CONCLUSIONS
Using a validated UHPLC-method the dosing accuracy upon dispersion and dose extraction from two warfarin tablets (Marevan and Warfarin Orion) was found to be both accurate and precise — unlike what has previously been published for different aspirin tablets. These results underlines the importance of considering API characteristics as well as formulation properties when manipulating tablets to obtain a fraction.

THE MANIPULATION
Method: Six tablets from each of the two formulations were individually dissolved in 10 ml water. After 8 minutes, a sample (1 ml; one tenth of a tablet) was withdrawn from “Zone 2” (at 2 ml mark). Dosing accuracy and precision was recorded and compared between tablets.

Figure 1: Medicine measure (30 ml) and oral syringe (1 mL) used for manipulation.

WARFARIN vs ASPIRIN
For the very soluble drug warfarin sodium two tablets both gave accurate doses upon manipulation (ie dispersion and extraction of a tenth of a tablet) (Figure 2).

The dosing accuracy of Dispersible Aspirin (75 mg) and Bayer Chewable (81 mg) upon manipulation has previously been presented (Notaker, 2016). The two different tablets containing this poorly soluble drug differed markedly in the dose accuracy delivered (Figure 2).