Dose optimization of oral targeted therapies in oncology

Wit, D. de

Stellingen

1 Pazopanib plasma concentrations calculated with the use of dried blood spots are in good agreement with pazopanib concentrations measured in plasma. *(this thesis)*

2 Midazolam exposure as a measure of CYP3A4 activity can explain a large percentage of the variability in sunitinib drug exposure between patients. *(this thesis)*

3 In patients with gastrointestinal stromal tumors (GIST), the influence of major gastrectomy on drug exposure should be taken into account when starting treatment with tyrosine kinase inhibitors. *(this thesis)*

4 Dose reductions and everolimus induced stomatitis are strongly associated with systemic everolimus drug exposure in patients with cancer. *(this thesis)*

5 Dose individualization should become a standard of care and a priority in research for new small molecules in development. *(H.J. Klümpen et al. Cancer Treat Rev. 2011;37(4):251-260)*

6 In light of the variability and the relationship between systemic exposure and clinical benefit and toxicities in mRCC, dose adjustments based on trough plasma concentrations may provide a method to optimize therapy with pazopanib by maintaining therapeutically effective blood levels, while minimizing AEs whenever possible. *(Suttle et al. Br J Cancer. 2014;111(10):1909-1916)*

7 As we enter an era of targeted anticancer agents with a monthly cost measured in thousands of dollars, we should view drug-drug or drug-food interactions as opportunities to lower costs. *(M. Ratain et al. J Clin Oncol. 2007;25(23):3397-3398)*

8 If it were not for the great variability among individuals, medicine might as well be a science, not an art. *(Sir William Osler, 1892)*

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