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W J C C World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 22 August 6, 2023

MINIREVIEWS

5193 Research progress on reactive oxygen species production mechanisms in tumor sonodynamic therapy Dong HQ, Fu XF, Wang MY, Zhu J

ORIGINAL ARTICLE

Retrospective Study

Combining the age-male-albumin-bilirubin-platelets score and shear wave elastography stratifies 5204 carcinogenic risk in hepatitis C patients after viral clearance

Masaoka R, Gyotoku Y, Shirahashi R, Suda T, Tamano M

5215 Changes in neurotransmitter levels, brain structural characteristics, and their correlation with PANSS scores in patients with first-episode schizophrenia

Xu XJ, Liu TL, He L, Pu B

Five-year outcomes of immediate implant placement for mandibular molars with and without chronic 5224 apical periodontitis: A retrospective study

Yang H, Luo D, Yuan MJ, Yang JJ, Wang DS

Observational Study

5236 Standardization of apple cancellation test for neglect patients in Korea: An observational study Jang WH, Jang JS

Prospective Study

5244 Diabetic neuropathy results in vasomotor dysfunction of medium sized peripheral arteries Ege F, Kazci Ö, Aydin S

SYSTEMATIC REVIEWS

5252 COVID-19-induced gastrointestinal autonomic dysfunction: A systematic review Elbeltagi R, Al-Beltagi M, Saeed NK, Bediwy AS

META-ANALYSIS

5273 Meta-analysis of outcomes from drug-eluting stent implantation in infrapopliteal arteries Li MX, Tu HX, Yin MC

CASE REPORT

5288 Acute hepatitis of unknown etiology in an adult female: A case report Dass L, Pacia AMM, Hamidi M



World Journal of Clinical Cases				
Conter	nts Thrice Monthly Volume 11 Number 22 August 6, 2023			
5296	Zimberelimab plus chemotherapy as the first-line treatment of malignant peritoneal mesothelioma: A case report and review of literature			
	Peng XD, You ZY, He LX, Deng Q			
5303	Recurrent ventricular arrhythmia due to aconite intoxication successfully treated with landiolol: A case report			
	Matsuo C, Yamamoto K, Fukushima H, Yajima D, Inoue H			
5309	Anti-phospholipase A2 receptor-associated membranous nephropathy with human immunodeficiency virus infection treated with telitacicept: A case report			
	Wang JL, Sun YL, Kang Z, Zhang SK, Yu CX, Zhang W, Xie H, Lin HL			
5316	Rapid progression of heart failure secondary to radioactive iodine treatment of hyperthyroidism: A case report			
	Li ZH, Ni LJ, Liu YQ, Si DY			
5322	Pathological complete response to neoadjuvant alectinib in unresectable anaplastic lymphoma kinase positive non-small cell lung cancer: A case report			
	Wang LM, Zhao P, Sun XQ, Yan F, Guo Q			
5329	Hepatoid adenocarcinoma of the stomach with neuroendocrine differentiation: A case report and review of literature			
	Fei H, Li ZF, Chen YT, Zhao DB			
5338	Acquired haemophilia as a complicating factor in treatment of non-muscle invasive bladder cancer: A case report			
	Ryšánková K, Gumulec J, Grepl M, Krhut J			
5344	Persistent dysexecutive syndrome after pneumococcal meningitis complicated by recurrent ischemic strokes: A case report			
	Abbruzzese L, Martinelli G, Salti G, Basagni B, Damora A, Scarselli C, Peppoloni G, Podgorska A, Rosso G, Bacci M, Alfano AR, MANCUSO M			
5351	Treatment of refractory anti-melanoma differentiation-associated gene 5 anbibody-positive dermatomyositis complicated by rapidly progressing interstitial pulmonary disease: Two case reports			
	Wang QH, Chen LH			
5358	TINAVI robot-assisted one-stage anteroposterior surgery in lateral position for severe thoracolumbar fracture dislocation: A case report			
	Ye S, Chen YZ, Zhong LJ, Yu CZ, Zhang HK, Hong Y			
5365	Individual with concurrent chest wall tuberculosis and triple-negative essential thrombocythemia: A case report			
	Xu XY, Yang YB, Yuan J, Zhang XX, Kang L, Ma XS, Yang J			
5373	Self-strangulation induced penile partial amputation: A case report			
	Maimaitiming ABLT, Mulati YLSD, Apizi ART, Li XD			
5382	Long-term rare giant sialolithiasis for 30 years: A case report and review of literature			
	Mao JS, Lee YC, Chi JCY, Yi WL, Tsou YA, Lin CD, Tai CJ, Shih LC			



Conton	World Journal of Clinical Cases
Conten	Thrice Monthly Volume 11 Number 22 August 6, 2023
5391	Kawasaki disease with peritonsillar abscess as the first symptom: A case report
	Huo LM, Li LM, Peng HY, Wang LJ, Feng ZY
5398	Treatment of a patient with severe lactic acidosis and multiple organ failure due to mitochondrial myopathy: A case report
	Chen L, Shuai TK, Gao YW, Li M, Fang PZ, Christian W, Liu LP
5407	Early esophageal carcinomas in achalasia patient after endoscopic submucosal dissection combined with peroral endoscopic myotomy: A case report
	An BQ, Wang CX, Zhang HY, Fu JD
	LETTER TO THE EDITOR

5412 Caution in the use of sedation and endomyocardial biopsy for the management of pediatric acute heart failure caused by endocardial fibroelastosis

Xin XX, Se YY



Contents

Thrice Monthly Volume 11 Number 22 August 6, 2023

ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Etiene Andrade Munhoz, PhD, Associate Professor, Department of Dentistry, Health Science Centre, Federal University of Santa Catarina, Florianopolis 88040-379, Brazil. etiamfob@yahoo.com

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The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

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CASE REPORT

Recurrent ventricular arrhythmia due to aconite intoxication successfully treated with landiolol: A case report

Chiaki Matsuo, Koji Yamamoto, Hidetada Fukushima, Daisuke Yajima, Hiroyuki Inoue

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Chiaki Matsuo, Koji Yamamoto, Hidetada Fukushima, Department of Emergency and Critical Care Medicine, Nara Medical University, Kashihara City 634-8522, Nara, Japan

Daisuke Yajima, Hiroyuki Inoue, Department of Forensic Medicine, School of Medicine, International University of Health and Welfare, Narita City 286-8686, Chiba, Japan

Corresponding author: Koji Yamamoto, MD, Doctor, Department of Emergency and Critical Care Medicine, Nara Medical University, 840 Shijotyo, Kashihara City 634-8522, Nara, Japan. k.yamamoto@naramed-u.ac.jp

Abstract

BACKGROUND

Ventricular arrhythmias, such as ventricular tachycardia and fibrillation, are the main causes of death in patients with aconite poisoning.

CASE SUMMARY

A 51-year-old man presented to our emergency department because he was vomiting after ingesting aconite root to attempt suicide. On arrival, the patient was hemodynamically unstable, and his electrocardiogram revealed polymorphic ventricular extrasystoles and non-sustained ventricular tachycardia. Amiodarone was immediately administered for ventricular arrhythmia. However, the patient remained unresponsive. We administered continuous intravenous landiolol as the ventricular arrhythmia worsened, gradually suppressing it. The patient returned to sinus rhythm 16 h after arriving at the hospital. Some aconitum alkaloids act on voltage-gated Na+- channels and induce ventricular or supraventricular tachyarrhythmias. Landiolol suppresses sympathetic nerve activity through its blocking effect, preventing arrhythmia.

CONCLUSION

Landiolol can be a therapeutic option for amiodarone-refractory ventricular arrhythmias caused by aconite intoxication.

Key Words: Aconite; Landiolol; Amiodarone; Arrhythmia; Toxicology; Case report

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Core Tip: Aconite is a well-known plant that contains highly toxic aconitines. Ventricular arrhythmias such as ventricular tachycardia and fibrillation are the main causes of death in patients with aconite poisoning. We encountered a case of polymorphic ventricular arrhythmia that occurred after aconite ingestion. This is the first case where landiolol successfully suppressed ventricular arrhythmia caused by aconite intoxication. Our study suggests that landiolol may be an alternative treatment for amiodarone-refractory ventricular arrhythmias caused by aconite intoxication and can improve the clinical outcomes of patients with aconite intoxication.

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INTRODUCTION

Aconite is the generic name for the genus Aconitum in the buttercup family. It is a perennial herb widely distributed in the northern temperate zone of the Northern Hemisphere. However, the plant contains aconitum alkaloids, among which aconitines including aconitine, mesaconitine, hypaconitine, and jessaconitine are potent cardiotoxins, neurotoxins, and gastrointestinal toxins. Arrhythmia is the most important prognostic factor, and various arrhythmias, from supraventricular to ventricular and bradycardia to tachycardia, have been reported. Ventricular arrhythmias such as ventricular tachycardia and fibrillation are the main causes of death in patients with aconite poisoning. As a pharmacological treatment for ventricular arrhythmias, amiodarone, which has a multichannel action, has been reported to be useful[1]. However, asides amiodarone, no definitive drug therapy is useful. Here, we report a case of polymorphic ventricular arrhythmia that appeared after aconite ingestion.

CASE PRESENTATION

Chief complaints

A 51-year-old man presented to our emergency department with a burning sensation in the stomach, vomiting, and diarrhea.

History of present illness

The patient ingested Aconitum japonicum root (estimated dose of 2 g) purchased from the Internet for suicide attempts. Immediately after ingestion, the patient experienced a burning sensation in the stomach, vomiting, and diarrhea, followed by tearing, drooling, and numbness in the face and extremities. He called for emergency medical service 4 h later and was transported to our emergency department.

History of past illness

Not applicable.

Personal and family history

Not applicable.

Physical examination

The patient could speak but was hemodynamically unstable (heart rate, 150 bpm; irregular rhythm; blood pressure, 56/24 mmHg). Electrocardiography on arrival revealed polymorphic ventricular extrasystoles and non-sustained ventricular tachycardia, indicating an electrical storm in the heart (Figure 1).

Laboratory examinations

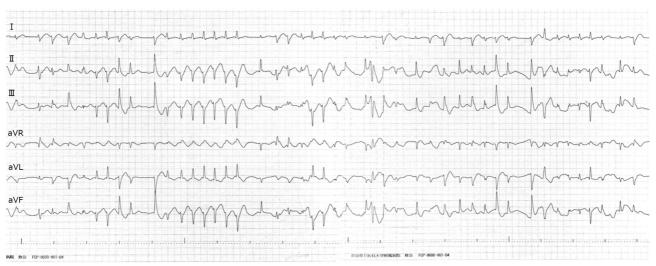
Qualitative and quantitative analysis of Aconitum alkaloids in 0.1 mL of the patient's serum was performed (Table 1). The Quick, Easy, Cheap, Effective, Rugged, and Safe (QuEChERS) method was a pretreatment method[2], and the supernatant (acetonitrile layer) was separated after centrifugation and evaporated to dryness under reduced pressure. The residue was dissolved in 0.15 mL of a 10 mmol/L ammonium formate/30% acetonitrile solution containing 0.1% formic acid. After centrifugation, the supernatant was analyzed using liquid chromatography-tandem mass spectrometry (LC-MS/MS).

LC-MS/MS was performed using a Nexera X2 high-performance liquid chromatography system (Shimadzu Corporation) and QTRAP 5500 mass spectrometer (AB SCIEX). A Unison UK-Phenyl column (150 mm × 2 mm, 3 µm, Imtakt Corporation) was used for chromatographic separation at 40°C with gradient elution using mobile phase A (10 mmol/L ammonium formate containing 0.1% formic acid) and mobile phase B (acetonitrile). The gradient elution



Table 1 Serum Aconitum alkaloid concentrations						
Compound	Serum concentration (ng/mL)					
Compound	4 h ^a	13 h	17 h	30 h		
Aconitine	0.05	0.014	0.011	ND		
Mesaconitine	0.252	0.043	0.027	ND		
Hipaconitine	ND	ND	ND	ND		
Jesaconitine	2.266	0.803	0.687	0.148		
Benzoylmesaconine	ND	ND	ND	ND		
Benzoylhipaconine	ND	ND	ND	ND		
14-anisoylaconine	0.049	0.111	0.115	0.065		

^aTime after ingestion. ND: Not detected.



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Figure 1 Electrocardiogram on admission. Electrocardiogram on admission presenting polymorphic ventricular extrasystoles and non-sustained ventricular tachycardia, indicating an electrical storm.

program was as follows: 30% to 50% B (15 min), 50% B (2 min), 50% to 30% B (0.01 min), and 30% B (5 min) at a flow rate of 0.2 mL/min. Ionization was performed using electrospray ionization (positive ion). The analysis was conducted in the multiple reaction monitoring (MRM) mode. The values of the monitoring ion (MRM transition) were 646.2/586.2 for aconitine, 632.0/572.2 for mesaconitine, 616.2/556.3 for hipaconitine, 676.1/616.2 for jessaconitine, 590.0/105.1 for benzoylmesaconine, 574.3/541.9 for benzoylhypaconine, 634.3/135.1 for 14-anisoylaconine, and 683.3/216.0 for methyllycaconitine (internal standard).

The ion chromatograms extracted from the sample pretreated with the serum sample had multiple peaks with the same retention time as the extracted ion chromatogram obtained from the same pretreatment of positive control serum. The product ion spectra of the peaks corresponding to aconitine, mesaconitine, jesaconitine, and 14-anisoylaconitine were consistent with those derived from each standard. The extracted ion chromatograms detected no peaks corresponding to hypaconitine, benzoylmesaconine, or benzoylhypaconine. The peaks in the extracted ion chromatograms for each compound were quantitatively analyzed using the calibration curves prepared with the peak area ratio of the internal standard.

FINAL DIAGNOSIS

Ventricular arrhythmia due to aconite intoxication.

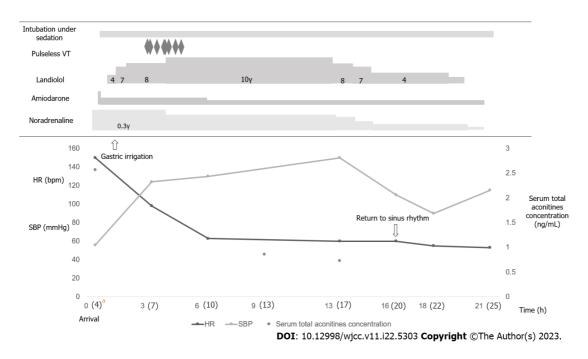


Figure 2 Time course after arrival at the hospital. The figure presents the time course of vital signs, treatment, and total serum aconitines concentration after arrival at the hospital. Total serum aconitines concentration is the sum of aconitine, mesaconitine, and jesaconitine concentrations. ^aAfter ingestion.

TREATMENT

After administering sedatives and vasopressors, the patient was intubated for resuscitation, and gastric lavage was performed. A bolus dose of 125 mg amiodarone was intravenously administered over 10 min (12.5 mg/min) to treat ventricular arrhythmia, followed by continuous intravenous administration of 300 mg amiodarone over the next 6 h (0.83 mg/min), which was maintained at 0.42 mg/min thereafter. However, this treatment was unsuccessful in suppressing the arrhythmia. We then administered low-dose landiolol (4 µg/kg/min) continuously and gradually increased it to 8 µg/kg/min because the arrhythmia worsened, resulting in decreased heart rate and frequency of ectopic ventricular rhythm. However, intermittent pulseless ventricular arrhythmia was observed 3 h after landiolol administration. Subsequently, we increased the landiolol dose to $10 \,\mu g/kg/min$, successfully suppressing the arrhythmia.

OUTCOME AND FOLLOW-UP

The patient recovered and had a hemodynamically stable sinus rhythm 16 h after arrival at the hospital. Thereafter, arrhythmia was not observed (Figure 2). The patient was extubated on day 2. After extubation, we asked the patient about his symptoms. We uncovered that the gastrointestinal and nervous symptoms on arrival had improved and he was asymptomatic, although no specific treatment was required. On day 4, he was transferred to the psychiatric ward for further treatment and discharged on day 81 without neurological sequelae.

DISCUSSION

In this case, continuous intravenous landiolol administration successfully suppressed fatal ventricular arrhythmias due to aconite intoxication, whereas amiodarone failed to suppress arrhythmia. To the best of our knowledge, this is the first case report in which landiolol successfully suppressed ventricular arrhythmia caused by aconite intoxication.Some aconitum alkaloids induce toxicity by inactivating the Na+ channel, prolonging cardiomyocyte repolarization. The association between aconitine blood levels and symptoms remains unclear. However, a previous study reported that ventricular arrhythmias might appear at an aconitine blood level of 1.0 ng/mL[3].

In this case, the blood concentrations on hospital arrival (4 h after ingestion) were 0.050 ng/mL, 0.252 ng/mL, and 2.266 ng/mL for aconitine, mesaconitine, and jesaconitine, respectively. The total blood aconitines level was 2.568 ng/mL. In this case, the blood concentration of aconitine alone was not high, but the total blood concentration of aconitines was high, which may have induced the arrhythmia symptoms. Cardiorespiratory support is key to successful resuscitation in hemodynamically unstable aconite-intoxicated cases.

Amiodarone is an antiarrhythmic agent in the Vaughan-Williams class III group and is prescribed for ventricular arrhythmia. This antiarrhythmic agent has also been reported to be effective for ventricular arrhythmia caused by aconite intoxication[1]. Unsuppressed ventricular arrhythmias can lead to cardiac arrest. Artificial hemodynamic support (such



as veno-arterial extracorporeal membranous oxygenation) is the only resuscitation strategy for fatal cases[4,5]. However, alternative treatment when amiodarone fails to control ventricular arrhythmia before a cardiac arrest has not been well investigated.

Recently, landiolol, a \u03b31-superselective intravenous adrenergic antagonist, was reported to be effective for ventricular arrhythmia refractory to amiodarone. A recent study from Japan revealed the effectiveness of landiolol for recurrent ventricular arrhythmia unresponsive to amiodarone[6]. Amiodarone, a multichannel blocker, primarily blocks the K+ channel, suppressing reentry by prolonging the refractory period[7]. Landiolol competitively blocks sympathetically mediated triggering mechanisms at β -adrenoreceptors, slowing the heart rhythm and inhibiting excessive calcium release by ryanodine receptor channels^[8]. Landiolol can suppress the trigger of abnormal automaticity because the mechanism of ventricular arrhythmia refractory to amiodarone is considered abnormal automaticity rather than the reentry mechanism.

Recurrent ventricular arrhythmia is also known as an "electrical storm." An electrical storm is a recurrent ventricular tachycardia or fibrillation occurring twice or more in 24 h[9]. Several case reports have indicated that aconite intoxication leads to an electrical storm[4,10,11]. The mechanism of the electrical storm in aconite poisoning involves the Na+ channelopening action of aconite and its sympathomimetic effects[11]. The arrhythmogenic potential of aconitine is partly due to its anticholinergic effects via the vagus nerve[12]. Owing to its sympathetic dominance, landiolol suppresses sympathetic activity and is expected to be effective against refractory ventricular arrhythmias caused by aconite intoxication.

CONCLUSION

In this case, continuous landiolol administration successfully suppressed fatal ventricular arrhythmias because of the possible electrical storm caused by aconite intoxication. This case report suggests that landiolol can be an alternative treatment for amiodarone-refractory ventricular arrhythmias caused by aconite intoxication.

FOOTNOTES

Author contributions: Matsuo C wrote the manuscript and prepared the figures; Yamamoto K and Fukushima H conceptualized and designed the study and critically revised the manuscript; Yajima D and Inoue H contributed to the analysis of the patient's serum samples; all authors read and approved the final manuscript.

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ORCID number: Koji Yamamoto 0000-0002-7373-5134; Hidetada Fukushima 0000-0001-8135-8626.

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