

Risk Stratification Tool: LACE Index

L= Length of Stay

A=Acuity of admission

C: Charlson Index (modified)

E= Number ER visit in prior 6 months

Lace index Calculator Built into EMR

Hyperspace - FAMILY PRAC SH GROV - Production - HCPRODMAM PRODMAM

Epic

Healthconnect, Eleven

Healthconnect, Eleven MRN: 181288521 Age: 56 Yr Sex: M PCP: Unspecified.mas (R.* PCP Loc: Shady Grove Allergies: Pcn Class, Naproxen Sodi

Flowsheet Report

Select Flowsheets to View

LACE SCORE, MAS [931]

LACE SCORE, MAS	7/15/2011	7/26/2011
Admit date:	7/15/2011	7/26/2011
Discharge date:	7/30/2011	8/1/2011
LOS	15	6
LOS Score	7	4
Emergent admission?	Yes	Yes
Acuity of Visit Score	3	3
Previous myocardial infarction?	No	No
Cerebrovascular disease?	No	No
Peripheral vascular disease?	No	No
Diabetes without complications?	No	No
Congestive heart failure?	Yes	No
Diabetes with end organ damage?	No	No
Chronic pulmonary disease?	No	No
Mild liver disease?	No	No
Any tumor (including lymphoma or leukemia)?	No	No
Dementia?	Yes	No
Connective tissue disease?	No	No
AIDS?	No	No
Moderate or severe liver disease?	No	No
Metastatic solid tumor?	No	No
Charlson index	5	0
Comorbidity Score	5	0
Number of emergency department visits	2	2
ED visit score	2	2
ACE Score	10	5
LACE Index Score	17	9

Interventions delivered based on LACE

- **High Risk patients (LACE greater than 10)**
 - Meeting with case manager pre discharge
 - Follow up appt within 3 business days
 - Pharmacist call within 2 business days
 - Case Manager call within 2 business days
 - Palliative Care consult if LACE 17-19

Interventions based on LACE

- **Moderate Risk Patients (LACE 6-9)**

- Pharmacist Call within 2 business days
- Case Manager call within 2 business days
- Follow up appt within 7 business days

Low Risk Patients (LACE under 6)

- Follow up appt within 14 business days

Tracking delivery of interventions



Hospital Re-Admissions Report Members Discharged to Home with a LACE Score in Dec 2013

HOSPITAL READMISSIONS WITHIN 30 DAYS OF DISCHARGE BY LACE INDEX SCORE

LACE INDEX SCORE GROUP 1-5

ST AGNES HOSP		FFX HOSP		GBMC HOSP		HC HOSP		RES HOSP		SUB HOSP		VHC		WHC		ALL HOSP	
DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS
6	0			24	2	31	0	2	0	22	0	47	1	47	2	179	5

LACE INDEX SCORE GROUP 6-9

ST AGNES HOSP		FFX HOSP		GBMC HOSP		HC HOSP		RES HOSP		SUB HOSP		VHC		WHC		ALL HOSP	
DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS
25	1			30	2	103	10	12	1	20	1	111	11	102	7	403	33

LACE INDEX SCORE GROUP 10+

ST AGNES HOSP		FFX HOSP		GBMC HOSP		HC HOSP		RES HOSP		SUB HOSP		VHC		WHC		ALL HOSP	
DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS
3	0			7	2	28	1	9	1	7	3	24	1	29	1	107	9

LACE INDEX SCORE GROUP 1-10+

ST AGNES HOSP		FFX HOSP		GBMC HOSP		HC HOSP		RES HOSP		SUB HOSP		VHC		WHC		ALL HOSP	
DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS	DISCH	READMITS
34	1			61	6	162	11	23	2	49	4	182	13	178	10	669	47

PERCENT OF HOSPITAL READMISSIONS WITHIN 30 DAYS OF DISCHARGE BY LACE INDEX SCORE

LACE INDEX SCORE GROUP 1-5

AGNES	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOTAL
0.0%		8.3%	0.0%	0.0%	0.0%	2.1%	4.3%	2.8%

LACE INDEX SCORE GROUP 6-9

AGNES	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOTAL
4.0%		6.7%	9.7%	8.3%	5.0%	9.9%	6.9%	8.2%

LACE INDEX SCORE GROUP 10+

AGNES	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOTAL
0.0%		28.6%	3.6%	11.1%	42.9%	4.2%	3.4%	8.4%

LACE INDEX SCORE GROUP 1-10+

AGNES	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOTAL
2.9%		9.8%	6.8%	8.7%	8.2%	7.1%	5.6%	6.8%

PERCENT OF FOLLOW-UP ENCOUNTER COMPLIANCE AFTER DISCHARGE

LACE GROUP 1-5

FOLLOW-UP GOAL	GOAL MET	NO. OF APPTS	PCT OF TOTAL
FOLLOW-UP APPOINTMENT WITHIN 14 DAYS	YES	133	74.3%
FOLLOW-UP APPOINTMENT WITHIN 14 DAYS	NO	46	25.7%

LACE GROUP 6-9

FOLLOW-UP GOAL	GOAL MET	NO. OF APPTS	PCT OF TOTAL
FOLLOW-UP APPOINTMENT WITHIN 7 DAYS	YES	285	70.7%
FOLLOW-UP APPOINTMENT WITHIN 7 DAYS	NO	118	29.3%

LACE GROUP 10+

FOLLOW-UP GOAL	GOAL MET	NO. OF APPTS	PCT OF TOTAL
FOLLOW-UP APPOINTMENT WITHIN 3 DAYS	YES	50	46.7%
FOLLOW-UP APPOINTMENT WITHIN 3 DAYS	NO	57	53.3%



Hospital Re-Admissions Report

Members Discharged to Home with a LACE Score in Dec 2013

PERCENT OF TOTAL DISCHARGES IN-HOSPITAL INTERVENTIONS

CASE MANAGERS									
LACE INDEX SCORES 10+ DISCHARGE PLANNING CONSULT									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				3.6%				3.4%	1.9%
COMPLETED	100.0%		57.1%	78.6%	66.7%	85.7%	70.8%	86.2%	77.6%
INCOMPLET			42.9%	17.9%	33.3%	14.3%	29.2%	10.3%	20.6%
PHARMACIST									
LACE INDEX SCORES 10+ MEET & GREET OR MED REC									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
INCOMPLET	100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

PERCENT OF TOTAL DISCHARGES OUT-PATIENT INTERVENTIONS

CASE MANAGERS									
LACE INDEX SCORES 6-9 POST-DISCHARGE FOLLOW-UP CALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED	16.0%		13.3%	24.3%	16.7%	20.0%	17.1%	8.8%	16.6%
COMPLETED	16.0%		36.7%	68.0%	58.3%	50.0%	68.5%	84.3%	65.5%
INCOMPLET	68.0%		50.0%	7.8%	25.0%	30.0%	14.4%	6.9%	17.9%
PHARMACIST									
LACE INDEX SCORES 6-9 ATTEMPTED POST-DISCHARGE MED RECON PHONECALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED	12.0%		13.3%	18.4%	41.7%	20.0%	18.9%	16.7%	18.1%
COMPLETED	72.0%		80.0%	73.8%	41.7%	75.0%	71.2%	75.5%	73.0%
INCOMPLET	16.0%		6.7%	7.8%	16.7%	5.0%	9.9%	7.8%	8.9%
CASE MANAGERS									
LACE INDEX SCORES 10+ POST-DISCHARGE FOLLOW-UP CALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				25.0%		42.9%	16.7%	3.4%	14.0%
COMPLETED			71.4%	60.7%	88.9%	57.1%	66.7%	79.3%	68.2%
INCOMPLET	100.0%		28.6%	14.3%	11.1%		16.7%	17.2%	17.8%
PHARMACIST									
LACE INDEX SCORES 10+ ATTEMPTED POST-DISCHARGE MED RECON PHONECALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				14.3%	22.2%	28.6%	8.3%		9.3%
COMPLETED	100.0%		85.7%	78.6%	66.7%	71.4%	83.3%	89.7%	82.2%
INCOMPLET			14.3%	7.1%	11.1%		8.3%	10.3%	8.4%

DISCHARGES IN-HOSPITAL INTERVENTIONS

CASE MANAGERS									
LACE INDEX SCORES 10+ DISCHARGE PLANNING CONSULT									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				1				1	2
COMPLETED	3		4	22	6	6	17	25	83
INCOMPLETE			3	5	3	1	7	3	22
PHARMACIST									
LACE INDEX SCORES 10+ MEET & GREET OR MED REC									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
INCOMPLETE	3		7	28	9	7	24	29	107

DISCHARGES OUT-PATIENT INTERVENTIONS

CASE MANAGERS									
LACE INDEX SCORES 6-9 POST-DISCHARGE FOLLOW-UP CALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED	4		4	25	2	4	19	9	67
COMPLETED	4		11	70	7	10	76	86	264
INCOMPLETE	17		15	8	3	6	16	7	72
PHARMACIST									
LACE INDEX SCORES 6-9 ATTEMPTED POST-DISCHARGE MED RECON PHONECALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED	3		4	19	5	4	21	17	73
COMPLETED	18		24	76	5	15	79	77	294
INCOMPLETE	4		2	8	2	1	11	8	36
CASE MANAGERS									
LACE INDEX SCORES 10+ POST-DISCHARGE FOLLOW-UP CALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				7		3	4	1	15
COMPLETED			5	17	8	4	16	23	73
INCOMPLETE	3		2	4	1		4	5	19
PHARMACIST									
LACE INDEX SCORES 10+ ATTEMPTED POST-DISCHARGE MED RECON PHONECALL									
	AGN	FFX	GBMC	HCH	RES	SUH	VHC	WHC	TOT
ATTEMPTED				4	2	2	2		10
COMPLETED	3		6	22	6	5	20	26	88
INCOMPLETE			1	2	1		2	3	9



Hospital Re-Admissions Report

Members Discharged to Home with a LACE Score in Dec 2013

PERCENT OF FOLLOW-UP FIRST APPOINTMENT BOOKED BEFORE OR AFTER DISCHARGE

LACE GROUP 1-5			LACE GROUP 6-9			LACE GROUP 10+		
BOOKING STATUS	APPTS	PCT	BOOKING STATUS	APPTS	PCT	BOOKING STATUS	APPTS	PCT
APPOINTMENT BOOKED	134	74.9%	APPOINTMENT BOOKED	332	82.4%	APPOINTMENT BOOKED	85	79.4%
NO APPOINTMENT BOOKED	45	25.1%	NO APPOINTMENT BOOKED	71	17.6%	NO APPOINTMENT BOOKED	22	20.6%

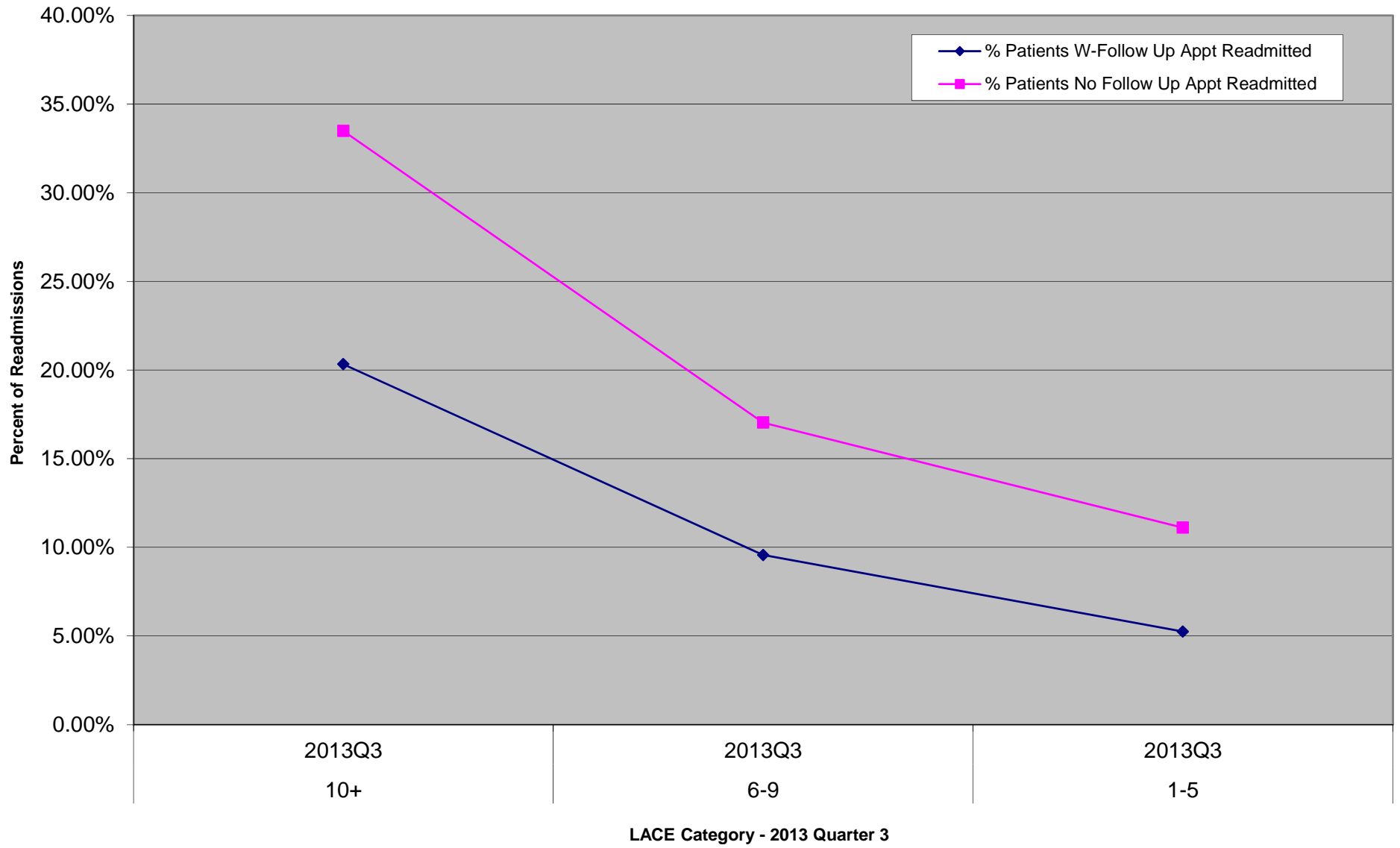
PERCENT OF FOLLOW-UP FIRST APPOINTMENT BOOKED STATUS

LACE GROUP 1-5			LACE GROUP 6-9			LACE GROUP 10+		
FOLLOW-UP APPOINTMENT MADE WITH IN 14 DAYS			FOLLOW-UP APPOINTMENT MADE WITH IN 7 DAYS			FOLLOW-UP APPOINTMENT MADE WITH IN 3 DAYS		
APPOINTMENT STATUS	APPTS	PCT	APPOINTMENT STATUS	APPTS	PCT	APPOINTMENT STATUS	APPTS	PCT
Completed	131	73.2%	Completed	285	70.7%	Completed	49	45.8%
Canceled			Canceled			Canceled		
No Show	3	1.7%	No Show	1	0.2%	No Show	1	0.9%
Scheduled			Scheduled			Scheduled		
FOLLOW-UP APPOINTMENT MADE AFTER 14 DAYS			FOLLOW-UP APPOINTMENT MADE AFTER 7 DAYS			FOLLOW-UP APPOINTMENT MADE AFTER 3 DAYS		
APPOINTMENT STATUS	APPTS	PCT	APPOINTMENT STATUS	APPTS	PCT	APPOINTMENT STATUS	APPTS	PCT
Completed			Completed	46	11.4%	Completed	34	31.8%
Canceled			Canceled			Canceled	1	0.9%
No Show			No Show			No Show		
Scheduled			Scheduled			Scheduled		

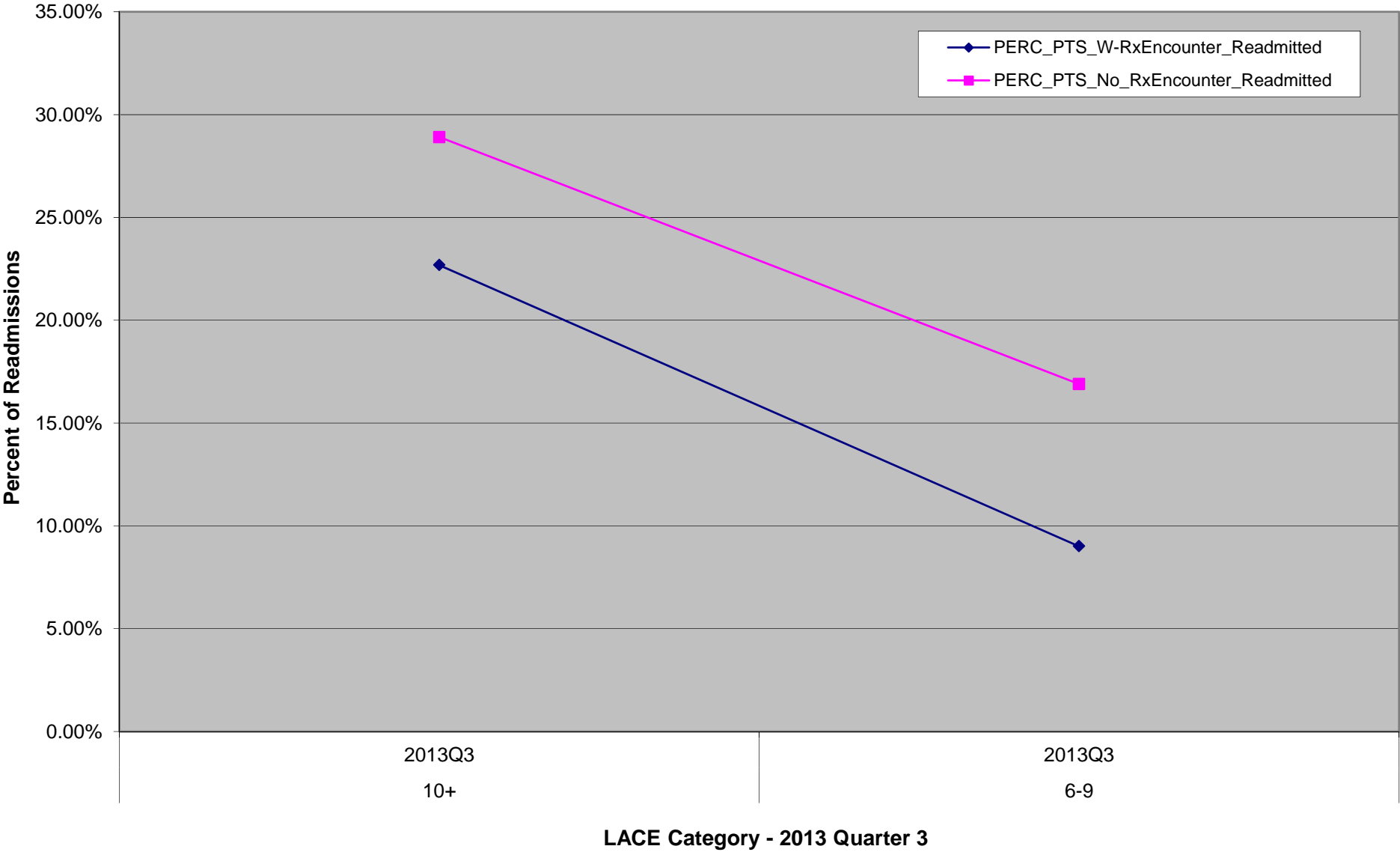
Analyzing Effectiveness of Interventions

(The distance between lines on the following graphs indicates power of interventions)

Percent of Readmission by Follow-Up Appointment Status



Percent of Readmission by Pharmacy Encounter Status



Percent of Readmission by Case Management Encounter Status

