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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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; nonresponders 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







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





Cardina Surgary Re. INOVA HEART AND VASCULAR INSTITUTE . Cardiac Surgery Patients - Standard Contact Follow-Up MAZE PATIENTS NON-MAZE PATIENTS Mane Non-Mace Baseline Enroliment 2 Martin Phare Cal - Dress Harryn Mail Scores File: Phare Comer - In the local Fig. Physics Call II for Response to Well 10 Mail Travel The Postpart / Pargar 6 Month Follow-Up Bar (C) marked to of them Non-Mane Part Plane Cal - Tree Roman 21 144 Particle Pastant's Basis Port Saling I St 1 HIGL & The Con 1 Asthese Materia 22 Barries Pateria 43 Barries Pateria F 11 Provide On Rengel Base Par Render By B Martines Martinet - 1000 P Station Cal Treatment C mai Barrader Postaer 12 Mars P Residences 10 Hall Trank Tou Postan B 111 Plat Res. and that optimized B interface Restarchers - Concept Researchers - Status Plate 12 Month Follow-Up The Survey 'st of Stoch Non-Maps Mare FIL Proce Cal - Tree Aberry 2 Heat 100 Alterna Participation Provider For Thomas Call - Don Hamping Televisor Practice That Them The Product of Department Practice Til Month C Set Survey 14 of State - State Street P Stu Proce Cal - Three I Balling File Testan 1 Mail Ferninder Plan P Remote Call - One Alternation Processing of Manager Processing of the Names The Thest Tour 24 Month Follow-Up Blaze and having the of Shorts. Non-Mape on Call Tree Id Will, The Branch 1 Mail Remode Property Hands For Holes Million To Drived States Automa Talaban Marina Talaban Marina Talaban P Ruffers Cal - Deutlangt 2 Basis Fach United Call - Des Alberty 2 Room Post R Yearly Follow-Up The Same Station Mare . Non-Mare State Remove Pressent 2 Marcs Proc Making Fill Proce Call - One-Marcy 2 Marks Proc Ref State Tank Tas Pressent I Response Received Hereit and the control of the definition of the control of the definition of the second of the line control of Serie Linder Manual Tenantics Conceptual of DBA FUA FUA RNC SBARAC BBC BBC BBC BBC



Follow-Up

Algorithm



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





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





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







 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





 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
 - I.0 General; 1.2 Maze





Results Response Rates By Month 100-90 80 -70-60 -50-**40** 30----- Maze --- Overall ----- Cardiac 20-10-Califier Surgery Research INOVA[®] HEART AND VASCULAR INSTITUTE Inova Fairfax Hospital



Based on projection of enrollment

Calculated number of patients falling into subsequent time points









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3	Cardiac Study Recruitment	50	50	50	50	50	50	50	50	50	50	50	50	600	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	10	120	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	60	720	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	50	600	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	50	600	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	50	600	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	50	440	50	50	50	50	50	50	50	50	50	50	50	50	600
10	Cardiac 24 Month Follow-Llp	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
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	440
12	Cardiac 36 Month Follow-Llp													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
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15	Cardiac 54 Month KIT Letter													0													0
16	Cardiac 60 Month Follow-Llp													0													0
17	Cardiac Follow-Up Total	206	221	217	218	198	198	256	271	267	268	248	248	2816	306	321	317	318	298	298	356	371	367	368	348	348	4016
18	Naze 3 Nonth Follow-Up	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
19	Naze 6 Month Follow-Up	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
20	Naze 3 Month Follow-Un	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
21	Naze 12 Month Follow-Up	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
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23	Naze 24 Month Follow-Up	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
24	Naze 30 Month k17 Letter							10	10	10	10	10	10	60	10	10	10	10	10	10	10	10	10	10	10	10	120
25	Naze 36 Month Follow-Up													0	10	10	10	10	10	10	10	10	10	10	10	10	120
26	Naze 42 Nionth KIT Letter													Ō							10	10	10	10	10	10	60
27	Naze 48 Month Follow-Up													0													0
28	Naze 54 Nonth KIT Letter													0													0
29	Naze 60 Month Follow-Up													0													0
30	Maze Follow-Up Total	60	60	60	60	60	60	70	70	70	70	70	70	780	80	80	80	80	80	80	90	90	90	90	90	90	1020
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32	Monthle Follow-Un	266	281	277	278	258	258	326	341	337	338	318	318	3596	386	401	397	398	378	378	446	461	457	458	438	438	5036
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3	Cardiac Study Recruitment	50	50	50	50	50	50	50	50	50	50	50	50	600	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	10	120	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	60	720	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	50	600	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	50	600	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	50	600	50	50	50	50	50	50	50	50	50	50	50	50	600	
9	Cardiac 18 Nonth KIT Letter	50	50	50	50	50	50	50	50	50	50	50	50	600	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	50	600	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	50	600	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	50	600	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	50	440	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	34	23	218	35	24	21	21	14	25	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	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	10	120	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	10	120	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	10	120	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	10	120	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	10	120	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	10	120	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	10	120	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	10	120	10	10	10	10	10	10	10	10	10	10	10	10	120	_
26	Naze 42 Nonth KIT Letter	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	_
27	Naze 48 Month Follow-Up	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	_
28	Naze 54 Nonth KIT Letter							10	10	10	10	10	10	60	10	10	10	10	10	10	10	10	10	10	10	10	120	_
29	Naze 60 Month Follow-Up													0	10	10	10	10	10	10	10	10	10	10	10	10	120	_
30	Maze Follow-Up Total	100	<u>100</u>	100	100	100	100	_110_	110	<u>110</u>	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	558	6476	626	641	637	638	618	618	655	644	641	641	634	645	7638	_
33													:															_
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35	Overall Monthly Total	566	581	577	578	558	558	626	641	637	638	618	618	7196	686	701	697	698	678	678	715	704	701	701	694	705	8358	
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37																												_
38																												_
39	KIT = Keep In Touch																											_
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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









	A	В	С	D	E	F	J	К	L
		Sept 2006-	Sept 2007-	Sept 2008-	Sept 2009-	Sept 2010-			
1	Budget for Follow-Up Study	Aug 2007	Aug 2008	Aug 2009	Aug 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
14	A NUM SE 12 Pudget 2005 2006 \ CE 12 Pudget	ach Cont 2000	Aug 2012	Musshave Timeli	200E 2011				







	~ ~ ~	Sept 2006-	Sept 2007-	Sept 2008-	Sept 2009-	Sept 2010-	 N N	
1	Budget for Follow-Up Study	Aug 2007	Aug 2008	Aug 2009	Aug 2010	Aug 2011		
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	\$690.00
37	Letterhead (\$60/box 500)	\$52.80	\$72.00	\$72.00	\$72.00	\$72.00	Postage	\$891.60
38	Mail-out Envelopes (\$96/box 500)	\$84.48	\$115.20	\$115.20	\$115.20	\$115.20	Office Supplies	\$56.70
39	Return Envelopes (#10 \$25/box 500)	\$22.00	\$30.00	\$30.00	\$30.00	\$30.00	Letterhead	\$217.20
40	Readmission Postcard	\$123.20	\$168.00	\$168.00	\$168.00	\$168.00	Total	\$1,855.50
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		
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	\$138.00
54	Letterhead (\$60/box 500)	\$14.40	\$14.40	\$14.40	\$14.40	\$14.40	Postage	\$182.16
55	Mail-out Envelopes (\$96/box 500)	\$23.04	\$23.04	\$23.04	\$23.04	\$23.04	Office Supplies	\$11.34
56	Return Envelopes (#10 \$25/box 500)	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	Letterhead	\$43.44
57	Readmission Postcard	\$33.60	\$33.60	\$33.60	\$33.60	\$33.60	Total	\$374.94
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		
66	9 Month Follow-Up (Maze Patients)							
67	Copying (\$0.04/sheet)	\$19.20	\$19.20	\$19.20	\$19.20	\$19.20		
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		Sept 2006-	Sept 2007-	Sept 2008-	Sept 2009-	Sept 2010-				
1	Budget for Follow-Up Study	Aug 2007	Aug 2008	Aug 2009	Aug 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			L	_
306	Thank You Postcard Postage	N/A	N/A	N/A	N/A	\$25.92			L	_
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			L	_
322	Computer Hardware/Software	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00			L	_
323	Total	\$94,667.53	\$94,791.98	\$94,916.43	\$95,040.88	\$95,165.33			L	_
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									L	_
328									L	_
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	
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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.









Thank You!





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