

## Economic analysis using base-case estimates

	Usual care	STS HM	STS HH	TM during office hours
<b>Central estimates of HRs used as input</b>				
Mortality HR	1.000	1.074	0.780	0.779
HF-related hospitalisation HR	1.000	1.045	0.778	0.966
All-cause hospitalisation HR	1.000	1.173	0.977	0.761
Treatment costs assumed per month (£)	99	119	179	175
<b>Survival results (undiscounted)</b>				
1 year (%)	72.14	71.45	75.34	75.38
5 year (%)	33.75	33.43	35.25	35.27
Life expectancy over 30 years (years)	4.71	4.67	4.91	4.91
Difference in life expectancy vs usual care (years)	0.00	-0.04	0.20	0.20
<b>Cost results (£)</b>				
Discounted cost of usual care	873	343	362	362
Discounted cost of treatment	0	632	978	957
Discounted cost of HF-related hospitalisations	4187	4169	4257	4348
Discounted cost of other hospitalisations	3800	3858	4007	3803
Total costs	8861	9001	9604	9470
<b>Difference in costs from usual care (£)</b>				
Discounted cost of usual care	0	-530	-512	-511
Discounted cost of treatment	0	632	978	957
Discounted cost of HF-related hospitalisations	0	-19	70	161
Discounted cost of other hospitalisations	0	57	207	3
Total difference in costs	0	140	743	609
Overall cost rank (1 = lowest cost)	1	2	4	3
<b>Discounted QALY results</b>				
QALYs with no hospitalisation decrement	2.5748	2.5509	2.6834	2.6848
HF-related hospitalisation decrement	-0.1611	-0.1604	-0.1638	-0.1673
Total discounted QALYs	2.4137	2.3905	2.5196	2.5175
<b>Difference in QALYs from usual care</b>				
QALYs with no hospitalisation decrement	0.0000	-0.0239	0.1086	0.1100
HF-related hospitalisation decrement	0.0000	0.0007	-0.0027	-0.0062

	Usual care	STS HM	STS HH	TM during office hours
Total difference in discounted QALYs	0.0000	-0.0232	0.1059	0.1038
Total discounted QALYs rank (1 = highest)	3	4	1	2
Probabilistic ICER vs usual care (£/QALY)		Dominated	7015	5864
Probabilistic sequential ICER (£/QALY)		Dominated	63,240 <sup>a</sup>	5864

#### **Uncertainty analyses using net benefit at £20,000 per QALY**

Probability that strategy is most cost-effective (%)	1	18	36	44
Expected total costs from PSA (£)	8861	9001	9604	9470
Expected total QALYs from PSA	2.4137	2.3905	2.5196	2.5175
Expected net benefit from PSA (£)	39,413	38,809	40,788	40,880
Difference from usual care costs (£)	0	140	743	609
Difference from usual care QALYs	0.0000	-0.0232	0.1059	0.1038
Difference from usual care net benefit (£)	0	-603.90	1375	1467
Net benefit rank (1 = highest)	3	4	2	1
Overall EVPI per patient at ICER of £20,000 per QALY (£)	820			
Population EVPI (£)	44,918,530			

<sup>a</sup> Last strategy in the cost-effectiveness frontier.

## **Economic analysis using data from predictive distributions**

	Usual care	STS HM	STS HH	TM during office hours
<b>Central estimates of HRs used as input</b>				
Mortality HR	1.000	1.180	0.849	0.843
HF-related hospitalisation HR	1.000	1.063	0.790	0.982
All-cause hospitalisation HR	1.000	1.302	1.074	0.835
Treatment costs assumed per month (£)	99	119	179	175
<b>Survival results (undiscounted)</b>				
1 year (%)	72.14	70.61	74.58	74.66
5 years (%)	33.75	33.04	34.89	34.93
Life expectancy over 30 years (years)	4.710	4.614	4.862	4.867
Difference in life expectancy vs usual care (years)	-	-0.100	0.151	0.157
<b>Cost results (£)</b>				
Discounted cost of usual care	873	339	358	359
Discounted cost of treatment	0	627	972	951
Discounted cost of HF-related hospitalisations	4187	4130	4221	4316

	Usual care	STS HM	STS HH	TM during office hours
Discounted cost of other hospitalisations	3800	3869	4023	3811
Total costs	8861	8965	9574	9437
<b><i>Difference in costs from usual care (£)</i></b>				
Discounted cost of usual care	0	-534	-515	-515
Discounted cost of treatment	0	627	972	951
Discounted cost of HF-related hospitalisations	0	-57	33	129
Discounted cost of other hospitalisations	0	69	223	11
Total difference in costs	0	104	713	576
Overall cost rank (1 = lowest cost)	1	2	4	3
<b><i>Discounted QALY results</i></b>				
QALYs with no hospitalisation decrement	2.5748	2.5223	2.6575	2.6605
HF-related hospitalisation decrement	-0.1611	-0.1589	-0.1624	-0.1661
Total discounted QALYs	2.4137	2.3633	2.4950	2.4944
<b><i>Difference in QALYs from usual care</i></b>				
QALYs with no hospitalisation decrement	0.0000	-0.0525	0.0827	0.0857
HF-related hospitalisation decrement	0.0000	0.0022	-0.0013	-0.0050
Total difference in discounted QALYs	0.0000	-0.0504	0.0814	0.0808
Total discounted QALYs rank (1 = highest)	3	4	1	2
Probabilistic ICER vs usual care (£/QALY)		Dominated	8768	7133
Probabilistic sequential ICER (£/QALY)		Dominated	228,035 <sup>a</sup>	7133
<b><i>Uncertainty analyses using net benefit at £20,000 per QALY</i></b>				
Probability that strategy is most cost-effective (%)	4	19	35	41
Expected total costs from PSA (£)	8861	8965	9574	9437
Expected total QALYs from PSA	2.4137	2.3633	2.4950	2.4944
Expected net benefit from PSA (£)	39,413	38,301	40,327	40,452
Difference from usual care costs (£)	0	104	713	576
Difference from usual care QALYs	0.0000	-0.0504	0.0814	0.0808
Difference from usual care net benefit (£)	0	-1111.22	914	1039
Net benefit rank (1 = highest)	3	4	2	1
Overall EVPI per patient at ICER of £20,000 per QALY (£)	1811			
Population EVPI (£)	99,204,217			

<sup>a</sup> Last strategy in the cost-effectiveness frontier.

## Economic analysis using data excluding the Home-HF study<sup>67</sup>

	Usual care	STS HM	STS HH	TM during office hours
<b>Central estimates of HRs used as input</b>				
Mortality HR	1.000	1.007	0.757	0.627
HF-related hospitalisation HR	1.000	1.042	0.766	0.872
All-cause hospitalisation HR	1.000	1.134	0.969	0.678
Treatment costs assumed per month (£)	99	119	179	175
<b>Survival results (undiscounted)</b>				
1 year (%)	72.14	72.14	75.67	77.63
5 years (%)	33.75	33.75	35.40	36.32
Life expectancy over 30 years (years)	4.710	4.710	4.930	5.052
Difference in life expectancy vs usual care (years)	–	–0.0003	0.2200	0.3420
<b>Cost results (£)</b>				
Discounted cost of usual care	873	346	363	373
Discounted cost of treatment	0	635	981	972
Discounted cost of HF-related hospitalisations	4187	4206	4269	4426
Discounted cost of other hospitalisations	3800	3873	4021	3879
Total costs	8861	9060	9635	9650
<b>Difference in costs from usual care (£)</b>				
Discounted cost of usual care	0	–527	–510	–501
Discounted cost of treatment	0	635	981	972
Discounted cost of HF-related hospitalisations	0	18	82	239
Discounted cost of other hospitalisations	0	73	221	79
Total difference in costs	0	199	774	789
Overall cost rank (1 = lowest cost)	1	2	3	4
<b>Discounted QALY results</b>				
QALYs with no hospitalisation decrement	2.5748	2.5747	2.6949	2.7612
HF-related hospitalisation decrement	–0.1611	–0.1619	–0.1643	–0.1703
Total discounted QALYs	2.4137	2.4128	2.5306	2.5908
<b>Difference in QALYs from usual care</b>				
QALYs with no hospitalisation decrement	0.0000	–0.0002	0.1200	0.1864
HF-related hospitalisation decrement	0.0000	–0.0007	–0.0032	–0.0092
Total difference in discounted QALYs	0.0000	–0.0009	0.1169	0.1772
Total discounted QALYs rank (1 = highest)	3	4	2	1
Probabilistic ICER vs usual care (£/QALY)		Dominated	6621	4455
Probabilistic sequential ICER (£/QALY)		Dominated	Extendedly dominated	4455 <sup>a</sup>

	Usual care	STS HM	STS HH	TM during office hours
<b>Uncertainty analyses using net benefit at £20,000 per QALY</b>				
Probability that strategy is most cost-effective (%)	0	5	12	83
Expected total costs from PSA (£)	8861	9060	9635	9650
Expected total QALYs from PSA	2.4137	2.4128	2.5306	2.5908
Expected net benefit from PSA (£)	39,413	39,196	40,976	42,167
Difference from usual care costs (£)	0	199	774	789
Difference from usual care QALYs	0.0000	-0.0009	0.1169	0.1772
Difference from usual care net benefit (£)	0	-216.70	1564	2754
Net benefit rank (1 = highest)	3	4	2	1
Overall EVPI per patient at ICER of £20,000 per QALY (£)	133			
Population EVPI (£)	7,285,566			

a Last strategy in the cost-effectiveness frontier.

## Economic analysis using data from predictive distributions excluding the Home-HF study<sup>67</sup>

	Usual care	STS HM	STS HH	TM during office hours
<b>Central estimates of HRs used as input</b>				
Mortality HR	1.000	1.032	0.776	0.642
HF-related hospitalisation HR	1.000	1.058	0.778	0.883
All-cause hospitalisation HR	1.000	1.235	1.048	0.731
Treatment costs assumed per month (£)	99	119	179	175
<b>Survival results (undiscounted)</b>				
1 year (%)	72.14	71.89	75.44	77.44
5 years (%)	33.75	33.63	35.30	36.23
Life expectancy over 30 years (years)	4.71	4.69	4.92	5.04
Difference in life expectancy vs usual care (years)	0.00	-0.02	0.21	0.33
<b>Cost results (£)</b>				
Discounted cost of usual care	873	345	362	372
Discounted cost of treatment	0	634	979	971
Discounted cost of HF-related hospitalisations	4187	4200	4262	4422
Discounted cost of other hospitalisations	3800	3909	4055	3901
Total costs	8861	9087	9658	9665

	Usual care	STS HM	STS HH	TM during office hours
<b><i>Difference in costs from usual care (£)</i></b>				
Discounted cost of usual care	0	-528	-511	-502
Discounted cost of treatment	0	634	979	971
Discounted cost of HF-related hospitalisations	0	12	75	234
Discounted cost of other hospitalisations	0	108	255	101
Total difference in costs	0	226	797	804
Overall cost rank (1 = lowest cost)	1	2	3	4
<b><i>Discounted QALY results</i></b>				
QALYs with no hospitalisation decrement	2.5748	2.5659	2.6870	2.7548
HF-related hospitalisation decrement	-0.1611	-0.1616	-0.1640	-0.1701
Total discounted QALYs	2.4137	2.4043	2.5230	2.5847
<b><i>Difference in QALYs from usual care</i></b>				
QALYs with no hospitalisation decrement	0.0000	-0.0089	0.1122	0.1800
HF-related hospitalisation decrement	0.0000	-0.0004	-0.0029	-0.0090
Total difference in discounted QALYs	0.0000	-0.0093	0.1093	0.1710
Total discounted QALYs rank (1 = highest)	3	4	2	1
Probabilistic ICER vs usual care (£/QALY)		Dominated	7295	4703
Probabilistic sequential ICER (£/QALY)		Dominated	Extendedly dominated	4703 <sup>a</sup>
<b><i>Uncertainty analyses using net benefit at £20,000 per QALY</i></b>				
Probability that strategy is most cost-effective (%)	1	7	19	73
Expected total costs from PSA (£)	8861	9087	9658	9665
Expected total QALYs from PSA	2.4137	2.4043	2.5230	2.5847
Expected net benefit from PSA (£)	39,413	39,000	40,801	42,029
Difference from usual care costs (£)	0	226	797	804
Difference from usual care QALYs	0.0000	-0.0093	0.1093	0.1710
Difference from usual care net benefit (£)	0	-412.88	1389	2616
Net benefit rank (1 = highest)	3	4	2	1
Overall EVPI per patient at ICER of £20,000 per QALY (£)	406			
Population EVPI (£)	22,240,150			
<b><i>a Last strategy in the cost-effectiveness frontier.</i></b>				