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| **Supplement Table 1** Univariate and multivariate Cox proportional hazard regression analyses of PFS |
|  | Univariate |  | Multivariate |
| HR (95% CI) | *p* | HR (95% CI) | *p* |
| Gender, femaleAge (years)Tumour size (cm)Thrombus levelIIIIIIIVBlood transfusion (103 cc)Lymph node involvementMetastasis Histologic subtypeClear cell RCCNon-clear cell RCCSarcomatoid differentiationRhabdoid differentiationFuhrman grade1-23-4Tumour necrosisAdjuvant target therapy | 1.20 (0.68-2.11)0.99 (0.96-1.01)0.98 (0.91-1.06)Ref.1.16 (0.61-2.21)1.43 (0.69-2.95)0.67 (0.20-2.29)1.13 (0.95-1.34)2.01 (0.91-4.44)2.48 (1.44-4.27)Ref.2.73 (1.54-4.82)1.99 (1.04-3.79)1.68 (0.76-3.72)Ref.1.61 (0.86-3.03)1.71 (0.99-2.96)0.95 (0.55-1.64) | 0.2010.2130.6100.6430.3330.5250.1560.086**0.001****0.001****0.037**0.2000.1370.0570.858 |  | 2.64 (1.81-5.78)Ref.3.23 (1.81-5.78)2.08 (1.08-4.01) | **0.001****<0.001****0.029** |
| PFS progression-free survival, RCC renal cell carcinoma |

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| **Supplement Table 2** Univariate and multivariate logistic regression analyses of perioperative mortality within 90 days |
|  | Univariate |  | Multivariate |
| OR (95% CI) | *p* | OR (95% CI) | *p* |
| Gender, femaleAge (years)Tumour size (cm)Thrombus levelIIIIIIIVBlood transfusion (103 cc)Lymph node involvementMetastasis Histologic subtypeClear cell RCCNon-clear cell RCCSarcomatoid differentiationRhabdoid differentiationFuhrman grade1-23-4Tumour necrosisAdjuvant target therapy | 4.17 (0.09-1.98)1.00 (0.95-1.05)1.05 (0.90-1.23)Ref.-0.77 (0.14-4.34)1.38 (0.23-8.30)1.85 (1.29-2.66)2.08 (0.40-10.87)1.33 (0.38-4.67)Ref.0.74 (0.15-3.60)1.68 (0.42-6.73)0.85 (0.10-7.23)Ref.2.94 (0.61-14.10)0.80 (0.25-2.53)0.11 (0.01-0.88) | 0.2720.9160.5471.0000.7650.728**0.001**0.3850.6530.7130.4660.8820.1770.701**0.038** |  | 1.89 (1.28-2.79)0.12 (0.01-1.00) | **0.001**0.050 |
| RCC renal cell carcinoma |