Author's response to reviews

**Title:** Left ventricular systolic dysfunction in a patient with accidental hypothermia: a case report

**Authors:**

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**Author's response to reviews:** see over
Dear Dr. Michael Kidd AM

In accord with your letter of October 10, 2012, we have revised our manuscript entitled “Left ventricular systolic dysfunction in a patient with accidental hypothermia: a case report”, written by Takanao Mine et al.

We listed the specific changes made in the manuscript on separate sheets.

We are grateful for the helpful suggestions.

With all best regards, and thanking you and the reviewers.

Sincerely yours,

Takanao Mine, M.D.
Department of Internal Medicine,
Cardiovascular Division,
Hyogo College of Medicine
To Dr. Katerina Linhartova

Thank you for your comment about our manuscript. I am pleased that you are interested in our paper, and hope that I can answer your question adequately. I understand that final acceptance depends on satisfactory resolution of these issues.

1. Is the anonymity of the patient protected? ...
   The anonymity of the patient has been protected. Nishinomiya Kyuritsu is the name of the hospital, not patient
2. The authors should document recovery ... especially of the ejection time.
   According to your suggestion, we added the sentences of line 5, page 5 and line 13, page 5.
3. As prolonged ejection time...systolic dysfunction should be discussed.
   According to your suggestion, we added the sentences of line 12, page 6 and references 7.
4. At the video the LV dimensions seem.....? 
   Initially, the state of hypothermia caused left ventricular systolic dysfunction. Then the patient possibly showed pleural effusion and the enlargement of the right ventricle due to left-sided heart failure. After continuing comatose, the lowering afterload according to lowering blood pressure or dehydration might have decreased the left ventricle diameter. The right ventricle might have showed good systolic function because it was easy to respond to rewarming right ventricle close to the body surface.
5. In the sentence "While the pathophysiology...... dysfunction is unclear....... 
   According to your suggestion, we omitted “not” in the sentence "While the pathophysiology ... may play a role [7]".

We have attempted to answer all your questions and to rewrite our manuscript according to your recommends and advise as possible I can. We now wish to submit the revised version of our manuscript.
To Dr. Martin Simek

Thank you for your comment about our manuscript. I am pleased that you are interested in our paper, and hope that I can answer your question adequately. I understand that final acceptance depends on satisfactory resolution of these issues.

1. Lacking definition of hypothermia…..
   As you pointed out, lacks measurement of a center temperature as the definition of hypothermia. Emergency room staff had begun treatment as hypothermia patients from circumstantial evidence without measuring the patient’s core temperature. As you indicated, this case might be a mild, mild to deep accidental hypothermia. I am sure to be an accidental hypothermia case from the situation where the patient was found.

2. Facing with comatose patients with entry GCS 4……the case
   According to your suggestion, we added the blood saturation and gas blood analysis results. And we have not unfortunately measured toxicological analysis from the patient background.

3. In discussion, treatment strategies …. 
   According to your suggestion, we added the sentences of line 3, page 7 and references 9.

4. Aid of native speaker in re-evaluation …
   I had my paper checked by a native speaker before resubmit.

   We have attempted to answer all your questions and to rewrite our manuscript according to your recommends and advise as possible I can. We now wish to submit the revised version of our manuscript.