Animal Ivermectin - Advisory from the Food and Drug Administration ("FDA")

The Professional and Vocational Licensing Division ("PVL") received a notice from the Federal Food and Drug Administration ("FDA"), Intergovernmental Affairs ("IGA") regarding a letter issued to Veterinarians and Retailers of Animal Health Products (letter to veterinarians and retailers / attached) asking for our assistance in sharing this important information with consumers about the dangerous misuse of animal Ivermectin to prevent or treat COVID-19 in people (humans).

In a recent Health Alert (attached) from the U.S. Centers for Disease Control and Prevention, poison control centers across the U.S. are seeing a sharp spike in reports of people suffering adverse health effects after taking animal ivermectin. People are purchasing various highly concentrated animal ivermectin drug formulations such as “pour-on,” injectable, paste, and “drench” that are intended for horses, cattle, and sheep, and taking these drugs has made some people very sick. Even if animal drugs have the same active ingredient as an approved human drug, animal drugs have not been evaluated for safety or effectiveness in humans. Treating human medical conditions with veterinary drugs can be very dangerous.

The FDA is asking the public to please help them protect public health by reporting any animal drug advertising/animal ivermectin products with claims about preventing or curing COVID-19 by emailing FDA-COVID-19-Fraudulent-Products@fda.hhs.gov or calling 1-888-InfoFDA (1-888-463-6332).

Please be advised that the Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division is sharing the above important safety information pursuant to the FDA’s request.

Attachments: 

- FDA’s August 30, 2021 letter to Veterinarians and Retailers of Animal Health Products
- CDC’s August 26, 2021 Health Advisory
CVM Letter to Veterinarians and Retailers: Help Stop Misuse of Animal Ivermectin to Prevent or Treat COVID-19 in Humans

August 30, 2021

Dear Veterinarians and Retailers of Animal Health Products,

The FDA’s Center for Veterinary Medicine has continued concerns that there are people using animal formulations of ivermectin to treat or prevent COVID-19 in humans.

As noted in many recent news stories and in a Health Alert (https://emergency.cdc.gov/han/2021/pdf/CDC_HAN_449.pdf) from the U.S. Centers for Disease Control and Prevention, poison control centers across the United States are seeing a sharp spike in reports of people suffering adverse health effects after taking animal ivermectin. People are purchasing various highly concentrated animal ivermectin drug formulations such as “pour-on,” injectable, paste, and “drench” that are intended for horses, cattle, and sheep, and taking these drugs has made some people very sick.

Even if animal drugs have the same active ingredient as an approved human drug, animal drugs have not been evaluated for safety or effectiveness in humans. Treating human medical conditions with veterinary drugs can be very dangerous. The drug may not work at all, or it could worsen the illness and/or lead to serious, potentially life-threatening health complications. People should not take products approved for veterinary use, “for research only,” or otherwise not for human consumption.

We are asking for your help in sharing important safety information about the misuse of animal ivermectin to prevent or treat COVID-19 in people. To assist you, we have developed a sign that is available for download (/media/151853/download) if you’d like to pass it out or post it at your place of business to remind people about the dangers of treating themselves with animal ivermectin.

CVM is hearing of reports of decreased availability of certain animal ivermectin products in certain regions of the country. If you are a veterinarian or animal caretaker who is having difficulty obtaining this drug for animal use, please let us know by emailing AnimalDrugShortages@fda.hhs.gov.

Please help us protect public health by reporting any animal drug advertising/animal ivermectin products with claims about preventing or curing COVID-19 by emailing FDA-COVID-19-Fraudulent-Products@fda.hhs.gov.
or calling 1-888-InfoFDA (1-888-463-6332).

We thank you for your help and cooperation with this urgent safety issue. CVM is hopeful that we can work together to prevent more people being harmed from taking animal drugs.

Please stay safe and healthy.

Dr. Steven Solomon
Director of FDA’s Center for Veterinary Medicine

Informational Resources:

- Consumer Update: Why You Should Not Use Ivermectin to Treat or Prevent COVID-19 (/consumers/consumer-updates/why-you-should-not-use-ivermectin-treat-or-prevent-covid-19)
Rapid Increase in Ivermectin Prescriptions and Reports of Severe Illness Associated with Use of Products Containing Ivermectin to Prevent or Treat COVID-19

Summary
Ivermectin is a U.S. Food and Drug Administration (FDA)-approved prescription medication used to treat certain infections caused by internal and external parasites. When used as prescribed for approved indications, it is generally safe and well tolerated.

During the COVID-19 pandemic, ivermectin dispensing by retail pharmacies has increased, as has use of veterinary formulations available over the counter but not intended for human use. FDA has cautioned about the potential risks of use for prevention or treatment of COVID-19.

Ivermectin is not authorized or approved by FDA for prevention or treatment of COVID-19. The National Institutes of Health’s (NIH) COVID-19 Treatment Guidelines Panel has also determined that there are currently insufficient data to recommend ivermectin for treatment of COVID-19. ClinicalTrials.gov has listings of ongoing clinical trials that might provide more information about these hypothesized uses in the future.

Adverse effects associated with ivermectin misuse and overdose are increasing, as shown by a rise in calls to poison control centers reporting overdoses and more people experiencing adverse effects.

Background
The Centers for Disease Control and Prevention (CDC) confirmed with the American Association of Poison Control Centers (AAPCC) that human exposures and adverse effects associated with ivermectin reported to poison control centers have increased in 2021 compared to the pre-pandemic baseline. These reports include increased use of veterinary products not meant for human consumption.

Ivermectin is a medication that is approved by FDA in oral formulations to treat onchocerciasis (river blindness) and intestinal strongyloidiasis. Topical formulations are used to treat head lice and rosacea. Ivermectin is also used in veterinary applications to prevent or treat internal and external parasitic infections in animals. When used in appropriate doses for approved indications, ivermectin is generally well tolerated.

Clinical trials and observational studies to evaluate the use of ivermectin to prevent and treat COVID-19 in humans have yielded insufficient evidence for the NIH COVID-19 Treatment Guidelines Panel to recommend its use. Data from adequately sized, well-designed, and well-conducted clinical trials are needed to provide more specific, evidence-based guidance on the role of ivermectin in the treatment of COVID-19.

A recent study examining trends in ivermectin dispensing from outpatient retail pharmacies in the United States during the COVID-19 pandemic showed an increase from an average of 3,600 prescriptions per week at the pre-pandemic baseline (March 16, 2019–March 13, 2020) to a peak of 39,000 prescriptions in the week ending on January 8, 2021. Since early July 2021, outpatient ivermectin dispensing has again
begun to rapidly increase, reaching more than 88,000 prescriptions in the week ending August 13, 2021. This represents a 24-fold increase from the pre-pandemic baseline. (Figure)

**Figure: Estimated number of outpatient ivermectin prescriptions dispensed from retail pharmacies — United States, March 16, 2019–August 13, 2021**

*Data are from the IQVIA National Prescription Audit Weekly (NPA Weekly) database. NPA Weekly collects data from a sample of approximately 48,900 U.S. retail pharmacies, representing 92% of all retail prescription activity. Ivermectin dispensed by mail order and long-term care pharmacies, prescriptions by veterinarians, and non-oral formulations were not included.

In 2021, poison control centers across the U.S. received a three-fold increase in the number of calls for human exposures to ivermectin in January 2021 compared to the pre-pandemic baseline. In July 2021, ivermectin calls have continued to sharply increase, to a five-fold increase from baseline. These reports are also associated with increased frequency of adverse effects and emergency department/hospital visits.

In some cases, people have ingested ivermectin-containing products purchased without a prescription, including topical formulations and veterinary products. Veterinary formulations intended for use in large animals such as horses, sheep, and cattle (e.g., "sheep drench," injection formulations, and “pour-on” products for cattle) can be highly concentrated and result in overdoses when used by humans. Animal products may also contain inactive ingredients that have not been evaluated for use in humans. People who take inappropriately high doses of ivermectin above FDA-recommended dosing may experience toxic effects.

Clinical effects of ivermectin overdose include gastrointestinal symptoms such as nausea, vomiting, and diarrhea. Overdoses are associated with hypotension and neurologic effects such as decreased consciousness, confusion, hallucinations, seizures, coma, and death. Ivermectin may potentiate the effects of other drugs that cause central nervous system depression such as benzodiazepines and barbiturates.

Examples of recent significant adverse effects reported to U.S. poison control centers include the following:
• An adult drank an injectable ivermectin formulation intended for use in cattle in an attempt to prevent COVID-19 infection. This patient presented to a hospital with confusion, drowsiness, visual hallucinations, tachypnea, and tremors. The patient recovered after being hospitalized for nine days.
• An adult patient presented with altered mental status after taking ivermectin tablets of unknown strength purchased on the internet. The patient reportedly took five tablets a day for five days to treat COVID-19. The patient was disoriented and had difficulty answering questions and following commands. Symptoms improved with discontinuation of ivermectin after hospital admission.

Recommendations for Clinicians and Public Health Practitioners
• Be aware that ivermectin is not currently authorized or approved by FDA for treatment of COVID-19. NIH has also determined that there are currently insufficient data to recommend ivermectin for treatment of COVID-19.
• Educate patients about the risks of using ivermectin without a prescription, or ingesting ivermectin formulations that are meant for external use or ivermectin-containing products formulated for veterinary use.
• Advise patients to immediately seek medical treatment if they have taken any ivermectin or ivermectin-containing products and are experiencing symptoms. Signs and symptoms of ivermectin toxicity include gastrointestinal effects (nausea, vomiting, abdominal pain, and diarrhea), headache, blurred vision, dizziness, tachycardia, hypotension, visual hallucinations, altered mental status, confusion, loss of coordination and balance, central nervous system depression, and seizures. Ivermectin may increase sedative effects of other medications such as benzodiazepines and barbiturates. Depression, and seizures. Ivermectin may increase sedative effects of other medications such as benzodiazepines and barbiturates.
• Educate patients and the public to get vaccinated against COVID-19. COVID-19 vaccination is safe and the most effective means to prevent infection and protect against severe disease and death from SARS-CoV-2, the virus that causes COVID-19, including the Delta variant.
• Educate patients and the public to use COVID-19 prevention measures including wearing masks in indoor public places, physical distancing by staying at least six feet from other people who don't live in the same household, avoiding crowds and poorly ventilated spaces, and frequent handwashing and use of hand sanitizer that contains at least 60 percent alcohol.

Recommendations for the Public
• Be aware that currently, ivermectin has not been proven as a way to prevent or treat COVID-19.
• Do not swallow ivermectin products that should be used on skin (e.g., lotions and creams) or are not meant for human use, such as veterinary ivermectin products.
• Seek immediate medical attention or call the poison control center hotline (1-800-222-1222) for advice if you have taken ivermectin or a product that contains ivermectin and are having symptoms. Signs and symptoms include gastrointestinal effects (nausea, vomiting, abdominal pain, and diarrhea), headache, blurred vision, dizziness, fast heart rate, and low blood pressure. Other severe nervous system effects have been reported, including tremors, seizures, hallucinations, confusion, loss of coordination and balance, decreased alertness, and coma.
• Get vaccinated against COVID-19. COVID-19 vaccination is approved by FDA and is the safest and most effective way to prevent getting sick and protect against severe disease and death from SARS-CoV-2, the virus that causes COVID-19, including the Delta variant.
• Protect yourself and others from getting sick with COVID-19. In addition to vaccination, wear masks in indoor public places, practice staying at least six feet from other people who don't live in your household, avoid crowds and poorly ventilated spaces, and wash your hands often or use hand sanitizer that has at least 60 percent alcohol.

For More Information
NIH COVID-19 Treatment Ivermectin Guidelines
FDA Consumer Alert on Use of Ivermectin to Treat or Prevent COVID-19
FDA MedWatch Adverse Event Reporting program

CDC Coronavirus (COVID-19) website

U.S. Government Coronavirus (COVID-19) website

American Association of Poison Control Centers

Press Release: American College of Medical Toxicology Reports Data on Adverse Effects and Toxicity from Unapproved Use of Ivermectin for the Prevention or Treatment of COVID-19

Treatments Your Healthcare Provider Might Recommend if You Are Sick

References

The Centers for Disease Control and Prevention (CDC) protects people’s health and safety by preventing and controlling diseases and injuries; enhances health decisions by providing credible information on critical health issues; and promotes healthy living through strong partnerships with local, national, and international organizations.

Categories of Health Alert Network messages:
Health Alert Requires immediate action or attention, highest level of importance
Health Advisory May not require immediate action; provides important information for a specific incident or situation
Health Update Unlikely to require immediate action; provides updated information regarding an incident or situation
HAN Info Service Does not require immediate action; provides general public health information

## This message was distributed to state and local health officers, state and local epidemiologists, state and local laboratory directors, public information officers, HAN coordinators, and clinic organizations ##