

## Appendix

Table 1: The definition of the three immune phenotypes:

<b>Immune phenotypes</b>	<b>Tumour infiltrating lymphocytes density in cancer epithelium</b>	<b>Tumour infiltrating lymphocytes density in cancer stroma area</b>
Inflamed	Above threshold ( $> 106/ \text{mm}^2$ )	Above threshold ( $> 357/ \text{mm}^2$ )
Immune-excluded	Below threshold ( $< 106/ \text{mm}^2$ )	Above threshold ( $> 357/ \text{mm}^2$ )
Immune-desert	Below threshold ( $< 106/ \text{mm}^2$ )	Below threshold ( $< 357/ \text{mm}^2$ )

Table 2: An overview of the median progression-free survival and overall survival projected by the AI-powered analyser over the three immune phenotypes:

<b>Immune phenotypes</b>	<b>Median progression-free survival</b>	<b>Overall survival</b>
Inflamed	4.1 months	24.8 months
Immune-excluded	2.2. months	14.0 months
Immune-desert	2.4 months	10.6 months