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TÍTULO: Abnormal glycosylation in Borrmann type IV gastric cancer: insight for guided therapeutics.

OBJECTIVO/INTRODUÇÃO: Introduction: Borrmann type IV gastric carcinomas are an heterogeneous group of tumours. Its prognosis is worse than the other types of gastric cancer. These observations highlight the urge for novel targeted therapeutics based on the biological behavior of this disease. Objectives: This work intends to provide molecular insights about the expression of aberrant mucin O-glycosylation in Borrmann type IV tumours and metastases.

MATERIAL E MÉTODOS: Methods: In a retrospective design, this study included 16 formalin-fixed, paraffin-embedded Borrmann type IV tumors and 13 lymph node metastases. The tissue sections were screened for cell-surface cancer-associated sialyl-Tn (sTn), Tn and T expression.

RESULTADOS: Results: Regarding sTn and Tn antigens, we found that all tumors and the all metastases express these antigens. STn was present in more than 20% of the section in approximately 62% of the tumors and the metastases. All metastases presented this antigen and in 50% of the cases was expressed in more than 20% of the tissue. T antigen expression in the tumor and the metastases was significant correlated (p=0.005).

DISCUSSÃO: Conclusion: Our results showed that aberrant mucin O-glycosylation cell-surface antigens are expressed in tumours and metastases of Borrmann type IV. Moreover, overexpression sTn and T antigens are associated with worst prognosis. These findings suggested that these antigens may be a potential prognosis biomarkers and good targets for guided therapies.

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