

Background

Ivermectin is an antiparasitic medication that is primarily metabolized by the liver.¹

Current research has failed to demonstrate clinical benefit for treatment of COVID-19.²

However, misinformation campaigns have misled patients to ingest lvermectin at concentrations meant for domestic animals.

We present a case of acute liver failure secondary to the use of lvermectin.

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to ER





A CASE IVERMECTIN INDUCED ACUTE LIVER FAILURE

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Result	ts					
61 y.o. man PMH:		ALP (u/l)	AST (u/l)	ALT (u/l)	T. Bili (u/l)	INR
Ischemic Cardiomyopathy Ejection Fraction 21% Treated Hepatitis C	Day 0	252 (H)	997 (H)	1036 (H)	6.7 (H)	>12.6 (AA)
 Injects self with 2 doses of weight-based horse Ivermectin for COVID prophylaxis Begins having generalized weakness 	Day 1	199 (H)	1375 (H)	1146 (H)	6.6 (H)	>12.6 (AA)
and jaundicePresents to ER	Day 3	165 (H)	973(H)	979(H)	5.3(H)	4.7(H)
 Denies significant ETOH, acetaminophen, or illicit drug use Physical exam: scleral icterus, hepatomegaly with no abdominal tenderness 	Day 5	186 (H)	654 (H)	865 (H)	6.7 (H)	2.9 (H)
 Negative acute hepatitis panel, HSV, CMV Positive hepatitis C antibodies, but patient is in sustained virologic response 	Day 7	208 (H)	283 (H)	595 (H)	5.8 (H)	2.1 (H)
 Full workup for chronic liver disease unremarkable US: hepatosplenomegaly with patent portal and honotic vacculature 	Day 12	179 (H)	49 (H)	206 (H)	3.0 (H)	1.3
 and hepatic vasculature Develops hepatic encephalopathy along with his coagulopathy, raising concern for acute 	Day 22	145 (H	24	47	1.9 (H)	1.4
 hepatic failure Started on N-Acetylcystine, Rifaximin, supportive care 						
 Recovers well and does not require liver transplant 			IVERI	MECTI	N	







Discussion

DA recommends against the use of lvermectin treat COVID-19. Many continue to appropriately consume lvermectin.

vermectin-induced liver failure is a rare but eadly side effect.

iven our patient's rapid onset of symptoms ost-self-injection of Ivermectin, his liver injury vas presumed to be related to Ivermectin.

he drug interaction between Ivermectin and varfarin had worsened the patient's bagulopathy.

hysicians should be aware of the ways ermectin overdose may clinically present to void delayed treatment.

his case demonstrates the detriments of erpetuation of medical misinformation to care.

References

ermectin. National Institutes of Health.

https://www.covid19treatmentguidelines.nih.gov/therapies/antiviral-therapy/ivermectin/. Accessed June 5,

[2] Why you should not use ivermectin to treat or prevent COVID-19. U.S. Food and Drug Administration.