

Pre-
Period
3/01/2011
to
08/31/2011

Post-
Period
11/01/2011
to
04/30/2012

Attachment A

Rank	Specialty	ANALGESICS, NARCOTICS			ANALGESICS, NARCOTICS		
		# of RX's	# of Units	Units per Rx	# of RX's	# of Units	Units per Rx
1	NEUROLOGY	5,241	562,731	107	4,501	479,414	107
2	FAMILY PRACTICE	2,104	135,390	64	1,560	99,936	64
3	FAMILY PRACTICE	2,076	134,509	65	1,856	119,529	64
4	FAMILY PRACTICE	2,038	154,554	76	982	72,541	74
5	INTERNAL MEDICINE	1,966	141,933	72	2,244	115,153	51
6	NOT FOUND	1,876	76,764	41	1,441	46,070	32
7	GENERAL PRACTICE	1,822	49,432	27	2,609	79,860	31
8	INTERNAL MEDICINE	1,816	133,876	74	2,108	155,594	74
9	PODIATRY	1,790	58,125	32	1,905	62,534	33
10	FAMILY PRACTICE	1,456	91,882	63	1,152	75,902	66
11	PSYCHIATRY	1,445	131,950	91	1,199	107,734	90
12	FAMILY PRACTICE	1,416	97,840	69	485	30,221	62
13	INTERNAL MEDICINE	1,398	112,261	80	1,210	98,613	82
14	FAMILY PRACTICE	1,328	113,564	86	2,051	205,516	100
15	FAMILY PRACTICE	1,300	131,703	101	266	28,642	108
16	ANESTHESIOLOGY	1,188	94,506	80	951	72,670	76
17	FAMILY PRACTICE	1,132	110,430	98	738	70,291	95
18	NEUROLOGY	1,122	103,760	92	941	87,032	93
19	NOT FOUND	1,066	67,314	63	965	67,175	70
20	INTERNAL MEDICINE	938	57,731	62	1,024	73,997	72
21	GENERAL PRACTICE	904	89,657	99	997	96,510	97
22	INTERNAL MEDICINE	885	58,508	66	791	57,677	73
23	NURSE PRACTITIONER	827	40,575	49	317	20,637	65
24	FAMILY PRACTICE	810	61,919	76	995	66,668	67
25	OB-GYN	806	47,158	59	295	18,623	63
26	ORTHOPEDIC SURGERY	764	82,104	107	881	98,327	112
27	FAMILY PRACTICE	734	50,134	68	658	43,542	66
28	INTERNAL MEDICINE	708	59,774	84	174	18,112	104
29	INTERNAL MEDICINE	703	50,009		645	47,445	74
30	FAMILY PRACTICE	679	50,508	74	637	50,293	79
31	GENERAL PRACTICE	668	45,155	68	608	48,976	81
32	GENERAL PRACTICE	651	37,414	57	794	44,344	56
33	INTERNAL MEDICINE	648	34,478	53	109	6,593	61

34	REFERENCE LABORATORY	593	31,243	53	542	30,075	56
35	FAMILY PRACTICE	587	45,900	78	411	32,516	79
36	FAMILY PRACTICE	581	38,830	67	822	32,033	39
37	ANESTHESIOLOGY	568	52,709	93	186	17,126	92
38	FAMILY PRACTICE	561	45,698	81	259	21,697	84
39	NOT FOUND	557	13,654	25	536	12,356	23
40	FAMILY PRACTICE	553	51,939	94	227	21,195	93
41	GENERAL PRACTICE	548	57,946	106	462	46,727	101
42	GENERAL PRACTICE	548	42,058	77	465	35,481	76
43	FAMILY PRACTICE	546	49,114	90	562	53,197	95
44	GENERAL PRACTICE	540	52,841	98	587	54,835	93
45	NOT FOUND	529	55,972	106	715	66,517	93
46	NEUROLOGICAL SURGERY	505	41,849	83	596	38,249	64
47	FAMILY PRACTICE	503	29,415	58	1,081	59,580	55
48	NOT FOUND	497	11,106	22	595	13,574	23
49	FAMILY PRACTICE	485	42,019	87	461	40,034	87
50	FAMILY PRACTICE	472	41,004	87	158	11,780	74
51	GENERAL PRACTICE	464	15,628	34	323	10,033	31
52	FAMILY PRACTICE	449	35,417	79	266	25,053	94
53	INTERNAL MEDICINE	442	36,692	83	6	478	85
54	OB-GYN	437	11,935	27	305	8,133	27
55	NOT FOUND	427	34,156	80	437	34,572	79
56	PHYSICAL MEDICINE & REHABILITATION	426	35,316	83	269	23,745	88
57	INTERNAL MEDICINE	418	25,746	62	358	21,622	60
58	PEDIATRICS	418	35,382	85	376	27,677	74
59	GENERAL PRACTICE	415	11,082	27	110	3,478	32
60	ANESTHESIOLOGY	414	25,911	63	369	21,526	58
61	FAMILY PRACTICE	414	34,555	83	377	30,348	81
62	INTERNAL MEDICINE	412	37,478	91	711	65,994	93
63	DENTIST	406	7,152	18	454	8,016	18
64	INTERNAL MEDICINE	403	46,381	115	897	87,249	97
65	FAMILY PRACTICE	403	34,718	86	356	29,595	83
66	GENERAL PRACTICE	400	38,667	97	302	30,760	102
67	ORTHOPEDIC SURGERY	400	31,546	79	471	38,076	81
68	GENERAL PRACTICE	395	43,142	109	306	32,242	105
69	GENERAL PRACTICE	394	23,570	60	90	6,789	75
70	GENERAL PRACTICE	391	40,191	103	320	33,640	105
71	FAMILY PRACTICE	386	33,859	88	350	32,999	94
72	ANESTHESIOLOGY	384	38,470	100	73	6,606	90
73	FAMILY PRACTICE	380	36,289	95	358	35,255	98
74	INTERNAL MEDICINE	378	35,803	95	275	24,980	91

75	FAMILY PRACTICE	378	32,817	87	225	18,075	80
76	REFERENCE LABORATORY	373	12,531	34	367	9,537	26
77	NEUROLOGY	370	30,953	84	266	22,028	83
78	DENTIST	368	5,117	14	241	3,431	14
79	FAMILY PRACTICE	361	28,309	78	269	22,057	82
80	NOT FOUND	353	18,314	52	320	21,753	68
81	INTERNAL MEDICINE	352	24,202	69	205	14,296	70
82	GENERAL PRACTICE	351	32,718	93	294	29,006	99
83	INTERNAL MEDICINE	350	24,490	70	484	26,976	56
84	FAMILY PRACTICE	343	29,732	87	332	30,113	91
85	FAMILY PRACTICE	336	35,643	106	298	30,649	103
86	INTERNAL MEDICINE	331	28,546	86	385	32,546	85
87	FAMILY PRACTICE	330	30,625	93	472	43,451	92
88	FAMILY PRACTICE	328	27,949	85	255	23,653	93
89	NEUROLOGICAL SURGERY	327	8,910	27	366	16,060	44
90	GENERAL SURGERY	326	14,744	45	446	19,690	44
91	ANESTHESIOLOGY	325	21,579	66	298	20,062	67
92	NOT FOUND	324	22,850	71	348	17,616	51
93	FAMILY PRACTICE	321	26,874	84	286	23,128	81
94	FAMILY PRACTICE	318	21,159	67	4	450	120
95	INTERNAL MEDICINE	316	26,723	85	245	21,122	86
96	PHYSICAL MEDICINE & REHABILITATION	316	30,310	96	242	22,317	92
97	ANESTHESIOLOGY	309	17,622	57	305	15,633	51
98	FAMILY PRACTICE	308	19,804	64	206	14,218	69
99	PHYSICAL MEDICINE & REHABILITATION	307	15,641	51	165	9,172	56
100	NOT FOUND	307	6,877	22	294	6,931	24
101	FAMILY PRACTICE	305	28,943	95	334	32,295	97
102	FAMILY PRACTICE	299	21,347	71	263	20,767	79
103	INTERNAL MEDICINE	297	26,084	88	4	253	68
104	FAMILY PRACTICE	296	18,557	63	293	17,786	61
105	INTERNAL MEDICINE	295	21,994	75	242	18,214	75
106	FAMILY PRACTICE	293	17,919	61	278	16,804	60
107	INTERNAL MEDICINE	293	23,906	82	301	25,062	83
108	FAMILY PRACTICE	291	26,536	91	283	26,352	93
109	ANESTHESIOLOGY	290	29,609	102	4,402	502,137	114
110	DENTIST	289	6,341	22	224	4,685	21
111	FAMILY PRACTICE	287	28,853	101	251	25,653	102
112	FAMILY PRACTICE	286	16,927	59	335	19,268	57
113	DENTIST	284	5,143	18	194	3,444	18
114	PHYSICAL MEDICINE & REHABILITATION	282	16,645		256	16,847	66

115	GENERAL PRACTICE	281	20,692	74	318	27,222	86
116	FAMILY PRACTICE	280	23,057	82	244	16,859	69
117	FAMILY PRACTICE	278	17,408	63	230	17,104	75
118	DENTIST	278	3,698	13	110	1,463	13
119	PODIATRY	275	22,059	80	291	24,339	84
120	INTERNAL MEDICINE	274	12,839	47	279	11,458	41
121	FAMILY PRACTICE	274	25,347	93	69	7,333	106
122	GENERAL PRACTICE	273	17,152	63	287	19,023	66
123	FAMILY PRACTICE	272	10,427	38	211	8,363	40
124	GENERAL PRACTICE	271	17,955	66	222	15,653	70
125	NOT FOUND	268	24,070	90	331	4,003	12
126	FAMILY PRACTICE	268	14,782	55	210	13,883	66
127	INTERNAL MEDICINE	265	27,020		179	18,871	105
128	FAMILY PRACTICE	265	16,501	62	182	12,437	68
129	INTERNAL MEDICINE	265	28,732	108	22	1,443	67
130	INTERNAL MEDICINE	264	8,432	32	232	9,033	39
131	NOT FOUND	261	7,618	29	248	6,887	28
132	FAMILY PRACTICE	257	22,077	86	283	23,491	83
133	FAMILY PRACTICE	257	29,170	114	316	37,068	117
134	ANESTHESIOLOGY	256	29,980	117	74	8,292	112
135	DERMATOLOGY	255	14,659	57	216	12,570	58
136	FAMILY PRACTICE	251	19,714	79	174	14,546	83
137	NOT FOUND	249	23,052	93	171	16,369	95
138	FAMILY PRACTICE	249	21,340	86	287	25,535	89
139	NOT FOUND	245	18,269	75	249	18,937	76
140	FAMILY PRACTICE	245	15,840	65	141	8,646	62
141	INTERNAL MEDICINE	245	26,691	109	219	24,380	111
142	FAMILY PRACTICE	244	9,980	41	259	10,034	39
143	PSYCHIATRY	244	9,517	39	1,130	17,125	15
144	FAMILY PRACTICE	243	24,385	100	225	21,653	96
145	INTERNAL MEDICINE	243	16,616	68	219	16,343	75
146	FAMILY PRACTICE	239	18,810	79	203	16,221	80
147	ORTHOPEDIC SURGERY	239	12,721	53	293	17,948	61
148	FAMILY PRACTICE	239	20,640	86	193	18,478	96
149	INTERNAL MEDICINE	237	16,806	71	201	15,549	77
150	GENERAL PRACTICE	234	15,022	64	201	12,925	64
151	GENERAL PRACTICE	234	9,600	41	181	7,987	44
152	INTERNAL MEDICINE	230	16,918	74	211	19,883	94
153	INTERNAL MEDICINE	230	12,626	55	215	12,087	56
154	FAMILY PRACTICE	228	22,427	98	238	22,529	95
155	FAMILY PRACTICE	225	23,181	103	208	22,189	107

156	REFERENCE LABORATORY	225	23,045	102	1	9	10
157	NOT FOUND	224	26,759	119	216	26,180	121
158	INTERNAL MEDICINE	223	20,420	92	168	13,946	83
159	INTERNAL MEDICINE	222	22,061	99	1,267	19,186	15
160	GENERAL PRACTICE	222	16,040	72	8	642	76
161	INTERNAL MEDICINE	220	18,390	84	19	1,715	92
162	INTERNAL MEDICINE	219	11,300	52	276	15,039	54
163	FAMILY PRACTICE	219	11,579	53	238	8,523	36
164	FAMILY PRACTICE	218	14,395	66	205	13,887	68
165	NOT FOUND	217	20,765	96	156	15,095	97
166	FAMILY PRACTICE	217	23,465	108	217	22,937	106
167	INTERNAL MEDICINE	217	15,954	74	199	15,930	80
168	INTERNAL MEDICINE	215	17,300	80	185	14,942	81
169	GENERAL PRACTICE	214	18,378	86	202	17,552	87
170	DENTIST	213	2,128	10	228	2,286	10
171	FAMILY PRACTICE	212	16,566	78	239	14,765	62
172	FAMILY PRACTICE	211	12,401	59	143	8,642	60
173	NOT FOUND	210	17,250	82	126	12,780	102
174	FAMILY PRACTICE	209	19,981	96	199	18,965	95
175	OB-GYN	209	5,721	27	172	4,801	28
176	PSYCHIATRY	207	21,109	102	192	18,714	97
177	GENERAL PRACTICE	206	17,540	85	235	19,592	83
178	GENERAL PRACTICE	206	14,490	70	1,286	26,523	21
179	FAMILY PRACTICE	205	12,667	62	1	56	60
180	GENERAL PRACTICE	203	17,665	87	152	12,415	82
181	INTERNAL MEDICINE	203	15,935	78	200	14,887	75
182	GENERAL PRACTICE	201	14,396	72	288	16,309	57
183	FAMILY PRACTICE	201	16,332	81	6	94	17
184	GENERAL SURGERY	201	15,063		165	11,589	70
185	FAMILY PRACTICE	200	14,538	73	78	6,303	81
186	ORTHOPEDIC SURGERY	200	6,483	32	95	3,830	40
187	INTERNAL MEDICINE	198	14,041	71	211	13,966	66
188	DENTIST	198	2,783	14	193	2,996	16
189	FAMILY PRACTICE	198	19,959	101	134	14,747	110
190	FAMILY PRACTICE	198	12,587	64	237	23,129	98
191	UROLOGY	197	6,088	31	134	4,348	32
192	INTERNAL MEDICINE	197	19,452	99	207	20,974	101
193	FAMILY PRACTICE	195	11,668	60	166	10,599	64
194	FAMILY PRACTICE	194	7,758	40	309	12,317	40
195	PSYCHIATRY	193	15,427	80	141	11,999	85
196	FAMILY PRACTICE	192	16,632	87	268	23,381	87

197	FAMILY PRACTICE	191	10,080	53	213	11,608	55
198	INTERNAL MEDICINE	191	10,148	53	138	3,919	28
199	FAMILY PRACTICE	191	16,348	86	192	16,479	86
200	FAMILY PRACTICE	190	9,089	48	155	8,190	53
		95,871	7,023,880	73	89,823	6,428,491	14,216
		479	35,119	72	449	32,142	71

Top 200 Opioid Prescribers Outcomes Assessment

Prepared for West Virginia Medicaid in July, 2012

EXECUTIVE SUMMARY

Purpose of Intervention	The primary purpose of this intervention is to increase prescriber awareness of their patients on opiate regimens and to encourage review of the identified therapy. Review of therapy may result in discontinuation of drug therapy that is no longer necessary.
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Intervention	Intervention Type	Physician-based mailing
	Intervention Mailing Date	September 26, 2011
	Pre-intervention Period (Baseline)	April 2011 – September 2011
	Post-intervention Period (Post)	November 2011 – April 2012
	Number of Letters Mailed	200
	Number of Targeted Physicians	200
	Number of Targeted Patients	NA
	Adjusted Targeted Patients	NA

Savings Calculation

Savings Calculation Intervention Related Drugs:	
Target Group: Actual Average Paid Amount Per Doctor Per Month (Baseline)	\$3,135.46
Target Group: Actual Average Paid Amount Per Doctor Per Month (Post)	\$3,217.10
% Change in Target Group from Baseline to Post	2.61%
Control Group: Actual Average Paid Amount Per Month (Baseline)	\$1,491.82
Control Group: Actual Average Paid Amount Per Month (Post)	\$1,438.00
% Change in Control Group from Baseline to Post	-3.61%
Estimated Paid Amount Per Doctor Per Month if No Intervention	\$3,022.33
Estimated Savings per Doctor Per Month	(\$194.86)
Total Number of Target Doctors	200
6-Month Total Savings	\$233,928.97

BACKGROUND

The State of West Virginia, through the West Virginia Board of Pharmacy, operates a prescription drug monitoring program, designated as the West Virginia Controlled Substance Monitoring Program. (CSMP). The CSMP was implemented in December 2002 and the law requires that all pharmacies and other dispensers of controlled substances electronically report their dispensing data to the database on a weekly basis. The data stored in the database includes the name, address, and birth date of the person for whom the prescription is written, the National Drug Code (NDC) of the Schedule II, III and IV controlled substance, the dosage, quantity dispensed, and date filled. Future modifications to the database plan to provide for the number of refills authorized as well, as required by statute. The names and DEA numbers of the prescriber and pharmacy are also stored in the database. The Board of Pharmacy is required to store this information for at least five years.

The data in the CSMP is an effective tool to prevent and detect prescription drug diversion. In 2010, the legislature passed a bill that requires all prescribers and dispensers to have access to the WV Board of Pharmacy CSMP. This requirement takes effect on July 1, 2011. Prescribers and dispensers are encouraged to access the database before prescribing or dispensing controlled substances to their patients.

Governor Earl Ray Tomblin recently announced that the WV Board of Pharmacy's Controlled Substance Monitoring Program has entered into an agreement with the National Association of Boards of Pharmacy to participate in the NABP Prescription Monitoring Program Interconnect (PMPi) which is currently under development. The NABP PMPi will facilitate the secure transfer of PMP data across state lines, and on a national scale, enhance the ability of West Virginia and other participating states to fight prescription drug abuse. Implementation of the NABP Interconnect pilot project is scheduled for July 31, 2011, with full roll-out in the fall.

It is the goal of NABP to have all fifty states enrolled in the PMP. Seven states have currently agreed to participate and two of them are the border states of Virginia and Ohio. This collaboration provides an even more effective tool to prevent doctor shopping, pharmacy hopping and controlled substance diversion.

To find more information about the WV CSMP or to enroll, contact the West Virginia Board of Pharmacy at 304-558-0558 or access their website at <http://www.wvbop.com>.

METHODOLOGY

Ranking of physicians for intervention-related pharmacy dollars paid, pharmacy prescriptions written were examined. This intervention identified providers whose were in the top 200 ranking for writing opiate prescriptions. To assess the impact of the intervention, pharmacy drug claims were reviewed from April 2011 through April 2012. The control group consisted of physicians ranked 201 to 400 in writing opiate prescriptions.

BUSINESS ANALYSIS

The overall savings for the intervention are calculated in Tables 2 and 3. Total paid per month for intervention related drugs were separately calculated for both the target and control groups for the six-month baseline and six-month post-intervention periods. The percent difference between the baseline and post-period paid amount was then calculated for the control group. This percentage was then multiplied by the baseline amount paid for the targeted group in order to estimate the amount paid in the post-intervention period for the targeted group had there been no intervention. The actual amount paid for the targeted group was then subtracted to obtain the estimated monthly savings. Finally, the monthly savings was multiplied by the number of intervention months.

Table 2 shows the amount paid for intervention related drugs increased \$194.86 per doctor per month for the 200 targeted physicians in the post-intervention period. This yielded an overall increase of \$233,829.97 in intervention-related drug expenditures during the six-month post-intervention period.

As seen in Table 3, as a result of the intervention, the estimated number of scripts decreased by 3.03 per doctor per month. This yields an overall decrease of 3,632 intervention related prescriptions written in the six-month post intervention period.

Table 1: Total Intervention Related Drug Savings

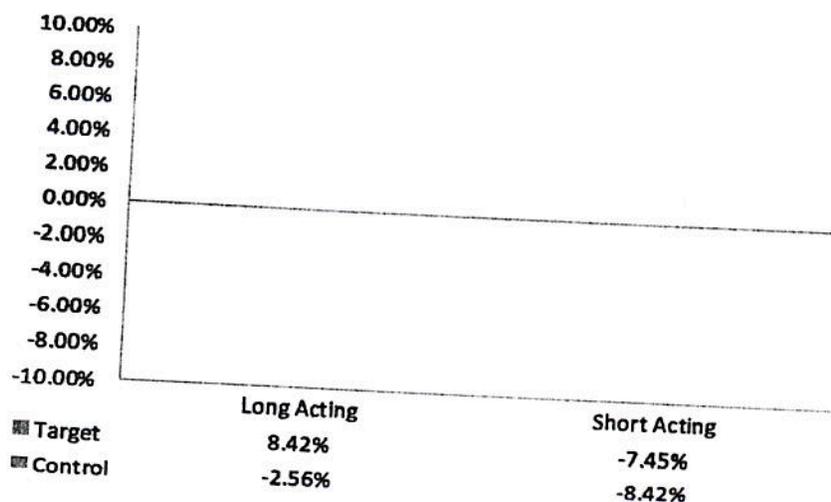
Savings Calculation Intervention Related Drugs:	
Target Group: Actual Average Paid Amount Per Doctor Per Month (Baseline)	\$3,136.46
Target Group: Actual Average Paid Amount Per Doctor Per Month (Post)	\$3,217.19
% Change in Target Group from Baseline to Post	2.61%
Control Group: Actual Average Paid Amount Per Month (Baseline)	\$1,491.62
Control Group: Actual Average Paid Amount Per Month (Post)	\$1,438.00
% Change in Control Group from Baseline to Post	-3.61%
Estimated Paid Amount Per Doctor Per Month if No Intervention	\$3,022.33
Estimated Savings per Doctor Per Month	(\$194.86)
Total Number of Target Doctors	200
6-Month Total Savings	\$233,829.97

Table 2: Volume of Intervention Related Prescriptions Written

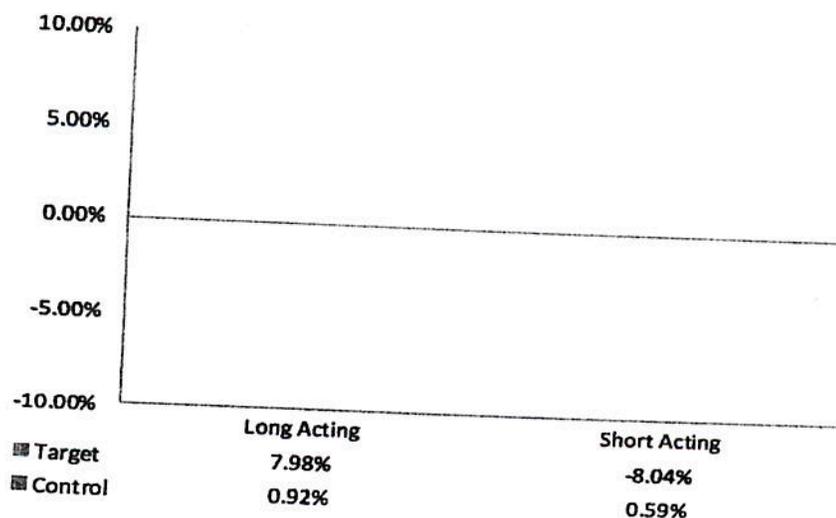
Savings Calculation Intervention Related Drugs:	
Target Group: Actual Average Volume of Scripts Written Per Doctor Per Month (Baseline)	79.89
Target Group: Actual Average Volume of Scripts Written Per Doctor Per Month (Post)	74.86
% Change in Target Group from Baseline to Post	-6.31%
Control Group: Actual Average Volume of Scripts Written Per Doctor Per Month (Baseline)	25.84
Control Group: Actual Average Volume of Scripts Written Per Doctor Per Month (Post)	25.19
% Change in Control Group from Baseline to Post	-2.52%
Estimated Scripts Written Per Doctor Per Month if No Intervention	77.88
Estimated Decrease per Doctor Per Month	3.03
Total Number of Target Doctors	200
6-Month Total Decrease in Scripts Written	3,632.36

We further analyzed what trend was driving the increase in costs seen in the targeted group. Graph 1 illustrates the percent change in the total paid of opiates for the targeted and control groups before and after the intervention. The total paid for long acting agents increased 8.42% in the targeted group and decreased 2.56% in the control group. The total paid for short acting opiates decreased by 7.45% and 8.42% in the targeted and control groups, respectively. Graph 2 illustrates trends in the total number of opiate prescription. The total number of long acting prescriptions increased by 7.98% and 0.92% in the targeted and control physicians, respectively. Additionally, prescribing of short acting agents decreased 8.04% in the targeted group and increased 0.59% in the control group

Graph 1: Total Paid Trend split by Long-Acting versus Short-Acting Opiates



Graph 2: Total Prescriptions Written Trend -- split by Long-Acting versus Short Acting Opiates



LIMITATIONS

The time frame of 6 months may not capture the full extent of the impact of the intervention. Providers may be required some time before they can change their patient's drug regimens.

CONCLUSIONS

This intervention focused on improving prescribing practices and reducing the cost of pharmaceutical care. Overall, the intervention was successful in reducing cost and the number of opiate prescriptions in the target physician population.

In terms of financial outcomes, the monthly amount paid for intervention related drugs increased \$194.86 per month in the post-intervention period. This yielded an overall increase of \$233,829.97 in intervention-related drug expenditures during the six-month post-intervention period. As a result of the intervention, the estimated number of intervention related prescriptions decreased by 3.03 per doctor per month for a total decrease of 3,632 intervention-related prescriptions. These trends may be due to physicians reviewing their patient's opiate use and prescribing long acting agents for uncontrolled pain.