**Supplementary Table 4: Area under the receiver operator characteristic curve (AUROC) values for absolute and relative MR parameters in the prediction of adenohypophyseal tumour functional status**

*GH = somatotropinoma; NFG= non - functioning gonadotropinoma; PRL=macroprolactinoma; SI= signal intensity.*

|  |  |
| --- | --- |
|  | **AUROC****(95% confidence interval)** |
|  | **NFG vs GH** | **NFG vs PRL** | **GH vs PRL** |  | **NFG vs Functioning (GH/PRL)** |
| **Tumour volume (cm3)** | 0.80(0.70 - 0.90) | 0.64(0.47 - 0.82) | 0.86(0.76 – 0.96) |  | 0.67(0.57 – 0.78) |
| **Knosp grade** | 0.76(0.66 - 0.87) | 0.67(0.52 – 0.83) | 0.85(0.75 -0.95) |  | 0.63(0.53 – 0.74) |
|  **Tumour/WM****T2W SI ratio**  | 0.90(0.83 - 0.96) | 0.58(0.42 – 0.73) | 0.86(0.76 – 0.97) |  | 0.80(0.72 – 0.88) |
| **Tumour/WM****T1W SI ratio** | 0.56(0.45 - 0.67) | 0.60(0.47 – 0.72) | 0.68(0.53 – 0.82) |  | 0.52(0.41 – 0.62) |
|  **Tumour/CSF****T2W SI ratio** | 0.91(0.86 - 0.97) | 0.58(0.39 – 0.78) | 0.79(0.65 – 0.93) |  | 0.82(0.73 – 0.90) |
| **Tumour/CSF****T1W SI ratio** | 0.76(0.65 - 0.86) | 0.67( 0.50 – 0.83) | 0.85(0.75 – 0.95) |  | 0.63(0.53 – 0.74) |
| **Tumour T2/T1** **SIRatio - WM** | 0.87(0.79 - 0.94) | 0.55(0.39 – 0.71) | 0.84(0.73 – 0.94) |  | 0.77(0.69 – 0.86) |
| **Tumour T2/T1** **SIRatio - CSF** | 0.94(0.89 - 0.98) | 0.51(0.32 – 0.69) | 0.90(0.81 – 0.99) |  | 0.81(0.73 – 0.89) |