated meta analysis showing no significant change if Elgazzar et al. is excluded.
Sep 2 2021	<i>Neil et al., American Journal o...</i> Bayesian Hypothesis Testing and Hierarchical Modeling of Ivermectin Ef... Updated Bayesian analysis of a subset of ivermectin trials showing that there is strong evidence to supp...
Aug 19 2021	<i>González-Paz et al., Biophysic...</i> Comparative study of the interaction of ivermectin with proteins of inter... <i>In Silico</i> analysis of the components of ivermectin (avermectin-B1a and avermectin-B1b), suggesting diff...
Aug 17 2021	<i>González-Paz et al., Journal o...</i> Structural Deformability Induced in Proteins of Potential Interest Associa... <i>In Silico</i> elastic network model analysis of ivermectin components (avermectin-B1a and avermectin-B1b...
Aug 16 2021	<i>Kory, P., Substack (Review) (P...</i> Summary of the Evidence for Ivermectin in COVID-19 Summary of the evidence base for ivermectin and COVID-19 including <i>in vitro</i> and <i>in silico</i> studies, anim...
Aug 12 2021	<i>Elavarasi et al., medRxiv, doi:1...</i> Clinical features, demography and predictors of outcomes of SARS-CoV... 20% lower mortality [$p=0.12$]. Retrospective 2017 hospitalized patients in India, showing lower mortality ...
Aug 12 2021	<i>Pedroso et al., The Brazilian J...</i> Self-prescribed Ivermectin use is associated with a lower rate of seroco... Retrospective 45 healthcare workes in Brazil, showing lower creation of antibodies with multiple doses ...
Aug 10 2021	<i>La Pampa, Argentina (News)</i> La Pampa expondrá a la comunidad científica los resultados del Progra... 27% lower mortality and 38% lower combined mortality/ICU admission. News report on the use of iver...

- Aug 6
2021 [Kow et al., American Journal ...](#) *Pitfalls in Reporting Sample Size Calculation Across Randomized Contro...*
Review of sample size calculations in ivermectin RCTs, showing that existing RCTs are very underpower...
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- Aug 6
2021 [Reis et al., New England Jour...](#) *Effect of Early Treatment with Ivermectin among Patients with Covid-19*
12% lower mortality [p=0.68], 23% lower ventilation [p=0.38], 17% lower hospitalization [p=0.19], and 10%...
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- Aug 5
2021 [Rana et al., Research Square, ...](#) *A Computational Study of Ivermectin and Doxycycline Combination Drug...*
In silico study showing strong binding affinity of ivermectin and doxycycline for SARS-CoV-2 main prote...
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- Aug 3
2021 [Santin et al., New Microbes a...](#) *Ivermectin: a multifaceted drug of Nobel prize-honored distinction with i...*
Review concluding that the evidence supports worldwide use of ivermectin for COVID-19, complementa...
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- Jul 31
2021 [Sathi et al., Journal of Cardiov...](#) *Clinical Effect of the Combination Therapy of Hydroxychloroquine, Azithr...*
Prospective study of 85 COVID-19 patients including 8 ICU patients treated with ivermectin, HCQ, and A...
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- Jul 28
2021 [Popp et al., Cochrane Databa...](#) *Ivermectin for preventing and treating COVID-19*
This meta analysis is designed to exclude most studies. Authors select a small subset of studies, with a...
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- Jul 25
2021 [Ontai et al., Epidemiology Inte...](#) *Early multidrug treatment of SARS-CoV-2 (COVID-19) and decreased cas...*
Report on the nationwide implementation of multi-drug COVID-19 inpatient and outpatient treatment pr...
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- Jul 24
2021 [World Ivermectin Day \(News\)](#) *World Ivermectin Day*
Joint event by 22 worldwide organizations.
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- Jul 23
2021 [Mansour et al., International I...](#) *Safety of inhaled ivermectin as a repurposed direct drug for treatment of...*
Safety analysis of an inhaled lyophilized ivermectin formulation, showing 127-fold increase in drug solub...
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- Jul 16
2021 [FLCCC Alliance and British Ive...](#) *Joint Statement of the FLCCC Alliance and British Ivermectin Recomme...*
News release noting that ivermectin remains effective after excluding Elgazzar et al. Given the large ma...
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- Jul 12
2021 [Neil et al., ResearchGate, doi:...](#) *Bayesian Meta Analysis of Ivermectin Effectiveness in Treating Covid-19...*
Bayesian analysis of a subset of ivermectin trial data concluding that there is overwhelming evidence to ...
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- Jul 8
2021 [Muthusamy et al., Journal of ...](#) *Virtual Screening Reveals Potential Anti-Parasitic Drugs Inhibiting the Re...*
In Silico study identifying 32 anti-parasitic compounds effectively inhibiting the RBD of the SARS-CoV-2 s...
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- Jul 7
2021 [Hazan et al., Future Microbiol...](#) *Effectiveness of ivermectin-based multidrug therapy in severely hypoxic,...*
86% lower mortality [p=0.04] and 93% lower hospitalization [p=0.001]. Small study of 24 consecutive pat...

Jul 3 2021	Open Letter, Statement of Co... Open Letter, Statement of Concern and Request for Retraction Open letter signed by 40 physicians detailing errors and flaws in the Roman et al. meta analysis, and req...
Jul 2 2021	Adegboro et al., African Journ... A review of the anti-viral effects of ivermectin Review of the antiviral effects of ivermectin.
Jul 2 2021	Vallejos et al., BMC Infectious... Ivermectin to prevent hospitalizations in patients with COVID-19 (IVERC... 33% lower hospitalization [p=0.23] and 5% worse viral clearance [p=0.55]. RCT with 501 relatively low-ris...
Jun 30 2021	Turkia, M., ResearchGate, doi:... A Continuation of a Timeline of Ivermectin-Related Events in the COVID-... An extension of the ivermectin timeline covering April - June 2021, including WHO's role and funding, Ga...
Jun 28 2021	Roman et al., Clinical Infectio... Ivermectin for the treatment of COVID-19: A systematic review and meta... This is a severely flawed meta analysis. An open letter signed by 40 physicians detailing errors and flaw...
Jun 25 2021	Jagiasi et al., The Internation... Variation in therapeutic strategies for the management of severe COVID-... Survey of medication use for severe COVID-19 in India, showing 33% adoption of ivermectin as of Janua...
Jun 22 2021	Misiones Ministry of Public H... Results from ivermectin use from the Misiones Ministry of Public Health News report on ivermectin use in Misiones, Argentina, showing significantly lower hospitalization and m...
Jun 18 2021	Lind et al., Journal of General ... Increase in Outpatient Ivermectin Dispensing in the US During the COVID... CDC analysis of ivermectin prescriptions in the US suggesting that, while national health authority recog...
Jun 18 2021	Krolewiecki et al., EClinicalMe... Antiviral effect of high-dose ivermectin in adults with COVID-19: A proof-... 66% improved viral load [p=0.09]. Proof of concept RCT with 30 ivermectin patients and 15 control patie...
Jun 17 2021	Bryant et al., American Journ... Ivermectin for Prevention and Treatment of COVID-19 Infection: A Syste... 62% lower mortality [p=0.005]. Systematic review, meta analysis, and trial sequential analysis of 24 RCT...
Jun 15 2021	Aref et al., International Journ... Clinical, Biochemical and Molecular Evaluations of Ivermectin Mucoadhe... 63% improved recovery [p=0.0001] and 79% improved viral clearance [p=0.004]. RCT 114 patients in Egy...
Jun 6 2021	Hariyanto et al., Reviews In M... Ivermectin and outcomes from Covid-19 pneumonia: A systematic revie... 69% lower mortality [p=0.001]. Systematic review and meta analysis of 19 RCTs showing mortality RR 0...
Jun 3 2021	Wang et al., medRxiv, doi:10.1... Minimum manufacturing costs, national prices and estimated global ava... Analysis of the manufacturing cost of several COVID-19 medications, showing a cost of \$0.55 per cours...

Jun 2 2021	<i>Abd-Elsalam et al., Journal of ...</i> Clinical Study Evaluating the Efficacy of Ivermectin in COVID-19 Treatme... 20% shorter hospitalization [p=0.09]. RCT 164 hospitalized patients in Egypt showing lower mortality an...
May 31 2021	<i>Mondal et al., Journal of the I...</i> Prevalence of COVID-19 Infection and Identification of Risk Factors amo... 88% fewer symptomatic cases [p=0.006]. Retrospective 1,470 healthcare workers in India, showing signi...
May 18 2021	<i>Mountain Valley MD (Preprint...</i> Mountain Valley MD Receives Successful Results From BSL-4 COVID-19 ... <i>In Vitro</i> and mouse study with human ACE2 cells, using solubilized ivermectin with Ivectosol™, showing ...
May 12 2021	<i>FLCCC Public Statement (Ne...</i> FLCCC Alliance Statement on the Irregular Actions of Public Health Agen... Analysis of the ivermectin recommendations from WHO and others, and a call to action for all citizens, s...
May 10 2021	<i>Faisal et al., The Professional ...</i> Potential use of azithromycin alone and in combination with ivermectin i... 68% improved recovery [p=0.005]. RCT 100 outpatients in Pakistan, 50 treated with ivermectin, showing ...
May 5 2021	<i>Zatloukal et al. (News) (In Vitr...</i> News report on In Vitro results from the research institute of Prof. Zatlou... News report on <i>In Vitro</i> results from the research institute of Prof. Zatloukal, showing that "ivermectin w...
May 5 2021	<i>Qureshi et al., Journal of Bio...</i> Mechanistic insights into the inhibitory activity of FDA approved ivermec... <i>In Silico</i> study showing inhibition of importin-α1 by ivermectin, which disrupts SARS-CoV-2 replication.
May 4 2021	<i>Karale et al., medRxiv, doi:10...</i> A Meta-analysis of Mortality, Need for ICU admission, Use of Mechanical... Systematic review and meta analysis with 30 studies included in quantitative analysis, showing mortalit...
May 3 2021	<i>Merino et al., Preprint (Preprint)</i> Ivermectin and the odds of hospitalization due to COVID-19: evidence fr... 74% lower hospitalization [p=0.001]. Analysis of Mexico City's use of an ivermectin-based medical kit, sh...
Apr 30 2021	<i>Kory et al., American Journal ...</i> Review of the Emerging Evidence Demonstrating the Efficacy of Ivermec... Review of ivermectin trials and epidemiological data, concluding that ivermectin is effective for prophyla...
Apr 29 2021	<i>Ahsan et al., Cureus, doi:10.7...</i> Clinical Variants, Characteristics, and Outcomes Among COVID-19 Patie... 50% lower mortality [p=0.03]. Retrospective 165 hospitalized patients in Pakistan showing unadjusted lo...
Apr 19 2021	<i>DiNicolantonio et al., Open He...</i> Anti-inflammatory activity of ivermectin in late-stage COVID-19 may refle... Review suggesting that the effectiveness of ivermectin in the cytokine storm phase of COVID-19 may be...
Apr 17 2021	<i>Loue et al., J. Infectious Disea...</i> Ivermectin and COVID-19 in Care Home: Case Report 70% lower mortality [p=0.34] and 55% lower severe cases [p=0.11]. Small quasi-randomized (patient cho...

- Apr 16 2021 [Morgenstern et al., Cureus, doi:10.7755/cureus.12111-20210416](#) *Ivermectin as a SARS-CoV-2 Pre-Exposure Prophylaxis Method in Healthcare Workers* 74% fewer cases [$p=0.008$]. Propensity matched retrospective prophylaxis study of healthcare workers in...
- Apr 15 2021 [Schöning et al., Research Square, doi:10.21956/rsos.21030](#) *Highly-transmissible Variants of SARS-CoV-2 May Be More Susceptible to Ivermectin* *In Silico* study of ivermectin treatment predicting greater efficacy for variants with higher R_0 .
- Apr 14 2021 [Seet et al., International Journal of Health Services, doi:10.1177/09622802211014141](#) *Positive impact of oral hydroxychloroquine and povidone-iodine throat swabs on COVID-19 outcomes* 50% fewer symptomatic cases [$p=0.0009$] and 6% fewer cases [$p=0.61$]. Prophylaxis RCT in Singapore w...
- Apr 10 2021 [Bello et al., Journal of Biomolecular Structure and Dynamics, doi:10.1080/07391037.2021.1911111](#) *Elucidation of the inhibitory activity of ivermectin with host nuclear import* *In Silico* analysis finding that the *in vitro* activity of ivermectin may explained by acting as an inhibitor of i...
- Apr 3 2021 [Turkia, M., Research Gate \(ResearchGate\), doi:10.3390/ijerph14040211](#) *A timeline of ivermectin-related events in the COVID-19 pandemic* An extensive timeline of ivermectin-related events from April 2020 to March 2021 including studies, new...
- Apr 1 2021 [Mourya et al., Int. J. Health Services, doi:10.1177/09622802211014141](#) *Comparative Analytical Study of Two Different Drug Regimens in Treatment of COVID-19* 89% improved viral clearance [$p<0.0001$]. Retrospective 100 patients in India with 50 treated with iverme...
- Mar 30 2021 [Wehbe et al., Front. Immunol., doi:10.3389/fimm.2021.682452](#) *Repurposing Ivermectin for COVID-19: Molecular Aspects and Therapeutic Potential* Review of how ivermectin was identified for use in COVID-19, mechanisms of action, and selected clinic...
- Mar 30 2021 [Chahla et al., Research Square, doi:10.21956/rsos.21030](#) *Cluster Randomised Trials - Ivermectin Repurposing For COVID-19 Treatment* 87% higher hospital discharge [$p=0.004$]. Cluster RCT outpatients in Argentina showing significantly fast...
- Mar 29 2021 [Kow et al., Pharmacological Research, doi:10.1016/j.phrs.2021.106444](#) *The association between the use of ivermectin and mortality in patients with COVID-19* Small meta analysis of 6 RCTs showing mortality OR 0.21 [0.11-0.42]. Authors do not include two more r...
- Mar 26 2021 [Tanioka et al., medRxiv, doi:10.1101/2021.03.23.21257111](#) *Why COVID-19 is not so spread in Africa: How does Ivermectin affect it?* 88% lower mortality [$p=0.002$]. Retrospective study of the 31 onchocerciasis-endemic countries using th...
- Mar 25 2021 [Udofia et al., Network Modelin..., doi:10.1093/nim/nqab001](#) *In silico studies of selected multi-drug targeting against 3CL^{pro} and nsp12* *In Silico* analysis finding that ivermectin had the highest binding energy against the 3CL^{pro} of SARS-CoV...
- Mar 25 2021 [Choudhury et al., Future Medicines, doi:10.1093/fm/abaa001](#) *Exploring the binding efficacy of ivermectin against the key proteins of SARS-CoV-2* *In Silico* analysis finding that ivermectin has high binding affinity for the SARS-CoV-2 viral spike protein, ...
- Mar 25 2021 [Huvemek Press Release \(Preprint\), doi:10.21956/rsos.21030](#) *Kovid-19 - Huvemek® Phase 2 clinical trial* 32% better improvement [$p=0.28$]. Phase 2 results from a multicenter RCT of hospitalized patients in Bul...

- Mar 24 2021 *Yagisawa et al., The Japanes... Global trends in clinical studies of ivermectin in COVID-19*
Review of ivermectin for COVID-19. Authors note that Kitasato University's project was expanded in resp...
- Mar 21 2021 *Emmerich et al., Int. J. Enviro... Comparisons between the Neighboring States of Amazonas and Pará in ...*
Comparison between the two largest neighboring states in Brazil, Amazonas and Pará, showing more th...
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Retrospective 856 patients previously admitted to hospital for COVID-19 in Argentina, finding that iverm...
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In Vitro study showing moxidectin and ivermectin exhibited antiviral activity in Vero E6 cells. Authors indi...
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6% faster recovery [p=0.87]. Retrospective database analysis of 56 mild COVID-19 patients, all treated w...
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79% lower mortality [p<0.0001]. Meta analysis of RCT mortality results showing RR 0.19, $p < 0.00001$.
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Analysis of several issues with López-Medina et al. including the atypical adverse effects in the control a...
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Report on protocol violations in López-Medina et al.
- Mar 10 2021 *Kern et al., Frontiers in Pharm... Modeling of SARS-CoV-2 Treatment Effects for Informed Drug Repurpos...*
Modeling study analyzing timing and dosing regimens of hydroxychloroquine, lopinavir/ritonavir, iverme...
- Mar 10 2021 *Yesilbag et al., Virus Research... Ivermectin also inhibits the replication of bovine respiratory viruses (BRS...*
In Vitro study showing that ivermectin can inhibit infection of bovine respiratory disease viral agents BC...
- Mar 9 2021 *Pott-Junior et al., Toxicology ... Use of ivermectin in the treatment of Covid-19: a pilot trial*
85% lower ventilation [p=0.25], 85% lower ICU admission [p=0.25], and 1% improved viral clearance [p=1]...
- Mar 8 2021 *Chamie-Quintero et al., OSF P... Ivermectin for COVID-19 in Peru: 14-fold reduction in nationwide excess ...*
Analysis of ivermectin use in Peru concluding that ivermectin most likely caused a 14 times reduction in...
- Mar 8 2021 *Guzman et al., medRxiv, doi:1... Factors associated with increased mortality in critically ill COVID-19 pati...*
19% lower mortality [p=0.35]. Retrospective 196 critically ill patients in Mexico. Patients overlap with the ...

Mar 8 2021	Galan et al., Pathogens and Gl... <i>Phase 2 randomized study on chloroquine, hydroxychloroquine or iverm...</i> RCT 168 very late stage severe condition hospitalized patients comparing CQ, HCQ, and ivermectin not ...
Mar 5 2021	Descotes, J., ImmunoSafe Co... <i>Medical Safety of Ivermectin</i> Safety analysis of >350 articles showing that ivermectin has an excellent safety profile. The author note...
Mar 4 2021	López-Medina et al., JAMA, d... <i>Effect of Ivermectin on Time to Resolution of Symptoms Among Adults ...</i> 61% lower progression [p=0.11] and 15% improved recovery [p=0.53]. Phone survey based RCT with low ...
Mar 7 2021	Saha et al., Structural Chemis... <i>The Binding mechanism of ivermectin and levosalbutamol with spike pr...</i> <i>In Silico</i> analysis predicting that ivermectin has a large binding affinity for the SARS-CoV-2 spike protein. ...
Feb 23 2021	Beltran Gonzalez et al., Infecti... <i>Efficacy and Safety of Ivermectin and Hydroxychloroquine in Patients wit...</i> 14% lower mortality [p=1], 9% lower progression [p=1], 37% lower hospital discharge [p=0.71], and 20% l...
Feb 20 2021	BIRD Meeting 20th February 2... <i>BIRD Meeting 20th February 2021</i> The British Ivermectin Recommendation Development (BIRD) panel, with dozens of multi-national scient...
Feb 16 2021	Elalfy et al., J. Med. Virol., doi:... <i>Effect of a combination of Nitazoxanide, Ribavirin and Ivermectin plus zi...</i> 87% improved viral clearance [p<0.0001]. Non-randomized controlled trial with 62 mild and early modera...
Feb 15 2021	Behera et al., Cureus 13:8, doi:... <i>Prophylactic Role of Ivermectin in Severe Acute Respiratory Syndrome C...</i> 83% fewer cases [p=0.001]. Prospective prophylaxis study with 3,532 healthcare workers, 2,199 receivin...
Feb 12 2021	Biber et al., International Jour... <i>The effect of ivermectin on the viral load and culture viability in early trea...</i> 70% lower hospitalization [p=0.34] and 62% improved viral clearance [p=0.02]. Double blind RCT for mild...
Feb 10 2021	Lima-Morales <i>Effectiveness of a multidrug therapy consisting of ivermectin, azithromy...</i> 78% lower mortality [p=0.001], 52% lower ventilation [p=0.15], 67% lower hospitalization [p=0.001], and 5...
Feb 2 2021	Mohan et al., Journal of Infect... <i>Single-dose oral ivermectin in mild and moderate COVID-19 (RIVET-COV)...</i> 62% improved recovery [p=0.27] and 24% improved viral clearance [p=0.18]. RCT in India with low risk pa...
Jan 29 2021	Cobos-Campos et al., Clin. Re... <i>Potential use of ivermectin for the treatment and profilaxis of SARS-CoV...</i> Review finding that there appears to be sufficient evidence to recommend ivermectin for the treatment ...
Jan 27 2021	Castaneda-Sabogal et al., me... <i>Outcomes of Ivermectin in the treatment of COVID-19: a systematic revi...</i> Meta analysis of a very small subset of studies exhibiting very high bias and significant flaws. Some of t...

- Jan 25 2021 *Eweas et al., Frontiers in Micr...* [Molecular Docking Reveals Ivermectin and Remdesivir as Potential Repu...](#)
Molecular docking analysis showing that ivermectin efficiently binds to the viral S protein as well as the ...
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- Jan 23 2021 *Errecalde et al., Journal of Ph...* [Safety and Pharmacokinetic Assessments of a Novel Ivermectin Nasal S...](#)
Animal study of a novel spray formulation of ivermectin, showing an advantage of the spray formulation...
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- Jan 21 2021 *Chamie-Quintero et al., Prepri...* [Sharp Reductions in COVID-19 Case Fatalities and Excess Deaths in Per...](#)
Analysis of ivermectin usage within states in Peru showing sharp reductions in COVID-19 deaths corres...
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- Jan 20 2021 *Mody et al., Communications ...* [Identification of 3-chymotrypsin like protease \(3CLPro\) inhibitors as pote...](#)
Computational molecular modeling screening and *in vitro* analysis for inhibitory effects on SARS-CoV-2 ...
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- Jan 19 2021 *Shahbaznejad et al., Clinical T...* [Effects of Ivermectin in Patients With COVID-19: A Multicenter, Double-bl...](#)
32% faster recovery [p=0.05] and **15% shorter hospitalization [p=0.02]**. RCT in Iran showing shorter time ...
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- Jan 19 2021 *Hill et al., Research Square, d...* [Meta-analysis of randomized trials of ivermectin to treat SARS-CoV-2 inf...](#)
75% lower mortality [p=0.0002]. Meta analysis of 18 ivermectin RCTs with 2,282 patients showing faster...
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- Jan 16 2021 *Samaha et al., Viruses, doi:10...* [Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in ...](#)
This study was retracted.
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- Jan 16 2021 *Bukhari et al., medRxiv, doi:10...* [Efficacy of Ivermectin in COVID-19 Patients with Mild to Moderate Disea...](#)
82% improved viral clearance [p<0.0001]. RCT of relatively low risk hospitalized patients with 50 ivermec...
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- Jan 13 2021 *Kory et al., Frontiers in Pharm...* [Review of the Emerging Evidence Demonstrating the Efficacy of Ivermec...](#)
Meta analysis of ivermectin clinical studies and natural experiments where ivermectin has been widely u...
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- Jan 12 2021 *Okumuş et al., BMC Infectiou...* [Evaluation of the Effectiveness and Safety of Adding Ivermectin to Treat...](#)
33% lower mortality [p=0.55], **43% better improvement [p=0.18]**, and **80% improved viral clearance [p=0.0...**
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- Jan 11 2021 *Chahla et al., American Journ...* [Intensive Treatment With Ivermectin and Iota-Carrageenan as Pre-expos...](#)
95% fewer moderate/severe cases [p=0.002] and **84% fewer cases [p=0.004]**. Prophylaxis RCT for iverm...
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- Jan 11 2021 *Bousquet-Mélou et al., Frontie...* [A Large Impact of Obesity on the Disposition of Ivermectin, Moxidectin a...](#)
Animal dosing study with an obese dog model concluding that ivermectin maintenance doses should b...
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- Jan 10 2021 *Formiga et al., J. Control Rele...* [Ivermectin: an award-winning drug with expected antiviral activity agains...](#)
Review hypothesizing that micro- and nanotechnology-based formulations of ivermectin for the pulmon...

Jan 9 2021 *Ravikirti et al., Journal of Phar...* [Ivermectin as a potential treatment for mild to moderate COVID-19: A do...](#)
89% lower mortality [p=0.12], 79% lower ventilation [p=0.1], 14% lower ICU admission [p=0.8], and 89% hi...

Jan 8 2021 *Chamie, J. (News)* [COVID-19 in Mexico](#)
Comparison of COVID-19 death rates in Mexico showing that the only state using ivermectin has a dram...

Jan 6 2021 *Babalola et al., QJM: An Inter...* [Ivermectin shows clinical benefits in mild to moderate COVID19: A rando...](#)
64% improved viral clearance [p=0.11] and 41% improved recovery [p=0.07]. Small RCT comparing iverm...

Jan 6 2021 *Hirsch et al., Microbiology & I...* [Ivermectin as Prophylaxis Against COVID-19 Retrospective Cases Evalua...](#)
Report on ivermectin prophylaxis for healthcare workers in a hospital in Argentina, showing 0 cases in t...

Jan 3 2021 *Lawrie et al., Preprint (Preprin...* [Ivermectin reduces the risk of death from COVID-19 – a rapid review and...](#)
83% lower mortality [p<0.0001]. Meta analysis confirming the effectiveness of ivermectin for COVID-19, ...

Dec 31 2020 *Wijaya et al., Cermin Dunia Ke...* [Ivermectin as a Potential Therapeutic Agent for COVID-19 – case studies](#)
Case report on 3 confirmed cases of COVID-19 with significant clinical and radiological improvement aft...

Dec 31 2020 *Madrid et al., Heliyon, doi:10.1...* [Safety of oral administration of high doses of ivermectin by means of bi...](#)
In vivo analysis of the safety of high dose ivermectin with a Corydoras fish animal model.

Dec 30 2020 *McCullough et al., Reviews in ...* [Multifaceted highly targeted sequential multidrug treatment of early am...](#)
Review urging early treatment of COVID-19 with sequential multidrug treatment that has been shown to ...

Dec 30 2020 *Procter et al., Reviews in Card...* [Clinical outcomes after early ambulatory multidrug therapy for high-risk ...](#)
Retrospective 922 outpatients, with 320 treated early due to age>50 or comorbidities, showing 2.2% hos...

Dec 27 2020 *Hill, A., Preprint (Preprint) (me...* [Meta-analysis of clinical trials of ivermectin to treat COVID-19 infection](#)
WHO-funded meta analysis showing ivermectin treatment mortality relative risk RR 0.17 [0.08-0.35] for ...

Dec 24 2020 *Jeffreys et al., International J...* [Remdesivir-ivermectin combination displays synergistic interaction with ...](#)
In Vitro study showing enhanced antiviral activity of ivermectin and remdesivir in combination.

Dec 20 2020 *IVERCOR PREP, Preliminary R...* [Ivermectina en agentes de salud e IVERCOR COVID19](#)
73% fewer cases [p<0.0001]. Report on ivermectin prophylaxis in a hospital in Argentina showing lower ...

Dec 18 2020 *Kory et al., FLCCC Alliance (Pr...* [Review of the Emerging Evidence Demonstrating the Efficacy of Ivermec...](#)
69% lower mortality [p<0.0001]. Meta analysis of ivermectin clinical studies and natural experiments wh...

- Dec 15
2020 *Alam et al., European Journal ... Ivermectin as Pre-exposure Prophylaxis for COVID-19 among Healthcare...*
91% fewer cases [$p<0.0001$]. 91% reduction in COVID-19 cases with ivermectin prophylaxis. 118 healthc...
- Dec 15
2020 *Ghauri et al., International Jou... Ivermectin Use Associated with Reduced Duration of Covid-19 Febrile Ill...*
92% improved recovery [$p=0.04$]. Retrospective 95 outpatients in Pakistan with strong clinical suspicion ...
- Dec 11
2020 *Hussain et al., International J... Outcome of ivermectin and doxycycline in cancer patients with COVID-1...*
Small case study of ivermectin + doxycycline with 8 cancer patients, with all patients becoming PCR- by ...
- Dec 7
2020 *Chaccour et al., EClinicalMedi... The effect of early treatment with ivermectin on viral load, symptoms an...*
96% improved symptoms [$p=0.05$], 95% improved viral load [$p=0.01$], and 8% improved viral clearance [$p...$
- Dec 4
2020 *Kalfas et al., medRxiv, doi:10... The therapeutic potential of ivermectin for COVID-19: a systematic revie...*
Review of ivermectin mechanisms and 8 trials, showing positive mortality benefit, reduced time to clinic...
- Dec 4
2020 *Surnar et al., ACS Pharmacol. ... Clinically Approved Antiviral Drug in an Orally Administrable Nanoparticle...*
In Vitro analysis of ivermectin with orally administrable nanoparticles showing efficacy for decreasing ex...
- Dec 2
2020 *Ahmed et al., International Jo... A five day course of ivermectin for the treatment of COVID-19 may reduc...*
85% improved symptoms [$p=0.09$], 76% improved viral clearance [$p=0.03$], and 1% shorter hospitalizatio...
- Dec 2
2020 *Chamie, J. (News) The effect of using ivermectin to control COVID-19 in Chiapas*
Report showing that after starting to distribute ivermectin in drug kits in July, the Mexican state of Chiap...
- Dec 7
2020 *Alonso et al., (Preprint) COVID-19: Uso de ivermectina*
92% lower mortality [$p=0.009$]. Observational study in Argentina showing significantly lower mortality in ...
- Nov 28
2020 *Bernigaud et al., Annals of De... Ivermectin benefit: from scabies to COVID-19, an example of serendipity*
99% lower mortality [$p=0.08$] and 55% fewer cases [$p=0.01$]. 69 residents of a French care home, median...
- Nov 28
2020 *Hellwig et al., International Jo... A COVID-19 Prophylaxis? Lower incidence associated with prophylactic ...*
78% fewer cases [$p=0.02$]. Analysis of COVID-19 cases vs. widespread prophylactic use of ivermectin fo...
- Nov 24
2020 *Niaee et al., Asian Pacific Jou... Ivermectin as an adjunct treatment for hospitalized adult COVID-19 patie...*
82% lower mortality [$p=0.001$]. 82% lower mortality with ivermectin. RCT with 180 hospitalized patients ...
- Nov 22
2020 *de Melo et al., EMBO Mol. Me... Attenuation of clinical and immunological outcomes during SARS-CoV-2...*
Animal study showing that standard doses of ivermectin prevented clinical deterioration, reduced olfact...

Nov 18 2020	<i>Budhiraja et al., medRxiv, doi:...</i> <i>Clinical Profile of First 1000 COVID-19 Cases Admitted at Tertiary Care H...</i> 99% lower mortality [p=0.04]. Retrospective 976 hospitalized patients with 34 treated with ivermectin sh...
Nov 17 2020	<i>Carvalho et al., Journal of Bio...</i> <i>Study of the Efficacy and Safety of Topical Ivermectin + Iota-Carrageena...</i> 100% fewer cases [p<0.0001]. Prophylaxis study using ivermectin and iota-carrageenan showing 0 of 78...
Nov 14 2020	<i>Spoorthi et al., IAIM, 2020, 7:1...</i> <i>Utility of Ivermectin and Doxycycline combination for the treatment of S...</i> 21% faster recovery [p=0.03] and 16% shorter hospitalization [p=0.01]. 100 patient prospective trial of iv...
Nov 13 2020	<i>Elgazzar et al., Research Squ...</i> <i>Efficacy and Safety of Ivermectin for Treatment and prophylaxis of COVI...</i> This study was withdrawn.
Nov 11 2020	<i>Camprubí et al., PLoS ONE, 1...</i> <i>Lack of efficacy of standard doses of ivermectin in severe COVID-19 pati...</i> 40% lower ventilation [p=0.67], 33% lower ICU admission [p=1], 33% worse improvement [p=1], and 25% ...
Nov 10 2020	<i>Turkia, M., ResearchGate (Rev...</i> <i>FLCCC Alliance MATH+ ascorbic acid and I-MASK+ ivermectin protocols...</i> Review suggesting that ivermectin should be used based on existing data suggesting significant benefit...
Nov 4 2020	<i>Cadegiani et al., New Microbe...</i> <i>Early COVID-19 Therapy with azithromycin plus nitazoxanide, ivermectin ...</i> 94% lower ventilation [p=0.005] and 98% lower hospitalization [p<0.0001]. Comparison of HCQ, nitazoxa...
Nov 3 2020	<i>Morgenstern et al., J. Clinical ...</i> <i>The Use of Compassionate Ivermectin in the Management of Symptom...</i> Retrospective 3,099 outpatients treated with ivermectin in an ER. Of 2,706 treated on an outpatient basi...
Nov 3 2020	<i>Behera et al., PLoS ONE, doi:1...</i> <i>Role of ivermectin in the prevention of SARS-CoV-2 infection among heal...</i> 54% fewer cases [p=0.0007]. Retrospective matched case-control prophylaxis study for HCQ, ivermectin...
Nov 2 2020	<i>Arévalo et al., Scientific Repor...</i> <i>Ivermectin reduces in vivo coronavirus infection in a mouse experimenta...</i> Mouse study showing ivermectin reducing MHV viral load and disease. MHV is a type 2 family RNA coro...
Oct 31 2020	<i>Chang et al., ResearchGate (P...</i> <i>COVID-19: Effectiveness of pre-exposure prophylaxis with ivermectin in ...</i> Pre-exposure prophylaxis study with 129 people split into high/low exposure groups, with each group sp...
Oct 31 2020	<i>Szente Fonseca et al., Travel ...</i> <i>Risk of Hospitalization for Covid-19 Outpatients Treated with Various Dr...</i> 14% higher hospitalization [p=0.53]. Retrospective 717 patients in Brazil showing OR 1.17 [0.72-1.90] for ...
Oct 26 2020	<i>Hashim et al., Iraqi Journal of ...</i> <i>Controlled randomized clinical trial on using Ivermectin with doxycycline ...</i> 92% lower mortality [p=0.03], 83% lower progression [p=0.07], and 41% faster recovery [p=0.0001]. RCT ...

- Oct 22 2020 **Guerrero et al., Colombia Méd...** *COVID-19: The Ivermectin African Enigma*
Study of African Programme for Onchocerciasis Control (APOC) countries, which used ivermectin, with ...
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- Oct 19 2020 **Carvalho et al., NCT04425850 ...** *Usefulness of Topic Ivermectin and Carrageenan to Prevent Contagion o...*
96% fewer cases [p<0.0001]. Prophylaxis study using ivermectin and carrageenan showing 0 of 131 cas...
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- Oct 13 2020 **Chaccour et al., Scientific Rep...** *Nebulized ivermectin for COVID-19 and other respiratory diseases, a pro...*
Study showing that nebulized ivermectin can reach pharmacodynamic concentrations in the lung tissue...
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- Oct 13 2020 **Rajter et al., Chest, doi:10.101...** *Use of Ivermectin is Associated with Lower Mortality in Hospitalized Pati...*
46% lower mortality [p=0.05] and 64% lower ventilation [p=0.1]. Retrospective 280 hospitalized patients ...
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- Oct 9 2020 **Mahmud et al., Journal of Inte...** *Ivermectin in combination with doxycycline for treating COVID-19 sympt...*
86% lower mortality [p=0.25], 57% lower progression [p=0.001], 94% improved recovery [p<0.0001], and ...
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- Oct 8 2020 **Francés-Monerris et al., Chem...** *Has Ivermectin Virus-Directed Effects against SARS-CoV-2? Rationalizin...*
In silico study showing that ivermectin is capable of interfering in different key steps of the SARS-CoV-2 ...
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- Oct 8 2020 **Soto-Becerra et al., medRxiv, ...** *Real-World Effectiveness of hydroxychloroquine, azithromycin, and iver...*
17% lower mortality [p=0.01]. Retrospective database study of 5683 patients, 692 received HCQ/CQ+AZ,...
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For search methods, inclusion criteria, effect extraction criteria (more serious outcomes have priority), PRISMA answers, and statistical methods see methods. Meta, Theory, Safety, Review, and News items are not included in the study count. There is a total of 267 items. Studies with preprints and journal versions are listed under the earlier preprint date.

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