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#### Validation of Updated Diagnostic Criteria

IDH-Wildtype Diffuse Astrocytoma with Molecular Features of Glioblastoma

Stubbe, Benjamin Emil; Holmsgaard Eskesen, Mathias; Haslund, Charlotte Aaquist; Carus, Andreas; Ettrup, Marianne Schmidt; Delekta, Agnieszka Monika; Poulsen, Laurids Østergaard

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# Validation of Updated Diagnostic Criteria: IDH-Wildtype Diffuse Astrocytoma with Molecular Features of Glioblastoma

### 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?

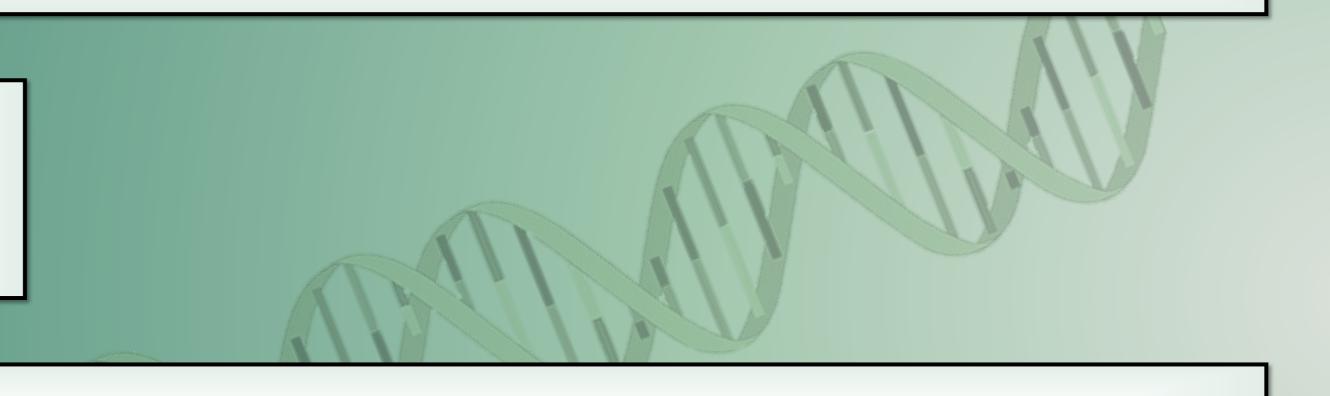
Next Generation Sequencing, immunohistochemistry and FISH were used to analyze tumour samples.

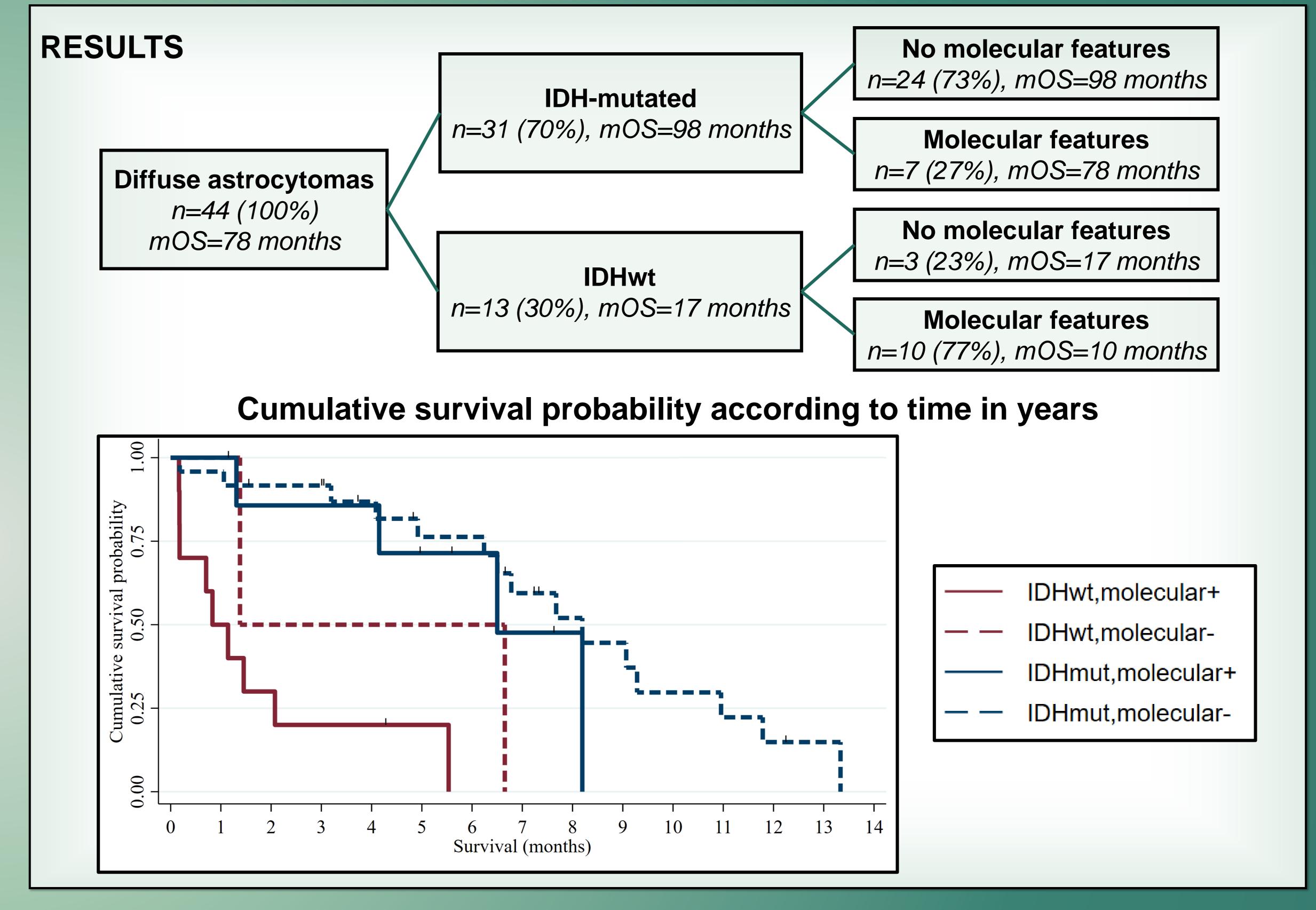
#### CONCLUSION

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.



Mathias Holmsgaard Eskesen MD, m.eskesen@rn.dk Department of Oncology, Aalborg University Hospital, Denmark





#### **Authors:** Stubbe, B.E.; Eskesen, M.H.; Haslund, C.A.; Carus, A.; Ettrup, M.S.; Delekta, A.; Poulsen, L.Ø.

AALBORG UNIVERSITY DENMARK

**Benjamin Emil Stubbe** MD, Ph.D. student, b.stubbe@rn.dk Department of Surgery, Aalborg University Hospital, Denmark

