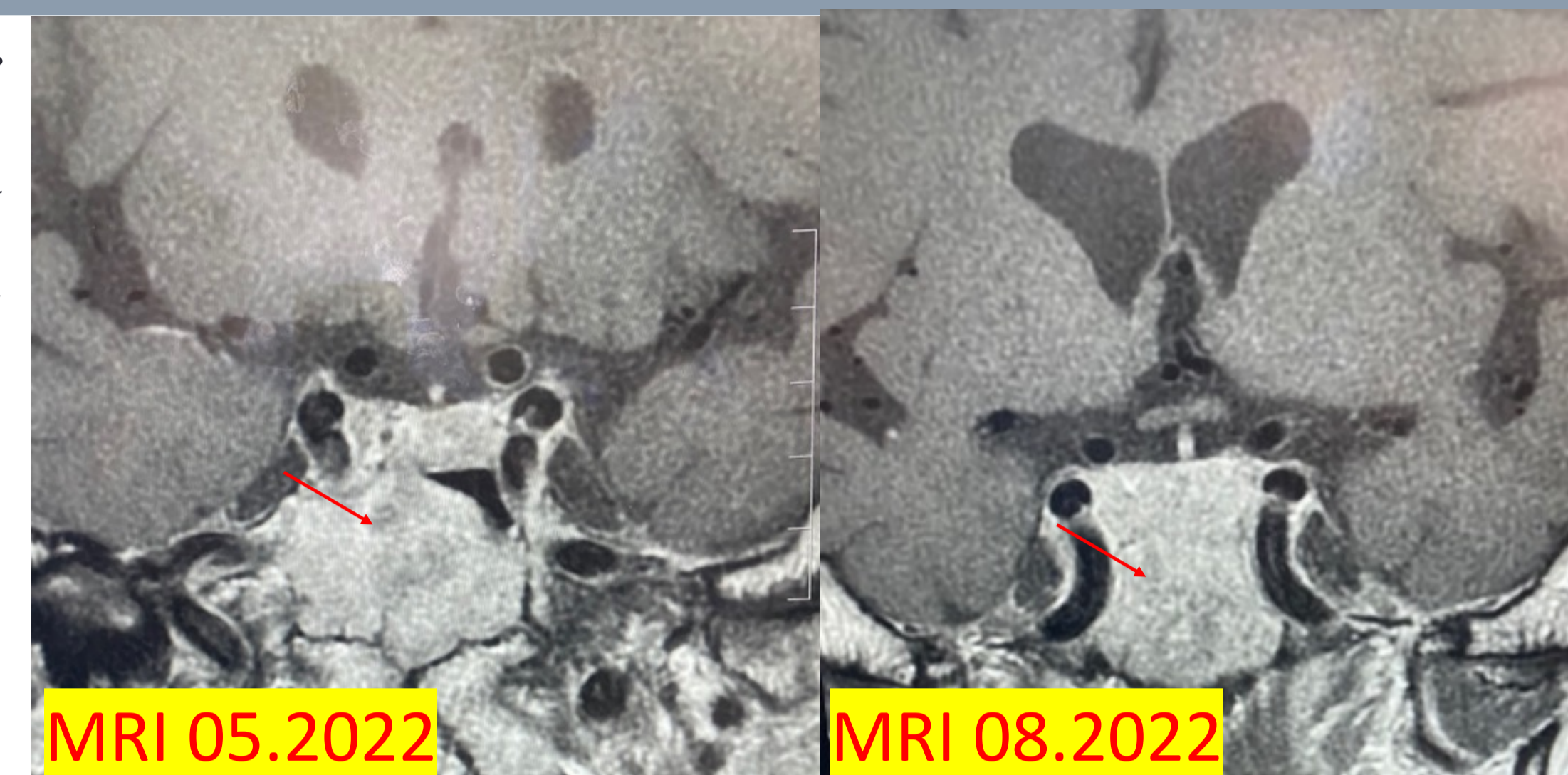


INTRODUCTION

Giant prolactinomas constitute 2-3% of all lactotroph PitNETs with male preponderance. We present five male patients with giant prolactinomas with various clinical presentations.

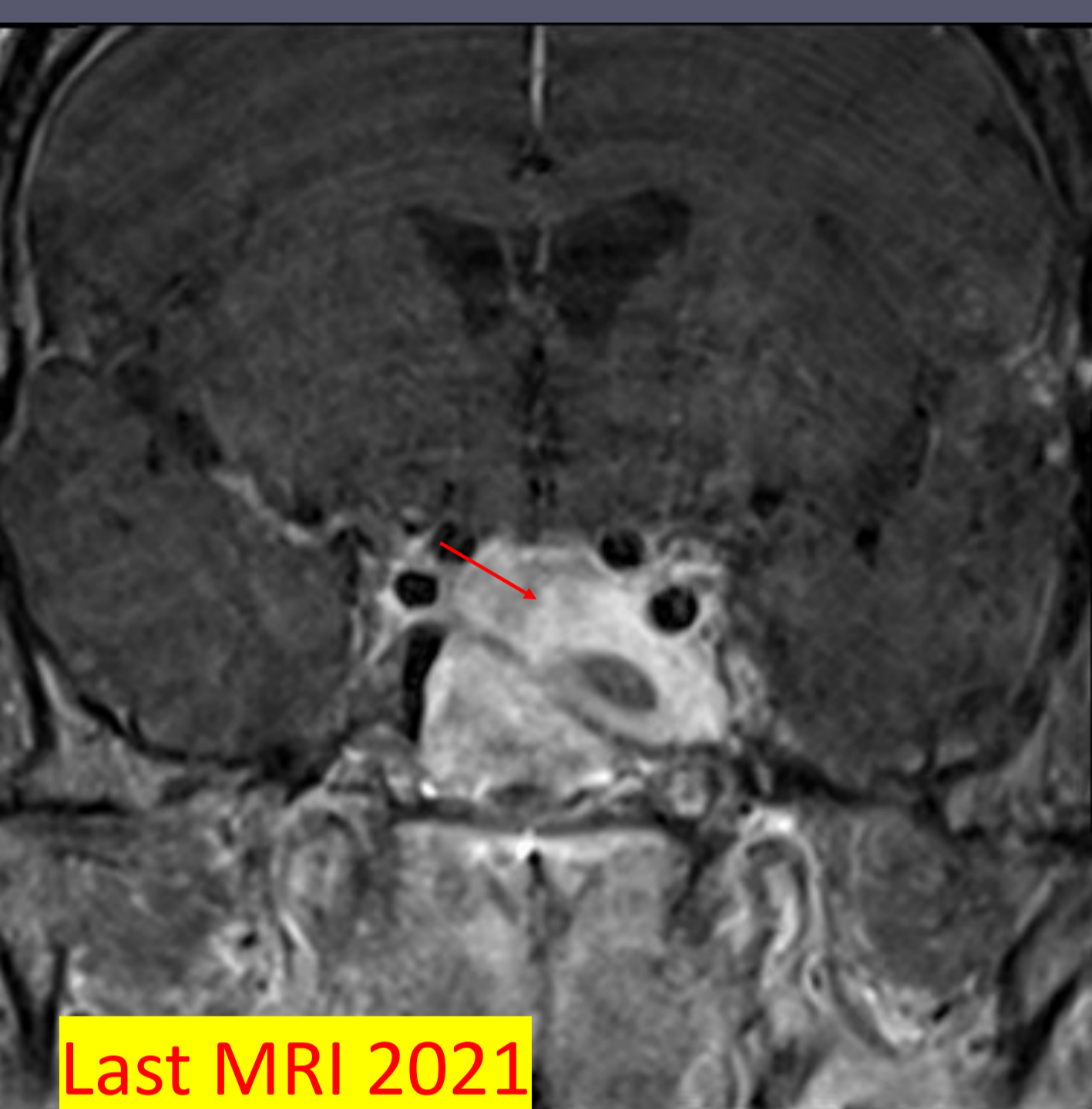
CASE 1.

A 66-year-old male hospitalized due to left peripheral facial palsy. In computer tomography (CT) pituitary mass (41x43x64mm) invading cavernous/sphenoid sinuses/carotid arteries/optic chiasm was visualized. Bitemporal hemianopia/headaches/decreased libido were observed. Prolactin level was 22083 uIU/ml (N: 86-324uIU/ml). Cabergoline up to 1mg/week was implemented. After 3 months, regression of pituitary tumor by 14mm and normal range prolactin level were observed. Milder headaches and improvement of visual field were reported.



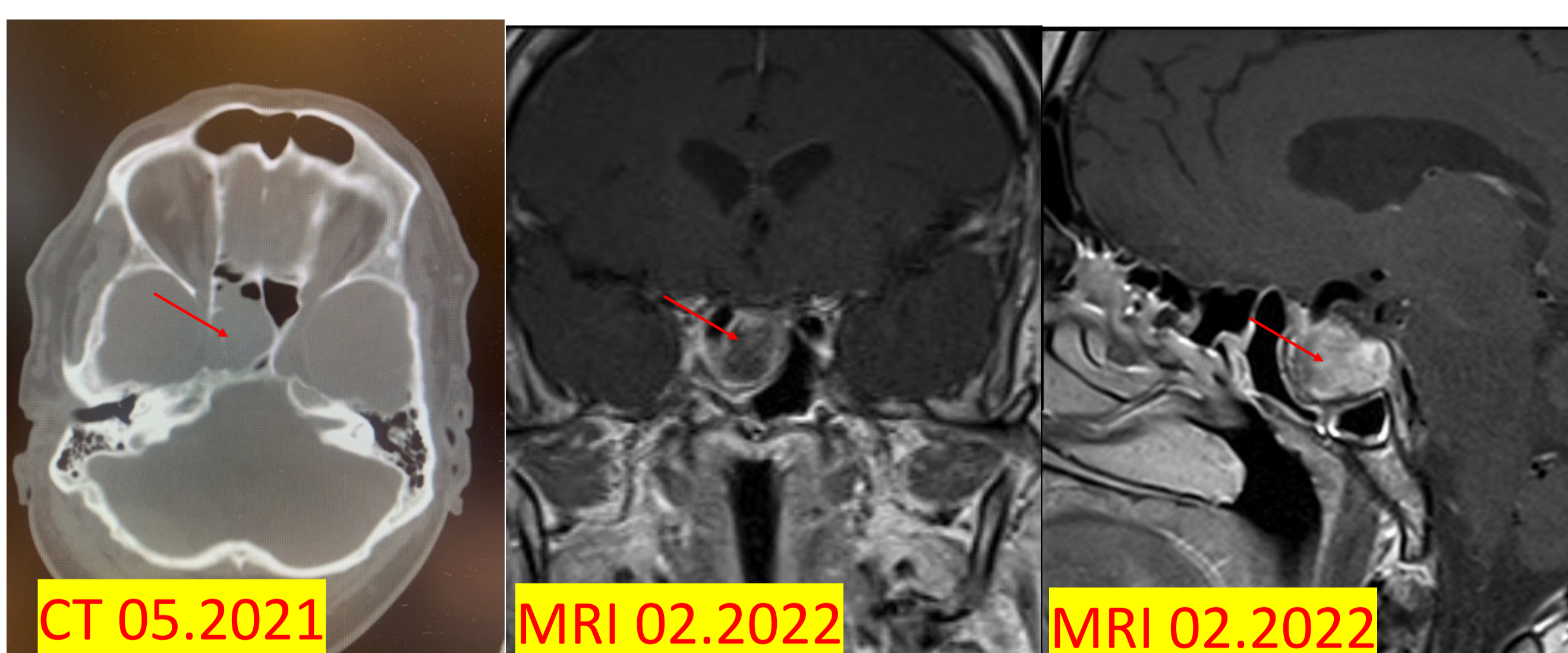
CASE 2.

A 62-year-old male presented with life-threatening panhypopituitarism/diabetes insipidus at the age of 52. In MRI pituitary tumor 36x62x35mm with extrasellar extension/optic chiasm compression/invading third ventricle was found. Prolactin level was 223549uIU/ml. Despite dopamine agonist treatment (bromocriptine 22.5 mg/day and cabergoline 1.5 mg/week) progression of pituitary tumor/high prolactin level were observed. In 2016 patient did not consent to neurosurgery. Short-acting somatostatin analogues was introduced. In 2019, significant visual field deterioration was observed- patient consent to craniotomy. Histopathology revealed lactotroph-PitNET with Ki67>3%. After 6 months, tumor progression was noted. Patient was disqualified from radiotherapy. Temozolomide (200mg/m² per 5 days every 28 days) was introduced. After 9 cycles, regression of pituitary tumor was observed and decrease of prolactin level by 2600%.



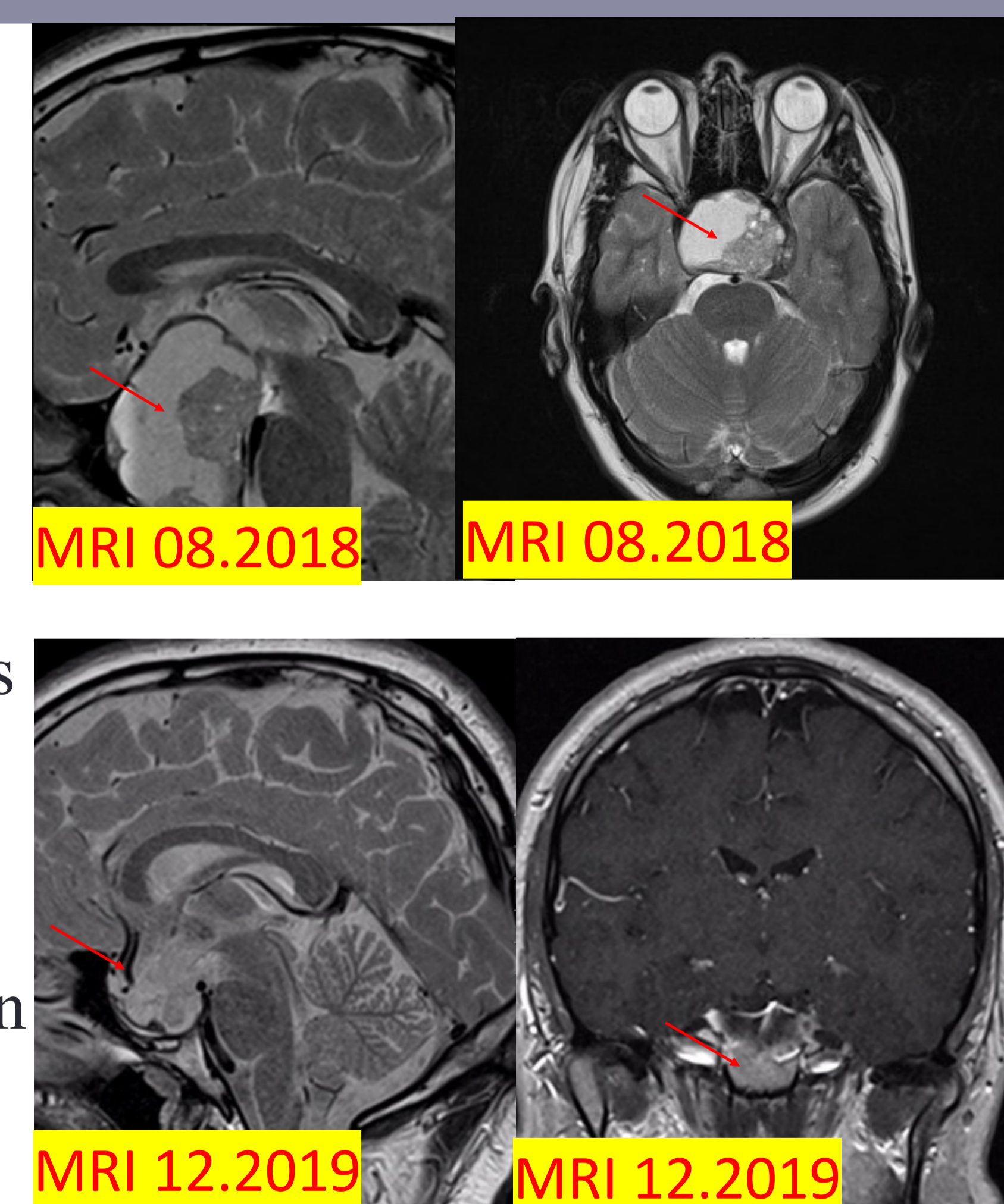
CASE 3.

A 56-year-old male was hospitalized due to syncope. In CT pituitary tumor 40x30mm was diagnosed with bitemporal hemianopsia. Prolactin level was 10446uIU/ml. Cabergoline(1mg/week) was implemented. After 3 months, regression of pituitary tumor (21x26x19mm)/normal prolactin level/improvement of vision were noted.



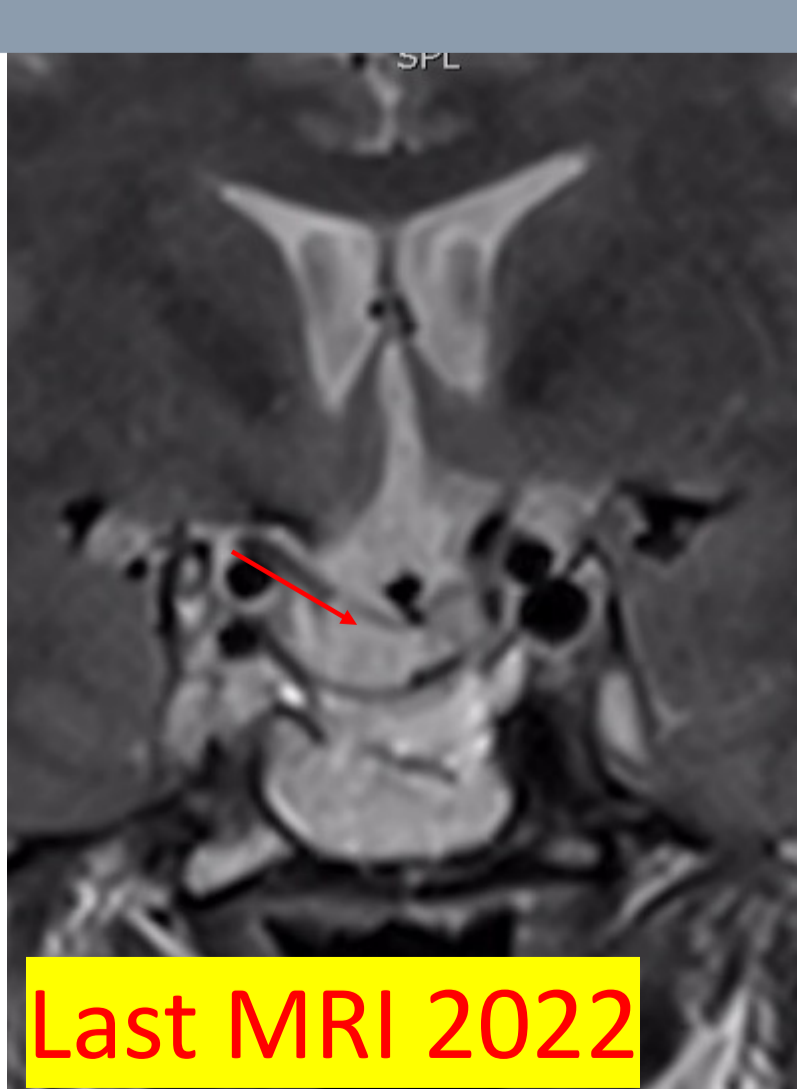
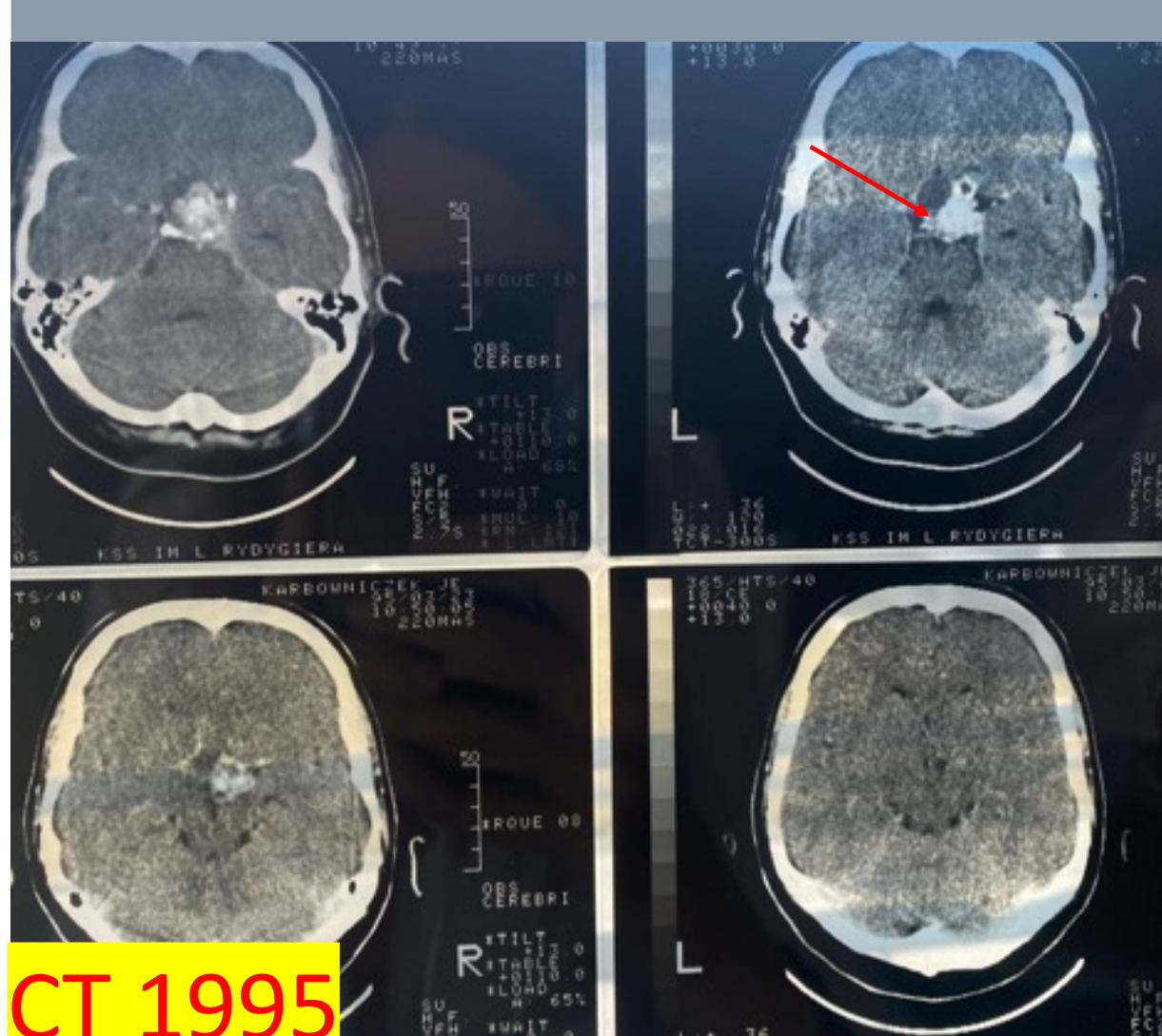
CASE 4.

A 23-year-old male presented with severe headaches and visual impairment at the age of 21. In MRI pituitary mass 52x52x41mm with extrasellar extension was found. Prolactin level was 21522uIU/ml. Insufficiency of thyroid and gonadal axis was diagnosed. Cabergoline was implemented (4mg/week) with regression of the tumor (25x13x23 mm), decrease of prolactin level (8400uIU/ml) and complete remission of headaches. Cabergoline was decreased to 2mg/week.



CASE 5.

A 67-year-old male diagnosed with a pituitary tumor (65x35x40mm) at the age of 50 years. Due to hyperprolactinemia, cabergoline was implemented (7mg/week). After few weeks, pituitary apoplexy occurred. Patient underwent emergency neurosurgery. Insufficiency of thyroid, adrenal and gonadal-axis appeared. MRI over next 20years demonstrated stable residual tumour(22x28x11mm). Patient is now treated with 0.25mg of cabergoline/week.



CONCLUSIONS

The management of giant prolactinomas in men is challenging. Studies on prognostic factors of the efficient treatment in prolactinomas are needed.