# Duct ectasia, a rare complication of gynaecomastia

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Non-disclosure statement

#### Introduction

Mammary duct ectasia is a bening breast condition which affects primarily middle-aged to elderly women. However, it can occurs wherever there is breast ductal epithelium.

**Case report** 

9yr old boy referred due to: gynecomastia

## Past medical history:

- Pubic hair development started at the age of 8.
- His mother noticed bilateral breast enlargement at the aged of 6. No discharge from the nipples.

# Family history: unremarkable

**Examination:** growth parameters adequate by age (height 0.5, weight 1,1SD).

- Tanner stage 1
- Bilateral gynaecomastia with no signs of inflammation.
- Genitalia: normal male configuration.

Rest of the general examination was unremarkable.

# Investigations

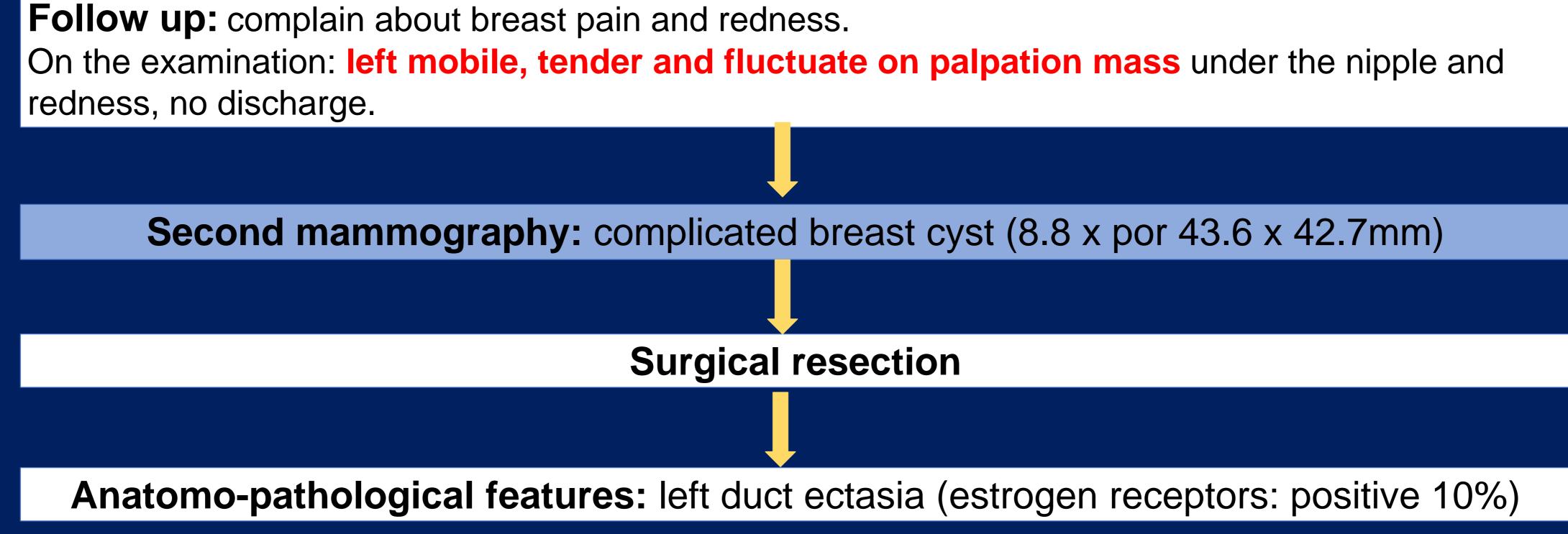
## Initial investigations

- Liver, kidney and thyroid function test: normal range.
- Testosterone 0.16ng/ml [1.8-8], oestradiol 9 pg/ml [<25], prolactin 8.7 ng/ml [3-27], LH 0.06 UI/L[<0.3] and FSH 0.9 UI/L [<3] and human chorionic gonadotropin (hCG) <1.2mUI/mI [0-5].
- Karyotype 46XY.

Mammography: compatible with gynaecomastia

Scrotum ultrasound scan: no pathological features

**Initial diagnosis:** idiopathic gynaecomastia.



Secondary diagnosis: duct ectasia in a boy with gynecomastia self-limiting



We described one of the few cases reported of duct ectasia in a 9 years old male. It is well known that in the vast majority, gynaecomastia is self-limiting, however it is necessary to be aware of its posible complicactions in order to avoid mistakes and familial stressed as mammary duct ectasia can mimic invasive carcinoma clinically.

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