

Increasing Response Rates Among Open-Heart Surgery Patients on Health-Related Quality of Life Surveys Through an Intense Longitudinal Follow-Up Algorithm: A Cost-Benefit Analysis

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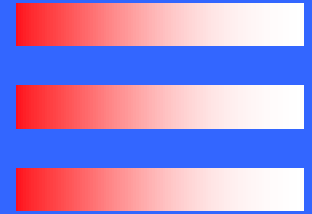
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Introduction



◆ Response Rates

- Differ depending on method of survey administration
 - Phone 40%-80%, **Mail 5%-30%**, Online 2%-30%, Personal In-Home 40%-50%
- Important when analyzing results; non-responders may be significantly different on your variables of interest than responders

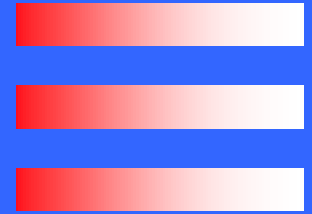


Introduction

- ◆ Extent of non-respondent bias can be inferred from the response rate
- ◆ Previous response rate average of 44% for our institutional longitudinal follow-up study
 - 10 year timeframe (1994-2004)
 - Mail Surveys
 - No follow-up if non-response; no incentives



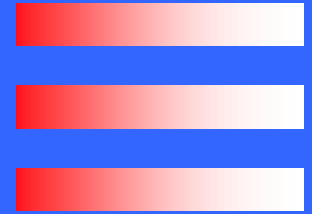
Introduction



- ◆ To improve upon this, we developed a multiple contact algorithm
- ◆ The impact of the algorithm on response rate and cost of implementation were investigated



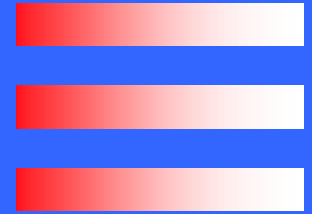
Methods



- ◆ Prospective longitudinal design
- ◆ Data Collected = Health-Related Quality of Life (HRQL) and Clinical Data
- ◆ Population = Open-heart surgery patients are enrolled on the day of surgery
 - Information on follow-up provided
- ◆ Consistent patient contact & positive reinforcement to increase response rate



Methods

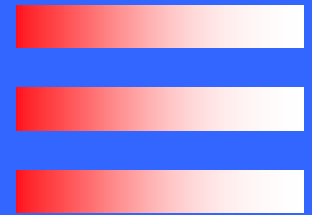


◆ Monthly Mailing

- Personalized letter, forms, postage-paid return envelope, flyer for incentive, postcard for readmission
- Thank you postcard for response
- Reminder postcard for non-response



Results

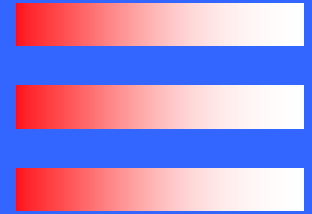


◆ Monthly Mailing

- Follow-Up phone calls for non-response
- Resending of surveys at end of month for non-response
- Keep-In-Touch letter for time points where no data collection expected



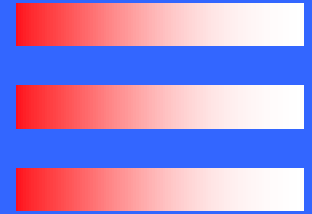
Methods



- ◆ **Cardiac Only Population**
 - General population contacted six months and one year post-surgery, then yearly thereafter (higher proportion of patients)
- ◆ **Maze Population**
 - Maze procedure population contacted 3 months, 6 months, 9 months, 12 months, 18 months, 24 months post-surgery and yearly thereafter



Methods



- ◆ Patients are followed until self-withdrawal, death, or lost to follow-up
- ◆ Costs were calculated based on number of mailings (paper, postage), personnel, and incentives



Results

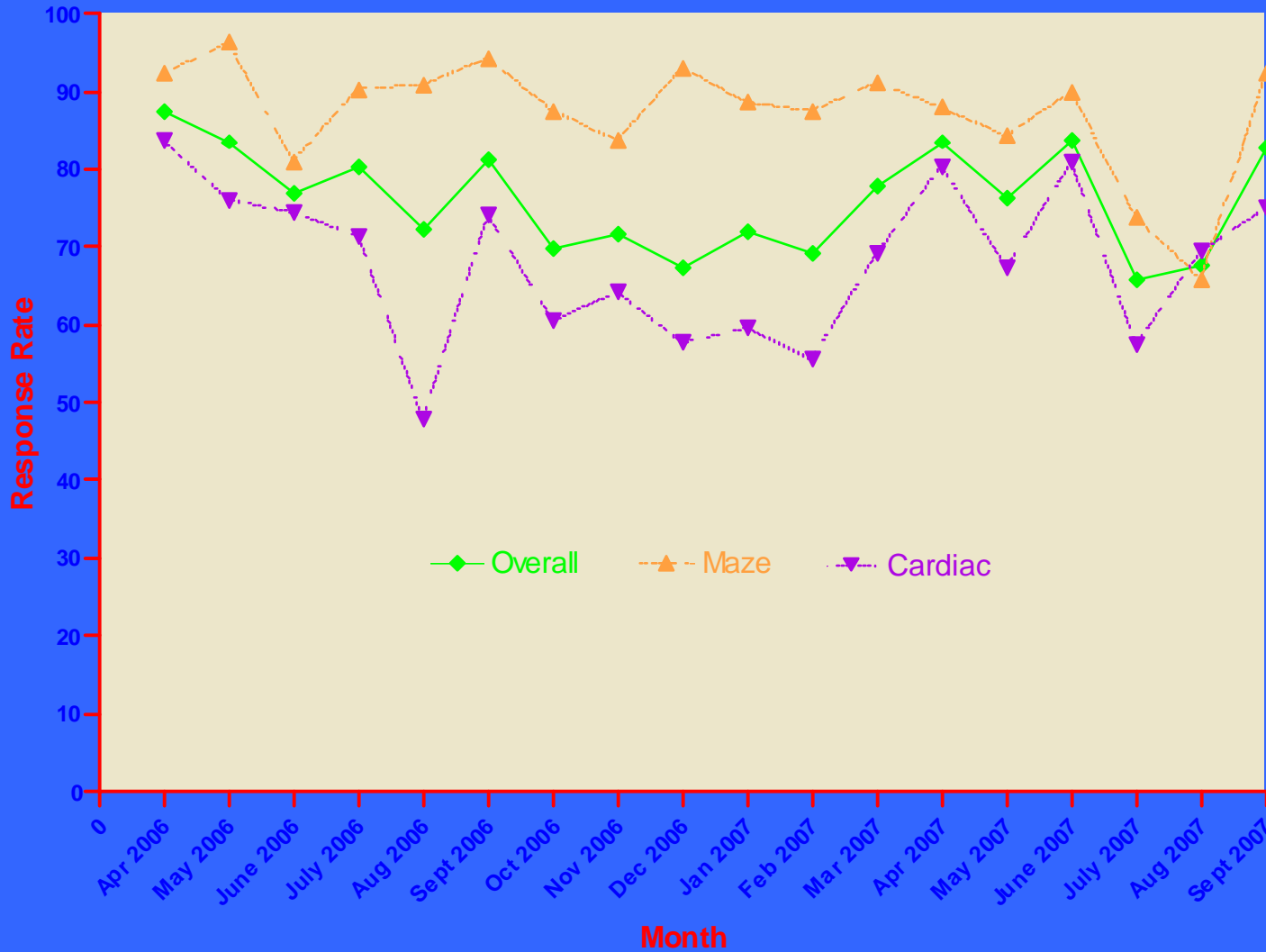
- ◆ Our overall response rate increased by 30.51% to 74.51% (General Arm 66.63% [N=917]; Maze Arm 85.65% [N=648]).

- ◆ Average number of contacts
 - Prior to Survey Completion
 - 2.1 General; 2.2 Maze
 - Post-Survey Completion
 - 1.0 General; 1.2 Maze

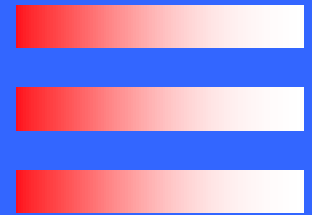


Results

Response Rates By Month



Results



◆ Calculation of Costs

- Based on projection of enrollment
- Calculated number of patients falling into subsequent time points



Results

	A	B	C	D	E	F	Year 1							N	Year 2										AA	▲			
		09-05	10-05	11-05	12-05	01-06	02-06	03-06	04-06	05-06	06-06	07-06	08-06	Year Total	09-06	10-06	11-06	12-06	01-07	02-07	03-07	04-07	05-07	06-07	07-07	08-07	Year Total	09	
3	Cardiac Study Recruitment	21	47	46	47	34	23	35	24	21	21	14	25	358	50	50	50	50	50	50	50	50	50	50	50	50	600	6	
4	Maze Study Recruitment	10	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	120	6	
5	Total	31	57	56	57	44	33	45	34	31	24	35	478	60	60	60	60	60	60	60	60	60	60	60	60	720	6		
6	Cardiac 6 Month Follow-Up							21	47	46	47	34	23	218	35	24	21	21	14	25	50	50	50	50	50	50	440	6	
7	Cardiac 3 Month KIT Letter				21	47	46	47	34	23	35	24	21	298	21	14	25	50	50	50	50	50	50	50	50	50	510	6	
8	Cardiac 12 Month Follow-Up													0	21	47	46	47	34	23	35	24	21	21	14	25	358	6	
9	Cardiac 18 Month KIT Letter													0								21	47	46	47	34	23	218	6
10	Cardiac 24 Month Follow-Up													0													0	6	
11	Cardiac 30 Month KIT Letter													0													0	6	
12	Cardiac 36 Month Follow-Up													0													0	6	
13	Cardiac 42 Month KIT Letter													0													0	6	
14	Cardiac 48 Month Follow-Up													0													0	6	
15	Cardiac 54 Month KIT Letter													0													0	6	
16	Cardiac 60 Month Follow-Up													0													0	6	
17	Cardiac Follow-Up Total	0	0	0	21	47	46	68	81	69	82	58	44	516	77	85	92	118	98	98	156	171	167	168	148	148	1526	2	
18	Maze 3 Month Follow-Up				10	10	10	10	10	10	10	10	10	90	10	10	10	10	10	10	10	10	10	10	10	10	10	120	6
19	Maze 6 Month Follow-Up							10	10	10	10	10	10	60	10	10	10	10	10	10	10	10	10	10	10	10	10	120	6
20	Maze 9 Month Follow-Up								10	10	10	10	10	30	10	10	10	10	10	10	10	10	10	10	10	10	10	120	6
21	Maze 12 Month Follow-Up										10	10	10	30	10	10	10	10	10	10	10	10	10	10	10	10	10	120	6
22	Maze 18 Month Follow-Up													0								10	10	10	10	10	60	6	
23	Maze 24 Month Follow-Up													0													0	6	
24	Maze 30 Month KIT													0													0	6	
25	Maze 36 Month Follow-Up													0													0	6	
26	Maze 42 Month KIT													0													0	6	
27	Maze 48 Month Follow-Up													0													0	6	
28	Maze 54 Month KIT													0													0	6	
29	Maze 60 Month Follow-Up													0													0	6	
30	Total	0	0	0	10	10	10	20	20	20	30	30	30	180	40	40	40	40	40	40	40	50	50	50	50	50	540	6	
31																													
32	Monthly Follow-Up	0	0	0	31	57	56	88	101	89	112	88	74	696	117	125	132	158	138	138	206	221	217	218	198	198	2066	2	
33																													
34																													
35	Overall Monthly	31	57	56	88	101	89	133	135	120	143	112	109	1174	177	185	192	218	198	198	266	281	277	278	258	258	2786	3	
36																													
37																													
38																													
39	KIT = Keep In Touch																												
40																													
41																													
42																													
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Results

	A	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1	Year 3														Year 4												
2	09-07	10-06	11-07	12-07	01-08	02-08	03-08	04-08	05-08	06-08	07-08	08-08	Year Total	09-08	10-08	11-08	12-08	01-09	02-09	03-09	04-09	05-09	06-09	07-09	08-09	Year Total	
3	Cardiac Study Recruitment	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
4	Maze Study Recruitment	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
5	Total	60	60	60	60	60	60	60	60	60	60	60	720	60	60	60	60	60	60	60	60	60	60	60	60	60	720
6	Cardiac 6 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
7	Cardiac 3 Month KIT Letter	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
8	Cardiac 12 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
9	Cardiac 18 Month KIT Letter	35	24	21	21	14	25	50	50	50	50	50	440	50	50	50	50	50	50	50	50	50	50	50	50	50	600
10	Cardiac 24 Month Follow-Up	21	47	46	47	34	23	35	24	21	14	25	358	50	50	50	50	50	50	50	50	50	50	50	50	50	600
11	Cardiac 30 Month KIT Letter						21	47	46	47	34	23	218	35	24	21	21	14	25	50	50	50	50	50	50	50	440
12	Cardiac 36 Month Follow-Up												0	21	47	46	47	34	23	35	24	21	21	14	25	358	
13	Cardiac 42 Month KIT Letter												0								21	47	46	47	34	23	218
14	Cardiac 48 Month Follow-Up												0														0
15	Cardiac 54 Month KIT Letter												0														0
16	Cardiac 60 Month Follow-Up												0														0
17	Cardiac Follow-Up Total	206	221	217	218	198	198	256	271	267	248	248	2916	306	321	317	318	298	298	356	371	367	368	348	348	4016	
18	Maze 3 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
19	Maze 6 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
20	Maze 9 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
21	Maze 12 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
22	Maze 18 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
23	Maze 24 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
24	Maze 30 Month KIT Letter						10	10	10	10	10	10	60	10	10	10	10	10	10	10	10	10	10	10	10	10	120
25	Maze 36 Month Follow-Up												0	10	10	10	10	10	10	10	10	10	10	10	10	10	120
26	Maze 42 Month KIT Letter												0								10	10	10	10	10	10	60
27	Maze 48 Month Follow-Up												0														0
28	Maze 54 Month KIT Letter												0														0
29	Maze 60 Month Follow-Up												0														0
30	Maze Follow-Up Total	60	60	60	60	60	70	70	70	70	70	70	780	80	80	80	80	80	80	90	90	90	90	90	90	90	1020
31																											
32	Monthly Follow-Up	266	281	277	278	258	258	326	341	337	338	318	3596	386	401	397	398	378	378	446	461	457	458	438	438	5036	
33																											
34																											
35	Overall Monthly Total	326	341	337	338	318	318	386	401	397	398	378	4316	446	461	457	458	438	438	506	521	517	518	498	498	5756	
36																											
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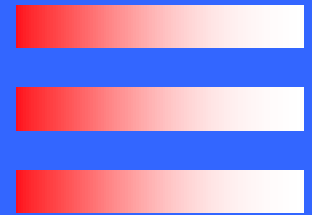


Results

	A	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA
1	Year 5													Year 6													
2	09-09	10-09	11-09	12-09	01-10	02-10	03-10	04-10	05-10	06-10	07-10	08-10	Year Total	09-10	10-10	11-10	12-10	01-11	02-11	03-11	04-11	05-11	06-11	07-11	08-11	Year Total	
3	Cardiac Study Recruitment	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
4	Maze Study Recruitment	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
5	Total	60	60	60	60	60	60	60	60	60	60	60	720	60	60	60	60	60	60	60	60	60	60	60	60	60	720
6	Cardiac 6 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
7	Cardiac 3 Month KIT Letter	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
8	Cardiac 12 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
9	Cardiac 18 Month KIT Letter	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
10	Cardiac 24 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
11	Cardiac 30 Month KIT Letter	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
12	Cardiac 36 Month Follow-Up	50	50	50	50	50	50	50	50	50	50	50	600	50	50	50	50	50	50	50	50	50	50	50	50	50	600
13	Cardiac 42 Month KIT Letter	35	24	21	21	14	25	50	50	50	50	50	440	50	50	50	50	50	50	50	50	50	50	50	50	50	600
14	Cardiac 48 Month Follow-Up	21	47	46	47	34	23	35	24	21	21	14	25	358	50	50	50	50	50	50	50	50	50	50	50	50	600
15	Cardiac 54 Month KIT Letter								21	47	46	47	218	35	24	21	21	14	25	50	50	50	50	50	50	50	440
16	Cardiac 60 Month Follow-Up												0	21	47	46	47	34	23	35	24	21	21	14	25	358	
17	Cardiac Follow-Up Total	406	421	417	418	398	398	456	471	467	468	448	5216	506	521	517	518	498	498	535	524	521	521	514	525	6198	
18	Maze 3 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
19	Maze 6 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
20	Maze 9 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
21	Maze 12 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
22	Maze 18 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
23	Maze 24 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
24	Maze 30 Month KIT Letter	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
25	Maze 36 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
26	Maze 42 Month KIT Letter	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
27	Maze 48 Month Follow-Up	10	10	10	10	10	10	10	10	10	10	10	120	10	10	10	10	10	10	10	10	10	10	10	10	10	120
28	Maze 54 Month KIT Letter								10	10	10	10	60	10	10	10	10	10	10	10	10	10	10	10	10	10	120
29	Maze 60 Month Follow-Up												0	10	10	10	10	10	10	10	10	10	10	10	10	10	120
30	Maze Follow-Up Total	100	100	100	100	100	100	110	110	110	110	110	1260	120	120	120	120	120	120	120	120	120	120	120	120	1440	
31																											
32	Monthly Follow-Up	506	521	517	518	498	498	566	581	577	578	558	6476	626	641	637	638	618	618	655	644	641	641	634	645	7638	
33																											
34	Overall Monthly Total	566	581	577	578	558	558	626	641	637	638	618	7196	686	701	697	698	678	678	715	704	701	701	694	705	8358	
35																											
36																											
37																											
38																											
39	KIT = Keep In Touch																										
40																											



Results



◆ Calculation of Costs

- Resources/Budget
- Personnel
 - Enrollment, data management, clinical, data analysis
- Supplies
 - Paper, printing, envelopes, labels, postage (out & return), long-distance phone charges, licensing fees for questionnaires, incentives, computer hardware & software, etc.
- Baseline and longitudinally (which grows exponentially over time) with attrition built-in



Results

	A	B	C	D	E	F	J	K	L
	Budget for Follow-Up Study	Sept 2006- Aug 2007	Sept 2007- Aug 2008	Sept 2008- Aug 2009	Sept 2009- Aug 2010	Sept 2010- Aug 2011			
2	Questionnaire Administration and Long-Term Follow-Up								
3	Baseline (All Patients)							2007-2008	
4	Questionnaire Copying (\$0.04/sheet)	\$28.80	\$28.80	\$28.80	\$28.80	\$28.80		Copying/Printing	\$33.60
5	Letterhead (\$60/box 500)	\$86.40	\$86.40	\$86.40	\$86.40	\$86.40		Postage	\$0.00
6	Readmission Magnet	\$187.20	\$187.20	\$187.20	\$187.20	\$187.20		Office Supplies	\$187.20
7	Maze Patient PHI Form Copying (\$0.04/sheet)	\$4.80	\$4.80	\$4.80	\$4.80	\$4.80		Letterhead	\$86.40
8	Total	\$307.20	\$307.20	\$307.20	\$307.20	\$307.20		Total	\$307.20
9	3 Month Follow-Up (Maze Patients)								
10	Copying (\$0.04/sheet)	\$19.20	\$19.20	\$19.20	\$19.20	\$19.20			
11	Questionnaire Mailing Postage (\$0.60/packet)	\$72.00	\$72.00	\$72.00	\$72.00	\$72.00			
12	Questionnaire Return Postage (\$0.32/piece)	\$34.56	\$34.56	\$34.56	\$34.56	\$34.56		2007-2008	
13	Labels (\$18.92/box 3000)	\$7.56	\$7.56	\$7.56	\$7.56	\$7.56		Copying/Printing	\$133.20
14	Letterhead (\$60/box 500)	\$14.40	\$14.40	\$14.40	\$14.40	\$14.40		Postage	\$182.16
15	Mail-out Envelopes (\$96/box 500)	\$23.04	\$23.04	\$23.04	\$23.04	\$23.04		Office Supplies	\$7.56
16	Return Envelopes (#10 \$25/box 500)	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00		Letterhead	\$43.44
17	Readmission Postcard	\$33.60	\$33.60	\$33.60	\$33.60	\$33.60		Total	\$366.36
18	Drawing Flyer	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40			
19	Thank You Postcard	\$30.24	\$30.24	\$30.24	\$30.24	\$30.24			
20	Thank You Postcard Postage	\$25.92	\$25.92	\$25.92	\$25.92	\$25.92			
21	No Reponse Postcard	\$3.36	\$3.36	\$3.36	\$3.36	\$3.36			
22	No Reponse Postcard Postage	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88			
23	Drawing Announcement Postcard	\$44.40	\$44.40	\$44.40	\$44.40	\$44.40			
24	Drawing Announcement Postcard Postage	\$46.80	\$46.80	\$46.80	\$46.80	\$46.80			
25	Total	\$366.36	\$366.36	\$366.36	\$366.36	\$366.36			
26	3 Month Keep In Touch (Cardiac Patients)							2007-2008	
27	Letterhead (\$60/box 500)	\$61.20	\$72.00	\$72.00	\$72.00	\$72.00		Copying/Printing	\$0.00
28	Labels (\$18.92/box 3000)	\$3.21	\$3.78	\$3.78	\$3.78	\$3.78		Postage	\$234.00
29	Mail-out Envelopes (\$50/box 500)	\$51.00	\$60.00	\$60.00	\$60.00	\$60.00		Office Supplies	\$3.78
30	KIT Mailing Postage (\$0.39/packet)	\$198.90	\$234.00	\$234.00	\$234.00	\$234.00		Letterhead	\$132.00
31	Total	\$314.31	\$369.78	\$369.78	\$369.78	\$369.78		Total	\$369.78



Results

	Sept 2006- Aug 2007	Sept 2007- Aug 2008	Sept 2008- Aug 2009	Sept 2009- Aug 2010	Sept 2010- Aug 2011			
1	Budget for Follow-Up Study							
32	6 Month Follow-Up (Cardiac Patients)							
33	Copying (\$0.04/sheet)	\$88.00	\$120.00	\$120.00	\$120.00	\$120.00		
34	Questionnaire Mailing Postage (\$0.60/packet)	\$264.00	\$360.00	\$360.00	\$360.00	\$360.00		
35	Questionnaire Return Postage (\$0.32/piece)	\$112.64	\$153.60	\$153.60	\$153.60	\$153.60	2007-2008	
36	Labels (\$18.92/box 3000)	\$41.58	\$56.70	\$56.70	\$56.70	\$56.70	Copying/Printing	
37	Letterhead (\$60/box 500)	\$52.80	\$72.00	\$72.00	\$72.00	\$72.00	Postage	
38	Mail-out Envelopes (\$96/box 500)	\$84.48	\$115.20	\$115.20	\$115.20	\$115.20	Office Supplies	
39	Return Envelopes (#10 \$25/box 500)	\$22.00	\$30.00	\$30.00	\$30.00	\$30.00	Letterhead	
40	Readmission Postcard	\$123.20	\$168.00	\$168.00	\$168.00	\$168.00	Total	
41	Drawing Flyer	\$8.80	\$12.00	\$12.00	\$12.00	\$12.00		
42	Thank You Postcard	\$98.56	\$134.40	\$134.40	\$134.40	\$134.40		
43	Thank You Postcard Postage	\$84.48	\$115.20	\$115.20	\$115.20	\$115.20		
44	No Reponse Postcard	\$33.60	\$33.60	\$33.60	\$33.60	\$33.60		
45	No Reponse Postcard Postage	\$28.80	\$28.80	\$28.80	\$28.80	\$28.80		
46	Drawing Announcement Postcard	\$162.80	\$222.00	\$222.00	\$222.00	\$222.00		
47	Drawing Announcement Postcard Postage	\$171.60	\$234.00	\$234.00	\$234.00	\$234.00		
48	Total	\$1,377.34	\$1,855.50	\$1,855.50	\$1,855.50	\$1,855.50	\$1,855.50	
49	6 Month Follow-Up (Maze Patients)							
50	Copying (\$0.04/sheet)	\$24.00	\$24.00	\$24.00	\$24.00	\$24.00		
51	Questionnaire Mailing Postage (\$0.60/packet)	\$72.00	\$72.00	\$72.00	\$72.00	\$72.00		
52	Questionnaire Return Postage (\$0.32/piece)	\$34.56	\$34.56	\$34.56	\$34.56	\$34.56	2007-2008	
53	Labels (\$18.92/box 3000)	\$11.34	\$11.34	\$11.34	\$11.34	\$11.34	Copying/Printing	
54	Letterhead (\$60/box 500)	\$14.40	\$14.40	\$14.40	\$14.40	\$14.40	Postage	
55	Mail-out Envelopes (\$96/box 500)	\$23.04	\$23.04	\$23.04	\$23.04	\$23.04	Office Supplies	
56	Return Envelopes (#10 \$25/box 500)	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	Letterhead	
57	Readmission Postcard	\$33.60	\$33.60	\$33.60	\$33.60	\$33.60	Total	
58	Drawing Flyer	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40		
59	Thank You Postcard	\$30.24	\$30.24	\$30.24	\$30.24	\$30.24		
60	Thank You Postcard Postage	\$25.92	\$25.92	\$25.92	\$25.92	\$25.92		
61	No Reponse Postcard	\$3.36	\$3.36	\$3.36	\$3.36	\$3.36		
62	No Reponse Postcard Postage	\$2.88	\$2.88	\$2.88	\$2.88	\$2.88		
63	Drawing Announcement Postcard	\$44.40	\$44.40	\$44.40	\$44.40	\$44.40		
64	Drawing Announcement Postcard Postage	\$46.80	\$46.80	\$46.80	\$46.80	\$46.80		
65	Total	\$374.94	\$374.94	\$374.94	\$374.94	\$374.94	\$374.94	
66	9 Month Follow-Up (Maze Patients)							
67	Copying (\$0.04/sheet)	\$19.20	\$19.20	\$19.20	\$19.20	\$19.20		

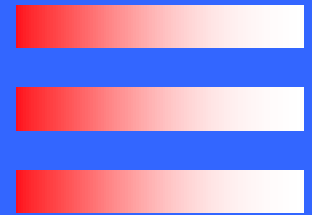


Results

N334		f								
	A	B	C	D	E	F	J	K	L	
1	Budget for Follow-Up Study	Sept 2006- Aug 2007	Sept 2007- Aug 2008	Sept 2008- Aug 2009	Sept 2009- Aug 2010	Sept 2010- Aug 2011				
299	Labels (\$18.92/box 3000)	N/A	N/A	N/A	N/A	\$11.34		Copying/Printing		
300	Letterhead (\$60/box 500)	N/A	N/A	N/A	N/A	\$14.40		Postage		
301	Mail-out Envelopes (\$96/box 500)	N/A	N/A	N/A	N/A	\$23.04		Office Supplies		
302	Return Envelopes (#10 \$25/box 500)	N/A	N/A	N/A	N/A	\$6.00		Letterhead		
303	Readmission Postcard	N/A	N/A	N/A	N/A	\$33.60		Total		
304	Drawing Flyer	N/A	N/A	N/A	N/A	\$2.40				
305	Thank You Postcard	N/A	N/A	N/A	N/A	\$30.24				
306	Thank You Postcard Postage	N/A	N/A	N/A	N/A	\$25.92				
307	No Reponse Postcard									
308	No Reponse Postcard Postage									
309	Drawing Announcement Postcard	N/A	N/A	N/A	N/A	\$44.40				
310	Drawing Announcement Postcard Postage	N/A	N/A	N/A	N/A	\$46.80				
311	Total	N/A	N/A	N/A	N/A	\$374.70				
312	Miscellaneous									
313	SF-12 Licensing Fee	\$1,700.00	\$1,700.00	\$1,700.00	\$1,700.00	\$1,700.00				
314	SAS Licensing Fee	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00				
315	Long Distance Calling	\$28.98	\$28.98	\$28.98	\$28.98	\$28.98				
316	Database Administrator Time	\$39,175.20	\$39,175.20	\$39,175.20	\$39,175.20	\$39,175.20				
317	Nurse Administrator Time	\$29,250.00	\$29,250.00	\$29,250.00	\$29,250.00	\$29,250.00				
318	Research Administrator Time	\$20,340.00	\$20,340.00	\$20,340.00	\$20,340.00	\$20,340.00				
319	Ink Cartridges (\$124.45/ea)	\$373.35	\$497.80	\$622.25	\$746.70	\$871.15				
320	Visa Gift Card Giveaway	\$600.00	\$600.00	\$600.00	\$600.00	\$600.00				
321	Charts (Maze Only)	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00				
322	Computer Hardware/Software	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00				
323	Total	\$94,667.53	\$94,791.98	\$94,916.43	\$95,040.88	\$95,165.33				
324	Project Setup									
325	Initial Setup of Project (DA, RA, NA salaries)	\$70,560.00								
326	Total Costs	\$170,173.39	\$103,042.75	\$105,808.73	\$108,574.72	\$111,169.37				
327										
328										
329								2007-2008 All Timepoints		
330								Copying/Printing	\$2,712.24	
331								Postage	\$3,933.56	
332								Office Supplies	\$403.97	
333								Letterhead	\$1,201.00	
334								Total	\$8,250.77	



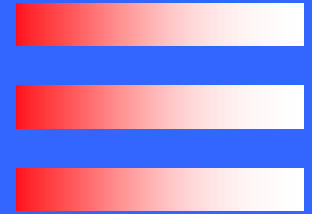
Results



- ◆ The initial project set-up cost along with study implementations during the first year was approximately \$170,000
- ◆ First full year annual cost of \$103,000
- ◆ Year five annual cost estimated at \$111,000



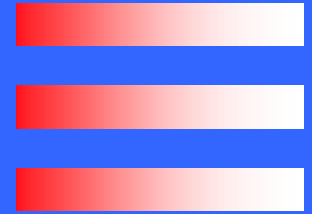
Conclusions



- ◆ Based on the increase in response rate we conclude that the implementation of our follow-up algorithm has been successful and the costs are beneficial and justified.



Questions



Thank You!

