

Review Form 1.6

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_77329
Title of the Manuscript:	ECAST Syndrome(Exercise collapse associated with Sickle Cell Trait): first knock of sickle cell in a Young Bodybuilder
Type of the Article	Case report

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p>	<p>This case report details an example of ECAST. The article is valuable because it describes the appropriate diagnosis and treatment of a rare complication of SCT. However, the text requires major revision for several reasons. First, the scientific background in the introduction is not well-explained, is unclear, and verges on inaccurate. Second, more information about the patient's initial symptoms and the environment where the event took place could improve the value of this article. Finally, there are major issues with wording, grammar, and clarity throughout the text. The article should benefit from detailed editing (from a native English speaker if possible) before publication. Please find my detailed comments below:</p> <p>Introduction Unfortunately, the introduction is poorly written for two reasons. First, there are issues with grammar and clarity. Second, the differences between sickle cell trait and sickle cell anemia are not well-explained, and the causes of red blood sickling and vaso-occlusion in the context of SCT and SCD are poorly explained. The authors should consult and cite key references such as, Kato GJ, Piel FB, Reid CD, Gaston MH, Ohene-Frempong K, Krishnamurti L, Smith WR, Panepinto JA, Weatherall DJ, Costa FF, Vichinsky EP. Sickle cell disease. Nat Rev Dis Primers. 2018 Mar 15;4:18010. doi: 10.1038/nrdp.2018.10. PMID: 29542687.</p> <p>Case report The examination, diagnosis, and treatment plan are well-described. It would be interesting to know more about the patient's initial symptoms. Was the patient asked about his symptoms prior to collapse? For example, was he asked where he first felt pain? Past reports have shown that pain is often initially felt disproportionately in the lower limbs and lower back. Was the patient's temperature taken? Individuals experiencing ECAST often have high body temperatures. Similarly, it would be highly interesting to add more information about the environment where the patient experienced ECAST. Was the temperature elevated? Was the gym in a city at high elevation? This section is also poorly written. There are repetitive problems with grammar and punctuation.</p> <p>Discussion The following sentence, "Extremely low muscle oxygen, raised body temperature and dehydration all contribute to sickling of red blood cells when an individual with sickle cell trait exercises". To clarify that these factors can contribute, and do not always cause sickling. The authors reference the environmental factors that can contribute to ECAST, but do not discuss the environment where this case took place. For example, was the Gym where the event took place in a city at high elevation, or was the temperature high that day? Could the authors provide any more detailed information about exactly what exercises the patient was performing? The last paragraph of the discussion repeats the information already included in the Case Report and should be deleted.</p>	

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Minor REVISION comments		
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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