

## INTRODUCTION

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Delays in diagnosis of IC-GCTs in the paediatric age have been frequently reported, affecting outcomes and prognosis.

#### AIM

- 1. Analyse clinical features of children with IC-GCTs treated at two European tertiary centres over the last 25 years.
- 2. Retrospectively review time lag between symptoms onset, radiological findings and definitive diagnosis of IC-GCT.

#### METHOD

Follow-up (months) Presenting symptoms were Overall survival (OS) rate: 80%. No collected statistical difference in OS between patients Diagnostic intervals were classified with and without diagnostic delay. as below and compared to recurrence and survival rates : 30 months 20 System Tumour interval (TI) Patient Interval (PI) Interval (SI) Referral to IC-GCT First Symptoms onset healthcare brain MRI diagnosis specialist

Total Diagnostic Interval (TDI)

- 55 patients, 67.3% males
- Median age: 12 years (range 1–17.9)
- Median follow-up from diagnosis: 78.9 months (range 0.5-249.9)

- Diagnostic delay (TDI > 6months) in 47.3% of patients, significantly associated with endocrine symptoms at diagnosis (p<0.001).

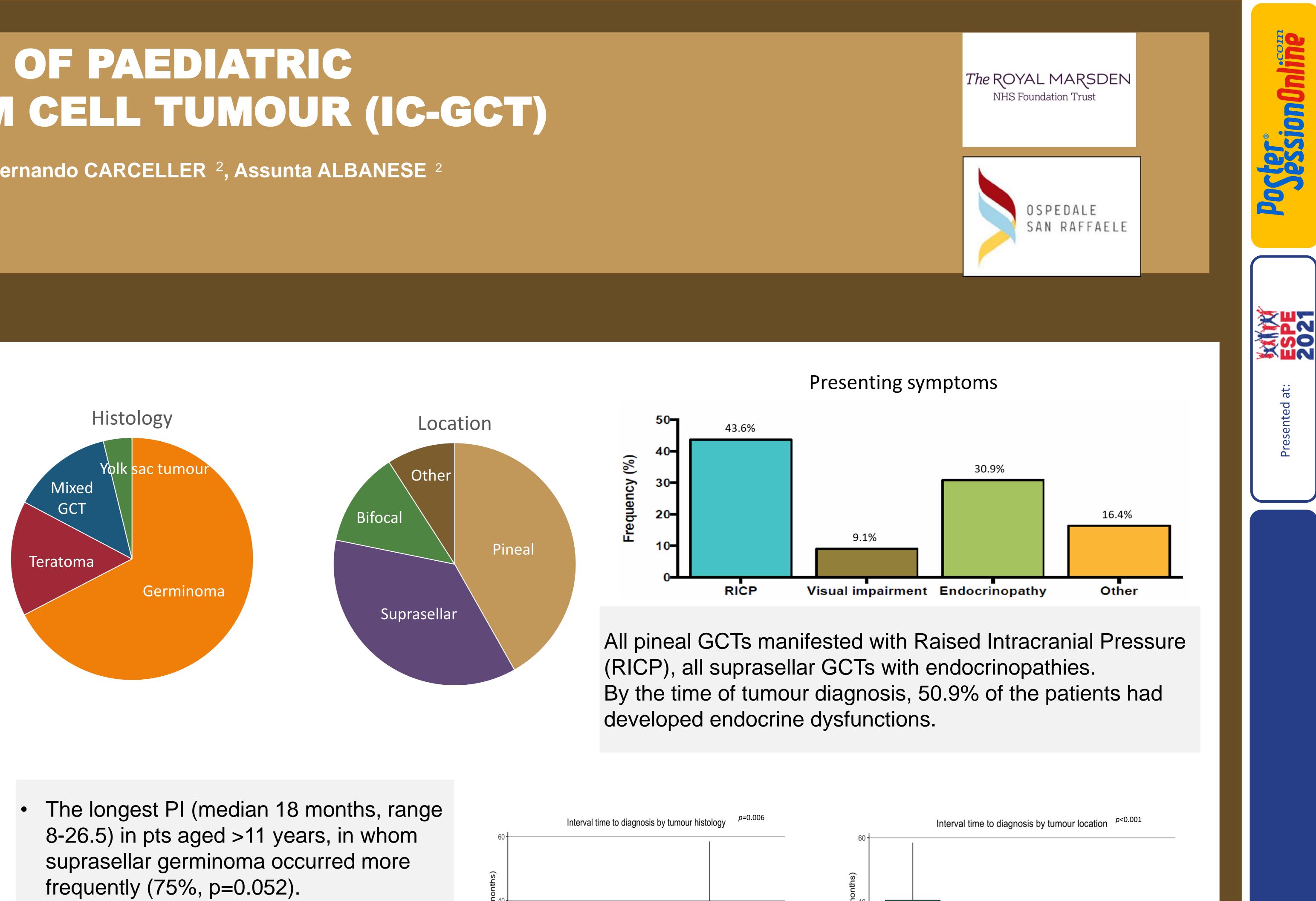
# DELAYED DIAGNOSIS OF PAEDIATRIC INTRACRANIAL GERM CELL TUMOUR (IC-GCT)

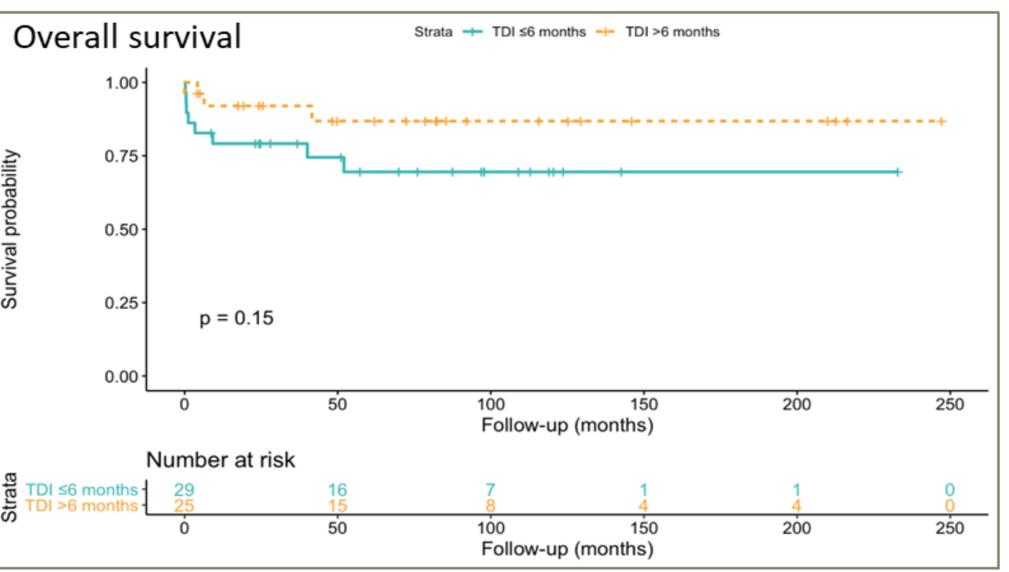
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## RESULTS

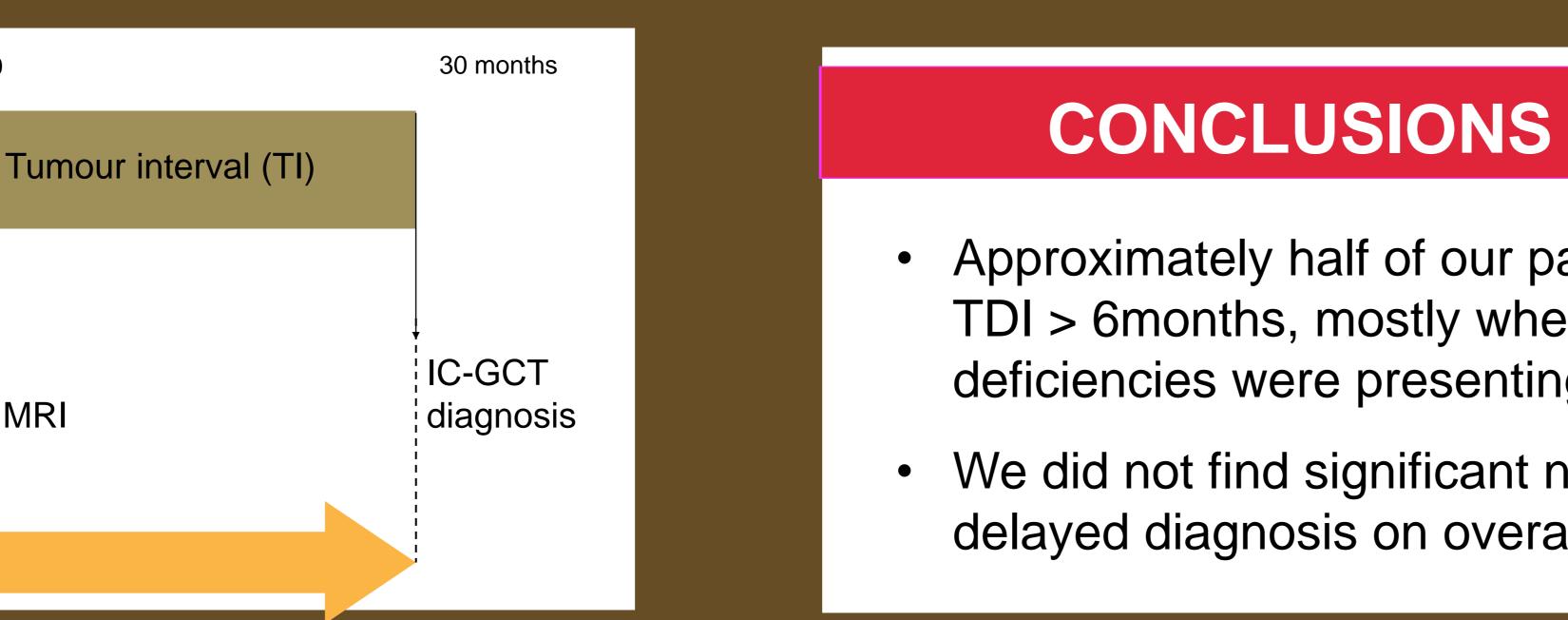
• 10.9% metastatic at diagnosis.

#### • TDI: range 0-58.5 months.



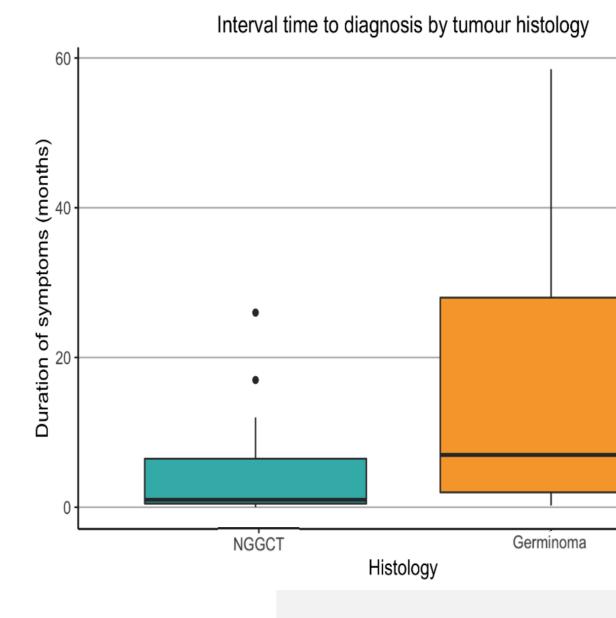


- endocrinopathies.
- stalk (8/55, 14.5%)



SI did not differ significantly among age groups and presence/absence of

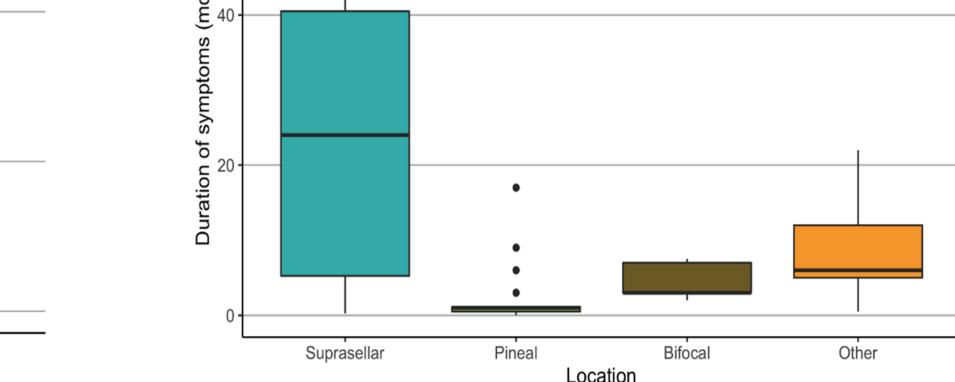
The longest TI (median 27 months, range 0.25–58.5) in cases with thicken pituitary



• Approximately half of our patients displayed a TDI > 6months, mostly when endocrine deficiencies were presenting symptoms.

• We did not find significant negative impact of delayed diagnosis on overall survival.

- 1. Takami H, et al.: Neuro Oncol 2019 Dec17;21(12):1565-1577. 2. Sethi RV, et al.: J Pediatr 2013 Nov;163(5):1448-53 3. Hayden J, et al.: Arch Dis Child. 2020 Mar;105(3):247-252.



NGGCTs and pineal GCTs had the shortest TDI.

## REFERENCES

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