

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 52417

**Manuscript Type:** CASE REPORT

**Complete response to trastuzumab and chemotherapy in recurrent urothelial bladder carcinoma with *HER2* gene amplification: A case report**

Qi Jiang, Mi-Xue Xie, Xiao-Chen Zhang

### Abstract

#### BACKGROUND

Targeted treatments may greatly affect the natural history of urothelial carcinoma based on their pharmacokinetics. A phase II trial has explored the combination of cytotoxic chemotherapy plus the anti-HER-2 monoclonal antibody trastuzumab in selected patients with metastatic bladder cancer, but it failed.

#### CASE SUMMARY

Here, we report a case of patient with recurrent urothelial bladder carcinoma (IIBC) who has undergone three operations and further illuminate its

### Match Overview

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The aim of this retrospective study was to evaluate the HER2 protein expression and HER2 gene amplification using the same criteria than those used in breast cancer in a large series of 1005 patients with invasive urothelial bladder carcinoma.

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## Assessing HER2 gene amplification as a potential target ...

<https://academic.oup.com/annonc/article/21/4/815/156176> ▾

Nov 04, 2009 · Evidence from breast cancer indicates that only tumors with HER2 gene amplification respond to an anti-HER2-targeted therapy, such as trastuzumab. Using the same principle, ~5% of muscle-invasive urothelial bladder carcinomas should be suitable for such treatment.

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## HER-2/neu protein overexpression and gene amplification in ...

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## HER2 as a target in invasive urothelial carcinoma ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/cam4.432>

We evaluated primary tumors from two cohorts, Spain (N = 111) and Greece (N = 102), for patients who were treated with **platinum-based chemotherapy**. Patients were tested for HER2 status (IHC score of 3+ or FISH ratio of  $\geq 2.2$ ) by immunohistochemistry (IHC), fluorescence in situ hybridization (FISH), DNA copy number, mRNA expression, and mutation status in patients with **metastatic urothelial carcinoma** ...

Cited by: 21

Author: Joaquim Bellmunt, Lillian Werner, Aristotl...

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Author: M. Laé, J. Couturier, S. Oudard, F. Radva...

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## Oncogenic Addiction to ERBB2 Signaling Predicts Response ...

<https://jncn.org/view/journals/jncn/17/3/article-p194.xml> ▼

Mar 11, 2019 · Laé M, Couturier J, Oudard S, **Assessing HER2 gene amplification** as a potential target for therapy in **invasive urothelial bladder cancer** with a standardized methodology: results in 1005