Reviewer's report

Title: HYPERHOMOCYSTEINEMIA IN BILATERAL ANTERIOR ISCHEMIC OPTIC NEUROPATHY AFTER CONVENTIONAL CORONARY ARTERY BYPASS GRAFT: A CASE REPORT

Version: 1 Date: 12 Jun 2017

Reviewer: Chaithra Aroor

Reviewer's report:

1. Do you believe the case report is authentic?
Yes

2. Do you have any ethical concerns? Please consider if local Institutional Review Board approval or ethical approval was obtained (if appropriate) and if the patient (or their parent or guardian in the case of children under 18) gave written, informed consent to publish this case and any accompanying images. A statement to this effect should appear in the manuscript.
Comments: Nil

3. Does the Introduction explain the relevance of the case to the medical literature?
Yes

4. Does the article report the following information? Where information is missing, please specify.
a. The relevant patient information, including:
   - De-identified demographic information (age, gender, ethnicity)
   - Main symptoms of the patient
   - Medical, family and psychosocial history
   - Relevant past interventions and their outcomes
Yes
b. The relevant physical examination findings: Yes

c. Important dates and times in this case (if appropriate, organized as a timeline via a figure or table); if specific dates could lead to patient identification, consider including time relevant to initial presentation, i.e. initial presentation at T = 0, follow up at T = 1 month.

Yes

d. Diagnostic assessments, including:
   - Diagnostic methods
   - Challenges (e.g., financial, language/cultural)
   - Reasoning and prognostic characteristics (e.g., staging), where applicable

Yes

e. Types and mechanism of intervention Yes

f. A summary of the clinical course of all follow-up visits

Comments: Yes included

5. Is the interpretation (discussion and conclusion) well balanced and supported by the case presented?

Comments: Yes

6. Is the anonymity of the patient protected? Please consider any identifying information in images such as facial features or nametags, whether the patient is named etc. If not, please detail below.

Yes
7. Is the Abstract representative of the case presented?

Comments: YES

8. Does the case represent a useful contribution to the medical literature?

Comments: yes

9. Additional comments for the author(s)?

An analysis of laboratory findings before surgery revealed an hyperhomocysteinemia: Remove 'an' from the sentence

A clinical finding independent by surgery like hyperhomocysteinemia could increase the risk of ocular vascular damage and bilateral involvement in patient underwent Conventional Coronary Artery Bypass Graft.:This sentence needs correction

In both eyes computerized perimetry showed an absolute and general reduction of the retinal sensibility within 30 degrees around the fixation point.:Instead of retinal sensibility, sensitivity would be the preferred terminology

Remove 'an' from this sentence: In both eyes fluorescein angiography showed an hypofluorescence of optic disc in early fase due to filling delay followed by hyperfluorescence with leakage from disc capillaries in late fase of angiogram.

We prescribed folid acid and B-complex vitamins supplementation.:Please mention when was he managed with these supplements.For example: We prescribed folid acid and B-complex vitamins to the patient, when he presented to us with the visual complaints.

In that paper authors analyzed many preoperative variables like age, medical history, Body Mass Index, mean arterial pressure and hematocrit founding no significant difference between17 patients with perioperative ION and 34 control patients. : Edit this sentence

In our patient we found different systemic and non-correlated-to-surgery factors like hypertension, mild anemia and diabetes which could had reduced tolerance to hypotension of optic nerve blood flow during CABG procedure. Edit this sentence
Furthermore we found also a moderate hyperhomocysteinemia probably correlated with patient smoking history.

Hyperhomocysteinemia is an independent risk factor for myocardial infarction [8] which could promote atherosclerosis graft, one of the main limitations of long-term survival of patients underwent CABG, [29] but also a risk factor for vascular eye pathologies.

Although the CCABG might induce many complications, the preoperative conditions of the patient like hyperhomocysteinemia could rise up postoperative complications especially when these clinical conditions are known like risk factors of ocular vascular damage.

**Level of interest**

Please indicate how interesting you found the manuscript:

An article of importance in its field

**Quality of written English**

Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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