Reviewer’s report

Title: Acromegaly resolution after traumatic brain injury: case report

Version: 3
Date: 15 May 2014

Reviewer: Vera Popovic

Which of the following best describes what type of case report this is?: Unexpected or unusual presentations of a disease

Has the case been reported coherently?: Yes

Is the case report authentic?: Yes

Is the case report ethical?: Yes

Is there any missing information that you think must be added before publication?: No

Is this case worth reporting?: Yes

Is the case report persuasive?: Yes

Does the case report have explanatory value?: Yes

Does the case report have diagnostic value?: Yes

Will the case report make a difference to clinical practice?: Yes

Is the anonymity of the patient protected?: Yes

Comments to authors:

Major comments that needs to be discussed in this interesting case report is the possibility that apoplexy of the pituitary tumor which may have occurred and caused hypopituitarism with subsequent tumor shrinkage. Pituitary apoplexy is very common in macroadenomas and some are asymptomatic and may resolve spontaneously. The mechanism of apoplexy are several 1. Rapidly expanding adenoma outgrows its blood supply (ischemic necrosis) 2. Suprasellar extension leads to compression of pituitary portal blood supply 3. Intrinsic vasculopathy supporting a pituitary tumor. There are risk factors for pituitary apoplexy.

# Risk factors for pituitary apoplexy
– Major surgery (cardiac)
– Dynamic pituitary testing
– Anticoagulation treatment
– Coagulopathies
– Head trauma
– Dopamine agonists
– Acute systemic illness
– Pregnancy and oral contraceptives
– Diabetes mellitus
– Hypertension

The presented case had several risk factor: head trauma, dynamic pituitary testing (TRH test), diabetes mellitus).

Recommended literature
# Watt A et al. Nature Clinical Practice Endocrinology & Metabolism 2008


**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Declaration of competing interests:**

I declare that I have no competing interests