Appendix 1. Systematic Review Table of Selected Studies

Study	Design	N	Population Characteristics	DGF Definition	Outcome Measure	Quality
Kim, et al. 2019 (Gwangju, South Korea)	Retrospective study	291	Median age was 47.0 [38.0;54.5] and 47.0 [38.5;55.0], for good residual function group and poor residual function group (P: 0.84) All demographic data did not significantly differ between the groups, except the nutritional status	Haemodialysis performed within 1 week after surgery	AUC: 0.913 The main goal of this research was to determine whether there was any relationship between post-operative urine output and one year transplanted kidney function There was no raw data available in terms of the relationship between DGF and 24-h postoperative diuresis	Fair
Nielsen, et al. 2019 [Europe (Multi-center)]	Multicenter prospective study	225 (116)	The median recipient age was 59 (49–66) and was not significantly different among the group. Other pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	AUC: 0.98 ± 0.01 Optimum threshold: 47 mL/hour Sensitivity: 0.87 Specificity: 1.00	Good
Maier, et al. 2018 (Innsbruck, Austria)	Prospective study	170	Mean recipient age was 55 ± 14 (P: 0.02) Other pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	AUC: 0.875 (0.815–0.934) Median first 24-h urine output (Litre): • DGF: 0,795 [0,19– 1,778] • Primary function: 2,8 [1,97–3,9]	Fair
Mojtahedzadeh, et al. 2016 (Tehran, Iran)	Prospective study	69	Means recipient age were 42 ± 12 and 43 ± 12, for non-DGF and DGF group consecutively (P: 0.76). Other pre-operative characteristics were not significantly different between the groups	Dialysis within 1 week or serum creatinine level decreased ≤ 10% per day immediately	AUC: 0.782 (0.629–0.934) OR (multivariate): 1.000 (1.0– 1.0), P value: 0.68 Mean first 24-h urine output (mL): • DGF: 2775 ± 553 • Non-DGF: 7943 ± 2819	Good

Study	Design	Samples	Population Characteristics	DGF Definition	Outcome Measure	Quality
Pajek, et al. 2014 (Ljubljana, Slovenia)	Prospective study	71	The mean age for all participants was 50 ± 12 years. Other pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	AUC: 0.87 (0.77-0.94) Optimum threshold: 325 mL/hour Sensitivity: 100%; Specificity: 57% NPV: 100% PPV: 74%	Good
Hollmen, et al. 2011 (Helsinki, Finland)	Prospective study	176	The means of recipient age were 50.5 ± 12.8 and 54.1 ± 13.3, for EGF and DGF groups consecutively (not significant). Other pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	AUC: 0.931 (0.894 – 0.967) Optimum threshold: 1035 mL/hour Sensitivity: 91%; Specificity: 80% Mean first 24-h urine output (mL): • DGF: 2406 ± 809.2 • EGF: 2544 ± 1526.5 Multivariate analysis of DGF (P < 0.001 for 24-h diuresis)	Good
Sáinz, et al. 2009 (Valparaiso, Chile)	Retrospective study	95	The means of recipient age were 43 ± 11.6 and 39 ± 12, for DGF and non-DGF groups consecutively (p: 0.15). Other pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	Multivariate analysis for 24-h diuresis as a predictor of DGF: • Odds ratio: 0.999 • CI: 0.999–1.00 • P-value: 0.000	Fair

Study	Design	Samples	Population Characteristics	DGF Definition	Outcome Measure	Quality
Schnuelle, et al. 2006 (Mannheim, Germany)	Prospective study	300	All pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	Cut-off: 630 mL/24 hours Sensitivity: 77.48%; Specificity: 82.01% NPV: 86.11% PPV: 71.67%	Good
Parikh, et al. 2006 [USA (Multicenter)]	Prospective study	30	All pre-operative characteristics were not significantly different between the groups	Haemodialysis performed within 1 week after surgery	Cut-off: 1000 mL/24 hours Sensitivity: 80%; Specificity: 35% NPV: 77.78% PPV: 38.10% Multivariate analysis for 24-h diuresis (< 1 L) as a predictor of DGF (deceased organ only): • Odds ratio: 11.7 • CI: 0.1 – 913 P-value: 0.2	Fair

NPV, negative predictive value; **PPV**, positive predictive value