Topic title: The My5-FU assay (and other alternative technologies identified during scoping) for monitoring plasma levels of 5-FU to guide dose adjustment in patients receiving 5-FU chemotherapy by continuous infusion (provisional title)

Topic description:

The My5-FU assay is an in-vitro diagnostic for the quantitative determination of fluorouracil (5-FU) in plasma. The My5-FU assay is intended to be used in patients receiving 5-FU chemotherapy by continuous infusion to facilitate dose adjustment, with the aim of achieving an optimal plasma level of 5-FU. Plasma is tested at the end of each infusion cycle, and the results of the My5-FU test are used to guide the dosing of 5-FU in the next cycle. Achieving an optimal plasma 5-FU level may increase treatment efficacy and reduce toxicity associated with over- or under-dosing, potentially leading to an improvement in both quantity and quality of life. The NICE Diagnostics Assessment Programme will assess the cost-effectiveness of the My5-FU assay (and other alternative technologies identified during scoping) in order to make recommendations on their use.