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Validation of Updated Diagnostic Criteria

IDH-Wildtype Diffuse Astrocytoma with Molecular Features of Glioblastoma

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INTRODUCTION

According to updated diagnostic criteria, diffuse astrocytic gliomas (DA), WHO grade II-III, isocitrate dehydrogenase wildtype (IDHwt) which expresses at least one of the three following:

- EGFR amplification**
- TERT promoter mutation**
- Combined whole chromosome 7 gain and whole chromosome 10 loss**

should exhibit a more aggressive clinical course, resembling glioblastoma WHO grade IV.

AIM

To validate the updated diagnostic criteria.

METHODS

Who?

Patients diagnosed with DA, WHO grade II, in 2004-2018, at Aalborg University Hospital.

How?

Next Generation Sequencing, immunohistochemistry and FISH were used to analyze tumour samples.

CONCLUSION

Due to a limited sample size, the updated diagnostic criteria could not be validated. However, the molecular criteria predicted a significantly poorer survival independent of IDH-status. Thus, the results support the new treatment guideline in which patients meeting the updated diagnostic criteria should be treated as patients with glioblastoma.



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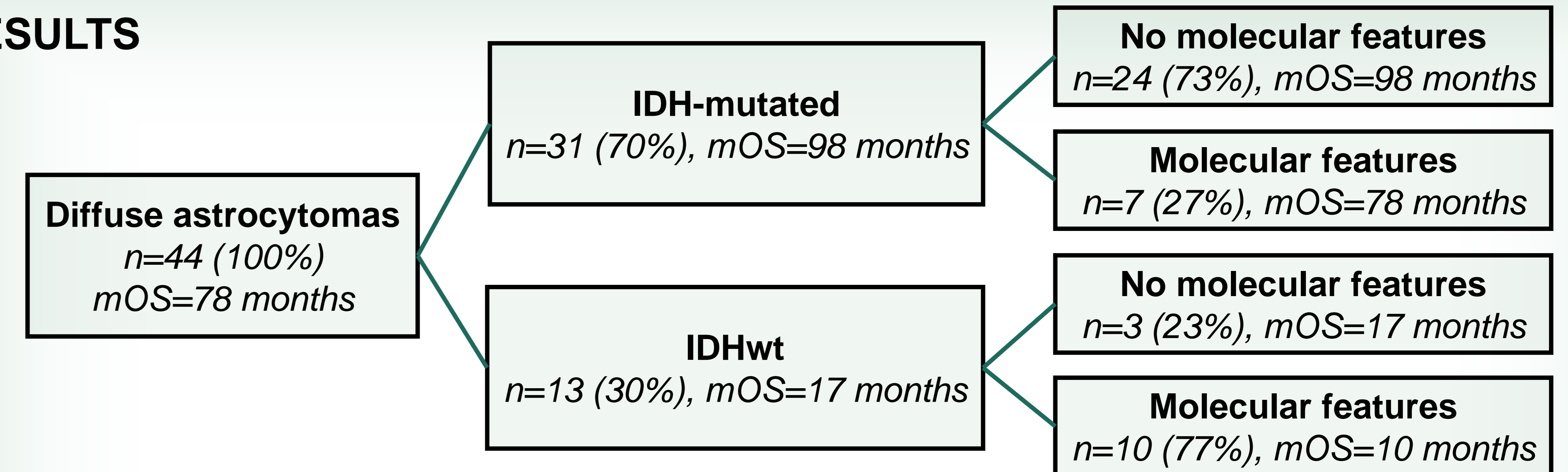
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RESULTS



Cumulative survival probability according to time in years

