

Appendix. Distributional information for model inputs

Variable Name	Distribution	Estimate	a	b	B ₀	SE[B ₀]	95%CI	
							Lower	Upper
Probability - Recur Disease Free & No Letrozole [Year = 1]	Beta	0.0210	54	2,529			0.0158	0.0269
Probability - Recur Disease Free & No Letrozole [Year = 2]	Beta	0.0255	61	2,337			0.0196	0.0322
Probability - Recur Disease Free & No Letrozole [Year = 3]	Beta	0.0335	55	1,584			0.0254	0.0428
Probability - Recur Disease Free & No Letrozole [Year = 4+]	Beta	0.0260	21	804			0.0163	0.0379
Probability - Contralateral Tumor Recur & Letrozole	Multinomial logit	0.1806			-0.4290	0.2428	0.1541	0.2021
Probability - Locoregional recurrence Recur & Letrozole	Multinomial logit	0.2258			-0.2059	0.2277	0.1984	0.2452
Probability - Soft Tissue Metastasis Recur & Letrozole	Multinomial logit	0.0839			-1.1963	0.3165	0.0619	0.1084
Probability - Bone Metastasis Recur & Letrozole	Multinomial logit	0.2774					0.3808	0.1928
Probability - Visceral Metastasis Recur & Letrozole	Multinomial logit	0.2323			-0.1777	0.2259	0.2048	0.2514
Probability - Contralateral Tumor Recur & No Letrozole	Multinomial logit	0.1848			-0.5341	0.3055	0.1466	0.2134
Probability - Locoregional Recurrence Recur & No Letrozole	Multinomial logit	0.1957			-0.4769	0.3001	0.1569	0.2236
Probability - Soft Tissue Metastasis Recur & No Letrozole	Multinomial logit	0.0435			-1.9810	0.5334	0.0221	0.0785
Probability - Bone Metastasis Recur & No Letrozole	Multinomial logit	0.3152					0.4551	0.2001
Probability - Visceral Metastasis Recur & No Letrozole	Multinomial logit	0.2609			-0.1892	0.2760	0.2193	0.2844
Probability - Locoregional Recurrence or DM Contralateral Tumor [Year post event = 1-5]	Beta	0.0363	114	3,034			0.0301	0.0431
Probability - Locoregional Recurrence or DM Contralateral Tumor [Year post event = 6+]	Beta	0.0269	70	2,546			0.0211	0.0334
Probability - DM Locoregional Recurrence [Year post event = 1-5]	Beta	0.1236	130	919			0.1044	0.1442
Probability - DM Locoregional Recurrence [Year post event = 6+]	Beta	0.0752	35	431			0.0531	0.1008
Probability - Death Soft Tissue Metastasis	Beta	0.1573	18	95			0.0965	0.2296
Probability - Death Bone Metastasis	Beta	0.2674	35	97			0.1957	0.3458
Probability - Death Visceral Metastasis	Beta	0.2562	54	155			0.1995	0.3174
Probability - Hip Fracture General Population - [Age years = 35-39]	Beta	0.0001	0	4,249			0.0000	0.0004
Probability - Hip Fracture General Population - [Age years = 40-44]	Beta	0.0002	1	4,220			0.0000	0.0007
Probability - Hip Fracture General Population - [Age years = 45-49]	Beta	0.0003	1	3,806			0.0000	0.0011
Probability - Hip Fracture General Population - [Age years = 50-54]	Beta	0.0007	2	3,347			0.0001	0.0018
Probability - Hip Fracture General Population - [Age years = 55-59]	Beta	0.0008	2	2,595			0.0001	0.0022
Probability - Hip Fracture General Population - [Age years = 60-64]	Beta	0.0017	3	2,112			0.0004	0.0038
Probability - Hip Fracture General Population - [Age years = 65-69]	Beta	0.0022	4	1,911			0.0006	0.0048
Probability - Hip Fracture General Population - [Age years = 70-74]	Beta	0.0028	5	1,843			0.0009	0.0056
Probability - Hip Fracture General Population - [Age years = 75-79]	Beta	0.0086	14	1,617			0.0047	0.0136
Probability - Hip Fracture General Population - [Age years = 80-84]	Beta	0.0184	21	1,139			0.0115	0.0269
Probability - Hip Fracture General Population - [Age years = 85+]	Beta	0.0249	28	1,096			0.0166	0.0348
Probability - LT Disabled Hip Fracture	Normal	0.5000					0.2500	0.7500
Probability (initial) - Disease Free & Osteoporosis	Beta	0.1200	601	4,538			0.1083	0.1259
Probability - Osteoporosis Letrozole	Beta	0.0371	209	5,430			0.0323	0.0421
Probability - Osteoporosis No Letrozole	Beta	0.0274	155	5,506			0.0233	0.0318
Relative Risk - Recur Disease Free & Letrozole	Lognormal	0.5800					0.4500	0.7600
Relative Risk - Hip Fracture Tam vs GP	Lognormal	0.7900					0.6000	1.0500
Relative Risk - Hip Fracture Letrozole vs No Letrozole	Lognormal	1.1500					0.8963	1.4833
Relative Risk - Death Hip Fracture vs No Hip - Fracture [Year post event = 1]	Lognormal	3.0000					1.9000	4.7000
Relative Risk - Death Hip Fracture vs No Hip - Fracture [Year post event = 2+]	Lognormal	1.9000					1.6000	2.2000

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Variable Name	Distribution	Estimate	a	b	B ₀	SE[B ₀]	95%CI	
							Lower	Upper
Cost - Surveillance	Normal	1,700					850	2,550
Cost - Contralateral Tumor [Year post event = 1]	Normal	24,843					12,422	37,265
Cost - Locoregional Recurrence [Year post event = 1]	Normal	19,485					9,743	29,228
Cost - Soft Tissue Metastasis [Year post event = 1]	Normal	42,300					21,150	63,450
Cost - Soft Tissue Metastasis [Year post event = 2+]	Normal	21,900					10,950	32,850
Cost - Bone Metastasis [Year post event = 1]	Normal	42,300					21,150	63,450
Cost - Bone Metastasis [Year post event = 2+]	Normal	21,900					10,950	32,850
Cost - Visceral Metastasis [Year post event = 1]	Normal	42,300					21,150	63,450
Cost - Visceral Metastasis [Year post event = 2+]	Normal	21,900					10,950	32,850
Cost - Breast Cancer Death	Normal	16,700					8,350	25,050
Cost - Hip Fracture [Year post event = 1]	Normal	42,000					21,000	63,000
Cost - Hip Fracture [Year post event = 2+]	Normal	3,900					1,950	5,850
Disutility Disease Free & No [Year post event = Osteo or Hip - Fracture] vs Perfect Health	Normal	0.0300					0.0150	0.0450
Disutility Contralateral Tumor [Year post event = 1] vs Disease Free	Normal	0.2100					0.1050	0.3150
Disutility Locoregional Recurrence [Year post event = 1] vs Disease Free	Normal	0.2100					0.1050	0.3150
Disutility Soft Tissue Metastasis vs Disease Free	Normal	0.3300					0.1650	0.4950
Disutility Bone Metastasis vs Disease Free	Normal	0.3300					0.1650	0.4950
Disutility Visceral Metastasis vs Disease Free	Normal	0.3300					0.1650	0.4950
Disutility Hip Fracture vs No Hip Fracture	Normal	0.3100					0.1550	0.4650

A and b are parameters of Beta distribution. B₀ and SE[B₀] are parameters of multinomial logit. For other parameters (normal and lognormal), standard errors may be derived from 95%CI (confidence interval).