**SUPPLEMENTARY INFORMATION**

Table 7: Comparison of the 4 screening approaches to correctly predict grade 4 or higher FP toxicity.

| Toxicity ≥ Grade 4 | Genotyping | Phenotyping Uracil ≥ 16 ng/ml | Phenotyping UH$_2$/U ratio | Multi-Parametric Method |
|---|---|---|---|---|
| N | 169 | 169 | 169 | 169 |
| Median result (25$^{th}$ Pctl_75$^{th}$ Pctl) | - | 21.07 (12.70_32.23) | 4.55 (3.14_5.71) | - |
| Sensitivity n (%) | 68 (40.2%) | 108 (63.9%) | 133 (78.7%) | 161 (95.3%) |
| False negatives | 101 (59.8%) | 61 (36.1%) | 36 (21.3%) | 8 (4.7%) |

"-"= not applicable