**Supplementary Table 1. Spearman rank correlation** **coefficients between all tumor DWI IVIM parameters, CT perfusion parameters, and histological microvessel parameters in tumors**

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| **Spearman correlations between mean DWI IVIM parameters and mean CT perfusion parameters (n = 19)** |
|  | BFtumor | BVtumor | PEMtumor |
| *f*tumor | 0.668 \* | 0.672 \* | 0.398 |
| Dtumor | -0.332 | -0.286 | -0.123 |
| D\*tumor | -0.298 | -0.392 | -0.026 |
| *f*tumor x D\*tumor | -0.044 | -0.142 | 0.149 |
| **Spearman correlations between histological microvessel parameters, mean DWI IVIM parameters and mean CT perfusion parameters (n = 10)** |
|  | *f*tumor | Dtumor | D\*tumor | *f*tumor x D\*tumor | BFtumor | BVtumor | PEMtumor |
| MVDtumor | 0.770 \* | -0.467 | -0.407 | -0.200 | 0.697 \* | 0.661 \* | 0.527 |
| MVAtumor | 0.818 \* | -0.503 | -0.365 | -0.139 | 0.709 \* | 0.661 \* | 0.382 |

Correlation coefficients that are significantly different from zero (p < 0.05) are marked with \*. Abbreviations: BF: blood flow, BV: blood volume, D: diffusion coefficient,D\*: pseudodiffusion coefficient, *f*: perfusion fraction, MVA: microvessel area, MVD: microvessel density, PEM: permeability.