

195 ivermectin COVID-19 studies, 144 peer reviewed, 95 comparing treatment and control groups. Recent: [Viglione](#) [MedInCell](#) [Sarojvisut](#) [Sobrinho](#) [Naggie](#) [de la Rocha](#) [Boschi](#). [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](#).

- Jan 31** *Covid Analysis (Preprint) (meta-analysis)* [Ivermectin for COVID-19: real-time meta analysis of 95 studies \(ivmmeta\)](#)
Statistically significant improvements are seen for mortality, ventilation, ICU admission, hospitalization, rec...
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- Jan 16** *Viglione et al., The Gazette of India* [Intravenous high dose vitamin C and ozonated saline effective treatment](#)
Retrospective 479 high risk outpatients in the USA treated with a protocol including intravenous vitamin C,...
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- Jan 5** *MedInCell Press Release (Preprint)* [MedinCell announces positive results for the SAIVE clinical study in prev...](#)
72% fewer cases [$p < 0.0001$]. PEP RCT 399 patients in Bulgaria showing significantly lower COVID-19 cas...
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- Dec 15** *Naggie et al., medRxiv, doi:10.1101/2022.12.15.22281111* [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].
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- Dec 12** *Sarojvisut et al., Infection & Clinical Microbiology* [An Open Label Randomized Controlled Trial of Ivermectin Plus Favipirav...](#)
104% higher ICU admission [$p = 0.62$], **104% worse improvement** [$p = 0.62$], and **4% faster recovery** [$p = 0.63$]...
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- Nov 28** *Boschi et al., bioRxiv, doi:10.1101/2022.11.28.508111* [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...
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- Nov 10** *De Forni et al., PLoS ONE, doi:10.1371/journal.pone.0261111* [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 c...
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- Oct 21** *Naggie et al., JAMA, doi:10.1001/jama.2022.20111* [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].
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- Oct 21** *Ochoa-Jaramillo et al., Revist Colombiana de Medicina y Salud Publica* [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...
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- 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 PRI...

- 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 with lo...
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- 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...*
Kowa reports no significant differences in their trial, with no mortality, almost no severe cases, and recovery...
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- 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 proto...
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- Sep 19 *Aref et al., Infection and Drug ...* *Possible Role of Ivermectin Mucoadhesive Nanosuspension Nasal Spra...*
74% faster recovery [p=0.0005]. 96 patient RCT showing faster resolution of post-COVID anosmia with an i...
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- 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...
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- Sep 7 *Akhtar et al., The Professional...* *Does ivermectin reduce COVID-19 mortality and progression of disease s...*
90% lower mortality [p<0.0001], 72% lower ICU admission [p=0.0006], 80% higher hospital discharge [p<...
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- Aug 31 *Qadeer et al., Pakistan Journ...* *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 ag...
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- 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/placebo ...
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- 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 dec...
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- 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...
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- 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 dysautonomia.
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- 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 venti...

- 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 w...
- 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 cytokines d...
- Jun 29 *Nimitvilai et al., Journal of Gl...* *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/riton...
- 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]. R...
- 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 statistical...
- Jun 18 *Jitobaom et al., BMC Pharma...* *Synergistic anti-SARS-CoV-2 activity of repurposed anti-parasitic drug c...*
In Vitro study showing a strong synergistic effect of combinations of ivermectin, niclosamide, and chloroq...
- 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. Mult...
- Jun 13 *Shafiee et al., Virology Journ...* *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 sev...
- Jun 12 *Naggie et al., JAMA, doi:10.1...* *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., Antibiot...* *Safety and Efficacy of Ivermectin for the Prevention and Treatment of CO...*
Low-risk RCT in Thailand with zero mortality, reporting no significant differences with the addition of iver...
- May 27 *George et al., Indian Journal ...* *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% wor...

- 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 analysis ...
- May 23 *de la Rocha et al., BMC Infecti...* *Ivermectin compared with placebo in the clinical course in Mexican patie...*
15% worse recovery [p=0.58] and **2% improved viral clearance [p=0.64]**. Small low-risk patient RCT with 30...
- 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 death ...
- 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 0.59...
- May 14 *Alvarado et al., Computations...* *Interaction of the New Inhibitor Paxlovid (PF-07321332) and Ivermectin ...*
In Silico study comparing ivermectin and paxlovid M^{Pro} interaction, showing similar interaction for paxlovi...
- 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 increas...
- Apr 27 *Babalola et al., Research Squa...* *Ivermectin is associated with increase in SPO2 in hypoxemic SARS-CoV-...*
Extended analysis of [Thairu], showing significantly faster and greater improvement in SpO₂ with ivermect...
- 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 bioavailabil...
- Apr 6 *Ravikirti et al., Research Squa...* *Association between Ivermectin treatment and mortality in Covid-19: A ...*
3% lower mortality [p=0.82]. Retrospective 965 late stage (44% severe, 27% ICU) hospitalized patients in l...
- Apr 2 *Delandre et al., Pharmaceutic...* *Antiviral Activity of Repurposing Ivermectin against a Panel of 30 Clinic...*
In Vitro study with 30 COVID-19 strains from 14 variants, showing stronger efficacy with ivermectin comp...
- 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 spi...
- Mar 21 *Bitterman et al., JAMA Netwo...* *Comparison of Trials Using Ivermectin for COVID-19 Between Regions W...*
Analysis of a small subset of 12 ivermectin trials showing a relationship with efficacy and strongyloides pr...

Mar 18	<i>Albariqi et al., International Jo...</i>	<i>Pharmacokinetics and Safety of Inhaled Ivermectin in Mice as a Potenti...</i>	Mouse study of an inhaled ivermectin formulation, showing high concentrations in the lung and bronchoal...
Mar 17	<i>Albariqi et al., Journal of Aero...</i>	<i>Preparation and Characterization of Inhalable Ivermectin Powders as a ...</i>	Creation and analysis of an inhalable dry powder formulation of ivermectin for COVID-19.
Mar 7	<i>Harper, P. (News)</i>	<i>Professor tied to altered Andrew Hill paper also prepared 'Ivermectin Evid...</i>	Forensic analysis of the Hill meta analysis discovering an unlisted author potentially connected to changes ...
Mar 4	<i>Lawrie, T. (News)</i>	<i>A Letter to Dr. Andrew Hill</i>	Documentary about the external forces changing the conclusions of the Hill et al. meta analysis, and the su...
Mar 2	<i>Soto et al., PLOS ONE, doi:10...</i>	<i>Mortality and associated risk factors in patients hospitalized due to COV...</i>	41% higher mortality [p=0.001] . Retrospective 1,418 very late stage (46% mortality) patients in Peru, showi...
Feb 28	<i>Efimenko et al., International ...</i>	<i>Treatment with Ivermectin Is Associated with Decreased Mortality in CO...</i>	69% lower mortality [p<0.0001] . PSM retrospective 41,608 patients in the USA, 1,072 treated with ivermec...
Feb 25	<i>Thairu et al., Journal of Phar...</i>	<i>A Comparison of Ivermectin and Non Ivermectin Based Regimen for CO...</i>	88% lower mortality [p=0.12] , 55% higher hospital discharge [p=0.0001] , and 95% improved viral clearanc...
Feb 18	<i>Lim et al., JAMA, doi:10.1001...</i>	<i>Efficacy of Ivermectin Treatment on Disease Progression Among Adults ...</i>	The I-TECH RCT can be found at [c19ivermectin.com]. Studies are listed under the date they first became ...
Feb 6	<i>Kerr et al., Cureus, doi:10.775...</i>	<i>Regular Use of Ivermectin as Prophylaxis for COVID-19 Led Up to a 92% ...</i>	92% lower mortality [p=0.0008] . PSM multivariable analysis of the Itajai trial showing significantly lower m...
Feb 2	<i>Manomaipiboon et al., Trials, ...</i>	<i>Efficacy and safety of ivermectin in the treatment of mild-to-moderate C...</i>	43% improved recovery [p=0.26] and 5% improved viral clearance [p=1] . Small RCT with 72 low-risk patien...
Jan 31	<i>Kowa News Release (News) (I...</i>	<i>Antiviral effect of ivermectin confirmed for omicron</i>	Kowa reports that ivermectin is effective for omicron in <i>In Vitro</i> research.
Jan 24	<i>de Jesús Ascencio-Montiel et...</i>	<i>A Multimodal Strategy to Reduce the Risk of Hospitalization/death in A...</i>	59% lower combined mortality/hospitalization [p<0.0001] , 15% lower mortality [p=0.16] , 9% lower ventilati...
Jan 23	<i>Liu et al., bioRxiv, doi:10.1101...</i>	<i>SARS-CoV-2 Viral Genes Compromise Survival and Functions of Human...</i>	<i>In Vitro</i> study showing that ivermectin and meclizine may be protective for heart muscle damage due to S...

Jan 20 Parvez et al., *Immunity, Infla...* *Insights from a computational analysis of the SARS-CoV-2 Omicron vari...*
In Silico analysis of the omicron variant and 10 treatments reported effective for previous variants, predictin...

Jan 18 Zubair et al., *Monaldi Archive...* *The effect of ivermectin on non-severe and severe COVID-19 disease and...*
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 Giv...*
100% lower mortality [p<0.0001] and 100% lower hospitalization [p<0.0001]. Retrospective 4,376 patients...

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 control l...

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 mortali...

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 sever...

Dec 29 2021 Mustafa et al., *Exploratory Re...* *Pattern of medication utilization in hospitalized patients with COVID-19 ...*
64% lower mortality [p=0.09]. Retrospective 444 hospitalized patients in Pakistan, showing lower mortality...

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, Obse...*
70% lower mortality [p<0.0001], 67% lower hospitalization [p<0.0001], and 44% fewer cases [p<0.0001]. P...

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 differ...

Dec 7 2021	<i>Behl et al., Science of The Tot...</i>	<i>CD147-spike protein interaction in COVID-19: Get the ball rolling with a n...</i> Review of the cluster of differentiation 147 (CD147) transmembrane protein as an entry route for SARS-Co...
Nov 26 2021	<i>Ferreira et al., Revista da Ass...</i>	<i>Outcomes associated with Hydroxychloroquine and Ivermectin in hospit...</i> 54% higher combined mortality/intubation [p=0.37]. Retrospective 230 hospitalized patients in Brazil sho...
Nov 23 2021	<i>Ozer et al., Journal of Medical...</i>	<i>Effectiveness and Safety of Ivermectin in COVID-19 Patients: A Prospecti...</i> 75% lower mortality [p=0.09], 13% lower ventilation [p=0.2], and 9% longer hospitalization [p=0.09]. Small ...
Nov 17 2021	<i>Samajdar et al., Journal of th...</i>	<i>Ivermectin and Hydroxychloroquine for Chemo-Prophylaxis of COVID-19...</i> 80% fewer cases [p<0.0001]. Physician survey in India with 164 ivermectin prophylaxis, 129 HCQ prophyl...
Nov 9 2021	<i>Stone et al., Biologics, doi:10...</i>	<i>Changes in SpO2 on Room Air for 34 Severe COVID-19 Patients after Iver...</i> Retrospective severe COVID-19 patients in Zimbabwe treated with ivermectin, doxycycline, and zinc. For ...
Nov 3 2021	<i>Lim et al., JAMA, doi:10.1001...</i>	<i>Efficacy of Ivermectin Treatment on Disease Progression Among Adults ...</i> 69% lower mortality [p=0.09], 59% lower ventilation [p=0.17], 22% lower ICU admission [p=0.79], and 31%...
Oct 30 2021	<i>Rezk et al., Zagazig University...</i>	<i>miRNA-223-3p, miRNA- 2909 and Cytokines Expression in COVID-19 Pa...</i> 56% lower progression [p=0.06], 33% improved recovery [p=0.27], and 27% faster viral clearance [p=0.01]. ...
Oct 28 2021	<i>Verma et al., Indian Journal o...</i>	<i>Assessing Knowledge, Attitude, and Practices towards Ivermectin Pre-ex...</i> Survey of 306 healthcare workers involved in the medication of COVID-19 patients in India. 71% indicated ...
Oct 20 2021	<i>Low et al., Biochimica et Biop...</i>	<i>Repositioning Ivermectin for Covid-19 treatment: Molecular mechanism...</i> Review of the antiviral characteristics of ivermectin and mechanisms of action. Authors note that ivermectin...
Oct 19 2021	<i>Borody et al., TrialSite News (...</i>	<i>Combination Therapy For COVID-19 Based on Ivermectin in an Australia...</i> 92% lower mortality [p=0.03] and 93% lower hospitalization [p<0.0001]. Retrospective 600 PCR+ outpatie...
Oct 15 2021	<i>Segatori et al., Viruses, doi:10...</i>	<i>Effect of Ivermectin and Atorvastatin on Nuclear Localization of Importi...</i> Gene expression analysis of nasopharyngeal swabs of COVID-19 positive and negative patients, and <i>in vit...</i>
Oct 14 2021	<i>Jitobaom et al., Research Squ...</i>	<i>Favipiravir and Ivermectin Showed in Vitro Synergistic Antiviral Activity a...</i> <i>In Vitro</i> study showing a strong synergistic effect of ivermectin and favipiravir. Combining multiple antivir...
Oct 14 2021	<i>Goodkin, M. (News)</i>	<i>Are Major Ivermectin Studies Designed for Failure?</i> Discussion of flaws in ivermectin trials creating a bias towards not finding an effect.

- Oct 7 2021 *Fordham et al., OSF Preprints,...* *The uses and abuses of systematic reviews*
Analysis of defects in the Popp et al. meta analysis.
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- Oct 5 2021 *Francés-Monerris et al., Physi...* *Microscopic interactions between ivermectin and key human and viral pr...*
In Silico molecular dynamics study showing that ACE2 and ACE2/RBD aggregates form persistent intera...
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- Oct 2 2021 *Trialsite News (News)* *Committed to Medical Evidence, a Prominent Ivermectin Group is Eradic...*
Report on Twitter's censorship of the British Ivermectin Recommendation Development group.
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- Oct 1 2021 *Babalola et al., Journal of Infe...* *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...
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- Sep 23 2021 *Mayer et al., Frontiers in Publi...* *Safety and Efficacy of a MEURI Program for the Use of High Dose Iverme...*
55% lower mortality [$p < 0.0001$] and 66% lower ICU admission [$p < 0.0001$]. Retrospective 21,232 patients i...
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- Sep 7 2021 *Scheim, D., Trialsite News (N...* *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 concerns.
-
- Sep 6 2021 *Buonfrate et al., International ...* *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 hig...
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- Sep 3 2021 *Okogbenin et al., Nigerian Po...* *Clinical characteristics, treatment modalities and outcome of coronaviru...*
Retrospective 300 COVID-19 patients in Nigeria treated with ivermectin, zinc, vitamin C, and azithromycin...
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- Sep 2 2021 *Marik et al., American Journal...* *Ivermectin, A Reanalysis of the Data*
Updated meta analysis showing no significant change if Elgazzar et al. is excluded.
-
- Sep 2 2021 *Neil et al., American Journal ...* *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 suppor...
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- Aug 19 2021 *González-Paz et al., Biophysic...* *Comparative study of the interaction of ivermectin with proteins of intere...*
In Silico analysis of the components of ivermectin (avermectin-B1a and avermectin-B1b), suggesting differ...
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- Aug 17 2021 *González-Paz et al., Journal o...* *Structural Deformability Induced in Proteins of Potential Interest Associa...*
In Silico elastic network model analysis of ivermectin components (avermectin-B1a and avermectin-B1b) pr...
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- Aug 16 2021 *Kory, P., Substack (Review) (Pr...* *Summary of the Evidence for Ivermectin in COVID-19*
Summary of the evidence base for ivermectin and COVID-19 including *in vitro* and *in silico* studies, anima...

- Aug 12 2021 *Elavarasi et al., medRxiv, doi:1...* *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 *Pedroso et al., The Brazilian J...* *Self-prescribed Ivermectin use is associated with a lower rate of serocon...*
Retrospective 45 healthcare workers in Brazil, showing lower creation of antibodies with multiple doses of i...
- Aug 10 2021 *La Pampa, Argentina (News)* *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 ivermec...
- Aug 6 2021 *Kow et al., American Journal ...* *Pitfalls in Reporting Sample Size Calculation Across Randomized Contr...*
Review of sample size calculations in ivermectin RCTs, showing that existing RCTs are very underpowered.
- 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% ...
- Aug 5 2021 *Rana et al., Research Square, ...* *A Computational Study of Ivermectin and Doxycycline Combination Dru...*
In silico study showing strong binding affinity of ivermectin and doxycycline for SARS-CoV-2 main protea...
- 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 world wide use of ivermectin for COVID-19, complementary...
- Jul 31 2021 *Sathi et al., Journal of Cardio...* *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...
- 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 m...
- Jul 25 2021 *Ontai et al., Epidemiology Inte...* *Early multidrug treatment of SARS-CoV-2 (COVID-19) and decreased ca...*
Report on the nationwide implementation of multi-drug COVID-19 inpatient and outpatient treatment prot...
- Jul 24 2021 *World Ivermectin Day (News)* *World Ivermectin Day*
Joint event by 22 worldwide organizations.
- 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 solubili...
- Jul 16 2021 *FLCCC Alliance and British Iv...* *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 magni...

- 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 su...
- Jul 8 2021 *Muthusamy et al., Journal of ...* *Virtual Screening Reveals Potential Anti-Parasitic Drugs Inhibiting the R...*
In Silico study identifying 32 anti-parasitic compounds effectively inhibiting the RBD of the SARS-CoV-2 s...
- 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 patie...
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Open letter signed by 40 physicians detailing errors and flaws in the Roman et al. meta analysis, and requ...
- Jul 2 2021 *Adegboro et al., African Journ...* *A review of the anti-viral effects of ivermectin*
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- 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-risk ...
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News report on ivermectin use in Misiones, Argentina, showing significantly lower hospitalization and mor...
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70% lower mortality [p=0.34] and 55% lower severe cases [p=0.11]. Small quasi-randomized (patient choic...
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Analysis of several issues with López-Medina et al. including the atypical adverse effects in the control arm...
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Analysis of ivermectin use in Peru concluding that ivermectin most likely caused a 14 times reduction in ex...

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14% lower mortality [$p=1$], 9% lower progression [$p=1$], 37% lower hospital discharge [$p=0.71$], and 20% lo...

Feb 20 2021 *BIRD Meeting 20th February ... BIRD Meeting 20th February 2021*
The British Ivermectin Recommendation Development (BIRD) panel, with dozens of multi-national scientis...

Feb 16 2021 *Elalfy et al., J. Med. Virol., doi:... Effect of a combination of Nitazoxanide, Ribavirin and Ivermectin plus zi...*
87% improved viral clearance [$p<0.0001$]. Non-randomized controlled trial with 62 mild and early moderat...

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83% fewer cases [$p=0.001$]. Prospective prophylaxis study with 3,532 healthcare workers, 2,199 receiving ...

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70% lower hospitalization [$p=0.34$] and 62% improved viral clearance [$p=0.02$]. Double blind RCT for mild-...

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78% lower mortality [$p=0.001$], 52% lower ventilation [$p=0.15$], 67% lower hospitalization [$p=0.001$], and 5...

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62% improved recovery [p=0.27] and 24% improved viral clearance [p=0.18]. RCT in India with low risk pat...
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Review finding that there appears to be sufficient evidence to recommend ivermectin for the treatment of ...
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Meta analysis of a very small subset of studies exhibiting very high bias and significant flaws. Some of the...
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Computational molecular modeling screening and *in vitro* analysis for inhibitory effects on SARS-CoV-2 sp...
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32% faster recovery [p=0.05] and 15% shorter hospitalization [p=0.02]. RCT in Iran showing shorter time to...
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75% lower mortality [p=0.0002]. Meta analysis of 18 ivermectin RCTs with 2,282 patients showing faster vi...
- Jan 16 2021 *Samaha et al., Viruses, doi:10...* *Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in ...*
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82% improved viral clearance [p<0.0001]. RCT of relatively low risk hospitalized patients with 50 ivermecti...
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Meta analysis of ivermectin clinical studies and natural experiments where ivermectin has been widely use...
- 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...

- 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 ivermectin...
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- Jan 10 2021 *Formiga et al., J. Control Rele...* *Ivermectin: an award-winning drug with expected antiviral activity again...*
Review hypothesizing that micro- and nanotechnology-based formulations of ivermectin for the pulmonary...
- Jan 9 2021 *Ravikirti et al., Journal of Pha...* *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 dramati...
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64% improved viral clearance [p=0.11] and 41% improved recovery [p=0.07]. Small RCT comparing iverme...
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83% lower mortality [p<0.0001]. Meta analysis confirming the effectiveness of ivermectin for COVID-19, sh...
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In vivo analysis of the safety of high dose ivermectin with a Corydoras fish animal model.
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Review urging early treatment of COVID-19 with sequential multidrug treatment that has been shown to b...
- 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% hospi...
- 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 RC...

Dec 24 2020	Jeffreys et al., <i>International J...</i>	<i>Remdesivir-ivermectin combination displays synergistic interaction with ...</i>	<i>In Vitro</i> study showing enhanced antiviral activity of ivermectin and remdesivir in combination.
Dec 20 2020	IVERCOR PREP, <i>Preliminary ...</i>	<i>Ivermectina en agentes de salud e IVERCOR COVID19</i>	73% fewer cases [$p < 0.0001$]. Report on ivermectin prophylaxis in a hospital in Argentina showing lower ca...
Dec 18 2020	Kory et al., <i>FLCCC Alliance (Pr...</i>	<i>Review of the Emerging Evidence Demonstrating the Efficacy of Ivermect...</i>	69% lower mortality [$p < 0.0001$]. Meta analysis of ivermectin clinical studies and natural experiments wher...
Dec 15 2020	Alam et al., <i>European Journal...</i>	<i>Ivermectin as Pre-exposure Prophylaxis for COVID-19 among Healthcare...</i>	91% fewer cases [$p < 0.0001$]. 91% reduction in COVID-19 cases with ivermectin prophylaxis. 118 healthcar...
Dec 15 2020	Ghuri et al., <i>International Jo...</i>	<i>Ivermectin Use Associated with Reduced Duration of Covid-19 Febrile Ill...</i>	92% improved recovery [$p = 0.04$]. Retrospective 95 outpatients in Pakistan with strong clinical suspicion of ...
Dec 11 2020	Hussain et al., <i>International J...</i>	<i>Outcome of ivermectin and doxycycline in cancer patients with COVID-1...</i>	Small case study of ivermectin + doxycycline with 8 cancer patients, with all patients becoming PCR- by d...
Dec 7 2020	Chaccour et al., <i>EClinicalMedi...</i>	<i>The effect of early treatment with ivermectin on viral load, symptoms an...</i>	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., <i>medRxiv, doi:10...</i>	<i>The therapeutic potential of ivermectin for COVID-19: a systematic revie...</i>	Review of ivermectin mechanisms and 8 trials, showing positive mortality benefit, reduced time to clinical ...
Dec 4 2020	Surnar et al., <i>ACS Pharmacol. ...</i>	<i>Clinically Approved Antiviral Drug in an Orally Administrable Nanoparticl...</i>	<i>In Vitro</i> analysis of ivermectin with orally administrable nanoparticles showing efficacy for decreasing expr...
Dec 2 2020	Ahmed et al., <i>International Jo...</i>	<i>A five day course of ivermectin for the treatment of COVID-19 may reduc...</i>	85% improved symptoms [$p = 0.09$], 76% improved viral clearance [$p = 0.03$], and 1% shorter hospitalization....
Dec 2 2020	Chamie, J. (News)	<i>The effect of using ivermectin to control COVID-19 in Chiapas</i>	Report showing that after starting to distribute ivermectin in drug kits in July, the Mexican state of Chiapa...
Dec 7 2020	Alonso et al., (Preprint)	<i>COVID-19: Uso de ivermectina</i>	92% lower mortality [$p = 0.009$]. Observational study in Argentina showing significantly lower mortality in t...
Nov 28 2020	Bernigaud et al., <i>Annals of De...</i>	<i>Ivermectin benefit: from scabies to COVID-19, an example of serendipity</i>	99% lower mortality [$p = 0.08$] and 55% fewer cases [$p = 0.01$]. 69 residents of a French care home, median a...

Nov 28 2020	<i>Hellwig et al., International Jo...</i> <i>A COVID-19 Prophylaxis? Lower incidence associated with prophylactic ...</i> 78% fewer cases [$p=0.02$]. Analysis of COVID-19 cases vs. widespread prophylactic use of ivermectin for p...
Nov 24 2020	<i>Niaee et al., Asian Pacific Jou...</i> <i>Ivermectin as an adjunct treatment for hospitalized adult COVID-19 pati...</i> 82% lower mortality [$p=0.001$]. 82% lower mortality with ivermectin. RCT with 180 hospitalized patients s...
Nov 22 2020	<i>de Melo et al., EMBO Mol. Me...</i> <i>Attenuation of clinical and immunological outcomes during SARS-CoV-...</i> Animal study showing that standard doses of ivermectin prevented clinical deterioration, reduced olfactory...
Nov 18 2020	<i>Budhiraja et al., medRxiv, doi:...</i> <i>Clinical Profile of First 1000 COVID-19 Cases Admitted at Tertiary Care ...</i> 99% lower mortality [$p=0.04$]. Retrospective 976 hospitalized patients with 34 treated with ivermectin sho...
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 788 ...
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 iver...
Nov 13 2020	<i>Elgazzar et al., Research Squa...</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 (Revi...</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, nitazoxan...
Nov 3 2020	<i>Morgenstern et al., J. Clinical ...</i> <i>The Use of Compassionate Ivermectin in the Management of Symptoma...</i> Retrospective 3,099 outpatients treated with ivermectin in an ER. Of 2,706 treated on an outpatient basis, ...
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 hea...</i> 54% fewer cases [$p=0.0007$]. Retrospective matched case-control prophylaxis study for HCQ, ivermectin, a...
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 coron...

Oct 31 2020 *Chang et al., ResearchGate (P...* COVID-19: Effectiveness of pre-exposure prophylaxis with ivermectin in e...
Pre-exposure prophylaxis study with 129 people split into high/low exposure groups, with each group spl...

Oct 31 2020 *Szente Fonseca et al., Travel ...* Risk of Hospitalization for Covid-19 Outpatients Treated with Various Dr...
14% higher hospitalization [p=0.53]. Retrospective 717 patients in Brazil showing OR 1.17 [0.72-1.90] for i...

Oct 26 2020 *Hashim et al., Iraqi Journal of...* Controlled randomized clinical trial on using Ivermectin with doxycycline...
92% lower mortality [p=0.03], 83% lower progression [p=0.07], and 41% faster recovery [p=0.0001]. RCT 7...

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 non...

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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 270 items. Studies with preprints and journal versions are listed under the earlier preprint date.

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