Supplemental Table 1. Health State Probabilities for Arteriovenous Fistula Markov Models

Health States	65-69 age group		70-74 age group		75-79 age group		80-84 age group		85-89 age group	
	8 months	60 months	8 months	60 months	8 months	60 months	8 months	60 months	8 months	60 months
75th percentile										
AVG	48.1%	11.2%	46.5%	9.3%	43.8%	6.7%	39.2%	3.7%	32.2%	1.3%
CVC	41.3%	34.7%	39.2%	25.2%	35.5%	14.1%	29.9%	5.2%	21.8%	0.9%
Death	10.6%	54.2%	14.3%	65.5%	20.7%	79.2%	30.9%	91.1%	46.0%	97.8%
50th percentile										
AVG	46.5%	9.2%	43.6%	6.5%	38.9%	3.5%	31.0%	1.1%	16.7%	----
CVC	39.0%	24.8%	35.3%	13.5%	29.4%	4.8%	20.6%	0.7%	7.3%	----
Death	14.5%	66.0%	21.1%	80.0%	31.7%	91.7%	48.4%	98.2%	76.0%	100%
25th percentile										
AVG	41.1%	4.8%	35.7%	2.2%	26.3%	0.4%	17.2%	----	4.2%	----
CVC	32.2%	7.9%	25.7%	2.3%	15.7%	0.2%	7.8%	----	0.7%	----
Death	26.7%	87.3%	38.6%	95.5%	58.0%	99.4%	75%	100%	95.1%	100%

Abbreviations: AVF, arteriovenous fistula; AVG, arteriovenous graft; CVC, central venous catheter.
Data shown is probability of AVF use, CVC use, or death at 8 months (after up to two attempts at AVF placement) and 60 months after dialysis initiation for all age and life expectancy groups. Cells with dashes indicate values approaching 0%.

Supplemental Table 2. Health State Probabilities for Arteriovenous Graft Markov Models

Health States	65-69 age group		70-74 age group		75-79 age group		80-84 age group		85-89 age group	
	3 months	60 months	3 months	60 months	3 months	60 months	3 months	60 months	3 months	60 months
75th percentile										
AVG	53.5%	7.0%	52.9%	5.5%	39.3%	3.6%	49.8%	1.6%	46.4%	0.4%
CVC	42.1%	35.5%	41.1%	25.4%	51.8%	13.7%	36.3%	4.6%	31.3%	0.7%
Death	4.4%	57.5%	6.0%	69.1%	8.9%	82.7%	13.9%	93.8%	22.2%	98.9%
50th percentile										
AVG	52.9%	5.5%	51.7%	3.4%	49.7%	1.5%	45.8%	0.3%	36.3%	----
CVC	41.0%	24.9%	39.1%	13.1%	36.0%	4.2%	30.5%	0.5%	18.6%	----
Death	6.1%	69.6%	9.2%	83.5%	14.3%	94.3%	23.7%	99.2%	45.1%	100%
25th percentile										
AVG	50.6%	2.3%	48.1%	0.8%	43.1%	0.1%	44.1%	----	20.6%	----
CVC	37.5%	7.3%	33.9%	1.9%	26.9%	0.1%	36.8%	----	4.9%	----
Death	11.9%	90.4%	18.0%	97.3%	30.0%	99.8%	19.1%	100%	74.4%	100%

Abbreviations: AVF, arteriovenous fistula; AVG, arteriovenous graft; CVC, central venous catheter.
Data shown is probability of using AVG for hemodialysis, CVC use (before AVG can be used or after AVG experiences compromised patency or infection), or death at 3 months (after up to two attempts at AVG placement) and 60 months after dialysis initiation for all age and life expectancy groups. Cells with dashes indicate values approaching 0%.

Supplemental Figure 1. Cost-Effectiveness Acceptability Curves

a) 65-69 year olds in highest quartile

b) 85-89 year olds in lowest quartile
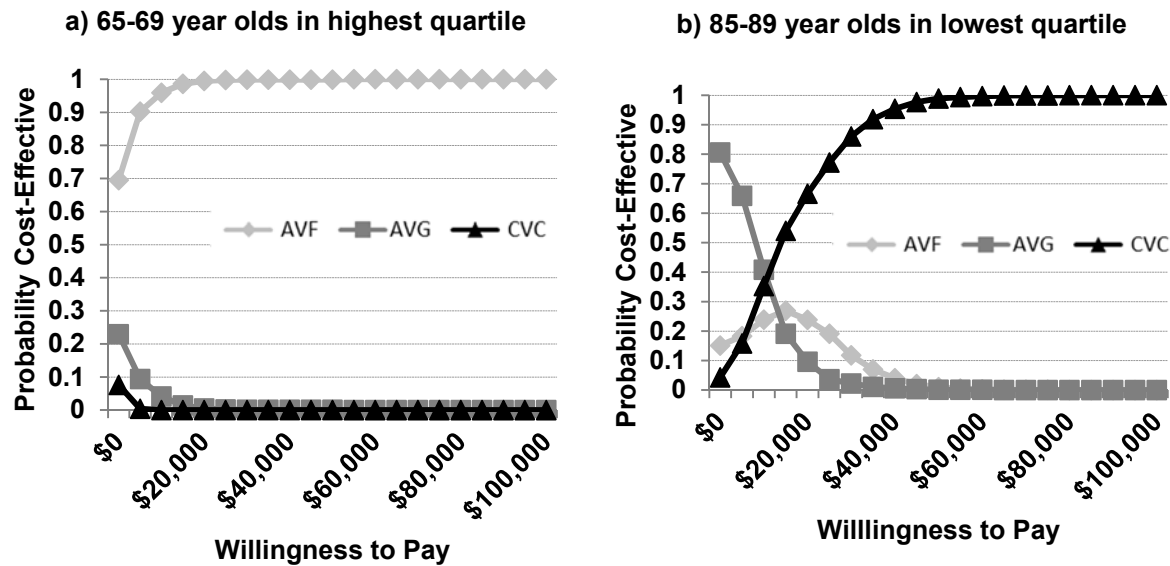
Cost-effectiveness acceptability curve for AVF placement, AVG placement, or continued CVC use in the 65-69 year old age group in the highest quartile of life-expectancy (a) and the 85-89 year old age group in the lowest quartile of life-expectancy (b). Willingness-to-pay represents the amount of dollars society is willing to pay for 1 quality adjusted life year. The probability that the incremental cost-effectiveness ratio is at or below the willingness-to-pay threshold is on the Y axis.