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Aslan M, Genez S, Türkmen Bekmez E. Acute Transverse Myelitis in a Case of Gastric Adenocarcinoma Following Gastrectomy: A Rare Occurrence. J Mol Virol Immunol 2021; 2(2): 49-51.

Makale numarası	JMVI-2021-008	Manuscript number	JMVI-2021-008
Ülke / Bölge	Türkiye	Country / Territory	Turkey
Kategori	Genel Cerrahi, Radyoloji, İmmünoloji	Category	General Surgery, Radiology, Immunology
Makale tipi	Olgu Sunum	Manuscript type	Case Report
Makale dili	İngilizce	Manuscript language	English
Özet ve makale başlığı	İngilizce ve Türkçe	Abstract and article title	English and Turkish
Bu makale çift-kör değerlendirmeden geçmiştir.		This article peer reviewed by double blind process.	
Makalenin gelişinden yayımlanma tarihine kadar toplam değerlendirme süresi	44 gün	Total evaluation time from the received of the article to the publication date (days)	44 days
Kabul edilen makalenin iThenticate benzerlik oranı (referanslar hariç)	%27	iThenticate similarity rate (excluding references)	27%
Kabul edilen makalenin ilk hakem değerlendirme puanlarının ortalaması (100 puan üzerinden)	78,2	Average of the reviewer first evaluation scores of the accepted article (out of 100 points)	78.2
Makale geliş tarihi	08.04.2021	Article received date	08.04.2021
Editör / Alan Editörü	Dr. Sadettin ER	Editor / Field Editor	Dr. Sadettin ER
Ön inceleme: Değerlendirmeye almak için temel kriterleri taşıyor mu?	Evet	Pre-review: Does it meet the basic criteria for taking the assessment?	Yes
iThenticate benzerlik oranı (ilk inceleme)	-	iThenticate similarity rate (first review)	-
Yazarların Ülkeleri / Bölgeleri	Türkiye	Author's Country / Territory	Turkey
Hakem atanması	2 hakem	Reviewer assignment	2 reviewers
Hakemlerin Ülkeleri / Bölgeleri	Türkiye	Reviewer's Country / Territory	Turkey
Hakem 1: İlk değerlendirme ve karar [makale puanı]	Minör revizyon [75,5]	Reviewer 1: First evaluation and decision [article score]	Minor revision [75.5]

Article Number and Title

JMVI-2021-008: "Acute Transverse Myelitis in a Case of Gastric Adenocarcinoma Following Gastrectomy: A Rare Occurrence."

Evaluate each of the criteria listed below with a score of 1 to 10.

1.	English and Turkish Language titles reflect the content of the article	8
2.	The level of reflection of the summary study content	5
3.	Compatibility of English and Turkish Language abstracts	9
4.	Sufficient and appropriate selection of keywords	6
5.	Scientific originality of the article	7
6.	Emphasizing the subject, aim and importance of the study in introduction	9
7.	Appropriate materials and methods used in the study	9
8.	Organization and presentation of the article	8
9.	Competence of the study in terms of language and expression	7
10.	Clarity, suitability and necessity of figures, pictures and tables	7
11.	Adequacy, necessity and actuality of references	8
12.	If the article is a review, does the article evoke the opinion that it is directly translated?	Hayır <input type="checkbox"/> Evet <input type="checkbox"/>

Reviewer decision	Accept <input type="checkbox"/>	Major revision <input type="checkbox"/>
	Minor revision <input checked="" type="checkbox"/>	Rejection <input type="checkbox"/>

Explanations:

The article presenting the case of acute transverse myelitis after gastrectomy operation and general anesthesia contains clinical and radiological educational and useful information. However, after the revisions shown in the text, I recommend that the manuscript be accepted for publication.

Increased signal was greater than two-thirds of the cross-sectional area of the cord on T2 weighted magnetic resonance imaging (MRI) (Figure 1). An emergent contrast-enhanced thoracolumbar spine MRI demonstrated a long segment intramedullary hyperintensity extending from T10 to L1. Ischemia of the spinal cord was ruled out and there was no lesion such as abscess and hematoma on contrast-enhanced MRI (Figure 2).

Gutowski et al. reported a case of acute transverse myelitis occurring after surgery under general anesthesia without epidural anesthesia [10]. In our case, the patient developed acute

transverse myelitis on a postoperative day two following general anesthesia without the use of spinal or epidural anesthesia.

Figure 1. Axial T2-weighted magnetic resonance image shows intramedullary hyperintensity occupying greater than two-thirds of the cross-sectional area of the spinal cord.

Figure 2. Contrast-enhanced T1 weighted sagittal magnetic resonance image reveals diffuse enhancement of spinal cord at T10-L1 level.

Hakem 2: İlk değerlendirme ve karar [makale puanı]

Kabul [80,9]

Reviewer 2: First evaluation and decision [article score]

Accept [80.9]

Article Number and Title

JMVI-2021-008: "Acute Transverse Myelitis in a Case of Gastric Adenocarcinoma Following Gastrectomy: A Rare Occurrence."

Evaluate each of the criteria listed below with a score of 1 to 10.

1.	English and Turkish Language titles reflect the content of the article	10
2.	The level of reflection of the summary study content	6
3.	Compatibility of English and Turkish Language abstracts	9
4.	Sufficient and appropriate selection of keywords	6
5.	Scientific originality of the article	7
6.	Emphasizing the subject, aim and importance of the study in introduction	8
7.	Appropriate materials and methods used in the study	9
8.	Organization and presentation of the article	9
9.	Competence of the study in terms of language and expression	8
10.	Clarity, suitability and necessity of figures, pictures and tables	9
11.	Adequacy, necessity and actuality of references	8
12.	If the article is a review, does the article evoke the opinion that it is directly translated?	Hayır <input type="checkbox"/> Evet <input type="checkbox"/>

Reviewer decision	Accept <input checked="" type="checkbox"/>	Major revision <input type="checkbox"/>
	Minor revision <input type="checkbox"/>	Rejection <input type="checkbox"/>

Explanations and reviews:

The article can be accepted for publication. Suggestions:

1. Increased signal was...
2. Lyme disease and anti-amphiphysin, anti-Hu, anti-Yo, anti CV2, anti Ma2, anti Ri, Sox1 antibody, Zic4 and GAD65,...
3. New keywords can be added

Hakemlere yanıt ve revizyonlar

Answering reviewers and revisions

Editor comments

Figures 1 and 2 merged, should be corrected as Figures 1A and 1B in the text.

Corrections were carried out.

Reviewer 1

The article presenting the case of acute transverse myelitis after gastrectomy operation and general anesthesia contains clinical and radiological educational and useful information. However, after the revisions shown in the text, I recommend that the manuscript be accepted for publication.

Increased signal was greater than two-thirds of the cross-sectional area of the cord on T2 weighted magnetic resonance imaging (MRI) (Figure 1). An emergent contrast-enhanced thoracolumbar spine MRI demonstrated a long segment intramedullary hyperintensity extending from T10 to L1. Ischemia of the spinal cord was ruled out and there was no lesion such as abscess and hematoma on contrast-enhanced MRI (Figure 2).

Gutowski et al. reported a case of acute transverse myelitis occurring after surgery under general anesthesia without epidural anesthesia [10]. In our case, the patient developed acute transverse myelitis on a postoperative day two following general anesthesia without the use of spinal or epidural anesthesia.

Figure 1. Axial T2-weighted magnetic resonance image shows intramedullary hyperintensity occupying greater than two-thirds of the cross-sectional area of the spinal cord.

Figure 2. Contrast-enhanced T1 weighted sagittal magnetic resonance image reveals diffuse enhancement of spinal cord at T10-L1 level.

Corrections were completed according to referee suggestions.

Reviewer 2

Explanations and reviews:

The article can be accepted for publication. Suggestions:

1. Increased signal was...
2. Lyme disease and anti-amphiphysin, anti-Hu, anti-Yo, anti CV2, anti Ma2, anti Ri, Sox1 antibody, Zic4 and GAD65,...
3. New keywords can be added.

Corrections were completed according to referee suggestions. A new keywords "Adenocarcinoma, Magnetic resonance imaging" were added.

Hakem 1: Revizyon sonrası değerlendirme	Kabul	Reviewer 1: Evaluation after revision	Accept
This report can be accepted for publication.			
iThenticate benzerlik oranı (son inceleme)	%27	iThenticate similarity rate (last review)	27%

Abstract

Acute transverse myelitis is a rare complication after surgical intervention. This is most likely related to the use of spinal or epidural anesthesia and is very rare after general anesthesia. In this article, we aimed to present a case of acute transverse myelitis that developed after laparoscopic total gastrectomy under general anesthesia.

Keywords: Transverse myelitis, General anesthesia, Gastrectomy, Adenocarcinoma, Magnetic resonance imaging.

Özet

Cerrahi müdahaleden sonra akut transvers myelit nadir görülen bir komplikasyondur. Bu durumun öncelikle spinal veya epidural anestezik ile ilgili olabileceği düşünülmekte olup genel anesteziden sonra çok nadir görülmektedir. Bu yazıda genel anestezik eşliğinde laparoskopik total gastrektomi sonrası gelişen akut transvers myelit olgusuna sunmaya amaçladık.

Anahtar Kelimeler: Transvers myelit, Genel Anestezik, Adenokarcinom, Manyetik rezonans görüntüleme.

Introduction

Transverse myelitis is a rare focal inflammatory disorder of the spinal cord, resulting in motor, sensory, and autonomic dysfunction [1]. Demyelinating, infectious, hematologic, rheumatologic, and vascular disorders are the most common causes [2,3]. Acute transverse myelitis after surgery is also a rare but devastating complication. According to the literature, it is mostly related to spinal or epidural anesthesia and cases with general anesthesia are quite exceptional [4-6]. In this case report, we present a gastric cancer patient who developed acute transverse myelitis following laparoscopic total gastrectomy under general anesthesia.

Case Report

A 61-year-old man presenting with weight loss and abdominal pain was diagnosed with adenocarcinoma of the stomach in December 2019. He had no other past medical history. He received neoadjuvant docetaxel, oxaliplatin, leucovorin, and 5-fluorouracil (FLOT-4). After four cycles of chemotherapy, repeat imaging showed a decrease in tumor size and he was scheduled for a laparoscopic total gastrectomy for proximal gastric cancer in March 2020.

General anesthesia was induced without applying epidural anesthesia. The surgery was uneventful. However, he developed paraplegia and urinary retention on postoperative day two.

Examination by a neurologist revealed the absence of the reflexes in both lower limbs and decreased thermal nociception in both dermatome T10-T12 also bladder and rectal dysfunction. Neurophysiological

27%
SIMILARITY INDEX

PRIMARY SOURCES

1	core.ac.uk	82 words – 9%
2	www.thieme-connect.com	46 words – 5%
3	worldwidescience.org	29 words – 3%
4	Tetsuya Shimada, Shinya Yufune, Motoshi Tanaka, Ryosuke Akai, Yasushi Satoh, Tomiei Kazama. "Acute transverse myelitis arising after combined general and thoracic epidural anesthesia", JA Clinical Reports, 2015	26 words – 3%
5	"Diseases of the Brain, Head and Neck, Spine 2016-2019", Springer Nature, 2016	23 words – 3%
6	link.springer.com	12 words – 1%
7	ijnl.tums.ac.ir	10 words – 1%
8	docplayer.net	8 words – 1%

Editör / Alan Editörü kararı	Kabul edildi	Decision of Editor / Field Editor	Accepted
Although the iThenticate similarity index was high, it was evaluated that this was related to the shortness of the article text and scattered to different sources.			
İngilizce Dil Editörü	Öğr.Gör. Mehmet ASLAN	English Language Editor	Lect. Mehmet ASLAN
Makale kabul tarihi	18.05.2021	Article accepted date	18.05.2021
Makale yayımlanma tarihi	22.05.2021	Article published date	22.05.2021