

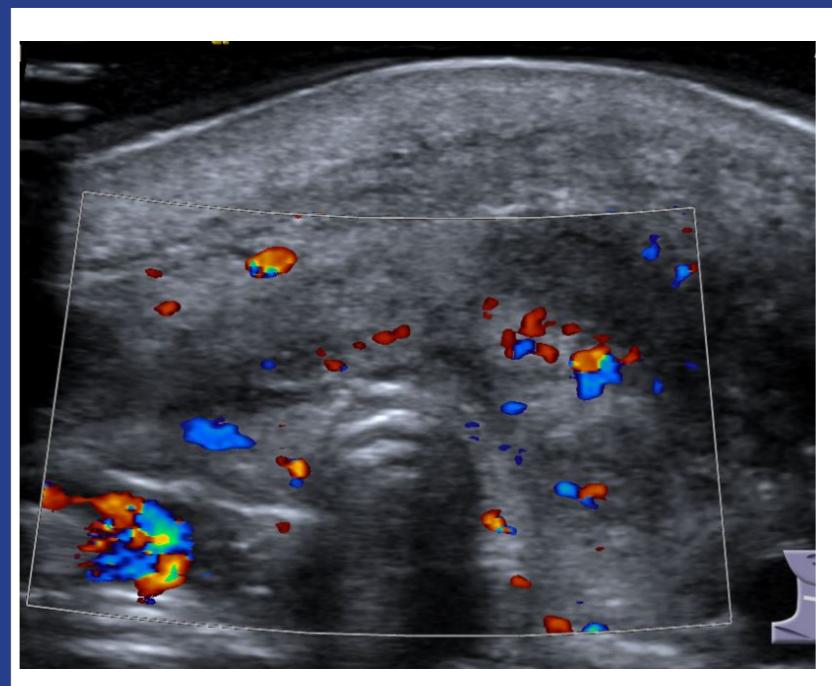
INTRODUCTION

- Bacterial infection of the thyroid (acute suppurative thyroiditis, AST) is a very rare condition, particularly in children, as the thyroid gland is extremely resistant to infection.
- > Typical presentation with painful anterior neck mass, fever, sore throat, dysphagia, leucocytosis, elevated inflammation parameters.

CASE REPORT

- 6 year old girl with acute painless neck enlargement, without further symptoms.
- > On palpation hard neck mass, without erythema, CRP and ESR only slightly elevated.
- > Normal Thyroid hormone levels.
- Calcitonin elevated.
- Progressive neck swelling within a week with erythema and tenderness, without fever or pain, ESR elevation to maximum 49 mm/hr.
- > Fine needle aspiration biopsy: -Cytology negative for malignancy. -Positive culture for Prevotella oris
- Treatment with clindamycin for 4 weeks
- ESR and calcitonin returned to normal within 6 weeks.
- \blacktriangleright No recurrence on 6 months follow up.





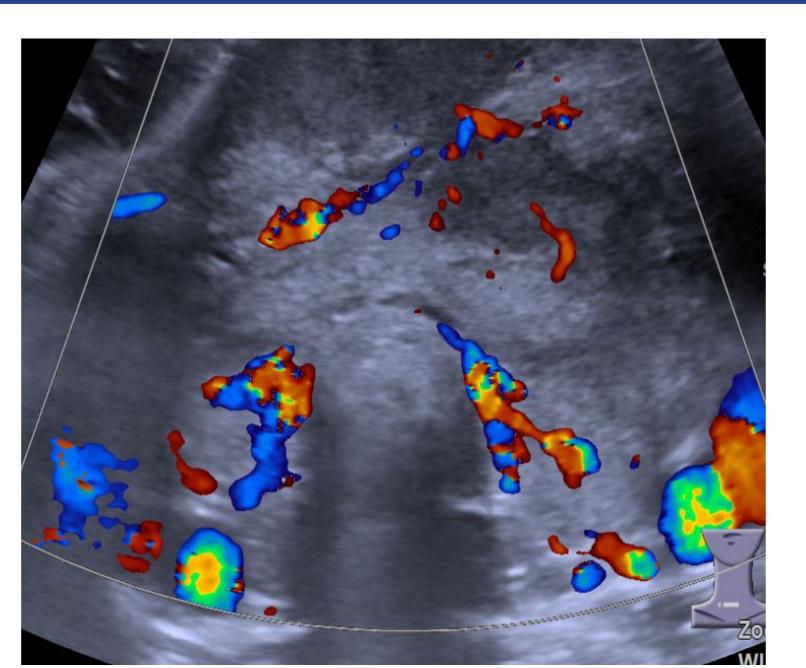
1st week



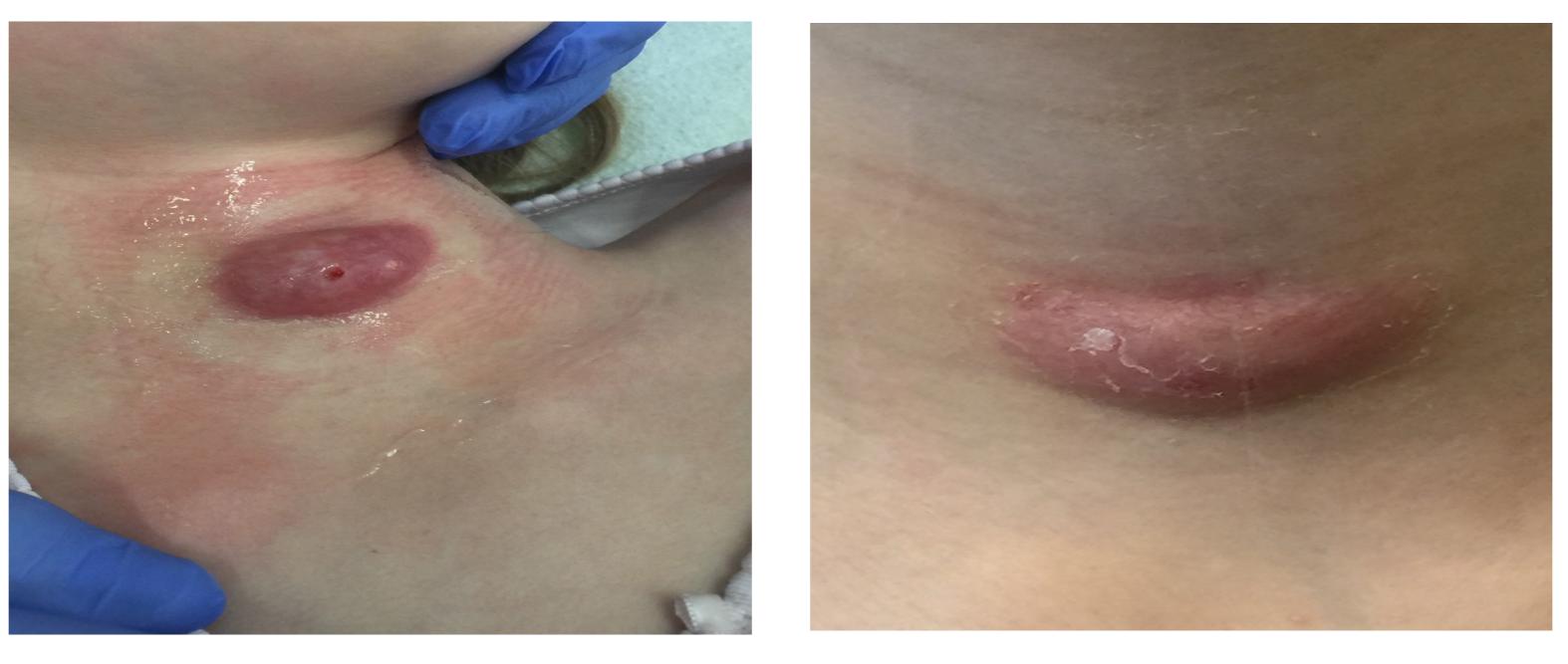
2nd week.

ATYPICAL PRESENTATION OF ACUTE SUPPURATIVE THYROIDITIS IN A 6 YEAR OLD CHILD

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2nd week



2nd week

TAKE HOME MESSAGE

> Acute suppurative thyroiditis may sometimes present with atypical findings without pain, without systemic reactions and with only mild laboratory changes. > Patients with AST remain mostly euthyroid.

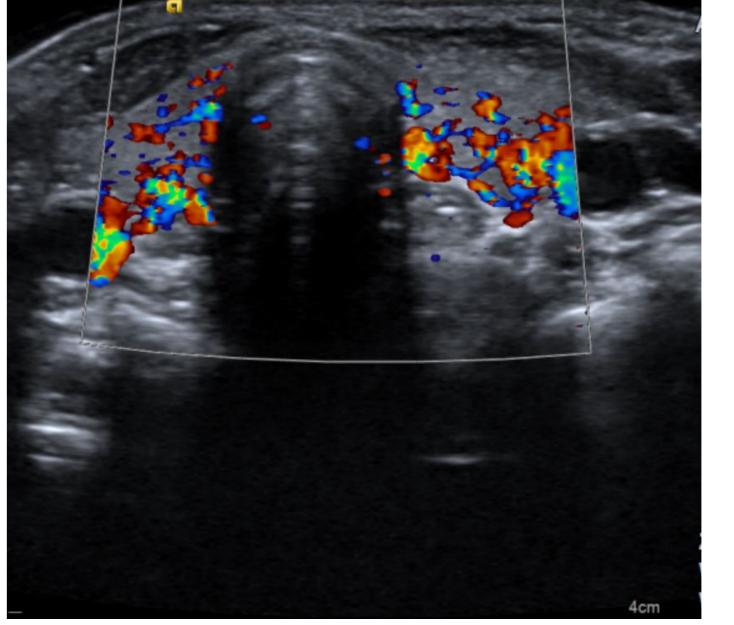
> Serum calcitonin levels can be elevated in infectious thyroiditis and are not associated with malignancy.

> Ultrasound findings show heterogenous echogenity of the thyroid gland (in our patient hyperechogenic changes) with irregular margin and inflammation. \succ AST can be successfully treated with appropriate antibiotics.

> In recurrent infections anatomical defects such as pyriform fistula should be considered, in our patient because of full retrieval we decided for a "wait and see" strategy.

6th week

6th week



8th week



8th week

Blood test at diagnosis	Value	Normal ra
Leukocytes	8,2/nl	5-12/nl
CRP	7,8 mg/l	0-2 mg/l
Calcitonin	14,2 μg/l	<9,8 µg/l
TSH	4,19 mIU/I	0,60-4,84 mIU/I
ESR	23 mm/h	<20 mm/h





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after 6 months



after 6 months



- Pediatric endocrinology, M.A. Sperling, 5th edition
- cute suppurative thyroiditis:a ten year review in a Taiwnese hospital. Jeng LB et Scand J Infect Dis 1994:26:297.
- efractory acute suppurative thyroiditis secondary to pyriform sinus fistula. Jee ue Seo et al, Ann; 19:104-107 Pediatr Endocrinol Metab 2014
- suppurative thyroiditis: a clinical review and expert opinion. Paes JE, Burman KD, CohenH, et al, Thyroid 2010, 20(3):247-55.

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