Cite this as: Yang WENG, Yuanyuan LIU, Chitapa BENJOED, Xiaodong WU, Sangsang TANG, Xiao LI, Xing XIE, Weiguo LU. Evaluation and simplification of risk factors in FIGO 2000 scoring system for gestational trophoblastic neoplasia: a 19-year retrospective analysis[J]. Journal of Zhejiang University Science B, 2022, 23(3): 218-229.
https://doi.org/10.1631/jzus.B2100895

Evaluation and simplification of risk factors in FIGO 2000 scoring system for gestational trophoblastic neoplasia: a 19-year retrospective analysis

Key words: gestational trophoblastic neoplasia; single-agent chemotherapy; chemoresistance; risk factors

Research Summary

Objective

The purpose of this study is to evaluate the efficacy of risk factors in predicting single-agent chemoresistance and explore the feasibility of simplifying the FIGO 2000 scoring system for GTN.

Material and Method

The clinical data of 578 GTN patients who received chemotherapy between January 2000 and December 2018 were retrospectively reviewed. Univariate and multivariate logistic regression analyses were carried out to identify risk factors associated with single-agent chemoresistance in low-risk GTN patients. Then, simplified models were built and compared with the original FIGO 2000 scoring system.

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Research Summary

Main Results

Pretreatment serum hCG level and interval from antecedent pregnancy were independent predictors for both first-line and subsequent single-agent chemoresistance, and they had greater weight than other non-independent factors in predicting single-agent chemoresistance.

The simplified model composed of certain selected factors is a promising alternative to the original FIGO 2000 prognostic system, and it shows comparable performance.

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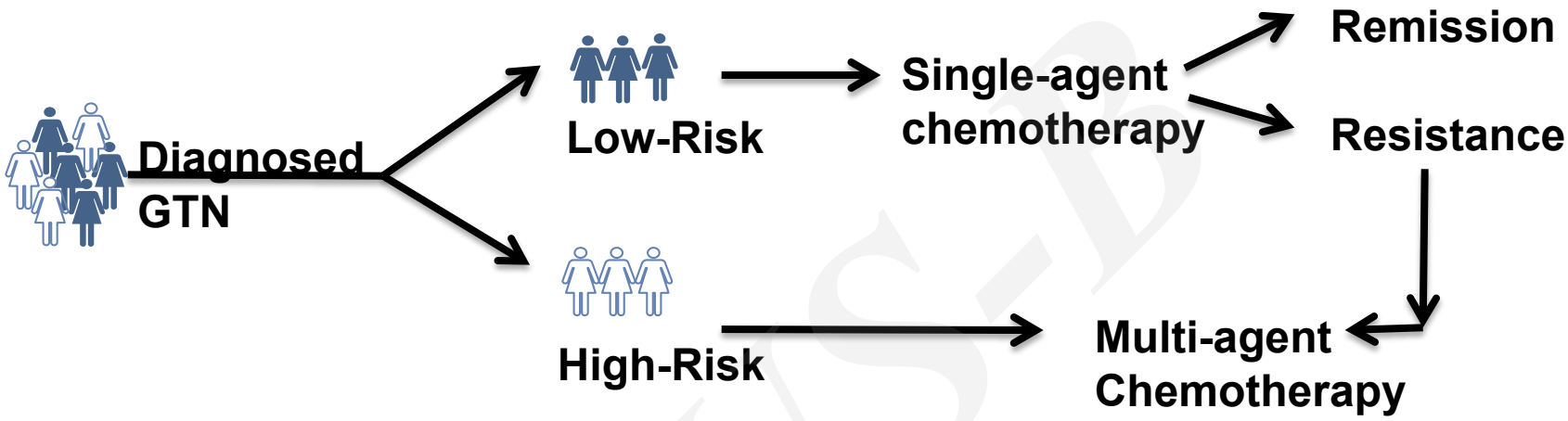
Innovation points



A simplified system composed of partial factors is credible in classifying patients, but whether it can substitute the original FIGO 2000 prognostic system still needs further validation.

Early identification of single-agent chemoresistance for GTN patients still need more explorations.