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The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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#### Overview for Request opi ahr wp002 nsdp v01

Request ID: opi\_ahr\_wp002\_nsdp\_v01

**Report Description:** This report provides the number and proportion of "opioid-tolerant-only" episodes of transdermal fentanyl that were prescribed to patients with evidence of prior-established "opioid tolerance" by dose of transdermal fentanyl. This analysis only assesses the first eligible transdermal fentanyl episode per user, by dose.

Sentinel Modular Program Tool Used: Ad Hoc Programming

<u>Data Source:</u> Data from January 1, 2009 to December 31, 2013 from 15 Data Partners contributing to the Mini-Sentinel Distributed Database (MSDD) were included in this report. This is the period during which new opioid-tolerant-only dose product treatment episodes started. The request was distributed to two Data Partners in March 2016 and to the remaining 13 participating Data Partners in April 2016. Please see Appendix A for the latest date of available data for each Data Partner.

<u>Study Design:</u> The first eligible transdermal fentanyl episode per user, by dose, was identified and assessed for evidence of prior opioid tolerance, by each of the four tolerance definitions. Two washout periods were used to define new use: [1] No use of transdermal fentanyl in 183 days prior (primary analysis) and [2] No use of transdermal fentanyl in 91 days prior (sensitivity analysis).

Cohort Eligibility Criteria: Individuals included in the cohort were required to be continuously enrolled in plans with both medical and drug coverage for at least 183 days (for primary analysis) or 91 days (sensitivity analysis) prior to their first eligible transdermal fentanyl episode, during which gaps in coverage of up to 45 days were allowed. Individuals ages 0 through 64 years were included in the analysis. Age groupings are as follows: 0-11, 12-17, 18-24, 25-34, 35-44, 45-54, and 55-64 years. Patients were excluded if they were diagnosed with opioid poisoning in the 183 days (or 91 days for sensitivity analysis) prior to their first eligible transdermal fentanyl episode or if they were hospitalized (inpatient stay) in the 30 days prior to cohort entry. Opioid poisoning was defined using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes. Please see Appendix C for a list of codes.

<u>Exposures of Interest</u>: The exposure of interest was new use of opioid-tolerant-only transdermal fentanyl. The exposure was defined using National Drug Codes (NDCs). Please see Appendix B for a list of drugs.

<u>Definition of opioid-tolerance-only doses:</u> All dose formulations are opioid-tolerant-only doses, but results are stratified by dose: 12, 25, 50, 75, and 100mcg/hr, as well as any outlier doses.

### **Definitions of opioid tolerance:**

Primary: ≥30 mg oxycodone equivalents per day for seven days consecutively in the seven days prior to new opioid-tolerant-only dose index date

Secondary: ≥30 mg oxycodone equivalents per day for seven days in the 30 days prior to new opioid-tolerant-only dose index date (seven days not required to be consecutive)

Tertiary: >0 mg (i.e., any dose of oxycodone equivalent) for seven days in the seven consecutive days prior to new opioid-tolerant-only dose index date

Quaternary: >0 mg (i.e., any dose of oxycodone equivalent) for seven days in the 30 days prior to new opioid-tolerant-only dose index date (seven days not required to be consecutive). All dose formulations are opioid-tolerant-only doses, but results are stratified by dose: 12, 25, 50, 75, and 100mcg/hr, as well as any outlier doses.

Limitations: Algorithms to define exposures and events are imperfect and, therefore, may be misclassified.

<u>Notes:</u> Please contact the Sentinel Operations Center Query Fulfillment Team (qf@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document.



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## Glossary of Terms for Analyses Using Cohort Identification and Descriptive Analysis (CIDA) Tool\*

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. This is equivalent to the "RxAmt" Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency department (E), Home (H), Inpatient (I), Outpatient (O). or Unknown or Missing (U). Along with the Principal Diagnosis Indicator. forms the Care Setting/PDX parameter. Cohort Definition (drug/exposure)- indicates how the cohort will be defined: (1) 01: Cohort includes only the first valid incident treatment episode during the query period; (2) 02: Cohort includes all valid incident treatment episodes during the query period; (3) 03: Cohort includes all valid incident treatment episodes during the query period until an event occurs.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the Event Deduplication - specifies how events are counted by the MP algorithm: (0) 0: Counts all occurrences of an HOI during an exposure episode; (1) 1: de-duplicates occurrences of the same HOI code and code type on the same day; (2) 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

**Exposure Extension Period** - number of days post treatment period in which the outcomes/events are counted for a treatment episode. **Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time."

**Lookback Period (pre-existing condition)** - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered.

**Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the **Query Period** - period in which the modular program looks for exposures and outcomes of interest.

**Treatment Episode Truncation Indicator** - indicates whether observation of the incident query code during follow-up requires truncation of valid treatment episodes. A value of Y indicates that the treatment episodes should be truncated at the first occurrence of an incident query code. A value of N indicates that the treatment episodes should not be truncated at the occurrence of the incident query code. **Users** - number of members with exposure during the query period. Member must have no evidence of exposure(s) of interest (defined by incidence criteria) in the prior washout period. A user may only be counted once in a query period.

**Washout Period (drug/exposure)\*\*** - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome)\*\* - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

<sup>\*</sup>all terms may not be used in this report

<sup>\*\*</sup>incident treatment episodes must be incident to both the exposure and the event



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		Dos	e 12 mcg/h	nr	Dos	se 24 mcg/	hr	Dos	e 25 mcg/l	hr	Dos	se 36 mcg/	hr	Dos	e 37 mcg/l	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	16,379	4,699	28.7%		1	33%	44,450	16,623	37.4%	1	0	0%	298	160	549
Age (years)	0 - 11 years	32	-	0.0%		-	0%	23	2		0	0	0%		-	09
	12 - 17 years	75	6	8.0%		-	0%	79	15		0	0	0%		-	09
	18 - 24 years	375	96	25.6%		-		827	314		0	0	0% 0%		3	389 679
	25 - 34 years 35 - 44 years	1,464 2,841	539 955	36.8% 33.6%		1	0% 50%	3,731 7,954	1,688 3,325		0	0	0%		16 33	52%
	45 - 54 years	5,214	1,532	29.4%				14,785	5,707		0				47	54%
	55 - 64 years	6,378	1,571	24.6%			0%	17,051	5,572		0	0			61	54%
Gender	Male	5,124	1,537	30.0%	1	1	100%	18,327	7,100	38.7%	0	0	0%	133	73	55%
	Female	11,255	3,162	28.1%		-	0%	26,123	9,523		1	0			87	53%
	Ambiguous	-	-	0.0%		-	0%	-	-	0.0%	0			-	-	0%
	Unknown	0	0	0	0		0%	-	0		0		0%		-	09
84	Jan 2009	220	66	30.0%			0%	953	316		0	0		4 8	3	75% 38%
Month and Year of Episode Start Date	Feb 2009 Mar 2009	206 267	51 72	24.8% 27.0%			0%	890 982	312 334		0	0			3	60%
_p.3000 0tal t Date	Apr 2009	220	52	23.6%			0%	969	334		1	0	0%		1	25%
	May 2009	248	61	24.6%			0%	875	330		0	0	0%	6	5	83%
	Jun 2009	258	65	25.2%	-	-	0%	909	312	34.3%	0	0	0%		4	80%
	Jul 2009	249	67	26.9%			0%	870	301	34.6%	0	0	0%		2	33%
	Aug 2009	268	71	26.5%	-		0%	881	289	32.8%	0	0	0%		1	50%
	Sep 2009	295	86	29.2%		-	0%	943	331		0	0	0%		3	75%
	Oct 2009	261	69	26.4%		-	0%	857	292		0	0	0%		1	100%
	Nov 2009	231	67	29.0%			0%	818	274		0	0			4	50%
	Dec 2009 Jan 2010	244 226	74 55	30.3% 24.3%			0%	900 827	337 271		0	0	0% 0%		3	43%
	Feb 2010	238	79	33.2%			0%	753	271		0	0			- 6	75%
	Mar 2010	268	76	28.4%			0%	791	294		0	0			3	38%
	Apr 2010	257	71	27.6%			0%	833	277		0	0			2	67%
	May 2010	227	73	32.2%			0%	738	299		0	0	0%	5	1	20%
	Jun 2010	246	68	27.6%			0%	746	281	37.7%	0	0	0%	4	1	25%
	Jul 2010	223	62	27.8%			0%	764	305	39.9%	0	0	0%	5	3	60%
	Aug 2010	260	73	28.1%			0%	810	281		0	0	0%		2	67%
	Sep 2010	301	91	30.2%	-	-	0%	833	323		0	0			2	100%
	Oct 2010	288	70	24.3%			0%	777	292		0	0	0%		3	60%
	Nov 2010 Dec 2010	290 291	87 87	30.0% 29.9%			0%	824 731	306 294		0	0	0% 0%		4	44% 33%
	Jan 2011	252	67	26.6%			0%	731	272		0	0		1	1	100%
	Feb 2011	264	61	23.1%			0%	639	235		0	0			2	67%
	Mar 2011	279	73	26.2%			0%	802	309		0	0			5	56%
	Apr 2011	269	80	29.7%			0%	710	281	39.6%	0	0	0%	10	9	90%
	May 2011	261	73	28.0%	-		0%	700	256	36.6%	0	0	0%	3	2	67%
	Jun 2011	276	76	27.5%	-	-	0%	678	272	40.1%	0	0		4	2	50%
	Jul 2011	282	81	28.7%			0%	679	249		0	0			2	67%
	Aug 2011	314	106	33.8%			0%	758	265		0	0	0%		2	50%
	Sep 2011 Oct 2011	291	85 79	29.2%			0%	730 711	280		0	0			3	43%
		263		30.0%					283		0			3	2	67%
	Nov 2011	288	96	33.3%			0%	659	275		-	0		-		25%
	Dec 2011	307	93	30.3%			0%	689	261		0				3	60%
	Jan 2012 Feb 2012	279 255	80 67	28.7% 26.3%			0%	720 638	278 222		0	0	0% 0%		2	100%
	Feb 2012 Mar 2012	255	83	28.2%			0%	683	252				0%	6	4	67%
	Apr 2012	254	83	33.1%			0%	650	249			0			2	67%
	May 2012	324	88	27.2%		-	0%	631	249			0	0%		5	63%
	Jun 2012	242	68	28.1%			0%	564	219		0	0	0%	3	2	67%
	Jul 2012	295	90	30.5%		-	0%	617	244	39.5%	0	0	0%	5	2	40%
	Aug 2012	304	111	36.5%			0%	787	306		0	0	0%		1	50%
	Sep 2012	279	75	26.9%		-	0%	645	239			0			4	80%
	Oct 2012	304	91	29.9%			0%	699	304			0			1	33%
	Nov 2012 Dec 2012	313 293	82 78	26.2% 26.6%		-	0%	712 631	241 251		0	0	0% 0%		3	50%
	Jan 2013	293	78 87	31.4%		-	0%	593	251			0			3	38% 75%
	Feb 2013	254	76	29.9%			0%	638	270		0	0	0%		2	67%
	Mar 2013	253	85	33.6%			0%	585	246			0	0%		3	75%
	Apr 2013	289	99	34.3%		-	0%	617	243			0			4	44%
	May 2013	261	80	30.7%	-	-	0%	640	261	40.8%	0	0	0%	8	4	50%
	Jun 2013	271	69	25.5%	1	-	0%	602	242	40.2%	0	0	0%	4	2	50%
	Jul 2013	331	95	28.7%		-		663	264						5	63%
	Aug 2013	341	97	28.4%		-	0,0	735	300		0				1	33%
	Sep 2013	302	78	25.8%		-	0%	645	252			0	0%		2	67%
	Oct 2013	331	99	29.9%		1		714	285						1	33%
	Nov 2013	310	89	28.7%	1		0%	651	255	39.2%	0	0	0%	5	1	20%



		1				e Deminion	1 (250 mg pc	r day in the p	101 7 001150	cutive days,				ı		
		Dos	e 50 mcg/	hr	Dos	e 62 mcg/	hr	Dos	se 75 mcg/	hr	Dose	e 87 mcg/	hr	Dos	e 100 mcg/	'hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	18,527	8,871	48%	22	6	27%	5,118	2,756	54%	8	2	25%	3,507	1,991	579
Age (years)	0 - 11 years	7	2	29%	1	-	0%	2	-	0%		-	0%		-	09
	12 - 17 years 18 - 24 years	32 380	9 161	28% 42%	1	-	0% 0%	11 99	3 52	27% 53%		-	0% 0%		2 38	259 499
	25 - 34 years	1,614	900	56%	2	-	0%	523	309	59%		1	100%		179	629
	35 - 44 years	3,502	1,846	53%	4	1	25%	1,011	553	55%	1	-	0%	686	403	599
	45 - 54 years	6,358	3,055	48%	11	3	27%	1,785	966	54%	4	1	25%	1,276	744	589
01	55 - 64 years	6,634	2,898	44%	3	2	67%	1,687	873	52%			0%		625	549
Gender	Male Female	8,727 9,800	4,377 4,494	50% 46%	11 11	5 1	45% 9%	2,510 2,608	1,428 1,328	57% 51%		1	25% 25%		1,111 880	60% 53%
	Ambiguous	-	-	0%	-	-	0%	-	-	0%		-	0%		-	09
	Unknown		-	0%			0%		-	0%		-	0%			09
	Jan 2009	412	185	45%	2	2	100%	145	61	42%	1	-	0%	94	42	459
Month and Year of	Feb 2009	414	199	48%	-	-	0%	118	65	55%		-	0%		55	569
Episode Start Date	Mar 2009	424	208	49%	-	-	0%	112	55	49%		-	0%		38	489
	Apr 2009 May 2009	423 368	215 166	51% 45%	-	-	0% 0%	108 101	62 50	57% 50%		-	0% 0%		50 42	579 509
	Jun 2009	409	176	43%	-		0%	111	53	48%		-	0%		42	659
	Jul 2009	376	170	45%	2	-	0%	89	41	46%		-	0%		48	569
	Aug 2009	348	165	47%	-	-	0%	97	53	55%	-	-	0%	72	41	57%
	Sep 2009	396	180	45%	-	-	0%	95	63	66%		-	0%		37	51%
	Oct 2009	433	190	44%			0%	100	52	52%		-	0%		50	56%
	Nov 2009 Dec 2009	366 379	172 170	47% 45%	1	1	100%	94 113	51 59	54% 52%		-	0% 0%		46 40	60% 54%
	Jan 2010	359	158	44%	-	-	0%	101	52	51%		-	0%	89	55	62%
	Feb 2010	325	143	44%	1	-	0%	84	39	46%		-	0%		31	52%
	Mar 2010	331	142	43%	-	-	0%	113	63	56%	-	-	0%	62	35	56%
	Apr 2010	307	134	44%	-	-	0%	100	57	57%		-	0%	67	45	67%
	May 2010	326	147	45%	-	-	0%	84	38	45%		-	0%		39	65%
	Jun 2010	340 342	167 180	49% 53%	-	-	0% 0%	77 92	40 45	52% 49%	-	-	0% 0%	49 55	38 37	78%
	Jul 2010 Aug 2010	325	158	49%	-	-	0%	98	50	51%	-	-	0%		44	67% 62%
	Sep 2010	343	165	48%	1	1	100%	93	57	61%		-	0%		41	59%
	Oct 2010	340	174	51%	-	-	0%	95	54	57%	-	-	0%	58	42	72%
	Nov 2010	326	163	50%	-	-	0%	93	56	60%		-	0%		37	59%
	Dec 2010	356	156	44%	-	-	0%	78	44	56%		-	0%		30	47%
	Jan 2011 Feb 2011	306 277	130 148	42% 53%	-	-	0% 0%	112 96	54 59	48% 61%		-	0% 0%	90 66	52 38	58% 58%
	Mar 2011	338	174	51%	1	-	0%	94	61	65%		-	0%		43	54%
	Apr 2011	322	147	46%	-	-	0%	86	44	51%	-	-	0%	52	24	46%
	May 2011	280	126	45%	-	-	0%	86	47	55%	-	-	0%	52	28	54%
	Jun 2011	286	123	43%	-	-	0%	75	45	60%	1	-	0%		23	56%
	Jul 2011	309	146	47%	-	-	0%	70	48	69%	-	-	0%	48	26	54%
	Aug 2011 Sep 2011	322 310	148 153	46% 49%	-	-	0% 0%	78 78	38 44	49% 56%	-	-	0% 0%		30 23	67% 55%
	Oct 2011	269	129	48%	2	-	0%	77	48	62%	-	-	0%		32	57%
	Nov 2011	274	140	51%	-	-	0%	77	43	56%	-	-	0%	47	26	55%
	Dec 2011	286	135	47%	-	-	0%	72	36	50%	-	-	0%	59	37	63%
	Jan 2012	273	132	48%	-	-	0%	88	48	55%	-	-	0%	53	27	51%
	Feb 2012	266	146	55%	1	-	0%	75	45	60%		-	0%		34	64%
	Mar 2012	282	141	50%	-	-	0%	76	43	57%		-	0%		28	58%
	Apr 2012 May 2012	277 287	143 149	52% 52%	1	-	0% 0%	86 71	40 40	47% 56%		-	0% 0%		26 36	54% 69%
	Jun 2012	287	111	52% 47%	1	-	0%	60	34	55%		-	0%		30	61%
	Jul 2012	307	156	51%	-	-	0%	87	43	49%		-	0%		17	46%
	Aug 2012	284	142	50%	1	-	0%	89	54	61%		-	0%		35	69%
	Sep 2012	254	131	52%	1	-	0%	77	49	64%		1	100%		20	53%
	Oct 2012	251	108	43%	-	-	0%	69	40	58%		-	0%		20	43%
	Nov 2012 Dec 2012	296 261	137 141	46% 54%	-	-	0% 0%	90 54	39 22	43% 41%		- 1	50% 0%		32 19	529 419
	Jan 2013	251	132	54% 52%	2	1	50%	87	39	41% 45%		-	0%		25	609
	Feb 2013	212	117	55%	2	-	0%	56	31	55%		-	0%		27	619
	Mar 2013	236	118	50%	-	-	0%	72	38	53%	-	-	0%	36	19	53%
	Apr 2013	226	108	48%	-	-	0%	68	33	49%		-	0%		23	62%
	May 2013	250	130	52%	1	1	100%	65	41	63%		-	0%	42	24	579
	Jun 2013 Jul 2013	244 239	116	48% 50%	-	-	0% 0%	69 78	36 45	52% 58%			0% 0%		17	509 479
	Jul 2013 Aug 2013	239 272	119 130	50% 48%	-		0%	78 61	45 26	43%		-	0%		20 14	479
	Sep 2013	245	119	49%	-		0%	66	38	58%		-	0%		22	509
	Oct 2013	242	130	54%	-	-	0%	67	41	61%		-	0%		32	689
	Nov 2013	241	115	48%	-	-	0%	58	33	57%	-	-	0%	47	24	519
	Dec 2013	247	118	48%	1	-	0%	57	31	54%	-	-	0%	42	26	62



		I		Pr	imary Tolerar	ice Definitio	n (≥30 mg p	er day in the pi	rior 7 conse	cutive days)						
		Dose	e 112 mcg/	'hr	Dos	e 125 mcg/	'hr	Dose	e 137 mcg,	/hr	Dose	150 mcg/	'hr	Dos	e 162 mcg	/hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	3	3	100%	137	68	50%	2	1	50%	172	103	60%	2		
Age (years)	0 - 11 years	-	-	0% 0%	- 1	-	0% 0%	-	-	0% 0%	0	0	0% 0%	0	C	
	12 - 17 years 18 - 24 years	-	-	0%	2	2	100%	-	-	0%	5	4	80%	1		
	25 - 34 years	-	-	0%	9	7	78%	-	-	0%	12	6	50%	0	c	
	35 - 44 years	-	-	0%	20	8	40%	-	-	0%	30	21	70%	0	C	
	45 - 54 years 55 - 64 years	1	1 2	100% 100%	57 48	29 22	51% 46%	1	- 1	0% 100%	60 64	36 36	60% 56%	0	1	
Gender	Male	1	1	100%	69	33	48%	- 1	- 1	0%	95	61	64%	2		
	Female	2	2	100%	68	35	51%	2	1	50%	77	42	55%	0		
	Ambiguous	-	-	0%	-	-	0%	-	-	0%	0	0	0%	0		
	Jan 2009	1	1	100%	4	2	50%			0%	6	2	33%	0		
Month and Year of	Feb 2009	-	-	0%	3	1	33%	-	-	0%	2	1	50%	0	0	
Episode Start Date	Mar 2009	-	-	0%	3	-	0%	-	-	0%	1	1	100%	0	C	
	Apr 2009	-	-	0%	2	1	50%	-	-	0%	1	1	100%	0	C	
	May 2009 Jun 2009	-	-	0% 0%	3	3 2	100% 100%	-	-	0% 0%	6 7	4	67% 86%	0	0	
	Jul 2009	-	-	0%	1	1	100%	-	-	0%	3	1	33%	0	(	
	Aug 2009	-	-	0%	1	-	0%	-	-	0%	4	0	0%	0	c	
	Sep 2009	-	-	0%	-	-	0%	-	-	0%	5	3	60%	0	C	
	Oct 2009	-	-	0%	1		0%	-	-	0%	4	2	50%	0	(	
	Nov 2009 Dec 2009	-	-	0% 0%	2	1	50% 50%	-	-	0% 0%	7	5 5	71% 71%	0	c	
	Jan 2010	-	-	0%	7	2	29%	-	-	0%	5	3	60%	0	c	
	Feb 2010	-	-	0%	6	1	17%	-	-	0%	5	3	60%	0	C	
	Mar 2010	-	-	0%	2	-	0%	-	-	0%	4	3	75%	0	C	
	Apr 2010 May 2010	-	-	0% 0%	4 2	1	25% 50%	-	-	0% 0%	4	3 2	75% 50%	0	c	
	Jun 2010	-	-	0%	5	2	40%	-	-	0%	2	1	50%	0	c	
	Jul 2010	-	-	0%	1	-	0%	-	-	0%	5	4	80%	0	C	0%
	Aug 2010	-	-	0%	2	1	50%	-	-	0%	2	0	0%	0	C	
	Sep 2010 Oct 2010	-	-	0% 0%	- 3	- 3	0% 100%	1	1	0% 100%	3	0	0% 100%	0	0	
	Nov 2010	-	-	0%	2	2	100%	-	-	0%	2	1	50%	0	c	
	Dec 2010	-	-	0%	1	1	100%	-	-	0%	4	2	50%	0	C	0%
	Jan 2011	-	-	0%	3	1	33%	-	-	0%	4	2	50%	1	0	
	Feb 2011 Mar 2011	1	1	100%	3	1	0% 50%	-	-	0% 0%	3	1	33% 50%	0	C	
	Apr 2011	-	-	0%	3	1	33%	-	-	0%	4	4	100%	0	c	
	May 2011	-	-	0%	5	1	20%	-	-	0%	2	1	50%	0	C	0%
	Jun 2011	-	-	0%	2	1	50%	-	-	0%	0	0	0%	0	0	
	Jul 2011 Aug 2011	-	-	0% 0%	2	1	0% 100%	-	-	0% 0%	4	1	100% 100%	0	C	
	Sep 2011	-	-	0%	4	2	50%	1	-	0%	3	3	100%	1	1	
	Oct 2011	-	-	0%	1	1	100%	-	-	0%	1	0	0%	0	C	0%
	Nov 2011	-	-	0%	-	-	0%	-	-	0%	1	1	100%	0	C	0%
	Dec 2011	-	-	0%	3	2	67%	-	-	0%	1	1	100%			
	Jan 2012 Feb 2012	-	-	0% 0%	2 2	1	50% 50%	-	-	0% 0%	2	2	100% 80%	0	C	
	Feb 2012 Mar 2012	-	-	0% 0%	2	1	50% 100%	-		0%	5 2	1	80% 50%	0		
	Apr 2012	1	1	100%	5	5	100%	-	-	0%	3	2	67%	0	C	
	May 2012	-	-	0%	4	-	0%	-	-	0%	0	0	0%	0	C	
	Jun 2012	-	-	0% 0%	-	- 1	100%	-	-	0% 0%	2	1 0	50%	0	C	
	Jul 2012 Aug 2012	-	-	0%	1	1	100% 75%	-	-	0%	1	1	0% 100%	0	(	
	Sep 2012	-	-	0%	1	1	100%	-	-	0%	2	1	50%	0		
	Oct 2012	-	-	0%	2	2	100%	-	-	0%	2	2		0	C	
	Nov 2012 Dec 2012	-	-	0% 0%	2	2	100%	-	-	0%	5	2	40%	0	C	
	Jan 2013	-	-	0%	2	1	33% 0%	-	-	0% 0%	4	0	0% 0%	0	(	
	Feb 2013	-	-	0%	3	1	33%	-	-	0%	0	0	0%	0	c	
	Mar 2013	-	-	0%	2	1	50%	-	-	0%	3	1	33%		C	
	Apr 2013	-	-	0%	-	-	100%	-	-	0%	3	2	67%	0	(	
	May 2013 Jun 2013	-	-	0% 0%	- 1	- 1	100% 0%	-	-	0% 0%	0	0	0% 33%		c	
	Jul 2013	-	-	0%	3	3	100%	-	-	0%	2	2	100%	0	C	
	Aug 2013	-	-	0%	2	2	100%	-	-	0%	3	1	33%	0	C	
	Sep 2013	-	-	0%	1	1	100%	-	-	0%	2	1	50%	0	0	
	Oct 2013 Nov 2013	-	-	0% 0%	4	1	25% 100%	-	-	0% 0%	1	1 2	100% 67%	0		
	Dec 2013	-	-	0%	1		100%	-	-	0%	2	1	50%	0		



	Pri	imary Tolerand	e Definition	(≥30 mg pe	day in the pri	or 7 consec	utive days)			
		Dose	e 175 mcg/	'hr	Dose	e 200 mcg/	'hr	Dos	e 225 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	33	16	48%	4	3	75%	2	0	0%
Age (years)	0 - 11 years	0	0	0%	0	0	0%	0	0	0%
	12 - 17 years	1	1	100%	0	0	0%	0	0	0%
	18 - 24 years 25 - 34 years	3	3	100% 0%	0	0	0% 0%	0	0	0% 0%
	25 - 34 years 35 - 44 years	4	3	75%	3	2		0	0	0%
	45 - 54 years	9	4	44%	1	1		0	0	0%
	55 - 64 years	15	5	33%	0	0	0%	1	0	0%
Gender	Male	11	9	82%	4	3		2	0	0%
	Female Ambiguous	22 0	7 0	32% 0%	0	0	0% 0%	0	0	0% 0%
	Unknown	0	0	0%	0	0	0%	0	0	0%
	Jan 2009	1	0	0%	0	0		0	0	0%
Month and Year of	Feb 2009	1	1	100%	0	0	0%	0	0	0%
Episode Start Date	Mar 2009	1	1	100%	0	0	0%	0	0	0%
	Apr 2009	3	3	100% 0%	1 0	1	100% 0%	0	0	0% 0%
	May 2009 Jun 2009	0	0	0%	0	0	0%	0	0	0%
	Jul 2009	2	0	0%	0	0	0%	1	0	0%
	Aug 2009	0	0	0%	0	0	0%	0	0	0%
	Sep 2009	1	1	100%	0	0	0%	0	0	0%
	Oct 2009	1	0	0%	0	0	0%	0	0	0%
	Nov 2009 Dec 2009	0	0	0% 0%	0	0	0% 0%	0	0	0% 0%
	Jan 2010	0	0	0%	0	0	0%	0	0	0%
	Feb 2010	0	0	0%	0	0	0%	0	0	0%
	Mar 2010	1	1	100%	1	1		0	0	0%
	Apr 2010	0	0	0%	0	0		0	0	0%
	May 2010 Jun 2010	0	0	0% 0%	0	0	0% 0%	0	0	0% 0%
	Jul 2010	0	0	0%	0	0		0	0	0%
	Aug 2010	1	1	100%	0	0	0%	0	0	0%
	Sep 2010	0	0	0%	0	0	0%	0	0	0%
	Oct 2010	1	1	100%	0	0	0%	0	0	0%
	Nov 2010 Dec 2010	0	0	0% 100%	0	0	0% 0%	0	0	0% 0%
	Jan 2011	0	0	0%	0	0		0	0	0%
	Feb 2011	2	1	50%	0	0	0%	0	0	0%
	Mar 2011	1	1	100%	0	0	0%	0	0	0%
	Apr 2011 May 2011	1	0	0% 0%	0	0	0% 0%	0	0	0% 0%
	Jun 2011	2	1	50%	0	0	0%	0	0	0%
	Jul 2011	0	0	0%	0	0		0	0	0%
	Aug 2011	1	0	0%	0	0	0%	0	0	0%
	Sep 2011	2	1	50%	0	0	0%	0	0	0%
	Oct 2011	2	0	0%	0	0	0%	0	0	0%
	Nov 2011	0	0	0%	0	0	0%	0	0	0%
	Dec 2011 Jan 2012	0	0	0%	0	0		0	0	0%
	Feb 2012	0	0	0%	0	0		0	0	0%
	Mar 2012	1	0	0%	0	0		0	0	0%
	Apr 2012	1	0	0%	0	0		0	0	0%
	May 2012	0	0	0%	0	0		0	0	0%
	Jun 2012 Jul 2012	0	0	0% 0%	0	0		0	0	0% 0%
	Aug 2012	0	0	0%	0	0		0	0	0%
	Sep 2012	0	0	0%	0	0		0	0	0%
	Oct 2012	0	0	0%	0	0		0	0	0%
	Nov 2012	0	0	0%	0	0		1	0	0%
	Dec 2012 Jan 2013	0	0	0% 0%	0	0		0	0	0%
	Jan 2013 Feb 2013	1	0	0%	0	0		0	0	0%
	Mar 2013	0	0	0%	0	0		0	0	0%
	Apr 2013	0	0	0%	0	0		0	0	0%
	May 2013	0	0	0%	0	0		0	0	0%
	Jun 2013	1	0	0%	2	1		0	0	0%
	Jul 2013 Aug 2013	0	0	0% 0%	0	0		0	0	0% 0%
	Sep 2013	1	1	100%	0	0		0	0	0%
	Oct 2013	0	0	0%	0	0		0	0	0%
	Nov 2013	0	0	0%	0	0		0	0	0%
	Dec 2013	1	1	100%	0	0	0%	0	0	0%



		I			Secondary I	olerance Denni	tion (230 mg per	uay for seven ua	ays in the 30 days	s prior)	1					
			Dose 12 mcg/h	r	1	Dose 24 mcg/h	r	ι	Dose 25 mcg/hi	r	D	ose 36 mcg/	hr	Dos	se 37 mcg/l	ır
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	16,379	7,855	48.0%	Episodes 3	2	67%	44,450	26,009	58.5%	•	0	0%		210	70%
Age (years)	0 - 11 years	32	1	3.1%	-	0		23		17.4%		0			0	
	12 - 17 years 18 - 24 years	75 375	16 151	21.3% 40.3%		0	0% 0%	79 827		29.1% 53.2%		0			0 5	
	25 - 34 years	1,464	822	56.1%		0				66.7%		0			20	
	35 - 44 years 45 - 54 years	2,841 5,214	1,500 2,529	52.8% 48.5%	2	1 0		7,954 14,785		62.7% 59.3%		0			43 64	
	55 - 64 years	6,378	2,836	44.5%	1	1	100%	17,051	9,301	54.5%		0			78	
Gender	Male	5,124	2,569	50.1%	1			18,327	11,006	60.1%					96	
	Female Ambiguous	11,255	5,286	47.0% 0.0%	2	1 0	50% 0%	26,123	15,003	57.4%		0			114 0	
	Unknown	0	0	0	0	0			0					0	0	
	Jan 2009	220	106	48.2%	-	0		953		56.6%					4	
Month and Year of Episode Start Date	Feb 2009 Mar 2009	206 267	95 121	46.1% 45.3%		0		890 982	519 547	58.3% 55.7%		0			4 5	
	Apr 2009	220	100	45.5%		0	0%	969	526	54.3%		0			2	
	May 2009	248	118	47.6%	-	0		875		58.3%					5	
	Jun 2009 Jul 2009	258 249	106 115	41.1% 46.2%		0	0%	909 870	521 485	57.3% 55.7%		0			4	
	Aug 2009	268	129	48.1%		0		881	472	53.6%		0			1	
	Sep 2009	295	141	47.8%	-	0	0%	943	545	57.8%		O			4	
	Oct 2009 Nov 2009	261 231	127 106	48.7% 45.9%		0	0%	857 818	494 441	57.6% 53.9%		0			1	
	Dec 2009	244	118	48.4%		0	0%	900		58.1%		0			4	
	Jan 2010	226	94	41.6%		0	0%	827	457	55.3%	0	0	0%	6	0	
	Feb 2010 Mar 2010	238 268	119 119	50.0%	-	0	0%	753 791	432 445	57.4%		0			6	
	Apr 2010	257	119	44.4% 50.2%		0	0%	833		56.3% 56.1%		0			6	
	May 2010	227	122	53.7%	-	0	0%	738		63.3%		O			1	
	Jun 2010	246	116	47.2%	-	0	0%	746		58.2%		0			1	
	Jul 2010 Aug 2010	223 260	101 119	45.3% 45.8%		0	0%	764 810	468 459	61.3% 56.7%		0			4	
	Sep 2010	301	153	50.8%		0	0%	833		60.7%		0			2	
	Oct 2010	288	122	42.4%	-	0	0%	777	452	58.2%		0			5	
	Nov 2010 Dec 2010	290 291	147 143	50.7% 49.1%		0	0%	824 731	497 436	60.3% 59.6%		0			7	
	Jan 2011	252	116	46.0%		0	0%	724		58.6%		0			1	
	Feb 2011	264	114	43.2%	-	0		639		58.8%		0			3	
	Mar 2011 Apr 2011	279 269	122 134	43.7% 49.8%	-	0	0%	802 710		60.5% 59.4%		0			6 9	
	May 2011	261	118	45.2%		0	0%	700		55.4%		0			3	
	Jun 2011	276	137	49.6%		0	0%	678	398	58.7%		0			2	
	Jul 2011 Aug 2011	282 314	134 166	47.5% 52.9%		0	0%	679 758		57.7% 54.2%		0			2	
	Sep 2011	291	140	48.1%		0	0%	730		61.1%		0			5	
	Oct 2011	263	135	51.3%		0	0%	711	432	60.8%	0	0	0%	3	2	67%
	Nov 2011	288	142	49.3%	-	0		659		61.9%		0			4	
	Dec 2011	307	152	49.5%		0				58.1%		0			4	
	Jan 2012 Feb 2012	279 255	125 124	44.8% 48.6%		0	0%			59.2% 55.8%		0			2	
	Mar 2012	294	138	46.9%		0				59.9%		0		6	5	83%
	Apr 2012	251	125	49.8%		0		650		58.6%		0			2	
	May 2012 Jun 2012	324 242	142 114	43.8% 47.1%		0	0%	631 564		60.9% 59.8%		0			6	
	Jul 2012	295	159	53.9%		0	0%	617		58.5%		0			4	
	Aug 2012	304	161	53.0%	-	0		787	474	60.2%		0			2	
	Sep 2012 Oct 2012	279 304	138 147	49.5% 48.4%		0	0%	645 699		60.3% 62.7%		0			5 1	
	Nov 2012	313	152	48.6%		0				55.9%		0			3	
	Dec 2012	293	143	48.8%	-	0		631		59.1%		O			5	63%
	Jan 2013 Feb 2013	277 254	133 126	48.0% 49.6%		0	0%	593 638		59.7% 61.6%		0			3	
	Mar 2013	254	129	51.0%		0	0%	585		61.2%		0			4	
	Apr 2013	289	159	55.0%		0		617	375	60.8%		0			6	
	May 2013	261	119	45.6%	-	0				60.8%		0			5	
	Jun 2013 Jul 2013	271 331	121 164	44.6% 49.5%	1	0	0% 0%	602 663		62.3% 61.4%		0			3 7	
	Aug 2013	341	157	46.0%						59.7%		0			2	
	Sep 2013	302	142	47.0%		0	0%	645		58.1%		0			2	
	Oct 2013 Nov 2013	331 310	165 148	49.8% 47.7%	1		100% 100%	714 651	437 391	61.2% 60.1%		0			2	
	Dec 2013	298	148	47.7%	0										4	



		Do	se 50 mcg/l	nr	Dos	e 62 mcg/h	ır	Do	se 75 mcg/h	ır	Dr	se 87 mcg/	hr	Do	se 100 mcg/	hr
		Total N of	ı	I	Total N of			Total N of			Total N of	1		Total N of		
		Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance												
	Total	18,527	12,461	67%	22	7		5,118	3,578	70%	8			3,507	2,447	70
Age (years)	0 - 11 years 12 - 17 years	7 32	2 15	29% 47%	1 0	0		2 11	- 3	0% 27%	0		0% 0%	4 8	- 3	38
	18 - 24 years	380	228	60%	1	0		99	63	64%	0			77	45	58
	25 - 34 years	1,614	1,187	74%	2	0	0%	523	384	73%	1	1	100%	290	223	77
	35 - 44 years	3,502	2,528	72%	4	1		1,011	719	71%	1			686	493	72
	45 - 54 years 55 - 64 years	6,358 6,634	4,270 4,231	67% 64%	11 3	4	36% 67%	1,785 1,687	1,265 1,144	71% 68%	4		75% 50%	1,276 1,166	908 775	71 66
Gender	Male	8,727	6,009	69%	11	6		2,510	1,812	72%	4	3		1,839	1,331	72
	Female	9,800	6,452	66%	11	1		2,608	1,766	68%	4			1,668	1,116	67
	Ambiguous Unknown	-	-	0% 0%	0	0	0%	-	-	0%	0			-	-	0
	Jan 2009	412	272	66%	2	2		145	85	59%	1			94	58	62
Month and Year of		414	299	72%	0	0		118	84	71%	0			98	70	71
Episode Start Date		424	291	69%	0	0		112	69	62%	0		0%	79	46	58
	Apr 2009	423	288	68%	0	0		108	82	76%	0			88	62	70 67
	May 2009 Jun 2009	368 409	226 259	61% 63%	0	0		101 111	67 76	66% 68%	0	0	0%	84 75	56 56	75
	Jul 2009	376	245	65%	2	0		89	59	66%	0			86	58	67
	Aug 2009	348	233	67%	0	0		97	70	72%	0			72	50	69
	Sep 2009	396 433	263 266	66%	0	0		95 100	74 72	78% 72%	2		50% 0%	72 90	47 61	65
	Oct 2009 Nov 2009	433 366	266	61% 65%	1	1		100 94	72	72% 74%	0		0%	90 77	61 52	68 68
	Dec 2009	379	247	65%	0	0		113	80	71%	0	0	0%	74	50	68
	Jan 2010	359	228	64%	0	0	0%	101	65	64%	0	0	0%	89	65	73
	Feb 2010	325	206	63%	1	0		84	52	62%	1	1	100%	60	39	65
	Mar 2010 Apr 2010	331 307	215 201	65% 65%	0	0		113 100	77 77	68% 77%	0		0% 0%	62 67	40 50	65 75
	May 2010	326	212	65%	0	0		84	52	62%	0		0%	60	45	75
	Jun 2010	340	229	67%	0	0	0%	77	56	73%	0	0	0%	49	40	82
	Jul 2010	342	235	69%	0	0		92	63	68%	0			55	44	80
	Aug 2010 Sep 2010	325 343	217 229	67% 67%	0	0		98 93	67 72	68% 77%	0	0	0% 0%	71 70	54 49	76 70
	Oct 2010	340	241	71%	0	0		95	68	72%	0			58	49	84
	Nov 2010	326	228	70%	0	0	0%	93	73	78%	0	0	0%	63	47	75
	Dec 2010	356	229	64%	0	0		78	58	74%	0	0	0%	64	36	56
	Jan 2011 Feb 2011	306 277	198 191	65% 69%	0	0		112 96	71 71	63% 74%	0		0% 0%	90 66	62 47	69 71
	Mar 2011	338	231	68%	1	0		94	73	78%	0		0%	79	55	70
	Apr 2011	322	205	64%	0	0	0%	86	58	67%	0	0	0%	52	33	63
	May 2011	280	175	63%	0	0		86	59	69%	0		0%	52	32	62
	Jun 2011 Jul 2011	286 309	187 201	65% 65%	0	0		75 70	57 54	76% 77%	1	1	100% 0%	41 48	29 36	71 75
	Aug 2011	309	215	67%	0	0		78	52	67%	0	0	0%	45	38	84
	Sep 2011	310	223	72%	0	0		78	56	72%	0		0%	42	26	62
	Oct 2011	269	179	67%	2	0	0%	77	58	75%	0	0	0%	56	39	70
	Nov 2011	274	194	71%	0	0		77	55	71%	0	-	0%	47	32	68
	Dec 2011	286	193	67%	0	0		72	47	65%	0			59	46	78
	Jan 2012 Feb 2012	273 266	198 197	73% 74%	0	0		88 75	65 54	74% 72%	0		0% 0%	53 53	34 43	64 81
	Mar 2012	282	201	71%	0	0		76	58	76%	0		0%	48	39	81
	Apr 2012	277	199	72%	1	0	0%	86	59	69%	0	0	0%	48	34	71
	May 2012	287	185	64%	1	0		71	49	69%	0		0%	52	39	75
	Jun 2012 Jul 2012	234 307	157 208	67% 68%	1 0	0		60 87	43 56	72% 64%	0		0% 0%	49 37	37 22	76 59
	Aug 2012	284	195	69%	1	1	100%	89	63	71%	0			51	39	76
	Sep 2012	254	184	72%	1	0		77	57	74%	1		100%	38	30	79
	Oct 2012	251	157	63%	0	0		69	51	74%	0		0%	47	28	60
	Nov 2012 Dec 2012	296 261	186 185	63% 71%	0	0		90 54	52 30	58% 56%	2		50% 0%	62 46	40 27	65 59
	Jan 2013	251	177	70%	2	1	50%	87	54	62%	0		0%	40	30	71
	Feb 2013	212	165	78%	2	0		56	41	73%	0	0	0%	44	35	80
	Mar 2013	236	154	65%	0	0		72	46	64%	0		0%	36	27	75
	Apr 2013 May 2013	226 250	158 173	70% 69%	0	0	0% 100%	68 65	47 53	69% 82%	0		0% 0%	37 42	29 26	78 62
	May 2013 Jun 2013	250 244	173	69% 70%	0	0		65	53 45	82% 65%	0		0%	42 34	26	68
	Jul 2013	239	168	70%	0	0		78	62	79%	0			43	29	67
	Aug 2013	272	184	68%	0	0		61	38	62%	0		0%	31	16	52
	Sep 2013	245	174	71%	0	0		66	47	71%	0		0%	44	28	64
	Oct 2013 Nov 2013	242 241	175 153	72% 63%	0	0		67 58	45 43	67% 74%	0			47 47	35 30	74 64
	Dec 2013	247	167	68%	1	0		57	41	72%	0			42	28	6



		Do	se 112 mcg/l	hr	Do	se 125 mcg/l	hr	Do	se 137 mcg/	hr	Do	se 150 mcg/l	hr	Do	se 162 mcg/	'hr
		Total N of Transdermal Fentanyl	N with Prior	% with Prior	Total N of Transdermal Fentanyl	N with Prior	% with Prior	Total N of Transdermal Fentanyl	N with Prior	% with	Total N of Transdermal Fentanyl	N with Prior	% with Prior	Total N of Transdermal Fentanyl	N with Prior	% with Prior
	Total	Episodes 3	Tolerance 3	Tolerance 100%	Episodes 137	Tolerance 83	Tolerance 61%	Episodes 2	Tolerance 1	Tolerance 50%	Episodes 172	Tolerance 119	Tolerance 69%	Episodes 2	Tolerance 2	Tolerance
Age (years)	0 - 11 years	0	0	0%	-	-	0%	-	-	0%	-	-	0%	-	-	0'
	12 - 17 years	0	0	0% 0%	1 2	- 2	0% 100%	-	-	0% 0%	1 5	- 4	0% 80%	- 1	- 1	0 100
	18 - 24 years 25 - 34 years	0	0	0%	9	7	78%	-	-	0%	12	8	67%	- 1	1	100
	35 - 44 years	0	0		20	13	65%	-	-	0%	30	24	80%	-	-	0
	45 - 54 years	1	1		57	34	60%	1		0%	60	41	68%			0
Gender	55 - 64 years Male	1	1		48 69	27 39	56% 57%	1	1	100%	64 95	42 74	66% 78%	2	2	100
oc.iuc.	Female	2	2		68	44	65%	2	1	50%	77	45	58%			0
	Ambiguous	0	0	0%	-	-	0%	-	-	0%	-	-	0%	-	-	0
	Unknown	0	0			2	0%	-		0%		2	0%			0
Month and Year of	Jan 2009 Feb 2009	1 0	1 0		4	2	50% 67%	-	-	0% 0%	6 2	2	33% 100%	-	-	0
Episode Start Date		0	0	0%	3	1	33%	-	-	0%	1	1	100%	-	-	0
	Apr 2009	0	0	0%	2	1	50%	-	-	0%	1	1	100%	-	-	0
	May 2009 Jun 2009	0	0	0% 0%	3 2	3	100% 100%	-	-	0% 0%	6 7	4 6	67% 86%	-	-	0
	Jul 2009 Jul 2009	0	0	0%	1	1	100%	-	-	0%	3	1	33%	-	-	0
	Aug 2009	0	0	0%	1	1	100%	-	-	0%	4	1	25%	-	-	0
	Sep 2009	0	0	0%	-	-	0%	-	-	0%	5	4	80%	-	-	0
	Oct 2009 Nov 2009	0	0	0% 0%	1 2	- 1	0% 50%	-	-	0%	4 7	2	50% 71%	-	-	0
	Nov 2009 Dec 2009	0	0	0%	2	1	50% 50%	-	-	0% 0%	7	5	71% 71%	-	-	0
	Jan 2010	0	0	0%	7	3	43%	-	-	0%	5	3	60%	-	-	0
	Feb 2010	0	0	0%	6	2	33%	-	-	0%	5	4	80%	-	-	C
	Mar 2010	0	0	0%	2	-	0%	-	-	0%	4	4	100%	-	-	(
	Apr 2010 May 2010	0	0	0% 0%	4	1	25% 50%	-	-	0% 0%	4	3	75% 75%	-	-	(
	Jun 2010	0	0	0%	5	4	80%	-	-	0%	2	2	100%	-	-	
	Jul 2010	0	0	0%	1	-	0%	-	-	0%	5	4	80%	-	-	C
	Aug 2010	0	0	0%	2	1	50%	-	-	0%	2	1	50%	-	-	(
	Sep 2010 Oct 2010	0	0	0% 0%	- 3	3	0% 100%	1	1	0% 100%	3	1	33% 100%	-	-	(
	Nov 2010	0	0	0%	2	2	100%	-	-	0%	2	1	50%	-	-	
	Dec 2010	0	0	0%	1	1	100%	-	-	0%	4	2	50%	-	-	C
	Jan 2011	0	0		3	1	33%	-	-	0%		3	75%	1	1	100
	Feb 2011 Mar 2011	1 0	1 0	100%	3	1 2	33% 100%	-	-	0% 0%	3	1	33% 50%	-	-	(
	Apr 2011	0	0		3	1	33%	-	-	0%	4	4	100%	-	-	C
	May 2011	0	0	0%	5	3	60%	-	-	0%	2	2	100%	-	-	C
	Jun 2011	0	0	0%	2	1	50%	-	-	0%	-	-	0%	-	-	C
	Jul 2011 Aug 2011	0	0	0% 0%	2	1	0% 100%	-	-	0% 0%	4	4	100% 100%	-	-	0
	Sep 2011	0	0	0%	4	2	50%	1	-	0%	3	3	100%	1	1	100
	Oct 2011	0	0	0%	1	1	100%	-	-	0%	1	-	0%	-	-	C
	Nov 2011	0	0	0%	-	-	0%	-	-	0%	1	1	100%	-	-	0
	Dec 2011	0			3	2	67%	-	-	0%	1	1	100%	-	-	C
	Jan 2012 Feb 2012	0	0	0% 0%	2	1 2	50% 100%	-	-	0% 0%	2	2	100% 80%	-	-	(
	Feb 2012 Mar 2012	0	0	0%	3	3	100%	-	-	0%	2	2	100%	-	-	(
	Apr 2012	1	1	100%	5	5	100%	-	-	0%	3	3	100%	-	-	(
	May 2012	0	0	0%	4	1	25%	-	-	0%	-	-	0%	-	-	(
	Jun 2012 Jul 2012	0	0	0% 0%	1	1	0% 100%	-	-	0% 0%	2	1	50% 0%	-	-	(
	Aug 2012	0	0	0%	4	4	100%	-	-	0%	1	1	100%	-	-	(
	Sep 2012	0	0	0%	1	1	100%	-	-	0%	2	1	50%	-	-	(
	Oct 2012	0	0	0%	2	2	100%	-	-	0%	2	2	100%	-	-	(
	Nov 2012 Dec 2012	0	0	0% 0%	2	2	100% 33%	-	-	0% 0%	5	3	60% 0%	-	-	(
	Jan 2013	0	0	0%	2	-	0%	-	-	0%	4	1	25%	-	-	(
	Feb 2013	0	0	0%	3	2	67%	-	-	0%	-	-	0%	-	-	(
	Mar 2013	0	0	0%	2	1	50%	-	-	0%	3	1	33%	-	-	(
	Apr 2013 May 2013	0	0	0% 0%	1	1	0% 100%	-	-	0% 0%	3	3	100%	-	-	
	Jun 2013	0	0	0%	-	-	100%	-	-	0%	3	1	33%	-	-	
	Jul 2013	0	0	0%	3	3	100%	-	-	0%	2	2	100%	-	-	
	Aug 2013	0	0	0%	2	2	100%	-	-	0%	3	1	33%	-	-	(
	Sep 2013	0	0	0%	1	1	100%	-	-	0%	2	1	50%	-	-	(
	Oct 2013 Nov 2013	0	0	0% 0%	4	1	25% 100%	-		0% 0%	1	1 2	100% 67%	-	-	(
	Dec 2013	0			1	1	0%	-	-	0%	2	1	50%	-	-	



2013		Secondary To	olerance Defi	nition (≥30 mg	per day for sev	en days in the	30 days prior)	)		
		Do	se 175 mcg/	hr	Do	se 200 mcg/	hr	Do	ose 225 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	23	18	55%	2 Episoues	3	75%	2	1	50%
Age (years)	0 - 11 years	-		0%	-	-	0%	-	-	0%
	12 - 17 years	1	1	100%	-	-	0%	-	-	0%
	18 - 24 years	3	3	100%	-	-	0%	-	-	0%
	25 - 34 years	1	-	0%	-	-	0%	1	1	100%
	35 - 44 years 45 - 54 years	9	3 6	75% 67%	3 1	2	67% 100%	-	-	0% 0%
	55 - 64 years	15	5	33%			0%	1	_	0%
Gender	Male	11	9	82%	4	3	75%	2	1	50%
	Female	22	9	41%	-	-	0%	-	-	0%
	Ambiguous	-	-	0%	-	-	0%	-	-	0%
	Unknown			0%	-		0%	-	<u> </u>	0%
Month and Year of	Jan 2009 Feb 2009	1	1	0% 100%		-	0% 0%	-		0% 0%
Episode Start Date	Mar 2009	1	1	100%	-	-	0%	-	-	0%
	Apr 2009	3	3	100%	1	1	100%	-	-	0%
	May 2009	-	-	0%	-	-	0%	-	-	0%
	Jun 2009	-	-	0%	-	-	0%	-	-	0%
	Jul 2009	2	2	100%	-	-	0%	1	1	100% 0%
	Aug 2009 Sep 2009	1	1	0% 100%	-	-	0% 0%	-	-	0%
	Oct 2009	1	-	0%	-	-	0%	-	_	0%
	Nov 2009	-	-	0%	-	-	0%	-	-	0%
	Dec 2009	1	-	0%	-	-	0%	-	-	0%
	Jan 2010	-	-	0%	-	-	0%	-	-	0%
	Feb 2010 Mar 2010	-	-	0%		-	0%	-	-	0%
	Apr 2010	1	. 1	100% 0%	1	1	100% 0%	-	-	0% 0%
	May 2010	-	-	0%	-	-	0%	-	-	0%
	Jun 2010	1	-	0%	-	-	0%	-	-	0%
	Jul 2010	-	-	0%	-	-	0%	-	-	0%
	Aug 2010	1	1	100%	-	-	0%	-	-	0%
	Sep 2010	1	1	0%	-	-	0% 0%	-	-	0%
	Oct 2010 Nov 2010		-	100%		-	0%	-		0% 0%
	Dec 2010	1	1	100%	-	-	0%	-	-	0%
	Jan 2011	-	-	0%	-	-	0%	-	-	0%
	Feb 2011	2	1	50%	-	-	0%	-	-	0%
	Mar 2011	1	1	100%	-	-	0%	-	-	0%
	Apr 2011	1	-	0%	-	-	0%	-	-	0%
	May 2011 Jun 2011	2	1	0% 50%	-	-	0% 0%	-	-	0% 0%
	Jul 2011	-	-	0%	-	-	0%	-	_	0%
	Aug 2011	1	-	0%	-	-	0%	-	-	0%
	Sep 2011	2	1	50%	-	-	0%	-	-	0%
	Oct 2011	2	-	0%	-	-	0%	-	-	0%
	Nov 2011	-	-	0%	-	-	0%	-	-	0%
	Dec 2011	-	-	0%	-	-	0%	-	-	0%
	Jan 2012 Feb 2012	-	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Feb 2012 Mar 2012	1	-	0%	-	-	0%	-	-	0%
	Apr 2012	1	-	0%	-	-	0%	-	-	0%
	May 2012	-	-	0%	-	-	0%	-	-	0%
	Jun 2012	-	-	0%	-	-	0%	-	-	0%
	Jul 2012	-	-	0%	-	-	0%	-	-	0%
	Aug 2012 Sep 2012	-	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Oct 2012	-	-	0%	-	-	0%	-	-	0%
	Nov 2012	-	-	0%	-	-	0%	1	-	0%
	Dec 2012	-	-	0%	-	-	0%	-	-	0%
	Jan 2013	-	-	0%	-	-	0%	-	-	0%
	Feb 2013 Mar 2013	1	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Mar 2013 Apr 2013	-	-	0%	-	-	0%	-	-	0%
	May 2013	-	-	0%	-	-	0%	-	-	0%
	Jun 2013	1	-	0%	2	1	50%	-	-	0%
	Jul 2013	-	-	0%	-	-	0%	-	-	0%
	Aug 2013	-	-	0%	-	-	0%	-	-	0%
	Sep 2013 Oct 2013	1	1	100%	-	-	0% 0%	-	-	0% 0%
	Nov 2013	-	-	0%	-	-	0%	-	-	0%
	Dec 2013	1	1	100%			0%			0%
		-	-	/-			270			- 70



				I	rertiary	7 Tolerance Den	nition (>0 mg per	day iii tile prioi	7 consecutive u	aysj				l		
		0	ose 12 mcg/h	,	ı	Dose 24 mcg/h	ır	D	ose 25 mcg/hr	-	D	ose 36 mcg/	hr	Dos	se 37 mcg/h	ır
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	16,379	8,076	49.3%	Episodes 3	2	67%	44,450	23,730	53.4%	Episodes 1	0	0%		181	61%
Age (years)	0 - 11 years	32	6	18.8%	-	C		23	6	26.1%	0				0	0%
	12 - 17 years	75	23 167	30.7% 44.5%		C		79 827	28 427	35.4%	0					0% 38%
	18 - 24 years 25 - 34 years	375 1,464	870	59.4%		0		3,731	2,285	51.6% 61.2%	1				17	71%
	35 - 44 years	2,841	1,561	54.9%	2			7,954	4,564	57.4%	0				37	59%
	45 - 54 years	5,214	2,603	49.9%		C		14,785	8,065	54.5%	0				54	62%
Gender	55 - 64 years Male	6,378	2,846 2,585	44.6% 50.4%	1	1		17,051 18,327	8,355 9,822	49.0% 53.6%	0	0			70	62%
Gender	Female	5,124 11,255	5,491	48.8%	2			26,123	13,908	53.0%	1				85 96	64% 58%
	Ambiguous		-	0.0%		C				0.0%	0					
	Unknown	0	0	0	0	C	0%		0	0	0		0%	0	0	0%
	Jan 2009	220	117	53.2%	-	C		953	470	49.3%	0				3	
Month and Year of Episode Start Date		206 267	97 118	47.1% 44.2%		C		890 982	438 496	49.2% 50.5%	0				3	
Episode Start Date	Apr 2009	220	105	47.7%		C		969	503	51.9%	1	0			2	
	May 2009	248	119	48.0%		C	0%	875	490	56.0%	0	0	0%	6		
	Jun 2009	258	115	44.6%		C		909	443	48.7%	0	0			5	100%
	Jul 2009	249	124	49.8%		0		870 881	443	50.9%	0	0				
	Aug 2009 Sep 2009	268 295	122 145	45.5% 49.2%		C		943	432 481	49.0% 51.0%	0	0			1 4	50% 100%
	Oct 2009	261	114	43.7%		C		857	423	49.4%	0	0				
	Nov 2009	231	109	47.2%		C	0%	818	412	50.4%	0	0	0%	8	4	50%
	Dec 2009	244	115	47.1%		C		900	497	55.2%	0	0			3	43%
	Jan 2010 Feb 2010	226 238	109 128	48.2% 53.8%		C		827 753	414 400	50.1% 53.1%	0					100%
	Mar 2010	238	128	47.0%		0		753	400	52.0%	0					63%
	Apr 2010	257	119	46.3%		C		833	418	50.2%	0				2	
	May 2010	227	122	53.7%		C	0%	738	407	55.1%	0	0	0%	5	1	20%
	Jun 2010	246	117	47.6%		C		746	391	52.4%	0				1	
	Jul 2010	223 260	104 130	46.6% 50.0%		C		764 810	423 420	55.4% 51.9%	0				3	
	Aug 2010 Sep 2010	301	136	45.2%		0		833	463	55.6%	0	0				
	Oct 2010	288	134	46.5%		C		777	410	52.8%	0	0			3	
	Nov 2010	290	141	48.6%	-	C		824	421	51.1%	0					
	Dec 2010	291	138	47.4%		C		731	398	54.4%	0	0			1	
	Jan 2011 Feb 2011	252 264	116 121	46.0% 45.8%		C		724 639	372 329	51.4% 51.5%	0			1	1 2	
	Mar 2011	279	144	51.6%		C		802	433	54.0%	0				5	569
	Apr 2011	269	135	50.2%		C	0%	710	381	53.7%	0	0	0%	10	9	909
	May 2011	261	120	46.0%		C		700	371	53.0%	0	0			3	100%
	Jun 2011	276	123	44.6%		0		678	377	55.6%	0				2	
	Jul 2011 Aug 2011	282 314	145 162	51.4% 51.6%		0		679 758	355 389	52.3% 51.3%	0	0			2	67% 50%
	Sep 2011	291	138	47.4%		C		730	392	53.7%	0				4	
	Oct 2011	263	133	50.6%		C	0%	711	404	56.8%	0	0	0%	3	2	679
	Nov 2011	288	147	51.0%	-	C	0%	659	383	58.1%	0	0	0%	8	2	259
	Dec 2011	307	145	47.2%	-	C	0%	689	357	51.8%	0	0	0%	5	3	60%
	Jan 2012	279	125	44.8%	-	C		720	394	54.7%	0	0				
	Feb 2012 Mar 2012	255 294	128 145	50.2% 49.3%	-	C		638 683	340 358	53.3% 52.4%	0				5 5	
	Apr 2012	254	126	50.2%		C		650	353	54.3%	0	0			2	
	May 2012	324	159	49.1%	-	C		631	341	54.0%	0	0				
	Jun 2012	242	127	52.5%	-	C		564	310	55.0%	0					
	Jul 2012	295	149	50.5%	-	0		617	342	55.4%	0	0			2	409
	Aug 2012 Sep 2012	304 279	169 131	55.6% 47.0%		C		787 645	437 333	55.5% 51.6%	0					
	Oct 2012	304	160	52.6%		C		699	426	60.9%	0	0			2	
	Nov 2012	313	161	51.4%		C		712	373	52.4%	0					679
	Dec 2012	293	141	48.1%	-	C		631	347	55.0%	0	0				389
	Jan 2013 Feb 2013	277 254	143 131	51.6% 51.6%	-	C		593 638	320 377	54.0% 59.1%	0				3	759 1009
	Heb 2013 Mar 2013	254	131	51.6%		0		585	346	59.1% 59.1%	0	0			3	
	Apr 2013	289	159	55.0%		C		617	353	57.2%	0				5	569
	May 2013	261	135	51.7%		C		640	362	56.6%	0					639
	Jun 2013	271	146	53.9%	1	1		602	339	56.3%	0	0			2	509
	Jul 2013	331	162	48.9%	-	C		663	386	58.2%	0				7	889 339
	Aug 2013 Sep 2013	341 302	160 149	46.9% 49.3%	-	C		735 645	403 348	54.8% 54.0%	0				2	
	Oct 2013	331	173	52.3%	1			714	397	55.6%	0				1	
	Nov 2013	310	166	53.5%	1	C	0%	651	353	54.2%	0	0	0%	5	1	
	Dec 2013	298	161	54.0%	0	C	0%	637	345	54.2%	0	0	0%	5	4	809



								g per day in the								
		Dos	se 50 mcg/h	r	Dos	se 62 mcg/h	nr	Do	se 75 mcg/h	r	Dos	se 87 mcg/	hr	Dos	e 100 mcg/	hr
	•	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerand
	Total	18,527	11,000	59%	22	6	27%	5,118	3,122	61%	8	2	25%		2,125	61
ige (years)	0 - 11 years	7	2	29%	1	0	0%	2	-	0%	0	0	0%	4	-	(
	12 - 17 years	32	10	31%	0	0	0%	11	3	27%	0	0	0%		2	25
	18 - 24 years	380	205	54%	1	0		99	55	56%	0	0			39	51
	25 - 34 years 35 - 44 years	1,614 3,502	1,055 2,240	65% 64%	2	0		523 1,011	337 613	64% 61%	1	1			191 424	66 62
	45 - 54 years	6,358	3,779	59%	11	3		1,785	1,110	62%	4	1			790	62
	55 - 64 years	6,634	3,709	56%	3	2	67%	1,687	1,004	60%	2	0	0%	1,166	679	58
iender	Male	8,727	5,343	61%	11	5		2,510	1,590	63%	4	1			1,171	64
	Female	9,800	5,657	58% 0%	11 0	1		2,608	1,532	59% 0%	4	1			954	5
	Ambiguous Unknown			0%	0	0				0%	0	0				
	Jan 2009	412	223	54%	2	2		145	76	52%	1	0			46	4
Month and Year of		414	251	61%	0	0		118	68	58%	0	0			59	6
pisode Start Date	Mar 2009	424	263	62%	0	0	0%	112	67	60%	0	0	0%	79	40	5
	Apr 2009	423	262	62%	0	0	0%	108	68	63%	0	0	0%		56	6
	May 2009	368	208	57%	0	0		101	52	51%	0	0			46	5
	Jun 2009 Jul 2009	409 376	227 214	56% 57%	0	0	0% 0%	111 89	58 48	52% 54%	0	0	0%		56 55	7
	Jul 2009 Aug 2009	3/6	214	61%	0	0		89 97	48 58	54% 60%	0	0			43	6
	Sep 2009	396	233	59%	0	0		95	69	73%	2	0	0%		40	5
	Oct 2009	433	241	56%	0	0	0%	100	59	59%	0	0	0%		54	6
	Nov 2009	366	213	58%	1	1	100%	94	63	67%	0	0	0%	77	48	
	Dec 2009	379	216	57%	0	0		113	67	59%	0	0	0%		44	5
	Jan 2010	359	200	56%	0	0		101	59	58%	0	0	0%		58	
	Feb 2010	325	176	54%	1	0		84	44	52%	1	0			35	
	Mar 2010 Apr 2010	331 307	195 172	59% 56%	0	0	0% 0%	113 100	71 67	63% 67%	0	0	0%		37 48	
	May 2010	326	188	58%	0	0		84	47	56%	0	0			41	
	Jun 2010	340	206	61%	0	0	0%	77	42	55%	0	0	0%		39	
	Jul 2010	342	216	63%	0	0	0%	92	51	55%	0	0	0%	55	37	6
	Aug 2010	325	191	59%	0	0	0%	98	58	59%	0	0	0%	71	47	6
	Sep 2010	343	206	60%	1	1		93	61	66%	0	0	0%		41	5
	Oct 2010	340	215	63%	0	0	0%	95	64	67%	0	0	0%		43	7
	Nov 2010 Dec 2010	326 356	207 203	63% 57%	0	0	0% 0%	93 78	62 46	67% 59%	0	0	0%		41 30	4
	Jan 2011	306	165	54%	0	0		112	60	54%	0	0	0%		55	
	Feb 2011	277	171	62%	0	0		96	64	67%	0	0	0%		39	
	Mar 2011	338	211	62%	1	0	0%	94	64	68%	0	0	0%		46	
	Apr 2011	322	173	54%	0	0	0%	86	56	65%	0	0	0%	52	30	5
	May 2011	280	156	56%	0	0	0%	86	54	63%	0	0	0%	52	31	6
	Jun 2011	286	157	55%	0	0	0%	75	53	71%	1	0	0%		27	6
	Jul 2011	309	185	60%	0	0		70	52	74%	0	0	0%		28	5
	Aug 2011 Sep 2011	322 310	185 186	57% 60%	0	0	0% 0%	78 78	44 49	56% 63%	0	0	0%		31 25	
	Oct 2011	269	156	58%	2	0	0%	77	56	73%	0	0	0%		33	
	Nov 2011	274	165	60%	0	0		77	47	61%	0	0			28	
	Dec 2011	286	167	58%	0	0	0%	72	41	57%	0	0	0%	59	38	
	Jan 2012	273	167	61%	0	0		88	60	68%	0	0	0%		27	
	Feb 2012	266	168	63%	1	0		75	49	65%	0	0	0%		36	
	Mar 2012	282	179	63%	0	0		76	48	63%	0	0	0%		30	
	Apr 2012	277	175	63%	1	0	0%	86	50	58%	0	0	0%	48	29	
	May 2012	287	181	63%	1	0		71	46	65%	0	0	0%		37	
	Jun 2012	234	144	62%	1	0		60	38	63%	0	0	0%		32	
	Jul 2012	307 284	189 170	62% 60%	0	0	0% 0%	87 89	48 59	55% 66%	0	0	0%		18 35	
	Aug 2012 Sep 2012	284 254	159	63%	1	0		89 77	55	71%	1	1			22	
	Oct 2012	251	145	58%	0	0	0%	69	47	68%	0	0	0%		21	
	Nov 2012	296	165	56%	0	0		90	46	51%	2	1			33	
	Dec 2012	261	171	66%	0	0	0%	54	26	48%	0	0	0%	46	20	
	Jan 2013	254	156	61%	2	1		87	45	52%	0	0	0%		26	
	Feb 2013	212	134	63%	2	0		56	33	59%	0	0			29	
	Mar 2013	236 226	148	63%	0	0		72 68	45	63%	0	0	0%		19	
	Apr 2013 May 2013	226 250	129 160	57% 64%	0	0	0% 100%	68 65	39 43	57% 66%	0	0	0%		25 26	
	Jun 2013	250	141	58%	0	0		69	44	64%	0	0	0%		18	
	Jul 2013	239	141	59%	0	0		78	49	63%	0	0	0%		22	
	Aug 2013	272	169	62%	0	0		61	29	48%	0	0	0%		15	
	Sep 2013	245	152	62%	0	0	0%	66	41	62%	0	0	0%	44	25	
	Oct 2013	242	152	63%	0	0		67	43	64%	0	0			32	
	Nov 2013	241	142	59%	0	0	0%	58	37	64%	0	0	0%	47	26	



						,		1		secutive days)	ı			1		
		Dos	se 112 mcg/	hr	Do	se 125 mcg/l	hr	Do	se 137 mcg/	/hr	Do	se 150 mcg/l	hr	Do	se 162 mcg/	'hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
•	Total	3	3		137	73	53%	2	1	50%		104	60%	2	1	50%
Age (years)	0 - 11 years 12 - 17 years	0	0	0% 0%	1	-	0% 0%	-	-	0% 0%		-	0% 0%	-	-	0%
	18 - 24 years	0	0		2	2	100%	-	-	0%		4	80%	1	-	0%
	25 - 34 years	0	0		9	7	78%		-	0%	12	6	50%	-	-	0%
	35 - 44 years 45 - 54 years	0	0		20 57	8 31	40% 54%		-	0% 0%		21 37	70% 62%	-	-	0%
	55 - 64 years	2	2		48	25	52%	1	1	100%	64	36	56%	1	1	100%
Gender	Male	1	1		69	35	51%	-	-	0%		61	64%	2	1	50%
	Female Ambiguous	2	2		68	38	56% 0%	2	1	50% 0%		43	56% 0%	-	-	0%
	Unknown	0	0				0%			0%			0%			0%
	Jan 2009	1	1	100%	4	2	50%	-	-	0%	6	2	33%	-	-	0%
Month and Year of		0	0		3	1	33%		-	0%		1	50%	-	-	0%
Episode Start Date	Mar 2009 Apr 2009	0	0		3	1	33% 50%		-	0%		1	100% 100%	-	-	0%
	May 2009	0	0	0%	3	3	100%		-	0%		4	67%	-	-	0%
	Jun 2009	0	0		2	2	100%		-	0%		6	86%	-	-	0%
	Jul 2009 Aug 2009	0	0	0% 0%	1	1	100% 100%	-	-	0% 0%		1	33% 0%	-	-	0%
	Aug 2009 Sep 2009	0	0	0%	-	-	100%	-	-	0%		3	60%	-	-	0%
	Oct 2009	0	0		1	-	0%		-	0%		2	50%	-	-	0%
	Nov 2009	0	0		2	1	50%	-	-	0%	7	5	71%	-	-	0%
	Dec 2009 Jan 2010	0	0	0% 0%	2	1 2	50% 29%	-	-	0% 0%	7 5	5	71% 60%	-	-	0%
	Feb 2010	0	0		6	1	17%	-	-	0%	5	3	60%	-	-	0%
	Mar 2010	0	0		2	-	0%	-	-	0%		3	75%	-	-	0%
	Apr 2010	0	0	0% 0%	4 2	1	25%	-	-	0%	4	3	75%	-	-	0%
	May 2010 Jun 2010	0	0	0%	5	2	50% 40%	-	-	0%		1	50% 50%	-	-	0%
	Jul 2010	0	0	0%	1	-	0%	-	-	0%	5	4	80%	-	-	0%
	Aug 2010	0	0	0%	2	1	50%		-	0%	2	-	0%	-	-	0%
	Sep 2010 Oct 2010	0	0	0% 0%	3	3	0% 100%		1	0% 100%		3	0% 100%	-	-	0% 0%
	Nov 2010	0	0		2	2	100%	-	-	0%		1	50%	-	-	0%
	Dec 2010	0	0		1	1	100%	-	-	0%		2	50%	-	-	0%
	Jan 2011	0	0		3	1	33% 33%	-	-	0% 0%	4	2	50% 33%	1	-	0% 0%
	Feb 2011 Mar 2011	0	0		2	1	50%	-	-	0%		1	50%	-	-	0%
	Apr 2011	0	0		3	2	67%	-	-	0%	4	4	100%	-	-	0%
	May 2011	0	0	0%	5	1	20%	-	-	0%		1	50%	-	-	0%
	Jun 2011 Jul 2011	0	0	0% 0%	2	1	50% 0%	-	-	0% 0%	4	- 4	0% 100%	-	-	0% 0%
	Aug 2011	0	0	0%	1	1	100%	-	-	0%		1	100%	-	-	0%
	Sep 2011	0	0	0%	4	3	75%	1	-	0%		3	100%	1	1	100%
	Oct 2011	0	0		1	1	100%	-	-	0%	1	-	0%	-	-	0%
	Nov 2011 Dec 2011	0	0		3	- 2	0% 67%	-	-	0%	1	1	100% 100%	-	-	0%
	Jan 2012	0	0		2	1	50%		-	0%		2	100%		-	0%
	Feb 2012	0	0		2	1	50%		-	0%		4	80%	-	-	0%
	Mar 2012	0	0		3	3	100%		-	0%		1	50%		-	0%
	Apr 2012 May 2012	1	1 0		5 4	5	100% 0%		-	0% 0%		2	67% 0%	-	-	0%
	Jun 2012	0	0		- 4	-	0%		-	0%		1	50%	-	-	0%
	Jul 2012	0	0	0%	1	1	100%		-	0%		-	0%		-	0%
	Aug 2012	0	0		4	3	75%		-	0%		1	100%	-	-	0%
	Sep 2012 Oct 2012	0	0	0% 0%	1 2	1 2	100% 100%		-	0%		1 2	50% 100%		-	0%
	Nov 2012	0	0		2	2	100%		-	0%		3	60%	-	-	0%
	Dec 2012	0	0	0%	3	1	33%		-	0%		-	0%	-	-	0%
	Jan 2013 Feb 2013	0	0	0% 0%	2	- 1	0% 33%		-	0% 0%		-	0% 0%	-	-	0%
	Mar 2013	0	0	0%	2	1	50%		-	0%		1	33%	-	-	0%
	Apr 2013	0	0		-	-	0%		-	0%		2	67%	-	-	0%
	May 2013	0	0		1	1	100%		-	0%		-	0%	-	-	0%
	Jun 2013 Jul 2013	0	0	0% 0%	- 3	- 3	0% 100%		-	0% 0%		1	33% 100%		-	0%
	Aug 2013	0	0		2	2	100%		-	0%		1	33%		-	0%
	Sep 2013	0	0	0%	1	1	100%	-	-	0%	2	1	50%	-	-	0%
	Oct 2013	0	0		4	1	25%		-	0%		1	100%		-	0%
	Nov 2013 Dec 2013	0	0		1	1	100%		-	0%		2	67% 50%		-	0%



		Do	se 175 mcg/	hr	Do	se 200 mcg/	hr	Do	se 225 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	Episodes 33	16	48%	Episodes 4	3	75%	episodes 2	-	09
Age (years)	0 - 11 years	-	-	0%	-	-	0%	-	-	09
	12 - 17 years	1	1	100%	-	-	0%	-	-	09
	18 - 24 years 25 - 34 years	3	3	100%	-	-	0% 0%	1	-	09
	35 - 44 years	4	3	75%	3	2	67%	-	-	09
	45 - 54 years	9	4	44%	1	1	100%	-	-	09
	55 - 64 years	15	5	33%	-	-	0%	1	-	09
Gender	Male	11	9 7	82%	4	3	75%	2	-	09
	Female Ambiguous	- 22	- '	32% 0%	-	-	0% 0%	-	-	09
	Unknown			0%			0%			0
	Jan 2009	1	-	0%	-	-	0%	-	-	09
Month and Year of	Feb 2009	1	1	100%	-	-	0%	-	-	09
Episode Start Date	Mar 2009	1	1	100%	-	-	0%	-	-	09
	Apr 2009 May 2009	3	3	100%	- 1	- 1	100% 0%	-	-	09
	Jun 2009	-	-	0%	-	-	0%	-	-	09
	Jul 2009	2	-	0%	-	-	0%	1	-	09
	Aug 2009	-	-	0%	-	-	0%	-	-	0'
	Sep 2009	1	1	100%	-	-	0%	-	-	09
	Oct 2009	1	-	0%	-	-	0%	-	-	09
	Nov 2009 Dec 2009	1	-	0% 0%	-	-	0% 0%	-	-	09
	Jan 2010	-	_	0%	_	_	0%	_	_	09
	Feb 2010	-	-	0%	-	-	0%	-	-	09
	Mar 2010	1	1	100%	1	1	100%	-	-	09
	Apr 2010	-	-	0%	-	-	0%	-	-	09
	May 2010	-	-	0%	-	-	0%	-	-	09
	Jun 2010 Jul 2010	1	-	0% 0%	-	-	0% 0%	-	-	09
	Aug 2010	1	1	100%	-	-	0%	-	-	09
	Sep 2010	-	-	0%	_	-	0%	-	-	09
	Oct 2010	1	1	100%	-	-	0%	-	-	09
	Nov 2010	-	-	0%	-	-	0%	-	-	09
	Dec 2010	1	1	100%	-	-	0%	-	-	0'
	Jan 2011 Feb 2011	2	1	0% 50%	-	-	0% 0%	-	-	0'
	Mar 2011	1	1	100%	_	_	0%	_	_	0'
	Apr 2011	1	-	0%	-	-	0%	-	-	0'
	May 2011	-	-	0%	-	-	0%	-	-	0'
	Jun 2011	2	1	50%	-	-	0%	-	-	09
	Jul 2011	-	-	0%	-	-	0%	-	-	09
	Aug 2011 Sep 2011	1	1	0% 50%	-	-	0% 0%	-	-	09
	Oct 2011	2		0%	_	-	0%		-	09
	Nov 2011	-	-	0%	-	-	0%	-	-	09
	Dec 2011	-	-	0%	-	_	0%	-	-	09
	Jan 2012	-	-	0%	-	_	0%	-	-	09
	Feb 2012	-	-	0%	-	-	0%	-	-	0
	Mar 2012	1	-	0%	-	-	0%	-	-	0'
	Apr 2012	1	-	0%	-	-	0%	-	-	0'
	May 2012 Jun 2012	-	-	0% 0%	-	-	0% 0%	-	-	0'
	Jun 2012 Jul 2012	-	-	0%	-	-	0%	-	-	0
	Aug 2012	-	-	0%	-	-	0%	-	-	0
	Sep 2012	-	-	0%	-	-	0%	-	-	0
	Oct 2012	-	-	0%	-	-	0%	-	-	0
	Nov 2012 Dec 2012	-	-	0%	-	-	0%	1	-	0
	Dec 2012 Jan 2013	-	-	0% 0%	-	-	0% 0%	-	-	0
	Feb 2013	1	-	0%	-	-	0%	-	-	0
	Mar 2013	-	-	0%	-	-	0%	-	-	0
	Apr 2013	-	-	0%	-	-	0%	-	-	0
	May 2013	-	-	0%	-	-	0%	-	-	C
	Jun 2013	1	-	0%	2	1	50%	-	-	0
	Jul 2013 Aug 2013	-	-	0% 0%	-	-	0% 0%	-	-	0
	Aug 2013 Sep 2013	1	1	100%	-	-	0%	-	-	0
	Oct 2013	-	-	0%	-	-	0%	-	-	0
	Nov 2013	-	-	0%	-	-	0%	-	-	0
	Dec 2013	1	1	100%		_	0%	_	-	0'



		D	ose 12 mcg/hi	r	C	ose 24 mcg/h	ır		Oose 25 mcg/h		D	ose 36 mcg/l	hr	Dos	e 37 mcg/l	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	16,379	11,725	71.6%	Episodes 3	3	100%		34,055	76.6%	Episodes 1	0	0%		226	76%
Age (years)	0 - 11 years	32	13	40.6%	-	0				39.1%	0				0	
	12 - 17 years	75	34	45.3%		0		79		44.3%	0			2	0	
	18 - 24 years 25 - 34 years	375 1,464	244 1,149	65.1% 78.5%		0			573 3,036	69.3% 81.4%	0	0		8 24	5 20	
	35 - 44 years	2,841	2,145	75.5%	2	2		7,954	6,322	79.5%	0			63	45	
	45 - 54 years	5,214	3,758	72.1%	-	0			11,417	77.2%	0				66	
	55 - 64 years	6,378	4,382	68.7%	1	1	100%	17,051	12,663	74.3%	0	0	0%	113	90	80%
Gender	Male	5,124	3,737	72.9%	1	1			14,155	77.2%	0				105	
	Female Ambiguous	11,255	7,988	71.0%	2	2			19,900	76.2% 0.0%	1			165 0	121 0	
	Unknown	0	0	0.0%	0	0			0	0.0%					0	
	Jan 2009	220	165	75.0%		0			703	73.8%	0				4	
Month and Year of		206	140	68.0%		0	0%		672	75.5%	0			8	4	
Episode Start Date		267	174	65.2%		0	0%	982	739	75.3%	0	0	0%	5	5	100%
	Apr 2009	220	159	72.3%		0	0%	969	725	74.8%	1	0	0%	4	2	50%
	May 2009	248	182	73.4%		0			689	78.7%	0			6	6	
	Jun 2009	258	172	66.7%	-	0			689	75.8%	0			5	5	
	Jul 2009	249	174	69.9%	-	0			643	73.9%	0			6	4	
	Aug 2009 Sep 2009	268 295	191 219	71.3% 74.2%		0			641 717	72.8% 76.0%	0	0		2	1 4	
	Oct 2009	261	172	65.9%		0		857	631	73.6%	0	0		1	1	
	Nov 2009	231	157	68.0%		0			598	73.1%	0			8	5	
	Dec 2009	244	167	68.4%		0	0%	900	687	76.3%	0	0	0%	7	5	
	Jan 2010	226	156	69.0%		0	0%	827	607	73.4%	0	0	0%	6	0	09
	Feb 2010	238	171	71.8%	-	0	0%	753	562	74.6%	0	0	0%	8	8	
	Mar 2010	268	184	68.7%		0			601	76.0%	0	0		8	6	
	Apr 2010	257	179	69.6%	-	0			621	74.5%	0			3	2	
	May 2010	227 246	179	78.9%	-	0			595	80.6%	0	0			1	
	Jun 2010 Jul 2010	246	171 155	69.5% 69.5%		0			557 593	74.7% 77.6%	0			4 5	1 4	
	Aug 2010	260	186	71.5%		0				76.9%	0			3	2	
	Sep 2010	301	213	70.8%		0	0%	833	643	77.2%	0	0		2	2	
	Oct 2010	288	196	68.1%	-	0	0%	777	586	75.4%	0	0	0%	5	5	1009
	Nov 2010	290	210	72.4%	-	0	0%	824	621	75.4%	0	0	0%	9	7	
	Dec 2010	291	209	71.8%	-	0		731	567	77.6%	0			3	2	
	Jan 2011	252	169	67.1%		0			547	75.6%	0			1	1	
	Feb 2011 Mar 2011	264 279	177 193	67.0% 69.2%		0			490 622	76.7% 77.6%	0	0		3 9	3 6	
	Apr 2011	269	199	74.0%		0				77.9%	0			10	10	
	May 2011	261	184	70.5%		0			527	75.3%	0	0		3	3	
	Jun 2011	276	192	69.6%		0	0%	678	521	76.8%	0	0	0%	4	3	
	Jul 2011	282	193	68.4%		0	0%	679	515	75.8%	0	0	0%	3	2	67%
	Aug 2011	314	237	75.5%		0	0%	758	559	73.7%	0	0	0%	4	3	75%
	Sep 2011	291	208	71.5%	-	0			565	77.4%	0			7	5	
	Oct 2011	263	194	73.8%		0	0%	711	555	78.1%	0	0	0%	3	2	679
	Nov 2011	288	204	70.8%	-	0	0%	659	529	80.3%	0	0	0%	8	4	509
	Dec 2011	307	215	70.0%	-	0			517	75.0%	0				5	
	Jan 2012	279	190	68.1%		0				78.1%	0				2	
	Feb 2012	255	189	74.1%	-	0				77.1%					6	
	Mar 2012 Apr 2012	294 251	218 180	74.1% 71.7%		0			538 494	78.8% 76.0%	0				5	
	May 2012	324	225	69.4%		0		631	486	77.0%	0			8	7	
	Jun 2012	242	179	74.0%		0			443	78.5%	0	0			3	
	Jul 2012	295	225	76.3%		0	0%	617	464	75.2%	0	0	0%	5	4	
	Aug 2012	304	230	75.7%	-	0	0%	787	625	79.4%	0	0	0%	2	2	1009
	Sep 2012	279	199	71.3%		0			496	76.9%	0			5	5	
	Oct 2012	304	223	73.4%		0			565	80.8%	0				2	
	Nov 2012	313	227	72.5%	-	0			553	77.7%	0			6	4	
	Dec 2012 Jan 2013	293 277	214 200	73.0% 72.2%		0			478 452	75.8% 76.2%	0			8	5	
	Feb 2013	254	182	72.2%		0			452 516	80.9%	0				3	
	Mar 2013	253	185	73.1%		0			470	80.3%	0	0			4	
	Apr 2013	289	219	75.8%	-	0			486	78.8%	0	0			7	
	May 2013	261	185	70.9%		0	0%	640	500	78.1%	0	0	0%	8	6	759
	Jun 2013	271	197	72.7%	1	1			482	80.1%	0				3	
	Jul 2013	331	241	72.8%	-	0			530	79.9%	0			8	7	
	Aug 2013	341	244	71.6%		0			582	79.2%	0				2	
	Sep 2013 Oct 2013	302 331	221 248	73.2% 74.9%	1	0			489 550	75.8% 77.0%	0				2	
	Nov 2013	331	248	74.9% 76.1%	1	1			501	77.0%	0				2	
	Dec 2013	298	230	74.5%	0	0			491	77.0%						



12 - 1 18 - 2 25 - 3 35 - 4 45 - 5 55 - 6  Gender Male Fema Ambi Junko Junko Month and Year of Feb 2 May; Jun 2 Jun 2 Aug; Sep 2 Oct 2 Jan 2 Jun	1- 11 years 2 - 17 years 8 - 24 years 5 - 34 years 5 - 34 years 5 - 54 years 5 - 54 years 75 - 64 years 76 - 64 ye	Total N of Transdermal Fentanyl Episodes  18,527 7 32 380 1,614 3,502 6,358 6,634 8,727 9,800 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 342	N with Prior Tolerance  14,686 3 177 277 1,331 2,886 5,038 5,134 7,004 7,682 313 346 348 337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	% with Prior Tolerance 79% 43% 43% 53% 73% 82% 82% 79% 77% 80% 76% 84% 82% 80% 75% 76% 78% 82% 79% 74% 78% 78% 78% 78% 78% 78% 78% 78% 78% 78	Total N of Transdermal Fentanyi Episodes  22 1 0 1 2 4 11 11 11 0 0 2 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0	0 0 0 2 2 4 4 2 2 6 6 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67% 55% 18% 0% 0% 100%	Total N of Transdermal Fentanyl Episodes  5,118 2 111 99 523 1,011 1,785 2,510 2,608 145 118 112 108 101 111 89 97 95 100 94	N with Prior Tolerance  3,944 1 4 70 409 771 1,396 1,293 1,966 1,978 98 90 80 88 74 83 62 75 81 77	% with Prior Tolerance 77% 50% 36% 71% 78% 76% 78% 78% 78% 78% 76% 0% 68% 76% 36% 76% 76% 76% 77% 81%	Total N of Transdermal Fentanyl Episodes  8 0 0 0 1 1 1 1 4 4 4 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0	N with Prior Tolerance 5 0 0 0 1 1 0 3 3 1 1 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0% 0% 100% 0% 75% 50%	Total N of Transdermal Fentanyl Episodes  3,507  4  8  77  290 686 1,276 1,166 1,839 1,668 94 98 87 79 88 84 75 86 67 72	N with Prior Tolerance  2,603	% with Prior Tolerance 7/2 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
Age (years) 0 - 11 12 - 1 18 - 2 18 -	1- 11 years 2 - 17 years 2 - 17 years 2 - 17 years 8 - 24 years 5 - 34 years 5 - 34 years 5 - 34 years 5 - 54 years 5 - 54 years 5 - 54 years 6 - 64 years 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Fentanyl Episodes  18,527  7  32  380  1,614  3,502  6,358  6,634  8,727  9,800   412  414  424  423  368  409  376  348  396  433  366  379  359  325  331  307  326  340  342	Prior Tolerance  14,686 3 177 277 1,331 2,886 5,038 7,004 7,682 - 313 346 348 337 2699 311 294 285 312 292 287 295 269 241 260 240 250 272	Prior Tolerance  79% 43% 53% 73% 82% 82% 79% 77% 80% 76% 84% 82% 80% 76% 74% 82% 79% 74% 78% 78% 74% 74% 75% 74% 75%	Fentanyl   Episodes	Prior Tolerance  8	Prior Tolerance 36% 0% 0% 0% 50% 36% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Fentanyl Episodes  5,118  99  523 1,011 1,785 2,510 2,608 145 118 112 108 101 111 89 97 95 100	Prior Tolerance  3,944  1  4 70  409 771 1,396 1,293 1,966 1,978 98 90 80 88 74 83 62 75 81	Prior Tolerance  77% 50% 36% 71% 78% 76% 78% 77% 6% 77% 81% 75% 75% 75% 75% 75% 75% 75% 77%	Fentanyi Episodes  8  0  0  1  1  1  4  2  4  4  0  0  0  0  0  0  0  0  0  0  0	Prior Tolerance 5 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	Prior Tolerance 63% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Fentanyi Episodes  3,507  4  8  77  290  686  1,276  1,166  1,839  1,668  94  98  79  88  84  475	Prior Tolerance  2,603	Prior Tolerance 7/4 66 80 76 77 76 77 66 77 66 77 74 88
Age (years) 0 - 11 12 - 1 18 - 2 25 - 3 35 - 4 45 - 5 55 - 6  Gender Male Feman Ambi Unkn Jan 24 May: Jun 22 May: Jun 22 Jun 22 May: Jun 24 Jun 24 Jun 26 Jun 26 Jun 27 Jun 27 Jun 29 Jun 20 Ju	1- 11 years 2 - 17 years 2 - 17 years 2 - 17 years 8 - 24 years 5 - 34 years 5 - 34 years 5 - 34 years 5 - 54 years 5 - 54 years 5 - 54 years 6 - 64 years 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	18,527 7 32 380 1,614 3,502 6,358 6,634 8,727 9,800 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 342	3 17 277 1,331 2,886 5,038 5,134 7,004 7,682	43% 53% 73% 82% 82% 79% 77% 80% 76% 84% 82% 80% 75% 78% 82% 79% 75% 75% 75% 75% 75% 75%	22 1 0 1 2 4 11 3 11 11 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0% 0% 0% 50% 36% 67% 55% 18% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	5,118 2 11 99 523 1,011 1,785 1,687 2,510 2,680 145 118 112 108 101 111 89 97 95 100	1 4 70 409 771 1,396 1,293 1,966 1,978 90 80 88 74 83 662 75 81	50% 36% 71% 78% 76% 78% 76% 0% 68% 76% 71% 81% 73% 75% 75% 75% 77%	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 3 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0% 0% 100% 50% 75% 50% 75% 0% 0% 0% 0% 0% 0%	3,507 4 8 77 290 686 1,276 1,166 1,839 1,668 - - 94 98 79 88 84 75 86	3 48 231 518 960 843 1,404 1,199 - - - - - - - 55 75 52 68 62 66 66 63	62 88 76 75 72 76 65 77 66 77 74
12 - 1 18 - 2 25 - 3 35 - 4 45 - 5 55 - 6 Gender Male Fema Ambib Unkn Jan 24 Month and Year of Feb 2 Feb 2 Mar 2 May 3 Jun 21 Jun 20 Ju	2 - 17 years 8 - 24 years 5 - 34 years 5 - 34 years 5 - 44 years 5 - 64 years 5 - 64 years 6 - 64 years 10 - 64 ye	32 380 1,614 3,502 6,358 6,634 8,727 9,800 - - 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	17 277 1,331 2,886 5,038 5,134 7,004 7,682 - 313 346 348 337 269 311 294 285 312 287 295 269 241 260 240 250 272	53% 73% 82% 82% 82% 79% 77% 80% 78% 0% 76% 84% 82% 80% 76% 78% 82% 79% 74% 78% 78% 75% 74% 79% 78%	0 1 2 4 11 3 11 11 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1	0 0 0 0 2 2 4 4 2 2 0 0 0 0 0 0 0 0 0 0	0% 0% 0% 50% 50% 18% 67% 55% 18% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100%	111 99 523 1,011 1,785 1,687 2,510 2,608 	4 70 409 771 1,396 1,966 1,978 - - - 9 80 88 74 83 62 75 81	36% 71% 78% 76% 78% 77% 78% 66% 71% 81% 73% 75% 70% 77%	0 0 0 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0% 100% 0% 75% 50% 75% 0% 0% 0% 0%	8 77 290 686 1,276 1,166 1,839 1,668 - - - 94 98 79 88 84 47 5	48 231 518 9600 843 1,404 1,199 - - - 65 75 52 68 62 66 63	38 62 80 76 75 77 77 66 77 76 88
18 - 2 25 - 3 35 - 4 45 - 5 55 - 6  Gender Male Fema Ambi Unkn Jan 21  Month and Year of Feb 2 Fejisode Start Date May 2 Jul 2C Aug 2 Sep 2 Oct 2 Nov 2 Jan 21 Jul 2C Aug 2 Sep 2 Jan 21 Jul 2C Aug 2 Sep 2 Jan 21 Jul 2C Aug 2 Sep 2 Oct 2 Jan 21 Jul 2C Aug 2 Sep 2 Oct 2 Jan 21 Jul 2C Aug 2 Sep 2 Oct 2 Jan 21 Jul 2C Aug 2 Sep 2 Oct 2 Jan 21 Jul 2C Aug 2 Sep 2 Oct 2 Nov 2 Jul 2C Aug 2 Sep 2 Oct 2 Jul 2C Aug 2 Sep 2 Oct 2 Jul 2C Aug 2 Jul 2C Jul	8 - 24 years 5 - 34 years 5 - 34 years 5 - 44 years 5 - 44 years 5 - 64 years 6 - 5 - 54 years 6 - 64 years 7	380 1,614 3,502 6,358 6,634 8,727 9,800 - - - 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	277 1,331 2,886 5,038 5,134 7,004 7,682 - 313 346 348 337 269 311 294 285 312 287 295 269 241 260 240 250 272	73% 82% 82% 79% 77% 80% 78% 0% 76% 84% 82% 80% 73% 75% 75% 75% 74% 75% 74% 75%	1 2 4 4 111 3 11 11 10 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 4 4 2 2 6 6 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 50% 50% 36% 67% 55% 18% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100%	99 523 1,011 1,785 1,687 2,510 2,608 1415 1118 112 108 101 1111 89 97 95	70 409 771 1,396 1,293 1,966 1,978 - - - 98 90 80 88 74 83 62 75 81	71% 78% 76% 78% 77% 78% 6% 0% 68% 71% 81% 73% 75% 75% 75% 75% 75% 75%	0 1 1 1 4 4 4 4 4 4 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 3 3 1 1 3 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 100% 0% 75% 50% 0% 0% 0% 0% 0% 0% 0% 0%	77 290 686 1,276 1,166 1,339 1,668 94 98 79 88 84 47 75 86	48 231 518 9600 843 1,404 1,199 - - - 65 75 52 68 62 66 63	62 80 76 72 76 77 0 65 77 77 88
35 - 4 45 - 5 55 - 6 Gender Male Fema Ambig Unkn Jan 24 Month and Year of Feb 2 Feisode Start Date May 2 Jun 22 Jun 24 Ju	5 - 44 years 5 - 54 years 5 - 54 years 5 - 54 years 5 - 64 years Adale emaile imbiguous Inknown an 2009 eb 2009 pyr 2009 un 2009 un 2009 un 2009 un 2009 un 2009 un 2009 eb 2009 pyr 2009 hay 2009 eb 2009 hay 2009 eb 2009 hay 2010 hay 2010 hay 2010 hay 2010 hay 2010	3,502 6,358 6,634 8,727 9,800 - - 4112 414 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340	2,886 5,038 5,134 7,064 7,682	82% 79% 77% 80% 78% 0% 0% 76% 84% 82% 73% 76% 78% 82% 75% 74% 78% 78% 78%	4 111 3 111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 2 2 6 6 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50% 36% 67% 55% 18% 0% 0% 0% 0% 0% 0% 0% 0%	1,011 1,785 1,687 2,510 2,608 145 118 112 108 101 111 89 97 95 100	771 1,396 1,293 1,966 1,978 98 90 80 88 74 83 62 75 81	76% 78% 77% 78% 76% 0% 68% 71% 81% 73% 75% 70% 77%	1 1 4 4 2 2 4 4 4 4 4 0 0 0 0 0 0 0 0 0 0 0	0 3 3 1 1 3 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 75% 50% 75% 50% 0% 0% 0% 0% 0% 0% 0% 0%	686 1,276 1,166 1,839 1,668 - - - - 94 98 79 88 84 75 86	518 960 843 1,404 1,199 - - - - - - - - - - - - - - - - - -	76 75 72 76 72 0 0 0 65 77 66 77 74
45 - 5 55 - 6 55 - 6 55 - 6 55 - 6 55 - 6 55 - 6 Femal Ambil Unkn Jan 24 May: Jun 22 Jun 22 Jun 22 Jun 22 Jun 24 Jun 24 Jun 24 Jun 24 Jun 24 Jun 25 Jun 26 Jun 26 Jun 27 Jun 27 Jun 27 Jun 27 Jun 27 Jun 28 Jun 29 Jun 20 J	5 - 54 years 5 - 64 years 15 - 64 years Aale emale mibiguous Jinknown an 2009 eb 2009 Alar 2009 July 2009 un 2009 un 2009 un 2009 bot 2009	6,358 6,634 8,727 9,800 - - - - - - - - - - - - - - - - - -	5,038 5,134 7,004 7,682 - - - 313 346 348 337 269 311 294 322 287 295 269 241 260 240 250 272	79% 77% 80% 78% 0% 0% 76% 84% 82% 80% 73% 76% 78% 82% 75% 74% 78% 75% 74% 75% 74%	111 3 111 100 00 22 00 00 00 00 00 00 00 01	4 2 2 6 6 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36% 67% 55% 18% 0% 0% 0% 0% 0% 0% 0% 0% 0%	1,785 1,687 2,510 2,608 - - - 145 118 111 108 101 111 89 97 95 100	1,396 1,293 1,966 1,978 - - 98 90 80 88 74 83 62 75	78% 77% 78% 76% 0% 0% 68% 76% 71% 81% 73% 75% 70%	4 2 2 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 1 1 3 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75% 50% 75% 50% 0% 0% 0% 0% 0% 0%	1,276 1,166 1,839 1,668 - - - 94 98 79 88 84 75	960 843 1,404 1,199 - - - - - - - - - - - - - - - - - -	75 72 76 72 66 77 66 77 74
SS - 6   Gender	55 - 64 years  Jale emale emale emale mmbiguous  Johnkoown an 2009 eb 2009 Jar 2009 Jar 2009 Jar 2009 Jar 2009 Jul 2009 Jul 2009 Lul 2009	6,634 8,727 9,800 - - 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	5,134 7,004 7,682 - 313 346 348 337 269 311 294 285 312 287 295 269 241 260 240 250 272	77% 80% 78% 0% 76% 84% 82% 80% 76% 78% 82% 79% 78% 78% 78% 78%	3 11 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67% 55% 18% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 100%	1,687 2,510 2,608	1,293 1,966 1,978 - - - 98 90 80 88 74 83 62 75 81	77% 78% 76% 0% 0% 68% 76% 71% 81% 73% 75% 70%	2 4 4 4 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	1 3 2 0 0 0 0 0 0 0 0 0 0	50% 75% 50% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	1,166 1,839 1,668 - - 94 98 79 88 84 75	843 1,404 1,199 - - - - - - - - - - - - - - - - - -	72 76 72 6 6 65 77 66 77 74
Sender   Male   Fema   Ambi   Unkn   Jan 2   Month and Year of   Feb 2   Episode Start Date   Mar 2   Jun 2	Male emale with graph of the control	8,727 9,800 - - 412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	7,004 7,682 - 313 346 348 337 269 311 294 285 312 287 295 269 241 260 240 250 272	80% 78% 0% 76% 84% 82% 80% 73% 76% 78% 82% 79% 74% 75% 74% 75% 74%	111 111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55% 18% 0% 0% 100% 0% 0% 0% 0% 0% 0%	2,510 2,608 - - 145 118 112 108 101 1111 89 97 95	1,966 1,978 - - 98 90 80 88 74 483 62 75 81	78% 76% 0% 0% 68% 76% 71% 81% 73% 75% 70%	4 4 0 0 0 1 1 0 0 0 0 0 0	3 2 0 0 0 0 0 0 0 0 0	75% 50% 0% 0% 0% 0% 0% 0% 0% 0% 0%	1,839 1,668 - - - 94 98 79 88 84 75	1,404 1,199 - - - 65 75 52 68 62 66 63	76 72 6 6 77 66 77 74 88
Ambil Unkn Jan 21 Month and Year of Feb 2 Episode Start Date Apr 2 May; Jun 20 Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 21 Jul 20 Aug 2 Au	unbiguous Inknown an 2009 eb 2009 day 2009 day 2009 day 2009 un 2009 ul 2009 ep 2009 ep 2009 ep 2009 ep 2009 ep 2009 an 2010 eb 2010 day 2010 day 2010 day 2010 day 2010	412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	313 346 348 337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	0% 0% 76% 84% 82% 80% 73% 76% 78% 82% 75% 74% 78% 78% 78%	0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0% 100% 0% 0% 0% 0% 0% 0%	145 118 112 108 101 111 89 97 95	98 90 80 88 74 83 62 75	0% 0% 68% 76% 71% 81% 73% 75% 70%	0 0 1 0 0 0 0 0	0 0 0 0 0 0 0	0% 0% 0% 0% 0% 0% 0%	94 98 79 88 84 75 86	65 75 52 68 62 66 63	65 77 66 77 74 88
Unkn   Jan 2    Jan 3    Jan	Inknown an 2009 eb 2009 dar 2009 dar 2009 un 2009 un 2009 un 2009 un 2009 un 2009 un 2009 an 2010 ebe 2009 an 2010 dar 2010 dar 2010 dar 2010 day 2010	412 414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340 340	313 346 348 337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	0% 76% 84% 82% 80% 73% 76% 78% 82% 79% 74% 78% 75% 74% 74% 74% 74% 74%	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100%	145 118 112 108 101 111 89 97 95	98 90 80 88 74 83 62 75	0% 68% 76% 71% 81% 73% 75% 70%	0 1 0 0 0 0 0 0	0 0 0 0 0 0	0% 0% 0% 0% 0% 0%	94 98 79 88 84 75 86	65 75 52 68 62 66 63	69 77 66 77 74 88
Jan 24  Month and Year of Feb 2  Apr 2  May: Jun 20  Aug 2  Sep 2  Oct 2  Jan 24  May: Jun 20	an 2009 eb 2009 dar 2009 ypr 2009 dar 2009 ypr 2009 un 2009 un 2009 ep 2009 ep 2009 ep 2009 ep 2009 dov 2009 dov 2009 dov 2009 dov 2009 dov 2009 dar 2010 eb 2010 dar 2010 dar 2010	414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340	346 348 337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	76% 84% 82% 80% 73% 76% 82% 79% 74% 78% 78% 75% 74% 79%	2 0 0 0 0 0 2 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% 0% 0% 0% 0% 0% 0% 0% 0%	118 112 108 101 111 89 97 95	90 80 88 74 83 62 75	68% 76% 71% 81% 73% 75% 70%	1 0 0 0 0 0 0	0 0 0 0 0	0% 0% 0% 0% 0% 0%	98 79 88 84 75 86	75 52 68 62 66 63	69 77 60 77 78 88 73
Annth and Year of Feb 2 pisode Start Date Mar 2 Apr 2 May 3 Jun 2 Jun 20 Cat 2 Nov 2 Dec 2 Jan 24 Jun 20 May 3 Jun 21 Jun 20 Aug 2 Apr 2 A	eb 2009 Aar 2009 Aar 2009 ppr 2009 Aary 2009 un 2009 un 2009 un 2009 un 2009 cet 2009 cet 2009 cet 2009 cet 2009 cet 2009 do 2009 do 2009 do 2010 dar 2010 dar 2010 day 2010	414 424 423 368 409 376 348 396 433 366 379 359 325 331 307 326 340	346 348 337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	84% 82% 80% 73% 76% 78% 82% 79% 78% 78% 75% 74% 79%	0 0 0 0 0 0 2 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0	0% 0% 0% 0% 0% 0% 0% 0%	118 112 108 101 111 89 97 95	90 80 88 74 83 62 75	76% 71% 81% 73% 75% 70%	0 0 0 0 0	0 0 0 0 0	0% 0% 0% 0% 0%	98 79 88 84 75 86	75 52 68 62 66 63	7 6 7 7. 8 8
Apr 2 Aug 2 Sep 2 Oct 2 Nov 2 Apr 2	Mar 2009  Alay 2009  May 2010  May 2010	423 368 409 376 348 396 433 366 379 359 325 331 307 326 340	337 269 311 294 285 312 322 287 295 269 241 260 240 250 272	80% 73% 76% 78% 82% 79% 74% 78% 75% 74% 79%	0 0 0 2 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 1	0% 0% 0% 0% 0% 0% 0%	108 101 111 89 97 95 100	80 88 74 83 62 75	81% 73% 75% 70% 77%	0 0 0 0	0 0 0	0% 0% 0% 0%	79 88 84 75 86	52 68 62 66 63	7' 74 81 7:
May : Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 2( Aug 2 Jan 2( Aug 2 Jan 2( Aug 2 Jun 2) Jun 20 Aug 3 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 2( Jun 20 Aug 2 Sep 2 Aug 2 Jun 20 Jun	May 2009 un 2009 ul 2009 ul 2009 ep 2009 oct 2009 lov 2009 lov 2009 an 2010 deb 2010 Apr 2010 May 2010	368 409 376 348 396 433 366 379 359 325 331 307 326 340 342	269 311 294 285 312 322 287 295 269 241 260 240 250 272	73% 76% 78% 82% 79% 74% 78% 75% 74% 79% 78%	0 0 2 0 0 0 1 0 0	0 0 0 0 0 0 1 0	0% 0% 0% 0% 0% 0%	101 111 89 97 95 100	74 83 62 75 81	73% 75% 70% 77%	0 0 0	0 0 0	0% 0% 0%	84 75 86	62 66 63	74 88 73
Jun 20 Aug 2 Sep 2 Oct 2 Jan 20 Jan 2	un 2009 ul 2009 ul 2009 up 2009 pep 2009 per 2009 per 2009 per 2009 per 2010	409 376 348 396 433 366 379 359 325 331 307 326 340 340	311 294 285 312 322 287 295 269 241 260 240 250 272	76% 78% 82% 79% 74% 78% 75% 74% 79%	0 2 0 0 0 1 0 0	0 0 0 0 0 1 0	0% 0% 0% 0% 0% 100%	111 89 97 95 100	83 62 75 81	75% 70% 77%	0	0	0% 0%	75 86	66 63	7:
Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 24 Feb 2 Mar 2 Apr	ul 2009  uug 2009  ep 2009  oct 2009  oce 2009  an 2010  deb 2010  Aar 2010  Aay 2010	376 348 396 433 366 379 359 325 331 307 326 340	294 285 312 322 287 295 269 241 260 240 250 272	78% 82% 79% 74% 78% 75% 74% 79%	2 0 0 1 0 0	0 0 0 0 1 0	0% 0% 0% 0% 100%	89 97 95 100	62 75 81	70% 77%	0	0	0%	86	63	7
Aug 2 Sep 2 Oct 2 Nov 2 Jan 20 Feb 2 Jan 20	Aug 2009  Det 2009  Dot 2009  Doec 2009  Dot 2010	348 396 433 366 379 359 325 331 307 326 340	285 312 322 287 295 269 241 260 240 250 272	82% 79% 74% 78% 78% 75% 74% 79%	0 0 0 1 0 0	0 0 0 1 0	0% 0% 0% 100%	97 95 100	75 81	77%	0					
Sep 2 Oct 2 Nov 2 Jan 2i Feb 2 Mar 3 Jun 2i	ep 2009 Oct 2009 Nov 2009 Dec 2009 an 2010 Deb 2010 Alar 2010 Alay 2010 Alay 2010	433 366 379 359 325 331 307 326 340	312 322 287 295 269 241 260 240 250 272	79% 74% 78% 78% 75% 74% 79%	0 1 0 0	0 1 0	0% 100%	100		85%						7
Nov 2 Dec 2 Jan 2( Feb 2 Mar 2 May 3 Jun 2: Jun 20 Aug 2 Oct 2 Nov 2 Jan 2( Jan 2) Jun 2: Jun	Nov 2009 Dec 2009 an 2010 Deb 2010 Ar 2010 Apr 2010 May 2010	366 379 359 325 331 307 326 340	287 295 269 241 260 240 250 272	78% 78% 75% 74% 79% 78%	1 0 0	1 0 0	100%		77		2	1	50%	72	49	6
Dec 2 Jan 20 Jan	Dec 2009 an 2010 eb 2010 Mar 2010 apr 2010 May 2010	379 359 325 331 307 326 340 342	295 269 241 260 240 250 272	78% 75% 74% 79% 78%	0 0 1	0		94		77%	0	0	0%	90	64	7
Jan 24 Feb 2 Mar 2 May 2 Jun 24 Sep 2 Oct 2 Nov 2 Jan 24 Jan 24 Jan 24 Jan 26 Jan 26 Jan 26 Jan 26 Jan 26 Jan 27 Jan 26 Jan 26 Jan 27 Jan 26 Jan 27 Jan 28 J	an 2010 eb 2010 Mar 2010 Apr 2010 May 2010	359 325 331 307 326 340 342	269 241 260 240 250 272	75% 74% 79% 78%	0 1	0	U%	440	78	83%	0	0	0%	77	57	7
Feb 2 Mar 2 May 3 Jun 2 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 2( Feb 2 Mar 3 Apr 2 May 3 Jun 2( Jun 20 J	eb 2010 Mar 2010 Apr 2010 May 2010	325 331 307 326 340 342	241 260 240 250 272	74% 79% 78%	1		0%	113 101	86 70	76% 69%	0	0	0% 0%	74 89	55 67	7
Apr 2 May: Jun 2: Jun 2: Aug 2 Oct 2 Nov 2 Jan 2: Aug 2 Jun 2: Jun 2: Aug 2 Jun 2: Jun 2: Jun 2: Aug 2	Apr 2010 √ay 2010	331 307 326 340 342	260 240 250 272	79% 78%		0	0%	84	60	71%	1	1	100%	60	43	7
May 2 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 20 Feb 2 Jan 21 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jun 20 Aug 2 Jun 20	/lay 2010	326 340 342	250 272			0	0%	113	86	76%	0	0	0%	62	43	6
Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 20 Aug 2 Aug		340 342	272		0		0%	100	84	84%	0	0	0%	67	53	7
Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 2i Feb 2 Apr 2 Apr 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Apr	un 2010	342		77%	0	0	0%	84	60	71%	0	0	0%	60	46	7
Aug 2 Sep 2 Oct 2 Nov 2 Jan 2 I Feb 2 Mar 3 Apr 2 May; Jun 2 I Sep 2 Oct 2 Nov 2 Jan 2 I Sep 2 Jan 2 I Jan 2 I Jan 2	ul 2010		276	80% 81%	0	0	0% 0%	77 92	61 69	79% 75%	0	0	0% 0%	49 55	42 44	8
Oct 2 Nov 2 Jan 20 Jan	ug 2010		258	79%	0		0%	98	72	73%	0	0	0%	71	57	8
Nov 2 Dec 2 Jan 24 Feb 2 Mar 7 Apr 2 May: Jul 26 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 24 Apr 2 May 3 Jul 26 Ju	ер 2010	343	271	79%	1	1	100%	93	78	84%	0	0	0%	70	51	7
Dec 2 Jan 20 Feb 2 Mar 2 Apr 2 Jun 20 Jul 20 Aug 2 Sep 2 Oct 2 Jul 20 Ju	oct 2010	340	278	82%	0	0	0%	95	77	81%	0	0	0%	58	50	8
Jan 20 Feb 2 Mar 2 May 2 May 2 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 20 Feb 2 Mar 2 Aug 2 Jun 20	lov 2010	326	269	83%	0	0	0% 0%	93	77	83%	0	0	0% 0%	63	49	7 5
Feb 2 Mar 2 Apr 2 May 2 Jun 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 20 Feb 2 Jan 20 Aug 2 Jan 20	an 2011	356 306	281 232	79% 76%	0		0%	78 112	61 78	78% 70%	0	0	0%	64 90	38 67	7
Apr 2 May 2 Jun 2i Jun 2i Jul 2C Aug 2 Sep 2 Oct 2 Nov 2 Jan 2i Feb 2 Mar 2 Apr 2 Jun 2i Jun 2i	eb 2011	277	217	78%	0	0	0%	96	76	79%	0	0	0%	66	49	7
May 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Jan 20 Feb 2 Mar 2 Apr 2 Jul 20	/ar 2011	338	270	80%	1	0	0%	94	78	83%	0	0	0%	79	57	7
Jun 20 Aug Z Aug Z Sep 2 Oct 2 Nov 2 Dec 2 Jan 20 Mar 2 Apr 2 Jun 20 Jun 20 Jun 20 Jun 20 Jun 20 Jun 20	pr 2011	322	244	76%	0		0%	86	67	78%	0	0	0%	52	38	7
Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Jec 2 Jan 21 Feb 2 Mar 2 Apr 2 Jul 20	May 2011	280	211	75%	0	0	0%	86	67 65	78%	0	0	0% 100%	52	34	6 7
Aug 2 Sep 2 Oct 2 Nov 2 Jan 21 Feb 2 Mar 2 Apr 2 Jun 20 Jun 20	un 2011 ul 2011	286 309	220 244	77% 79%	0	0	0% 0%	75 70	59	87% 84%	1	1 0	100%	41 48	31 39	8
Oct 2 Nov 2 Dec 2 Jan 24 Feb 2 Mar 2 Jan 2 Jun 2	ug 2011	322	256	80%	0	0	0%	78	58	74%	0	0	0%	45	39	8
Nov 2 Dec 2 Jan 2( Feb 2 Mar 2 Apr 2 Jan 2 Jan 2 Jan 2	ep 2011	310	253	82%	0	0	0%	78	63	81%	0	0	0%	42	31	7
Dec 2 Jan 21 Feb 2 Mar 2 Apr 2 Jan 2 Jul 20	Oct 2011	269	210	78%	2		0%	77	64	83%	0	0	0%	56	41	7
Jan 20 Feb 2 Mar 3 Apr 2 May 3 Jun 20 Jul 20	lov 2011	274	221	81%	0			77	59	77%	0	0	0%	47	34	7
Feb 2 Mar 2 Apr 2 May 2 Jun 2 Jul 20	ec 2011	286	236	83%	0	0	0%	72	52	72%	0	0	0%	59	48	8
Mar 2 Apr 2 May 2 Jun 2 Jul 20	an 2012 eb 2012	273 266	226 219	83% 82%	0		0% 0%	88 75	74 56	84% 75%	0	0	0% 0%	53 53	35 45	6
Apr 2 May 2 Jun 2 Jul 20	eb 2012 Mar 2012	282	219	82% 84%	0		0%	75 76	64	75% 84%	0	0	0%	53 48	45	8
Jun 20 Jul 20	pr 2012	277	221	80%	1		0%	86	66	77%	0	0	0%	48	37	7
Jul 20	/lay 2012	287	222	77%	1	0	0%	71	56	79%	0	0		52	39	7
	un 2012	234	193	82%	1		0%	60	49	82%	0	0	0%	49	39	8
Aug 2	ul 2012	307 284	245 225	80% 79%	0	0	0% 100%	87 89	64 68	74% 76%	0	0	0% 0%	37 51	22 39	:
Sep 2	ep 2012	284 254	213	79% 84%	1			89 77	64	83%	1	1	100%	38	39	
	oct 2012	251	202	80%	0		0%	69	57	83%	0	0	0%	47	32	
	lov 2012	296	211	71%	0		0%	90	60	67%	2	1	50%	62	43	6
	Dec 2012	261	209	80%	0		0%	54	34	63%	0	0		46	31	
	an 2013	254 212	202 180	80% 85%	2 2		50% 0%	87 56	62 46	71% 82%	0	0	0% 0%	42 44	31 36	:
		212	180	79%	0	0	0%	72	46 52	72%	0	0	0%	36	27	7
	eb 2013	226	183	81%	0		0%	68	54	79%	0	0	0%	37	29	:
May 2		250	205	82%	1	1	100%	65	56	86%	0	0	0%	42	27	
	eb 2013 Mar 2013	244	203	83%	0		0%	69	51	74%	0	0	0%	34	24	7
	eb 2013 Mar 2013 Apr 2013 May 2013 un 2013	239	192	80%	0	0	0%	78	67	86%	0	0	0%	43	30	7
	eb 2013 Mar 2013 Apr 2013 May 2013 un 2013		229 204	84% 83%	0		0% 0%	61 66	41 50	67% 76%	0	0	0% 0%	31 44	17 33	5
	eb 2013 Mar 2013 Mar 2013 May 2013 un 2013 ul 2013	272 245	204	83%	0	0	0%	67	50	75%	0	0	0%	44	35	-
Nov 2	eb 2013 Mar 2013 Apr 2013 May 2013 un 2013	272 245 242	197	78%	0			58	47	81%	0	0		47	31	6



		Do	se 112 mcg/	hr	Do	se 125 mcg/	hr	Do	ose 137 mcg/	'hr	Do	se 150 mcg/	hr	Do	se 162 mcg/	/hr
		Total N of	NIiah	0/iah	Total N of	Numb	9/ish	Total N of	NIiah	9/iah	Total N of	NIish	0/iah	Total N of	NI sudah	9/iala
		Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance												
	Total	3			137	94	69%	2	1	50%	172	124	72%	2	2	
Age (years)	0 - 11 years 12 - 17 years	0	0		1	1	0% 100%	-	-	0% 0%	1	-	0% 0%	-	-	09
	18 - 24 years	0	0		2	2	100%	-	-	0%	5	4	80%	1	1	100
	25 - 34 years	0			9	7	78%	-	-	0%	12	8	67%	-	-	0
	35 - 44 years 45 - 54 years	0	0		20 57	15 38	75% 67%	1	-	0% 0%	30 60	24 44	80% 73%	-	-	09
	55 - 64 years	2	2		48	31	65%	1	1	100%	64	44	69%	1	1	100
Gender	Male	1			69	46	67%	-	-	0%	95	75	79%	2	2	
	Female Ambiguous	2			- 68	48	71% 0%	2	- 1	50% 0%	77 -	49	64% 0%	-	-	09
	Unknown	0					0%		-	0%			0%	-		0
	Jan 2009	1			4	3	75%	-	-	0%	6	2	33%	-	-	09
Month and Year of Episode Start Date	Feb 2009 Mar 2009	0	0		3	2	67% 33%	-	-	0% 0%	2	2	100% 100%	-	-	09
Episode Start Date	Apr 2009	0			2	1	50%	-	-	0%	1	1	100%	_	-	05
	May 2009	0	0	0%	3	3	100%	-	-	0%	6	4	67%	-	-	09
	Jun 2009	0			2	2	100%	-	-	0%	7	6	86%	-	-	09
	Jul 2009 Aug 2009	0	0		1	1	100% 100%	-	-	0% 0%	3	1	33% 25%	-	-	09
	Sep 2009	0			-	-	0%	-	-	0%	5	4	80%	-	-	09
	Oct 2009	0	0		1	-	0%	-	-	0%	4	2	50%	-	-	09
	Nov 2009 Dec 2009	0	0		2	1	50% 50%	-	-	0% 0%	7	5 6	71% 86%	-	-	09
	Jan 2010	0			7	4	57%	-	-	0%	5	3	60%	_	-	0:
	Feb 2010	0	0	0%	6	3	50%	-	-	0%	5	4	80%	-	-	09
	Mar 2010	0	0		2	-	0%	-	-	0%	4	4	100%	-	-	09
	Apr 2010 May 2010	0	0		4	2	50% 50%	-	-	0% 0%	4	3	75% 75%	-	-	09
	Jun 2010	0	0		5	4	80%	_	_	0%	2	2	100%	_	-	0
	Jul 2010	0	0		1	1	100%	-	-	0%	5	4	80%	-	-	09
	Aug 2010 Sep 2010	0	0		2	1	50% 0%	-	-	0% 0%	2	1	50% 33%	-	-	09
	Oct 2010	0	0		3	3	100%	1	1	100%	3	3	100%	-	-	0:
	Nov 2010	0	0	0%	2	2	100%	-	-	0%	2	1	50%	-	-	0
	Dec 2010	0	0		1	1	100%	-	-	0%	4	2	50%		-	0
	Jan 2011 Feb 2011	0	0	0% 100%	3	1 2	33% 67%	-	-	0% 0%	4	3	75% 67%	1	1	100
	Mar 2011	0	0		2	2	100%	-	-	0%	2	1	50%	-	-	09
	Apr 2011	0			3	2	67%	-	-	0%	4	4	100%	-	-	09
	May 2011 Jun 2011	0	0		5 2	3 2	60% 100%	-	-	0%	2	2	100%	-	-	09
	Jul 2011 Jul 2011	0	0		2	-	0%	-	-	0% 0%	4	4	100%	-	-	09
	Aug 2011	0	0	0%	1	1	100%	-	-	0%	1	1	100%	-	-	09
	Sep 2011	0	0		4	3	75%	1	-	0%	3	3	100%	1	1	
	Oct 2011 Nov 2011	0			1	1	100%	-	-	0%	1	-	0%	-	=	09
	Dec 2011	0	0		3	2	0% 67%	-	-	0%	1	1	100% 100%	-	-	09
	Jan 2012	0	0		2	1	50%	-	-	0%	2	2	100%	-	-	0
	Feb 2012	0			2	2	100%	-	-	0%	5	4	80%	-	-	09
	Mar 2012	0	0		3	3	100%	-	-	0%	2	2	100%	-	-	09
	Apr 2012 May 2012	1 0	1 0		5 4	5 2	100% 50%	-	-	0% 0%	3	3	100%	-	-	09
	Jun 2012	0	0		-	-	0%	-	-	0%	2	1	50%	-	-	0
	Jul 2012	0			1	1	100%	-	-	0%	-	-	0%	-	-	0
	Aug 2012 Sep 2012	0			4	4	100% 100%	=	-	0% 0%	1 2	1	100% 50%	-	-	0'
	Oct 2012	0	0		2	2	100%	-	-	0%	2	2	100%	-	-	0
	Nov 2012	0			2	2	100%	-	-	0%	5	4	80%	-	-	0
	Dec 2012 Jan 2013	0	0		3 2	1	33%	-	-	0%	-	- 1	0%	-	-	0
	Jan 2013 Feb 2013	0			2	2	0% 67%	-	-	0% 0%	- 4	- 1	25% 0%	-	-	0
	Mar 2013	0	0		2	2	100%	-	-	0%	3	1	33%	-	-	0
	Apr 2013	0			-	-	0%	-	-	0%	3	3	100%	-	-	0
	May 2013 Jun 2013	0	0		1	1	100% 0%	÷	-	0% 0%	- 3	- 3	0% 100%	÷	-	C
	Jun 2013 Jul 2013	0	0		3	3	100%	-	-	0%	2	2	100%	-	-	0
	Aug 2013	0			2	2	100%	-	-	0%	3	1	33%	-	-	c
	Sep 2013	0	0		1	1	100%	=	=	0%	2	1	50%	=	=	0
	Oct 2013 Nov 2013	0			4	1	25% 100%	-	-	0% 0%	1	1 2	100% 67%	-	-	0
	Dec 2013	0			1	1	0%	-	-	0%	2	1	50%	-	-	0



		Quater	nary Tolerance	e Definition (>	0 mg for seven	days in the 3	0 days prior)			
		Do	se 175 mcg/	hr	Do	se 200 mcg/	'hr	Do	ose 225 mcg/	'hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	33	20	61%	4	3	75%	2	1	50%
Age (years)	0 - 11 years	-	-	0%	-	-	0%	-	-	0%
	12 - 17 years 18 - 24 years	1	1	100% 100%	-	-	0% 0%	-	-	0% 0%
	25 - 34 years	1	-	100%	-	-	0%	1	1	100%
	35 - 44 years	4	4	100%	3	2	67%	-	-	0%
	45 - 54 years	9	6	67%	1	1	100%	-	-	0%
	55 - 64 years	15	6	40%	-	-	0%	1	-	0%
Gender	Male Female	11 22	9 11	82% 50%	4	3	75% 0%	2	1	50% 0%
	Ambiguous	-	-	0%	-	-	0%	-	-	0%
	Unknown		-	0%	-	-	0%	-	-	0%
	Jan 2009	1	-	0%	-	-	0%	-	-	0%
Month and Year of		1	1	100%	-	-	0%	-	-	0%
Episode Start Date		1	1	100%	1	- 1	100%	-	-	0%
	Apr 2009 May 2009	-	-	100%	-	1	100%	-	-	0% 0%
	Jun 2009	-	-	0%	-	-	0%	-	-	0%
	Jul 2009	2	2	100%	-	-	0%	1	1	100%
	Aug 2009	-	-	0%	-	-	0%	-	-	0%
	Sep 2009	1	1	100%	-	-	0%	-	-	0%
	Oct 2009 Nov 2009	1	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Dec 2009	1	_	0%	-	-	0%	-	_	0%
	Jan 2010	_	-	0%	-	-	0%	-	_	0%
	Feb 2010	-	-	0%	-	-	0%	-	-	0%
	Mar 2010	1	1	100%	1	1	100%	-	-	0%
	Apr 2010	-	-	0%	-	-	0%	-	-	0%
	May 2010 Jun 2010	1	1	0% 100%	-	-	0% 0%	-	-	0% 0%
	Jul 2010	-	-	0%	-	-	0%	-	-	0%
	Aug 2010	1	1	100%	-	-	0%	-	_	0%
	Sep 2010	-	-	0%	-	-	0%	-	-	0%
	Oct 2010	1	1	100%	-	-	0%	-	-	0%
	Nov 2010	-	-	0%	-	-	0%	-	-	0%
	Dec 2010 Jan 2011	1	1	100%	-	-	0% 0%	-	-	0% 0%
	Feb 2011	2	1	50%	_	_	0%	_	_	0%
	Mar 2011	1	1	100%	-	-	0%	-	-	0%
	Apr 2011	1	-	0%	-	-	0%	-	-	0%
	May 2011	-	-	0%	-	-	0%	-	-	0%
	Jun 2011	2	1	50%	-	-	0%	-	-	0%
	Jul 2011 Aug 2011	1	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Sep 2011	2	1	50%	_	_	0%	_	_	0%
	Oct 2011	2	-	0%	-	-	0%	-	-	0%
	Nov 2011	-	-	0%	-	-	0%	-	-	0%
	Dec 2011	-	-	0%	-	-	0%	-	-	0%
	Jan 2012	-	-	0%	-	-	0%	-	-	0%
	Feb 2012	-	-	0%	-	-	0%	-	-	0%
	Mar 2012	1	1	100%	-	-	0%	-	-	0%
	Apr 2012 May 2012	1	-	0% 0%	-	-	0% 0%	-	-	0% 0%
	Jun 2012	-	-	0%	-	-	0%	-	-	0%
	Jul 2012	-	-	0%	-	-	0%	-	-	0%
	Aug 2012	-	-	0%	-	-	0%	-	-	0%
	Sep 2012	-	-	0%	-	-	0%	-	-	0%
	Oct 2012 Nov 2012	-	-	0% 0%	-	-	0% 0%	1	-	0% 0%
	Nov 2012 Dec 2012	-	-	0%	-	-	0%	-	-	0%
	Jan 2013	-	-	0%	-	-	0%	-	-	0%
	Feb 2013	1	-	0%	-	-	0%	-	-	0%
	Mar 2013	-	-	0%	-	-	0%	-	-	0%
	Apr 2013	-	-	0%	-	-	0%	-	-	0%
	May 2013 Jun 2013	1	-	0% 0%	- 2	1	0% 50%	-	-	0% 0%
	Jul 2013	-	-	0%	-	-	0%	-	-	0%
	Aug 2013	-	-	0%	_	-	0%	-	-	0%
	Sep 2013	1	1	100%	-	-	0%	-	-	0%
	Oct 2013	-	-	0%	-	-	0%	-	-	0%
	Nov 2013	-	-	0%	-	-	0%	-	-	0%
	Dec 2013	1	1	100%	-	-	0%	-	-	0%



				Primary Tole	rance Definition	(≥30 mg per da	y in the prior 7	consecutive days	)				
		D	ose 12 mcg/hi		D	ose 24 mcg/h	r	D	ose 25 mcg/hr	r	Do	ose 36 mcg/h	ır
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	17,812	5,093	28.6%	3	1	33%		18,322	37.3%		0	0
Age (years)	0 - 11 years	34	1	2.9%	-		0%	25	2	8.0%	0	0	0
	12 - 17 years	81	6	7.4%	-		0%		16	18.8%		0	C
	18 - 24 years	412	104	25.2%			0%		345	37.3%		0	(
	25 - 34 years 35 - 44 years	1,605 3,153	582 1,065	36.3% 33.8%	2	1	0% 50%		1,931 3,696	44.9% 41.5%		0	
	45 - 54 years	5,672	1,650	29.1%	-		0%		6,277	38.3%			
	55 - 64 years	6,855	1,685	24.6%	1		0%	18,492	6,055	32.7%			
iender	Male	5,595	1,675	29.9%	1	1	100%	20,233	7,836	38.7%	0	0	
	Female	12,217	3,418	28.0%	2		0%	28,915	10,486	36.3%	1	0	
	Ambiguous	-	-	0.0%	-		0%		-	0.0%			
	Unknown	0	0	0	0		0%		0	0	<u>_</u>		
Nonth and Year	Jan 2009	238	72	30.3%			0%		365	34.1%			
f Episode Start Pate	Feb 2009 Mar 2009	227 284	53 76	23.3% 26.8%			0%		346 369	34.9% 34.4%		0	
	Apr 2009	251	57	22.7%			0%		388	33.8%		0	
	May 2009	283	73	25.8%			0%		386	37.2%		0	
	Jun 2009	300	72	24.0%			0%	1,080	368	34.1%	0	0	
	Jul 2009	267	73	27.3%			0%	966	335	34.7%	0	0	
	Aug 2009	284	74	26.1%			0%	946	307	32.5%	0	0	
	Sep 2009	318	89	28.0%			0%	1,007	357	35.5%	0	0	
	Oct 2009	278	78	28.1%			0%		328	34.6%		0	
	Nov 2009	244	71	29.1%			0%		294	32.7%		0	
	Dec 2009	261	74	28.4%			0%		363	37.4%		0	
	Jan 2010 Feb 2010	245 254	59 84	24.1% 33.1%			0% 0%		292 282	33.1% 35.7%		0	
	Mar 2010	254	79	27.9%			0%		317	37.2%			
	Apr 2010	289	79	27.5%			0%		331	34.6%		0	
	May 2010	261	84	32.2%			0%		342	40.5%			
	Jun 2010	285	81	28.4%			0%		341	38.6%		0	
	Jul 2010	239	68	28.5%			0%	837	333	39.8%	0	0	
	Aug 2010	270	77	28.5%			0%	871	310	35.6%	0	0	
	Sep 2010	320	96	30.0%	-		0%	908	348	38.3%	0	0	
	Oct 2010	313	74	23.6%	-		0%	843	312	37.0%		0	
	Nov 2010	306	91	29.7%			0%		334	37.6%		0	
	Dec 2010	307	90	29.3%			0%		321	40.3%		0	
	Jan 2011 Feb 2011	264 279	69 66	26.1% 23.7%			0%		284 246	36.7% 36.5%		0	
	Mar 2011	279	82	23.7%			0%		331	39.2%		0	
	Apr 2011	307	97	31.6%			0%		324	39.9%		0	
	May 2011	299	84	28.1%			0%		286	36.0%		0	
	Jun 2011	316	85	26.9%			0%	777	311	40.0%	0	0	
	Jul 2011	294	82	27.9%			0%	728	263	36.1%	0	0	
	Aug 2011	328	112	34.1%			0%	820	290	35.4%	0	0	
	Sep 2011	307	90	29.3%			0%	795	300	37.7%	0	0	
	Oct 2011	279	87	31.2%			0%	768	308	40.1%	0	0	
	Nov 2011	306	100	32.7%	-		0%	718	293	40.8%	0	0	
	Dec 2011	323	96	29.7%			0%	747	283	37.9%	0	0	
	Jan 2012	298	87	29.2%			0%		301	38.8%		0	
	Feb 2012	269	68	25.3%	-		0%		236	33.9%			
	Mar 2012	307	88	28.7%			0%		271	36.7%		0	
	Apr 2012	316	96	30.4%	-		0%		302	37.6%			
	May 2012 Jun 2012	389 293	107 82	27.5% 28.0%			0%		313 263	39.8% 38.5%		0	
	Jun 2012 Jul 2012	293 315	96	30.5%			0%		263	38.5%			
	Aug 2012	324	116	35.8%			0%		328	38.3%			
	Sep 2012	290	76	26.2%			0%		264	37.4%			
	Oct 2012	330	100	30.3%	-		0%		325	43.1%		0	
	Nov 2012	332	85	25.6%	-		0%	775	261	33.7%	0	0	
	Dec 2012	316	84	26.6%	-		0%		266	39.9%		0	
	Jan 2013	296	93	31.4%	-		0%		242	37.2%			
	Feb 2013	275	81	29.5%			0%		281	41.6%			
	Mar 2013	274	95	34.7%	-		0%		256	40.5%			
	Apr 2013	327 293	112 85	34.3% 29.0%	-		0%		284	39.2%			
	May 2013 Jun 2013	293 306	85	29.0% 27.1%	1		0%		303 278	40.2% 39.7%		0	
	Jun 2013 Jul 2013	306	99	27.1%	1		0%		2/8	39.7%		0	
	Aug 2013	358	108	30.2%			0%		314	40.3%			
	Sep 2013	323	85	26.3%			0%		269	39.2%		0	
	Oct 2013	366	107	29.2%	1	1	100%		307	39.2%			
	Nov 2013	344	96	27.9%	1		0%		272	38.7%			
	Dec 2013	325	91	28.0%	0		0%		252	36.7%			



Table 2a: Counts of Transdermal Fentanyl Episodes and Proportions of Transdermal Fentanyl Episodes with Prior Tolerance with a 91-day Washout Period and a Primary Definition in the Mini-Sentinel Distributed Database (MSDD) from January 1, 2009 to December 31, 2013

			e 37 mcg/l	nr		se 50 mcg/h	ır		se 62 mcg/l	ır		se 75 mcg/h	ır		se 87 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	339	174	51%	21,245	10,088	47%	26	7	27%	6,215	3,197	51%	14	4	299
Age (years)	0 - 11 years	1	-	0%	8	3	38%	1	-	0%	3	-	0%	-	-	09
	12 - 17 years 18 - 24 years	2	3	0% 33%	37 423	11 182	30% 43%	2	-	0% 0%	14 121	4 61	29% 50%	-	-	09
	25 - 34 years	27	16	59%	1,911	1,051	55%	2	-	0%	614	355	58%	2	2	
	35 - 44 years	71	35	49%	4,031	2,108	52%	6	2	33%	1,229	649	53%		-	09
	45 - 54 years 55 - 64 years	99 130	51 69	52% 53%	7,320 7,515	3,506 3,227	48% 43%	11	3	27% 50%	2,201 2,033	1,141 987	52% 49%	6 5	2	339
Gender	Male	145	77	53%	9,916	4,945	50%	13	6	46%	2,974	1,629	55%		2	
	Female	194	97	50%	11,329	5,143	45%	13	1	8%	3,241	1,568	48%	8	2	
	Ambiguous Unknown	-	-	0% 0%	-	-	0% 0%	-	-	0% 0%	-	-	0%		-	09
	Jan 2009	6	3	50%	490	217	44%	2	2	100%	189	79	42%	1	-	09
Month and Year of	Feb 2009	9	4	44%	484	231	48%	-	-	0%	152	73	48%	-	-	09
Episode Start Date		5	3	60%	492	236	48%	-	-	0%	140	67	48%	-	-	09
	Apr 2009 May 2009	4	1 5	25% 83%	532 470	265 213	50% 45%	-	-	0% 0%	147 146	80 69	54% 47%	-	-	09
	Jun 2009	8	6	75%	496	215	43%	-	-	0%	138	64	46%	1	-	09
	Jul 2009	8	2	25%	440	196	45%	2	-	0%	112	53	47%	1	1	1009
	Aug 2009	3	1	33%	398	182	46%	-	-	0%	129	66	51%		-	09
	Sep 2009 Oct 2009	5 1	3 1	60% 100%	457 486	210 215	46% 44%	1	-	0% 0%	108 123	69 60	64% 49%	2	-	09
	Nov 2009	8	4	50%	402	185	46%	1	1	100%	108	56	52%	-	-	09
	Dec 2009	8	4	50%	429	191	45%	-	-	0%	135	67	50%	1	-	09
	Jan 2010	6	-	0%	406	177	44%	-	-	0%	120	54	45%	-	-	09
	Feb 2010 Mar 2010	9	7	78% 38%	362 354	159 153	44% 43%	1	-	0% 0%	100 132	46 67	46% 51%	1	-	09
	Apr 2010	4	2	50%	368	166	45%	-	-	0%	122	66	54%	-	-	09
	May 2010	6	2	33%	388	172	44%	-	-	0%	109	49	45%	1	-	09
	Jun 2010	7	3	43%	402	195	49%	1	-	0%	103	55	53%	-	-	09
	Jul 2010	5	3	60% 67%	371 363	196 170	53% 47%	-	-	0% 0%	98 116	45 58	46% 50%	-	-	09
	Aug 2010 Sep 2010	2	2	100%	373	176	47%	1	1	100%	105	62	59%	-	-	09
	Oct 2010	5	3	60%	383	193	50%	-	-	0%	115	60	52%	-	-	09
	Nov 2010	8	4	50%	353	175	50%	-	-	0%	102	61	60%	1	-	09
	Dec 2010 Jan 2011	3	1	33% 100%	404 346	178 148	44% 43%	1	1	0% 100%	90 138	50 63	56% 46%	-	-	09
	Feb 2011	3	2	67%	305	166	54%	-	-	0%	109	64	59%	-	-	09
	Mar 2011	9	5	56%	371	192	52%	-	-	0%	103	65	63%	-	-	09
	Apr 2011	10	9	90%	386	175	45%	-	-	0%	124	67	54%	-	-	09
	May 2011 Jun 2011	4	2	50% 50%	346 344	158 144	46% 42%	1	-	0% 0%	98 96	53 54	54% 56%	1	-	09
	Jul 2011	4	2	50%	350	170	49%	-	-	0%	80	51	64%	-	-	09
	Aug 2011	5	2	40%	342	157	46%	-	-	0%	94	41	44%	-	-	09
	Sep 2011	6	3	50%	337	161	48%	-	-	0%	87	47	54%	-	-	09
	Oct 2011	3	2	67%	306	143	47%	2	-	0%	86	51	59%	-	-	09
	Nov 2011 Dec 2011	7 5	2	29% 80%	300 312	155 146	52% 47%	-	-	0% 0%	85 88	46 42	54% 48%		-	09
	Jan 2012	3	2	67%	310	148	48%	-	-	0%	108	54	50%		-	09
	Feb 2012	7	3	43%	300	161	54%	1	-	0%	86	51	59%		-	09
	Mar 2012	7	4	57%	314	157	50%	-	-	0%	84	47	56%		-	09
	Apr 2012	7	3	43%	359	184	51%	1	-	0%	118	56	47%		1	1009
	May 2012 Jun 2012	8	5 2	63% 50%	363 299	189 141	52% 47%	1	-	0% 0%	98 82	52 45	53% 55%		-	09
	Jul 2012	5	2	40%	331	170	51%	-	-	0%	103	52	50%		-	09
	Aug 2012	2	1	50%	297	147	49%	1	-	0%	102	59	58%	-	-	09
	Sep 2012	5	4	80%	283	135	48%	1	-	0%	89 83	47	53%		1	1009
	Oct 2012 Nov 2012	3 6	1	33% 50%	285 336	127 157	45% 47%	-	-	0% 0%	105	45 48	54% 46%	2	1	509
	Dec 2012	9	3	33%	286	156	55%	-	-	0%	64	26	41%		-	09
	Jan 2013	5	3	60%	302	146	48%	2	1	50%	103	43	42%	-	-	09
	Feb 2013	3	2	67% 75%	246 248	131 123	53% 50%	2	-	0%	64 80	35 40	55% 50%		-	09
	Mar 2013 Apr 2013	4 11	3	75% 36%	248 280	123 137	50% 49%	-	-	0% 0%	80 93	40	50% 46%	-	-	09
	May 2013	9	5	56%	307	152	50%	1	1	100%	83	46	55%	=	-	09
	Jun 2013	5	3	60%	288	135	47%	-	-	0%	89	49	55%		-	09
	Jul 2013	9	5	56%	272	134	49%	-	-	0%	88	48	55%		-	09
	Aug 2013 Sep 2013	7 5	2	29% 60%	300 276	146 131	49% 47%	1	-	0% 0%	75 75	29 38	39% 51%		-	09
	Oct 2013	4	1	25%	274	145	53%	-	-	0%	78	45	58%		-	09
	Nov 2013	7	1	14%	265	125	47%	-	-	0%	71	42	59%	_	_	09



			e 100 mcg/	hr		se 112 mcg,	/hr		se 125 mcg/	hr		se 137 mcg/	/hr		se 150 mcg/i	nr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	4,524	2,410	53%	Episodes 5	4	80%	179	88	49%	2	1	50%	233	119	51
Age (years)	0 - 11 years	6 9	- 2	0% 22%	-	-	0% 0%	- 1	-	0% 0%	-	-	0% 0%	0	0	0
	12 - 17 years 18 - 24 years	91	43	47%	-	-	0%	2	2	100%	-	-	0%	5	4	80
	25 - 34 years	375	226	60%	-	-	0%	10	8	80%	-	-	0%	13	6	46
	35 - 44 years	870	492	57%	1	1	100%	30	15	50%	-	-	0%	37	22	59
	45 - 54 years 55 - 64 years	1,644 1,529	892 755	54% 49%	1	1	100% 67%	72 64	33 30	46% 47%	1	- 1	0% 100%	88 88	45 42	51 48
Gender	Male	2,316	1,323	57%	2	2		83	43	52%	-	-	0%	125	70	56
	Female	2,208	1,087	49%	3	2	67%	96	45	47%	2	1	50%	108	49	45
	Ambiguous	-	-	0%	-	-	0%	-	-	0%	-	-	0%	0	0	(
	Jan 2009	131	- 56	0% 43%	1	1	100%	- 5	3	60%	-		0%	7	3	43
Month and Year of		132	69	43% 52%	-	-	0%	5	1	20%	-	-	0%	3	2	67
pisode Start Date		101	48	48%	-	-	0%	4	1	25%	-	-	0%	2	1	50
	Apr 2009	120	66	55%	-	-	0%	5	3	60%	-	-	0%	7	3	43
	May 2009	122	57	47%	-	-	0%	4	3	75%	-	-	0%	8	5	6:
	Jun 2009 Jul 2009	107 114	64 57	60% 50%	-	-	0% 0%	4	3 1	75% 100%	-	-	0% 0%	9	6	6
	Jul 2009 Aug 2009	98	49	50%	-	-	0%	3	1	33%	-	-	0%	5	0	3
	Sep 2009	89	42	47%	-	-	0%	1	-	0%	-	-	0%	5	3	6
	Oct 2009	108	58	54%	-	-	0%	2	-	0%	-	-	0%	6	2	3
	Nov 2009	93	50	54%	-	-	0%	3	2	67%	-	-	0%	7	5	7
	Dec 2009 Jan 2010	96 115	52 63	54%	-	-	0% 0%	5 10	2	40% 20%	-	-	0% 0%	7	5	7
	Feb 2010	74	35	55% 47%	-	-	0%	6	1	17%	-	-	0%	5	3	4
	Mar 2010	71	38	54%	-	-	0%	3	-	0%	-	-	0%	5	3	6
	Apr 2010	98	64	65%	-	-	0%	3	1	33%	-	-	0%	6	5	8
	May 2010	75	44	59%	-	-	0%	2	1	50%	-	-	0%	5	3	6
	Jun 2010	71	47	66%	-	-	0%	6 4	3	50%	-	-	0%	5 6	2	4
	Jul 2010 Aug 2010	66 86	41 52	62% 60%	1	-	0% 0%	3	1	75% 33%	-	-	0% 0%	3	0	0
	Sep 2010	84	47	56%	-	-	0%	1	-	0%	-	-	0%	3	0	
	Oct 2010	75	53	71%	-	-	0%	7	6	86%	1	1	100%	5	4	8
	Nov 2010	70	37	53%	-	-	0%	2	2	100%	-	-	0%	3	2	6
	Dec 2010 Jan 2011	77 115	35	45%	-	-	0% 0%	1	1	100% 33%	-	-	0% 0%	4 5	2	5
	Feb 2011	77	59 45	51% 58%	1	1	100%	2	-	0%	-	-	0%	3	1	4
	Mar 2011	101	56	55%	-	-	0%	3	1	33%	-	-	0%	4	1	2
	Apr 2011	70	31	44%	-	-	0%	5	2	40%	-	-	0%	7	4	5
	May 2011	69	38	55%	-	-	0%	5	1	20%	-	-	0%	4	1	2
	Jun 2011 Jul 2011	59 53	31 28	53% 53%	-	-	0% 0%	2	1	50% 0%	-	-	0% 0%	0	0	10
	Aug 2011	52	34	65%	-	-	0%	1	1	100%	-	-	0%	1	1	10
	Sep 2011	55	31	56%	-	-	0%	4	2	50%	1	-	0%	5	4	8
	Oct 2011	68	37	54%	-	-	0%	2	2	100%	-	-	0%	1	0	
	Nov 2011	62	29	47%	-	-	0%	1	1	100%	-	-	0%	2	1	5
	Dec 2011	73	41	56%	-	-	0%	4	2	50%	-	-	0%	2	2	10
	Jan 2012	69	35	51%	-	-	0%	3	2	67%	-	-	0%		2	6
	Feb 2012	60	37	62%	-	-	0%	2	1	50%	=	-	0%	6	4	6
	Mar 2012 Apr 2012	61 74	35 37	57% 50%	1	1	0% 100%	3 5	3 5	100% 100%	-	-	0% 0%	2 6	1	5
	May 2012	74	43	56%	-	-	0%	4	-	0%	-	-	0%	0	0	-
	Jun 2012	64	37	58%	-	-	0%	2	2	100%	-	-	0%	6	1	1
	Jul 2012	52	22	42%	-	-	0%	1	1	100%	-	-	0%	0	0	
	Aug 2012 Sep 2012	61	39	64%	-	-	0% 0%	4	3 2	75% 100%	-	-	0% 0%	1 2	1	10
	Sep 2012 Oct 2012	48 60	26 23	54% 38%	-	-	0%	2	2	100% 50%	-	-	0%	2	1 2	10
	Nov 2012	77	39	51%	-	-	0%	2	2	100%	-	-	0%	5	2	4
	Dec 2012	54	23	43%	-	-	0%	3	1	33%	-	-	0%	1	0	
	Jan 2013	64	30	47%		-	0%	4	-	0%	-	-	0%	4	0	
	Feb 2013	52	27	52%	1	1		3	1	33%	-	-	0%	0	0	3
	Mar 2013 Apr 2013	40 59	21 30	53% 51%	-	-	0% 0%	2	1	50% 0%	-	-	0% 0%	3 5	1 2	3
	May 2013	54	30	56%	-	-	0%	1	1	100%	-	-	0%	3	1	
	Jun 2013	55	28	51%	-	-	0%	-	-	0%	-	-	0%	5	1	2
	Jul 2013	60	25	42%	-	-	0%	2	2	100%	-	-	0%	3	2	6
	Aug 2013	39	17	44%	-	-	0%	2	2	100%	-	-	0%	2	1	5
	Sep 2013 Oct 2013	52 56	25 35	48% 63%	-	-	0% 0%	1	1	0% 33%	-	-	0% 0%	3 1	1	10
	Nov 2013	57	30	53%	_	-	0%	1	1	100%	_	-	0%	3	2	6
	Dec 2013	52	32	62%	_	_	0%	1		0%	_	_	0%		2	



		Do	se 162 mcg/	hr	Do	se 175 mcg/	hr	Do	se 200 mcg/	hr	Do	se 225 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	2	1	50%	52	25	48%	5	3	60%	Episodes 4	0	09
Age (years)	0 - 11 years	0	0		0	0	0%	0		0%	0		09
	12 - 17 years	0	0		1	1	100%	0		0%	0		09
	18 - 24 years 25 - 34 years	1	0		3	3	100% 67%	0		0% 0%	0	0	09
	35 - 44 years	0	0		7	4		3		67%	1	0	09
	45 - 54 years	0	0		17	7		2		50%	0		09
	55 - 64 years	1	1	100%	21	8	38%	0	0	0%	2	0	09
Gender	Male	2			17	11	65%	5		60%	2		09
	Female Ambiguous	0	0		35 0	14 0	40% 0%	0		0% 0%	2		09
	Unknown	0	0		0	0		0		0%	0		
	Jan 2009	0	0		2	0		0		0%	0		
Month and Year of	Feb 2009	0	0	0%	2	1	50%	0	0	0%	0	0	09
Episode Start Date	Mar 2009	0	0		2	2		1		0%	1	0	09
	Apr 2009	0	0		4	4		1		100%	0		09
	May 2009 Jun 2009	0	0		1	1	100% 0%	0		0% 0%	0	0	09
	Jul 2009	0	0		2	0		0		0%	1	0	09
	Aug 2009	0	0		0	0		0		0%	0		09
	Sep 2009	0	0	0%	2	1	50%	0	0	0%	0	0	09
	Oct 2009	0	0		0	0	0%	0		0%	0		09
	Nov 2009	0	0		1	1	100%	0		0%	0		09
	Dec 2009	0	0		0	0		0		0%	0		09
	Jan 2010 Feb 2010	0	0		0	0	0% 0%	0		0% 0%	0		09
	Mar 2010	0	0		1	1	100%	1		100%	0		09
	Apr 2010	0	0	0%	0	0	0%	0	0	0%	0	0	09
	May 2010	0	0	0%	1	0	0%	0	0	0%	0	0	09
	Jun 2010	0	0		1	0		0		0%	0		09
	Jul 2010	0	0		0	0	0%	0		0%	0	0	09
	Aug 2010 Sep 2010	0	0		2	2	100% 0%	0		0% 0%	1	0	09
	Oct 2010	0	0		1	1	100%	0		0%	0		09
	Nov 2010	0	0		0	0		0		0%	0		09
	Dec 2010	0	0	0%	1	1	100%	0	0	0%	0	0	09
	Jan 2011	1	0	0%	1	0	0%	0	0	0%	0	0	09
	Feb 2011	0	0		2	1		0		0%	0		09
	Mar 2011	0	0		2	1	50% 0%	0		0%	0		09
	Apr 2011 May 2011	0	0		2	0		0		0% 0%	0		09
	Jun 2011	0	0		2	1	50%	0		0%	0		09
	Jul 2011	0	0	0%	0	0	0%	0	0	0%	0	0	09
	Aug 2011	0	0	0%	1	0	0%	0	0	0%	0	0	09
	Sep 2011	1	1	100%	3	1	33%	0		0%	0	0	09
	Oct 2011	0	0		2	0		0		0%	0		09
	Nov 2011	0	0		0	0		0		0%	0		
	Dec 2011	0	0		0	0				0%	0		
	Jan 2012 Feb 2012	0	0		0	0		0		0% 0%	0		
	Feb 2012 Mar 2012	0	0		1	0		0		0%	0		09
	Apr 2012	0	0		2	1	50%	0		0%	0		
	May 2012	0	0		1	1	100%	0		0%	0		
	Jun 2012	0	0		1	0		0		0%	0		09
	Jul 2012	0	0		0	0		0		0%	0		
	Aug 2012	0	0		0	0		0		0%	0		09
	Sep 2012 Oct 2012	0	0		0	0		0		0% 0%	0		0'
	Nov 2012	0	0		1	0		0		0%	1	0	
	Dec 2012	0	0		0	0		0		0%	0		
	Jan 2013	0	0		0	0		0		0%	0		0
	Feb 2013	0	0		1	0		0		0%	0		
	Mar 2013	0	0		1	1	100%	0		0%	0		01
	Apr 2013 May 2013	0	0		0	0	0% 100%	0		0% 0%	0		0
	May 2013 Jun 2013	0	0		1	0		2		0% 50%	0		
	Jul 2013 Jul 2013	0	0		0	0		0		0%	0		
	Aug 2013	0	0		0	0		0		0%	0		0
	Sep 2013	0	0		1	1	100%	0		0%	0		0
	Oct 2013	0	0		1	0		0		0%	0		0
	Nov 2013	0	0		0	0	0%	0	0	0% 0%	0	0	01



														_		
		D	ose 12 mcg/hi	r	ľ	Dose 24 mcg/h	nr	[	ose 25 mcg/hi	r	D	ose 36 mcg/l	hr	Dos	se 37 mcg/h	ır
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	17,812	8,518	47.8%	3			49,148	28,665	58.3%	1			339	233	
Age (years)	0 - 11 years 12 - 17 years	34 81	2 18	5.9% 22.2%	-	0		25 85	4 25	16.0% 29.4%					0	
	18 - 24 years	412	164	39.8%		0		925	494	53.4%						
	25 - 34 years	1,605	898	56.0%	-	0			2,845	66.2%		0			22	
	35 - 44 years 45 - 54 years	3,153 5,672	1,661 2,741	52.7% 48.3%	2	1		8,915 16,409	5,544 9,658	62.2% 58.9%					45 72	
	55 - 64 years	6,855	3,034	44.3%	1				10,095	54.6%						
Gender	Male	5,595	2,786	49.8%	1	1	100%	20,233	12,138	60.0%	0	0				
	Female	12,217	5,732	46.9%	2				16,527	57.2%					129	
	Ambiguous Unknown	0	0	0.0%	0	0			0	0.0%						
	Jan 2009	238	115	48.3%	-	0	0%	1,070	609	56.9%						
	Feb 2009	227	107	47.1%	-	0			576	58.1%					5	
Month and Year of Episode Start Date	Mar 2009 Apr 2009	284	128 108	45.1%	-	0			596	55.6%		0			5	
Episode Start Date	May 2009	251 283	136	43.0% 48.1%		0			618 603	53.9% 58.0%					2	
	Jun 2009	300	120	40.0%	-	a			624	57.8%					6	759
	Jul 2009	267	124	46.4%	-	0			539	55.8%					5	
	Aug 2009 Sep 2009	284 318	135 149	47.5% 46.9%		0			503 585	53.2% 58.1%					2	
	Oct 2009	278	136	48.9%		0		948	549	57.9%					1	
	Nov 2009	244	112	45.9%		0	0%	898	471	52.4%	0	0	0%	8	5	639
	Dec 2009	261	125	47.9%	-	0		970	562	57.9%					5	
	Jan 2010 Feb 2010	245 254	100 125	40.8% 49.2%		0			487 458	55.3% 58.0%					0 7	
	Mar 2010	283	123	43.5%		0			479	56.2%					6	
	Apr 2010	289	139	48.1%	-	0	0%	958	549	57.3%	0	0	0%	4	2	509
	May 2010	261	141	54.0%	-	0			528	62.5%					2	
	Jun 2010 Jul 2010	285 239	136 110	47.7% 46.0%		0		884 837	511 507	57.8% 60.6%					4	
	Aug 2010	270	124	45.9%		0			502	57.6%					2	
	Sep 2010	320	162	50.6%	-	0		908	557	61.3%					2	
	Oct 2010 Nov 2010	313 306	130 154	41.5% 50.3%	-	0		843 889	483 538	57.3% 60.5%					5 6	
	Dec 2010	307	147	47.9%		0		796	474	59.5%					2	
	Jan 2011	264	122	46.2%	-	0	0%	774	447	57.8%	0	0	0%	1	1	1009
	Feb 2011	279	122	43.7%	-	0		674	398	59.1%					3	
	Mar 2011 Apr 2011	292 307	132 156	45.2% 50.8%		0			516 473	61.1% 58.3%					6 9	
	May 2011	299	140	46.8%		0		795	438	55.1%					3	
	Jun 2011	316	154	48.7%	-	0			458	58.9%					2	
	Jul 2011	294	136 176	46.3%	-	0		728 820	419	57.6%					2	
	Aug 2011 Sep 2011	328 307	1/6	53.7% 48.5%		0		795	450 480	54.9% 60.4%					5	
	Oct 2011	279	145	52.0%		0			469	61.1%		0			2	
	Nov 2011	306	147	48.0%	-	0	0%	718	437	60.9%	0	0	0%	7	4	579
	Dec 2011	323	159	49.2%	-				436	58.4%						
	Jan 2012 Feb 2012	298	136 127	45.6%	-	0			464 384	59.8% 55.2%					2	
	Heb 2012 Mar 2012	269 307	146	47.2% 47.6%		0		696 738	384 441	55.2%					5	
	Apr 2012	316	152	48.1%	-	0			465	57.9%		0			3	
	May 2012	389	174	44.7%	-				476	60.6%					6	
	Jun 2012 Jul 2012	293 315	140 168	47.8% 53.3%	-	0			404 394	59.2% 58.6%					3	
	Aug 2012	324	172	53.1%		0			508	59.3%						
	Sep 2012	290	144	49.7%	-	0	0%	705	424	60.1%	0	0	0%		5	
	Oct 2012	330	161	48.8%	-	0			468	62.1%					1	
	Nov 2012 Dec 2012	332 316	160 156	48.2% 49.4%	-	0			435 394	56.1% 59.2%					3 5	
	Jan 2013	296	143	48.3%	-	0			383	58.9%					3	
	Feb 2013	275	136	49.5%	-	0			419	62.1%					3	1009
	Mar 2013	274	142	51.8%	-	0			382	60.4%					4	
	Apr 2013 May 2013	327 293	179 131	54.7% 44.7%	-	0		724 754	440 448	60.8% 59.4%					7 6	
	Jun 2013	306	140	45.8%	1				428	61.1%					4	
	Jul 2013	345	170	49.3%	-	0			434	60.4%					7	
	Aug 2013 Sep 2013	358 323	169 152	47.2% 47.1%		0			460 402	59.0% 58.5%					4	
	Sep 2013 Oct 2013	323 366	152	47.1%	1				402	58.5% 60.6%					3	
	Nov 2013	344	162	47.1%	1			702	418	59.5%					2	
	Dec 2013	325	156	48.0%	0	0	0%	686	390	56.9%	0	0	0%	6	5	83



				l			l									
		Dos	se 50 mcg/h	nr	Dos	e 62 mcg/h	ır	Do	se 75 mcg/h	ır	Dos	se 87 mcg/l	nr	Do	se 100 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	21,245	14,126	66%	26	8	31%	6,215	4,211	68%		7	50%	4,524	3,032	67%
Age (years)	0 - 11 years	8 37	3 17	38% 46%	1	0		3 14	- 4	0% 29%				6 9	1	179 339
	12 - 17 years 18 - 24 years	423	254	60%	2	0		121	76	63%				91	52	579
	25 - 34 years	1,911	1,387	73%	2	0	0%	614	443	72%	2	2	100%	375	284	769
	35 - 44 years	4,031	2,875	71%	6	2		1,229	857	70%				870	607	709
	45 - 54 years	7,320	4,882	67%	11 4	4		2,201	1,507	68%				1,644	1,121	68%
Gender	55 - 64 years Male	7,515 9,916	4,708 6,779	63% 68%	13	7	50% 54%	2,033 2,974	1,324 2,091	65% 70%				1,529 2,316	964 1,621	639 709
	Female	11,329	7,347	65%	13	1		3,241	2,120	65%				2,208	1,411	64%
	Ambiguous	-	-	0%	0	0		-	-	0%				-	-	09
	Unknown	-	-	0%	0	0		-		0%					-	09
	Jan 2009 Feb 2009	490 484	318 338	65% 70%	2	2		189 152	112 99	59% 65%				131 132	79 92	60% 70%
Month and Year of	Mar 2009	492	332	67%	0	0		140	85	61%				101	60	59%
Episode Start Date	Apr 2009	532	355	67%	0	0		147	104	71%				120	85	71%
	May 2009	470	290	62%	0	0		146	91	62%				122	76	62%
	Jun 2009	496	317	64%	0	0		138	93	67%				107	72	67%
	Jul 2009 Aug 2009	440 398	280 259	64% 65%	2	0	0% 0%	112 129	75 89	67% 69%				114 98	70 61	61% 62%
	Sep 2009	457	302	66%	0	0		108	82	76%				89	55	62%
	Oct 2009	486	297	61%	1	0	0%	123	83	67%			0%	108	73	68%
	Nov 2009	402	257	64%	1	1	100%	108	79	73%				93	60	65%
	Dec 2009	429	278	65%	0	0		135	90	67%		0		96	67	70%
	Jan 2010 Feb 2010	406 362	255 226	63% 62%	0	0		120 100	72 61	60% 61%				115 74	76 46	66% 62%
	Mar 2010	354	229	65%	0	0	0%	132	87	66%				71	44	62%
	Apr 2010	368	244	66%	0	0	0%	122	91	75%	0	0	0%	98	74	76%
	May 2010	388	250	64%	0	0	0%	109	66	61%	1	0	0%	75	54	72%
	Jun 2010	402	267	66%	1	0		103	77	75%			0%	71	53	75%
	Jul 2010 Aug 2010	371 363	255 239	69% 66%	0	0		98 116	64 76	65% 66%			0% 0%	66 86	51 62	77% 72%
	Sep 2010	373	249	67%	1	1	100%	105	78	74%		0	0%	84	59	70%
	Oct 2010	383	268	70%	0	0		115	78	68%		0		75	61	81%
	Nov 2010	353	243	69%	0	0		102	79	77%				70	50	71%
	Dec 2010	404	256	63%	0	0		90	67	74%				77	42	55%
	Jan 2011 Feb 2011	346 305	220 213	64% 70%	1	1 0	100% 0%	138 109	88 78	64% 72%			0% 0%	115 77	77 53	67% 69%
	Mar 2011	371	252	68%	0	0	0%	103	79	77%			0%	101	70	69%
	Apr 2011	386	245	63%	0	0	0%	124	83	67%	0	0	0%	70	44	63%
	May 2011	346	215	62%	0	0	0%	98	65	66%			0%	69	44	64%
	Jun 2011	344	224	65%	1	0		96	69	72%				59	38	64%
	Jul 2011 Aug 2011	350 342	229 228	65% 67%	0	0		80 94	63 59	79% 63%				53 52	38 44	72% 85%
	Sep 2011	337	237	70%	0	0		87	63	72%		0	0%	55	36	65%
	Oct 2011	306	202	66%	2	0		86	63	73%		0		68	45	66%
	Nov 2011	300	210	70%	0	0	0%	85	60	71%	0	0	0%	62	41	66%
	Dec 2011	312	210	67%	0	0	0%	88	56	64%	0	0	0%	73	51	70%
	Jan 2012	310	219	71%	0	0		108	74	69%					43	62%
	Feb 2012 Mar 2012	300 314	218 222	73% 71%	1	0		86 84	60 62	70% 74%				60 61	48	80% 79%
	Mar 2012 Apr 2012	314 359	251	71%	1	0		118	62 79	74% 67%				61 74	48 48	79% 65%
	May 2012	363	241	66%	1	0		98	66	67%				77	51	669
	Jun 2012	299	203	68%	1	0	0%	82	58	71%	0	0		64	47	739
	Jul 2012	331	226	68%	0	0		103	68	66%				52	30	589
	Aug 2012 Sep 2012	297 283	202 195	68% 69%	1	1 0	100% 0%	102 89	70 58	69% 65%		0		61 48	44	729 799
	Oct 2012	283 285	195 179	63%	0	0		89	58 57	65%				48 60	38 35	79% 58%
	Nov 2012	336	211	63%	0	0	0%	105	63	60%				77	48	629
	Dec 2012	286	200	70%	0	0		64	37	58%				54	33	619
	Jan 2013	302	198	66%	2	1		103	62	60%				64	37	589
	Feb 2013 Mar 2013	246 248	185 161	75% 65%	2	0		64 80	46 50	72% 63%		0	0% 0%	52 40	39 30	759 759
	Mar 2013 Apr 2013	248	161	70%	0	0		93	63	68%				40 59	30	669
	May 2013	307	203	66%	1	1	100%	83	60	72%		0		54	33	619
	Jun 2013	288	199	69%	0	0		89	60	67%		0		55	36	655
	Jul 2013	272	192	71%	0	0		88	66	75%				60	36	609
	Aug 2013	300	204	68%	0	0		75	44	59%				39	21	549
	Sep 2013 Oct 2013	276 274	190 193	69% 70%	1	0	0% 0%	75 78	50 52	67% 67%		0		52 56	32 38	625 685
	Nov 2013	265	166	63%	0	0		75	52	73%				57	37	659
	Dec 2013	276	182	66%	1	0		67	50	75%					38	739



Age (years)  Gender  Month and Year of Episode Start Date	Total 0 - 11 years 12 - 17 years 18 - 24 years 25 - 34 years 35 - 44 years 45 - 54 years Male Female Ambiguous Junknown Jan 2009 Feb 2009 Mar 2009 Apr 2009 May 2009 May 2009 May 2009	Total N of Transdermal Fentanyl Episodes  5 0 0 0 1 1 3 2 3 0 0 1 1 1 0	0 0 0 0 1 1 2 2 2 2 0 0	% with Prior Tolerance 80% 0% 0% 0% 100% 67%	Total N of Transdermal Fentanyl Episodes 179 - 1 2 10 30 72 64	N with Prior Tolerance	% with Prior Tolerance 60% 0% 0% 100% 80% 73% 53%	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance 50% 0% 0%	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance 61% 0%	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
Age (years)  Gender  Month and Year of Episode Start Date	0 - 11 years 12 - 17 years 18 - 24 years 25 - 34 years 25 - 34 years 35 - 44 years 45 - 54 years 45 - 54 years Male Female Mnbiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	Transdermal Fentanyl Episodes  5 0 0 0 1 1 3 2 3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prior Tolerance  4 0 0 0 1 1 1 2 2 2 0 0 0 0	Prior Tolerance  80% 0% 0% 0% 100% 100% 100% 67%	Transdermal Fentanyl Episodes  179 - 1 2 10 30 72 64	Prior Tolerance  108 2 8 22 38 38	Prior Tolerance 60% 0% 0% 100% 80% 73% 53%	Transdermal Fentanyl Episodes  2	Prior Tolerance 1	Prior Tolerance 50% 0%	Transdermal Fentanyl Episodes 233	Prior Tolerance 143	Prior Tolerance 61% 0%	Transdermal Fentanyl Episodes	Prior Tolerance	Prior Tolerance
Age (years)  Gender  Month and Year of Episode Start Date	0 - 11 years 12 - 17 years 18 - 24 years 25 - 34 years 25 - 34 years 35 - 44 years 45 - 54 years 45 - 54 years Male Female Mnbiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	0 0 0 0 1 1 3 2 3 0 0	0 0 0 0 1 1 2 2 2 2 0 0	0% 0% 0% 0% 100% 100% 67%	1 2 10 30 72 64	2 8 22 38 38	0% 0% 100% 80% 73% 53%	- - -	-	0%	-	-	0%	- 2	-	
Gender  Month and Year of Episode Start Date	12 - 17 years 18 - 24 years 25 - 34 years 35 - 44 years 35 - 64 years 55 - 64 years Male Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	0 0 0 1 1 3 2 3 0 0	0 0 0 1 1 2 2 2 2 0 0	0% 0% 0% 100% 100% 67% 100%	2 10 30 72 64	8 22 38 38	0% 100% 80% 73% 53%		-			_				
Gender  Month and Year of Episode Start Date	25 - 34 years 35 - 44 years 45 - 54 years 55 - 64 years Male Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	0 1 1 3 2 3 0 0	0 1 1 2 2 2 2 0 0	0% 100% 100% 67% 100% 67%	10 30 72 64 83	8 22 38 38	80% 73% 53%		-				570	-		C
Gender  Month and Year of Episode Start Date	35 - 44 years 45 - 54 years 55 - 64 years Male Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	1 1 3 2 3 0 0	1 1 2 2 2 2 0 0	100% 100% 67% 100% 67%	30 72 64 83	22 38 38	73% 53%			0%	5	4	80%	1	1	100
Gender  Month and Year of Episode Start Date	45 - 54 years 55 - 64 years Male Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	1 3 2 3 0 0	1 2 2 2 2 0 0	100% 67% 100% 67%	72 64 83	38 38	53%		-	0% 0%	13 37	9 26	69% 70%	-	-	(
Gender  Month and Year of Episode Start Date	Male Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	2 3 0 0	2 2 0 0	100% 67%	83			1	-	0%	88	54	61%	-	-	(
Month and Year of Episode Start Date	Female Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	3 0 0	2 0 0	67%			59%	1	1	100%	88	50	57%	1	1	100
Month and Year of Episode Start Date	Ambiguous Unknown Jan 2009 Feb 2009 Mar 2009 Apr 2009	0 0	0			50	60%	-	-	0%	125	85	68%	2	2	100
Month and Year of Episode Start Date	Jan 2009 Feb 2009 Mar 2009 Apr 2009	0	0		96	58	60% 0%	- 2	1	50% 0%	108	58	54% 0%	-	-	(
Month and Year of Episode Start Date	Feb 2009 Mar 2009 Apr 2009						0%			0%			0%			
Month and Year of Episode Start Date	Mar 2009 Apr 2009	0			5	3	60%	-	-	0%	7	3	43%	-	-	(
Episode Start Date	Apr 2009				5	2	40%	-	-	0%	3	3	100%	-	-	(
		0			4 5	2	50% 60%	-	-	0% 0%	2	1	50% 57%	-	-	(
		0			4	3	75%	-	-	0%	8	5	63%	-	-	
	Jun 2009	0	0	0%	4	3	75%	-	-	0%	9	7	78%	=	-	
	Jul 2009	0			1	1	100%	-	-	0%	3	1	33%	-	-	
	Aug 2009 Sep 2009	0			3	2	67% 0%	-	-	0% 0%	5	1	20% 80%	-	-	
	Oct 2009	0			2	1	50%	-	-	0%	6	2	33%	-	-	(
	Nov 2009	0	0	0%	3	2	67%	-	-	0%	7	5	71%	-	-	(
	Dec 2009	0			5	4	80%	-	-	0%	7	5	71%	-	-	(
	Jan 2010 Feb 2010	0			10 6	3 2	30% 33%	-	-	0% 0%	7 5	3	43% 80%	-	-	(
	Mar 2010	0			3	-	0%	-	-	0%	5	4	80%	-	-	,
	Apr 2010	0	0	0%	3	1	33%	-	-	0%	6	5	83%	-	-	(
	May 2010	0	0	0%	2	1	50%	-	-	0%	5	4	80%	-	-	
	Jun 2010	0			6	5	83%	-	-	0%	5	3	60%	-	-	(
	Jul 2010 Aug 2010	0	0		4	3 1	75% 33%	-	-	0% 0%	6	4	67% 33%	-	-	(
	Sep 2010	0			1	-	0%	-	-	0%	3	1	33%	-	-	
	Oct 2010	0			7	6	86%	1	1	100%	5	5	100%	-	-	(
	Nov 2010 Dec 2010	0			2 1	2	100% 100%	-	-	0% 0%	3	2	67% 50%	-	-	(
	Jan 2011	0			3	1	33%	-	-	0%	5	3	60%	1	1	100
	Feb 2011	1	1		2	1	50%	-	-	0%	3	1	33%	-	-	(
	Mar 2011	0			3	2	67%	-	-	0%	4	1	25%	-	-	(
	Apr 2011 May 2011	0			5 5	3	60% 60%	-	-	0% 0%	7	5 2	71% 50%	-	-	(
	Jun 2011	0			2	1	50%	-	-	0%	- 4	-	0%	-	-	(
	Jul 2011	0			2	-	0%	-	-	0%	4	4	100%	-	-	(
	Aug 2011	0			1	1	100%	-	-	0%	1	1	100%	-	-	(
	Sep 2011 Oct 2011	0			4	2	50% 100%	1	-	0% 0%	5 1	4	80%	1	1	100
	Nov 2011	0			1	1	100%	-	-	0%	2	1	50%	-	-	,
	Dec 2011	0			4	2	50%	_	_	0%	2	2	100%	_	_	(
	Jan 2012	0			3	2	67%	-	-	0%	3	2	67%	-	-	
	Feb 2012	0	0	0%	2	2	100%	-	-	0%	6	4	67%	-	-	(
	Mar 2012	0			3	3	100%	-	-	0%	2	2	100%	-	-	(
	Apr 2012 May 2012	1 0			5 4	5 1	100% 25%	-	-	0% 0%	6	5	83% 0%	-	-	
	Jun 2012	0			2	2	100%	-	-	0%	6	1	17%	-	-	
	Jul 2012	0	0	0%	1	1	100%	-	-	0%	-	-	0%	-	-	
	Aug 2012	0			4	4	100%	-	-	0%	1	1	100%	-	-	
	Sep 2012 Oct 2012	0			2	2	100% 75%	-	-	0% 0%	2	1 2	50% 100%	-	-	
	Nov 2012	0			2	2	100%	-	-	0%	5	3	60%	-	-	
	Dec 2012	0			3	1	33%	-	-	0%	1	-	0%	-	-	
	Jan 2013	0			4	-	0%	-	-	0%	4	1	25%	-	-	
	Feb 2013 Mar 2013	1 0			3	2	67% 50%	-	-	0% 0%	- 3	- 1	0% 33%	-	-	
	Mar 2013 Apr 2013	0			-	-	0%	-	-	0%	5	1	33% 60%	-	-	
	May 2013	0			1	1	100%	-	-	0%	3	2	67%	-	-	
	Jun 2013	0			-	-	0%	-	-	0%	5	2	40%	-	-	
	Jul 2013	0			2	2	100%	-	-	0%	3	3	100%	-	-	
	Aug 2013 Sep 2013	0			2	_ 2	100%	-	-	0% 0%	2	1	50% 33%	-	-	
	Oct 2013	0			3	1	33%	-	=	0%	1	1	100%	=	-	(
	Nov 2013	0	0	0%	1	1	100%	-	-	0%	3	2	67%	-	-	



		Secondary I	olerance Defi	nition (≥30 mg	g per day for se	ven days in th	e 30 days prio	r)		
		Do	se 175 mcg/	hr	Do	se 200 mcg/	hr	Do	se 225 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	52	30	58%	5	3	60%	4	1	259
Age (years)	0 - 11 years	-	-	0%	-	-	0%	-	-	09
	12 - 17 years 18 - 24 years	1	1	100% 100%	-	-	0% 0%	-	-	09
	25 - 34 years	3	2	67%	-	-	0%	1	1	1009
	35 - 44 years	7	4	57%	3	2	67%	1	-	09
	45 - 54 years	17	10	59%	2	1	50%	-	-	09
Gender	55 - 64 years	21	10	48%	<u> </u>	-	0%	2		09
Gender	Male Female	17 35	12 18	71% 51%	5	3	60% 0%	2	1	509 09
	Ambiguous	-	-	0%	-	-	0%	-	-	09
	Unknown		-	0%		-	0%		-	09
	Jan 2009	2	1	50%	-	-	0%	-	-	09
	Feb 2009	2	1	50%	-	-	0%	-	-	09
Month and Year of Episode Start Date	Mar 2009 Apr 2009	2	2	100% 100%	1	1	0% 100%	1	-	09
Lpisode Start Date	May 2009	1	1	100%		-	0%	-	-	09
	Jun 2009	1	-	0%	-	-	0%	-	-	09
	Jul 2009	2	2	100%	-	-	0%	1	1	1009
	Aug 2009	-	-	0%	-	-	0%	-	-	09
	Sep 2009	2	2	100%	-	-	0%	-	-	09
	Oct 2009	=	-	0%	-	-	0%	-	-	09
	Nov 2009 Dec 2009	1	1	100% 0%	-	-	0% 0%	-	-	09
	Jan 2010	-	-	0%	-	-	0%	-	-	09
	Feb 2010	_	-	0%	_	-	0%	_	_	09
	Mar 2010	1	1	100%	1	1	100%	-	-	09
	Apr 2010	-	-	0%	-	-	0%	-	-	09
	May 2010	1	-	0%	-	-	0%	-	-	09
	Jun 2010	1	-	0%	-	-	0%	-	-	09
	Jul 2010	-	-	0%	-	-	0%	-	-	09
	Aug 2010 Sep 2010	2	2	100%	-	-	0% 0%	1	-	09
	Oct 2010	1	1	100%	-	-	0%	-	-	09
	Nov 2010	_	_	0%	-	-	0%	-	_	09
	Dec 2010	1	1	100%	-	-	0%	-	-	09
	Jan 2011	1	-	0%	-	-	0%	-	-	09
	Feb 2011	2	1	50%	-	-	0%	-	-	09
	Mar 2011	2	1	50%	-	-	0%	-	-	09
	Apr 2011 May 2011	2	-	0% 0%	-	-	0% 0%	-	-	09
	Jun 2011	2	1	50%	-	-	0%	-	-	09
	Jul 2011	-	-	0%	-	-	0%	-	_	09
	Aug 2011	1	-	0%	-	-	0%	-	-	09
	Sep 2011	3	2	67%	-	-	0%	-	-	09
	Oct 2011	2	-	0%	-	-	0%	-	-	09
	Nov 2011	-	-	0%	-	-	0%	-	-	09
	Dec 2011	-	-	0%	-	-	0%	-	-	09
	Jan 2012	-	-	0%	-	-	0%	-	-	09
	Feb 2012	=	-	0%	-	-	0%	-	-	09
	Mar 2012 Apr 2012	1 2	1	0% 50%	-	-	0% 0%	-	-	09
	Apr 2012 May 2012	1	1	100%	-	-	0%	-	-	09
	Jun 2012	1	-	0%	-	-	0%	-	-	09
	Jul 2012	-	-	0%	-	-	0%	-	-	09
	Aug 2012	-	-	0%	-	-	0%	-	-	09
	Sep 2012	-	-	0%	-	-	0%	-	-	09
	Oct 2012	-	-	0%	-	-	0%	-	-	09
	Nov 2012	1	-	0%	-	-	0%	1	-	09
	Dec 2012 Jan 2013	-	-	0% 0%	-	-	0% 0%	-	-	09
	Feb 2013	1	-	0%	-	-	0%	-	-	09
	Mar 2013	1	1	100%	-	-	0%	-	-	09
	Apr 2013	-	-	0%	-	-	0%	-	-	09
	May 2013	1	1	100%	-	-	0%	-	-	09
	Jun 2013	1	-	0%	2	1	50%	-	-	09
	Jul 2013	-	-	0%	-	-	0%	-	-	09
	Aug 2013	-	-	100%	-	-	0%	-	-	09
	Sep 2013 Oct 2013	1	1	100% 0%	-	-	0% 0%	-	-	09
	Nov 2013	-	-	0%	-	-	0%	-	-	09



		C	Dose 12 mcg/hr	•		ose 24 mcg/h	nr	ι	Dose 25 mcg/h	r	D	ose 36 mcg/	hr	Do	se 37 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
A ()	Total	17,812	8,739	49.1%		2		49,148	26,155	53.2%	1			339		
Age (years)	0 - 11 years 12 - 17 years	34 81	7 25	20.6% 30.9%		0			6 31	24.0% 36.5%						
	18 - 24 years	412	181	43.9%		0			470	50.8%						
	25 - 34 years 35 - 44 years	1,605 3,153	945 1,732	58.9% 54.9%	- 2	2			2,619 5,098	60.9% 57.2%						
	45 - 54 years	5,672	2,807	49.5%		0			8,870	54.1%						
	55 - 64 years	6,855	3,042	44.4%	1	0			9,061	49.0%						
Gender	Male	5,595	2,805	50.1%	1 2	1			10,836	53.6%						
	Female Ambiguous	12,217	5,934	48.6% 0.0%	-	0			15,319	53.0%						
	Unknown	0	0	0	0	0			0	0		) (				
	Jan 2009	238	124	52.1%		0				50.1%						
Month and Year of Episode Start Date		227 284	102 126	44.9% 44.4%		0			484 545	48.8% 50.8%						
Episode Start Date	Apr 2009	251	117	46.6%		0			589	51.4%						
	May 2009	283	137	48.4%	-	0	0%	1,039	566	54.5%		) (	0%	6	5	83
	Jun 2009	300	130	43.3%		0			525	48.6%						
	Jul 2009 Aug 2009	267 284	133 128	49.8% 45.1%		0			497 458	51.4% 48.4%						
	Sep 2009	318	153	48.1%		0			516	51.2%						
	Oct 2009	278	125	45.0%	-	0			473	49.9%						
	Nov 2009 Dec 2009	244 261	113 120	46.3%		0			444 533	49.4% 54.9%						
	Jan 2010	245	114	46.0% 46.5%		0			444	50.4%						
	Feb 2010	254	135	53.1%		0			414	52.4%		) (				
	Mar 2010	283	137	48.4%		0			448	52.5%						
	Apr 2010 May 2010	289 261	130 137	45.0% 52.5%		0			486 463	50.7% 54.8%						
	Jun 2010	285	139	48.8%		0			470	53.2%						
	Jul 2010	239	115	48.1%		0	0%	837	462	55.2%		) (	0%	5	3	8 60
	Aug 2010	270	135	50.0%		0			457	52.5%						
	Sep 2010 Oct 2010	320 313	144 145	45.0% 46.3%		0			502 438	55.3% 52.0%						
	Nov 2010	306	147	48.0%		0			455	51.2%		) (				
	Dec 2010	307	142	46.3%		0			435	54.6%						
	Jan 2011 Feb 2011	264 279	120 130	45.5% 46.6%		0			397 344	51.3% 51.0%						
	Mar 2011	292	154	52.7%		0			459	54.3%						
	Apr 2011	307	156	50.8%		0			439	54.1%		) (	0%	10		
	May 2011	299	135	45.2%		0			419	52.7%						
	Jun 2011 Jul 2011	316 294	145 148	45.9% 50.3%		0			433 375	55.7% 51.5%						
	Aug 2011	328	171	52.1%		0	0%		418	51.0%		) (				
	Sep 2011	307	144	46.9%		0			419	52.7%						
	Oct 2011	279	143	51.3%		0			435	56.6%						
	Nov 2011 Dec 2011	306 323	155 151	50.7% 46.7%		0			409 388	57.0% 51.9%						
	Jan 2012	298	134	45.0%		0				54.5%						
	Feb 2012	269	131	48.7%	-	0			373	53.6%				7	5	5 71
	Mar 2012	307	152	49.5%	-	0			383	51.9%						
	Apr 2012 May 2012	316 389	155 190	49.1% 48.8%		0			436 432	54.3% 55.0%						
	Jun 2012	293	151	51.5%		0			374	54.8%						
	Jul 2012	315	158	50.2%	-	0			373	55.5%						
	Aug 2012	324	176	54.3%	-	0			469	54.7%						
	Sep 2012 Oct 2012	290 330	135 173	46.6% 52.4%		0			370 453	52.5% 60.1%						
	Nov 2012	332	170	51.2%		0			397	51.2%						
	Dec 2012	316	154	48.7%	-	0			363	54.5%						
	Jan 2013 Feb 2013	296 275	151 139	51.0% 50.5%		0			354 394	54.5% 58.4%						
	Heb 2013 Mar 2013	275	139	50.5%		0			394 368	58.4%						
	Apr 2013	327	180	55.0%		0			410	56.6%						
	May 2013	293	148	50.5%	-	0			436	57.8%						
	Jun 2013 Jul 2013	306 345	168 168	54.9% 48.7%	1	1			390 412	55.6% 57.3%						
	Aug 2013	358	171	47.8%		0			412	54.9%						
	Sep 2013	323	161	49.8%	-	0			373	54.3%	C					
	Oct 2013	366	186	50.8%	1	1			426	54.3%						
	Nov 2013 Dec 2013	344 325	188 172	54.7% 52.9%	1 0	0			381 362	54.3% 52.8%						



Table 2c: Counts of Transdermal Fentanyl Episodes and Proportions of Transdermal Fentanyl Episodes with Prior Tolerance with a 91-day Washout Period and a Tertiary Definition in the Mini-Sentinel Distributed Database (MSDD) from January 1, 2009 to December 31, 2013

		Dos	Dose 50 mcg/hr Dos				hr	Do	se 75 mcg/l	ır	Do	se 87 mcg/l	hr	Dos	se 100 mcg/	hr'
	-	Total N of	I		Total N of	se 62 mcg/l	1	Total N of			Total N of		ı	Total N of		1
		Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerand									
	Total	21,245	12,517	59%	26	7	27%	6,215	3,644	59%	14	4	29%		2,600	5
Age (years)	0 - 11 years	8 37	3	38%	1	0		3	-	0% 29%	0	0			- 2	2
	12 - 17 years 18 - 24 years	423	13 229	35% 54%	2	0		14 121	4 64	29% 53%	0	0			3 46	3 5
	25 - 34 years	1,911	1,240	65%	2	0		614	392	64%	2	2			239	6
	35 - 44 years	4,031	2,563	64%	6	2		1,229	728	59%	1	0			520	6
	45 - 54 years	7,320	4,328	59%	11	3	27%	2,201	1,312	60%	6	2	33%	1,644	956	5
	55 - 64 years	7,515	4,141	55%	4	2	50%	2,033	1,144	56%	5	0			836	5
Gender	Male	9,916	6,031	61%	13	6		2,974	1,824	61%	6	2			1,413	6
	Female	11,329	6,486	57% 0%	13 0	1		3,241	1,820	56% 0%	8	2			1,187	
	Ambiguous Unknown			0%	0					0%	0	0				
	Jan 2009	490	264	54%	2			189	97	51%	1	0		131	62	-
Month and Year of	Feb 2009	484	288	60%	0	0		152	79	52%	0	0			76	
pisode Start Date	Mar 2009	492	298	61%	0	0	0%	140	81	58%	0	0	0%	101	52	
	Apr 2009	532	323	61%	0	0	0%	147	89	61%	0	0	0%	120	73	
	May 2009	470	264	56%	0	0	0%	146	73	50%	0	0	0%	122	63	!
	Jun 2009	496	278	56%	0	0		138	69	50%	1	0			73	
	Jul 2009	440	248	56%	2	0		112	62	55%	1	1	100%		68	
	Aug 2009	398	240	60%	0	0		129	74	57%	0	0			51	!
	Sep 2009	457	267	58%	0	0		108	75	69%	2	0			45	
	Oct 2009	486 402	270 233	56% 58%	1	0	0% 100%	123 108	72 68	59% 63%	0	0			62 54	
	Nov 2009 Dec 2009	402	233	57%	0	0		135	68 75	63% 56%	1	0			54 56	
	Jan 2010	429	223	55%	0	0		120	65	54%	0	0			68	
	Feb 2010	362	197	54%	1	0		100	52	52%	1	0			40	
	Mar 2010	354	208	59%	0	0		132	75	57%	0	0			40	
	Apr 2010	368	210	57%	0	0	0%	122	77	63%	0	0	0%	98	68	
	May 2010	388	218	56%	0	0	0%	109	60	55%	1	0	0%	75	46	
	Jun 2010	402	240	60%	1	0	0%	103	58	56%	0	0	0%	71	49	
	Jul 2010	371	237	64%	0	0		98	52	53%	0	0	0%	66	43	
	Aug 2010	363	210	58%	0	0		116	66	57%	0	0			55	(
	Sep 2010	373	219	59%	1	1	100%	105	69	66%	0	0			47	!
	Oct 2010	383 353	243 223	63% 63%	0	0		115 102	72 69	63% 68%	0	0			55 42	
	Nov 2010 Dec 2010	404	228	56%	0	0		90	54	60%	0	0			36	
	Jan 2011	346	186	54%	1	1	100%	138	72	52%	0	0			61	
	Feb 2011	305	191	63%	0	0		109	69	63%	0	0			48	
	Mar 2011	371	230	62%	0	0		103	69	67%	0	0			59	
	Apr 2011	386	211	55%	0	0	0%	124	81	65%	0	0	0%	70	36	!
	May 2011	346	195	56%	0	0	0%	98	60	61%	0	0	0%	69	41	!
	Jun 2011	344	187	54%	1	0	0%	96	64	67%	1	0	0%	59	35	!
	Jul 2011	350	216	62%	0	0		80	55	69%	0	0			30	
	Aug 2011	342	195	57%	0	0		94	49	52%	0	0			36	6
	Sep 2011	337	199	59%	0	0		87	53	61%	0	0			34	6
	Oct 2011	306	176	58%	2	0		86	61	71%	0	0			38	
	Nov 2011	300	181	60%	0	0	0%	85	50	59%	0	0	0%	62	31	
	Dec 2011	312	181	58%	0	0		88	48	55%	0	0			43	
	Jan 2012	310	182	59%	0	0		108	66	61%	0	0			36	
	Feb 2012 Mar 2012	300 314	190 198	63% 63%	1	0		86 84	56 52	65% 62%	0	0			39 41	
	Mar 2012 Apr 2012	314 359	198 226	63%	1	0		84 118	67	62% 57%	1	1			41	
	May 2012	363	232	64%	1	0		98	61	62%	0	0			50	
	Jun 2012	299	180	60%	1	0		82	51	62%	0	0			40	
	Jul 2012	331	207	63%	0	0	0%	103	57	55%	0	0	0%	52	23	
	Aug 2012	297	176	59%	1	0	0%	102	64	63%	0	0	0%	61	40	
	Sep 2012	283	169	60%	1	0		89	54	61%	1	1	100%		28	
	Oct 2012	285	166	58%	0	0		83	53	64%	0	0			25	
	Nov 2012	336	188	56%	0	0		105	57	54%	2	1			40	
	Dec 2012	286	187	65%	0	0		64	30	47%	0	0			24	
	Jan 2013	302	178	59% 61%	2	1	50%	103	51	50%	0	0			32	
	Feb 2013 Mar 2013	246 248	149 153	61% 62%	0	0		64 80	38 47	59% 59%	0	0			30 21	
	Apr 2013	248	162	58%	0	0		93	51	55%	0	0			34	
	Apr 2013 May 2013	307	188	61%	1	1	100%	83	51	61%	0	0			34	
	Jun 2013	288	162	56%	0	0		89	57	64%	0	0			30	
	Jul 2013	272	161	59%	0	0		88	53	60%	0	0			27	
	Aug 2013	300	186	62%	0	0		75	33	44%	0	0			19	
	Sep 2013	276	168	61%	1	0	0%	75	42	56%	0	0	0%	52	28	
	Oct 2013	274	169	62%	0	0		78	48	62%	0	0			35	
	Nov 2013	265	156	59%	0	0	0%	71	46	65%	0	0	0%	57	33	



							,	ng per day in tl		,-,						
		Do	se 112 mcg/	hr	Do	se 125 mcg/	hr	Do	se 137 mcg/	hr	Do	se 150 mcg/	hr	Dos	se 162 mcg/	'hr
		Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance
A ( )	Total	Episodes 5	4	80%	Episodes 179	93	52%	Episodes 2	1	50%	Episodes 233	121	52%	Episodes 2	1	509
Age (years)	0 - 11 years 12 - 17 years	0	0	0% 0%	1	-	0% 0%	-	-	0% 0%	2	-	0% 0%	-	-	09
	18 - 24 years 25 - 34 years	0	0	0% 0%	2 10	2	100% 80%	-	-	0% 0%	5 13	4 6	80% 46%	1	-	09
	35 - 44 years	1	1	100%	30	15	50%	-	-	0%	37	22	59%	-	-	0
	45 - 54 years 55 - 64 years	1	1 2	100% 67%	72 64	35 33	49% 52%	1	- 1	0% 100%	88 88	46 43	52% 49%	- 1	- 1	1009
Gender	Male	2	2		83	45	54%	-	-	0%	125	71	57%	2	1	509
	Female Ambiguous	3	2		96	48	50% 0%	2	1	50% 0%	108	50	46% 0%	-	-	09
	Unknown	0	0				0%			0%			0%			0
	Jan 2009	1	1		5	3	60%	-	-	0%	7	3	43%	-	-	09
Month and Year of Episode Start Date		0	0		5 4	1 2	20% 50%	-	-	0% 0%	3	2	67% 50%	-	-	09
	Apr 2009	0	0		5	3	60%	-	-	0%	7	3	43%	-	-	09
	May 2009 Jun 2009	0	0	0% 0%	4	3	75% 75%	-	-	0% 0%	8	5 6	63% 67%	-	-	09
	Jul 2009 Jul 2009	0	0		1	1	100%	-	-	0%	3	1	33%	-	-	0:
	Aug 2009	0	0	0%	3	2	67%	-	-	0%	5	-	0%	-	-	09
	Sep 2009 Oct 2009	0	0		1 2	-	0% 0%	-	-	0% 0%	5	3	60% 33%	-	-	0'
	Nov 2009	0	0		3	2	67%	-	-	0%	7	5	71%	-	-	09
	Dec 2009	0	0	0%	5	2	40%	-	-	0%	7	5	71%	-	-	09
	Jan 2010 Feb 2010	0	0	0% 0%	10 6	2	20% 17%	-	-	0% 0%	7 5	3	43% 60%	-	-	09
	Mar 2010	0	0	0%	3	-	0%	-	-	0%	5	3	60%	-	-	0
	Apr 2010	0	0	0%	3	1	33%	-	-	0%	6	5	83%	-	-	09
	May 2010 Jun 2010	0	0		2	1	50% 50%	-	-	0% 0%	5 5	3 2	60% 40%	-	-	09
	Jul 2010	0	0	0%	4	3	75%	-	-	0%	6	4	67%	-	-	09
	Aug 2010	1	0		3	1	33%	=	-	0%	3	1	33%	=	=	09
	Sep 2010 Oct 2010	0	0	0% 0%	1 7	- 6	0% 86%	1	1	0% 100%	3 5	4	0% 80%	-	-	09
	Nov 2010	0	0		2	2	100%	-	-	0%	3	2	67%	-	-	0
	Dec 2010 Jan 2011	0	0	0% 0%	1	1	100% 33%	-	-	0% 0%	4 5	2	50% 40%	- 1	-	09
	Feb 2011	1	1	100%	2	1	50%	-	-	0%	3	1	33%	-	-	09
	Mar 2011	0	0		3	1	33%	-	-	0%	4	1	25%	-	-	09
	Apr 2011 May 2011	0	0	0% 0%	5 5	3	60% 20%	-	-	0% 0%	7	4	57% 25%	-	-	09
	Jun 2011	0	0	0%	2	1	50%	-	-	0%	-	-	0%	-	-	09
	Jul 2011	0	0	0%	2	-	0%	-	-	0%	4	4	100%	-	-	09
	Aug 2011 Sep 2011	0	0	0% 0%	1	1	100% 75%	1	-	0% 0%	1 5	1	100% 80%	1	- 1	1009
	Oct 2011	0	0		2	2	100%	-	-	0%	1	-	0%	-	-	09
	Nov 2011	0	0	0%	1	1	100%	-	-	0%	2	1	50%	-	-	09
	Dec 2011	0	0		4	2	50%	-	-	0%	2	2	100%	-	-	09
	Jan 2012 Feb 2012	0	0		3 2	2	67% 50%	-	-	0% 0%	3 6	2	67% 67%	-	-	09
	Mar 2012	0	0	0%	3	3	100%	-	-	0%	2	1	50%	-	-	09
	Apr 2012 May 2012	1 0	1 0	100% 0%	5 4	5	100% 0%	-	-	0% 0%	6	3	50% 0%	-	-	09
	Jun 2012	0	0		2	2	100%	-	-	0%	- 6	1	17%	-	-	0:
	Jul 2012	0	0		1	1	100%	-	-	0%	-	-	0%	-	-	0
	Aug 2012 Sep 2012	0	0	0% 0%	4	3 2	75% 100%	-	-	0% 0%	1	1	100% 50%	-	-	09
	Oct 2012	0	0	0%	4	2	50%	-	-	0%	2	2	100%	-	-	09
	Nov 2012	0	0		2	2	100%	-	-	0%	5	3	60%	-	-	09
	Dec 2012 Jan 2013	0	0		3 4	1	33% 0%	-	-	0% 0%	1	-	0% 0%	-	-	09
	Feb 2013	1	1	100%	3	1	33%	=	-	0%	-	-	0%	-	-	09
	Mar 2013	0	0		2	1	50%	-	-	0%	3	1 2	33%	-	-	0'
	Apr 2013 May 2013	0	0		1	1	0% 100%	-	-	0% 0%	5	1	40% 33%	-	-	0'
	Jun 2013	0	0	0%	-	-	0%	-	-	0%	5	1	20%	-	-	0
	Jul 2013 Aug 2013	0	0		2	2	100% 100%	-	-	0% 0%	3 2	2	67% 50%	-	-	09
	Sep 2013	0	0		1	-	0%	-	-	0%	3	1	33%	-	-	09
	Oct 2013	0	0	0%	3	1	33%	-	-	0%	1	1	100%	-	-	09
	Nov 2013 Dec 2013	0	0		1	1	100% 0%	-	-	0% 0%	3	2	67% 67%	-	-	09



		Tertiary	Tolerance De	efinition (>0 m	g per day in the	prior 7 cons	ecutive days)			
		Do	se 175 mcg/	'hr	Do	se 200 mcg/	'hr	Do	ose 225 mcg/	'hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	52	26	50%	5	3	60%	4	-	0%
Age (years)	0 - 11 years	-	-	0%	-	-	0%	-	-	0%
	12 - 17 years 18 - 24 years	1	1	100% 100%	-	-	0% 0%	-	-	0%
	25 - 34 years	3	2	67%	-	_	0%	1	-	0%
	35 - 44 years	7	5	71%	3	2		1	-	0%
	45 - 54 years	17	7	41%	2	1	50%	-	-	0%
	55 - 64 years	21	8	38%		-	0%	2	-	0%
Gender	Male Female	17 35	11 15	65% 43%	5	3	60% 0%	2	-	0%
	Ambiguous	-	-	0%	-	-	0%	-	-	0%
	Unknown			0%			0%			0%
	Jan 2009	2	-	0%	-	-	0%	-	-	0%
Month and Year of	Feb 2009	2	1	50%	-	-	0%	-	-	0%
Episode Start Date	Mar 2009	2	2	100%	1	-	0%	1	-	0%
	Apr 2009 May 2009	4	4	100% 100%	1	1	100% 0%	-	-	0%
	Jun 2009	1	1	100%	-	-	0%	-	-	0%
	Jul 2009	2	-	0%	-	_	0%	1	-	0%
	Aug 2009	-	-	0%	-	-	0%	-	-	0%
	Sep 2009	2	1	50%	-	-	0%	-	-	0%
	Oct 2009	-	-	0%	-	-	0%	-	-	0%
	Nov 2009	1	1	100%	-	-	0%	-	-	0%
	Dec 2009	-	-	0%	-	-	0%	-	-	0%
	Jan 2010 Feb 2010	-	-	0%	-	-	0% 0%	-	-	0%
	Mar 2010	1	1	100%	1	1	100%	-	-	0%
	Apr 2010	-	_	0%	_	_	0%	-	-	0%
	May 2010	1	-	0%	-	-	0%	-	-	0%
	Jun 2010	1	-	0%	-	-	0%	-	-	0%
	Jul 2010	-	-	0%	-	-	0%	-	-	0%
	Aug 2010	2	2	100%	-	-	0%	1	-	0%
	Sep 2010 Oct 2010	1	1	0% 100%	-	-	0% 0%	-	-	0% 0%
	Nov 2010	-	-	0%	_	-	0%	-	-	0%
	Dec 2010	1	1	100%	_	_	0%	-	-	0%
	Jan 2011	1	-	0%	-	-	0%	-	-	0%
	Feb 2011	2	1	50%	-	-	0%	-	-	0%
	Mar 2011	2	1	50%	-	-	0%	-	-	0%
	Apr 2011 May 2011	2	-	0%	-	-	0%	-	-	0%
	Jun 2011	2	1	0% 50%	-	-	0% 0%	-	-	0% 0%
	Jul 2011	-		0%	-	_	0%	-	-	0%
	Aug 2011	1	-	0%	-	-	0%	-	-	0%
	Sep 2011	3	1	33%	-	-	0%	-	-	0%
	Oct 2011	2	-	0%	-	-	0%	-	-	0%
	Nov 2011	-	-	0%	-	-	0%	-	-	0%
	Dec 2011	-	-	0%	-	-	0%	-	-	0%
	Jan 2012	-	-	0%	-	-	0%	-	-	0%
	Feb 2012	-	-	0%	-	-	0%	-	-	0%
	Mar 2012	1	-	0%	-	-	0%	-	-	0%
	Apr 2012 May 2012	2	1	50% 100%	-	-	0% 0%	-	-	0%
	Jun 2012	1	-	100%	-	-	0%	-	-	0%
	Jul 2012	-	-	0%	-	-	0%	-	-	0%
	Aug 2012	-	-	0%	-	-	0%	-	-	0%
	Sep 2012	-	-	0%	-	-	0%	-	-	0%
	Oct 2012	-	-	0%	-	-	0%	-	-	0%
	Nov 2012	1	-	0%	-	-	0%	1	-	0%
	Dec 2012 Jan 2013	-	-	0% 0%	-	-	0% 0%	-	-	0%
	Feb 2013	1	-	0%	-	-	0%	-	-	0%
	Mar 2013	1	1	100%	-	-	0%	-	-	0%
	Apr 2013	-	-	0%	-	-	0%	-	-	0%
	May 2013	1	1	100%	-	-	0%	-	-	0%
	Jun 2013	1	-	0%	2	1	50%	-	-	0%
	Jul 2013	-	-	0%	-	-	0%	-	-	0%
	Aug 2013 Sep 2013	1	1	0% 100%	-	-	0% 0%	-	-	0%
	Oct 2013	1	-	100%	-	-	0%	-	-	0%
	Nov 2013	-	-	0%	-	_	0%	-	-	0%
	Dec 2013	1	1	100%	_	_	0%	-	-	0%



		D	ose 12 mcg/h	r	ľ	Dose 24 mcg/h	ır	D	ose 25 mcg/h	r	Do	ose 36 mcg/h	nr
		Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl	N with Prior Tolerance	% with Prior Tolerance
	Total	Episodes 17,812	12,713	71.4%	Episodes 3	3		Episodes 49,148	37,514	76.3%	Episodes 1		
Age (years)	0 - 11 years	34	14	41.2%		C		25	9	36.0%	0		09
	12 - 17 years	81	38	46.9%		0		85	39	45.9%	0		09
	18 - 24 years	412 1,605	266 1,259	64.6% 78.4%		0		925 4,297	639 3,482	69.1% 81.0%	0		
	25 - 34 years 35 - 44 years	3,153	2,377	75.4%	2	2		4,297 8,915	7,040	79.0%	1	0	
	45 - 54 years	5,672	4,072	71.8%	-	0		16,409	12,569	76.6%	0		
	55 - 64 years	6,855	4,687	68.4%	1	1	100%	18,492	13,736	74.3%	0	0	09
Gender	Male	5,595	4,067	72.7%	1	1		20,233	15,573	77.0%	0		
	Female Ambiguous	12,217	8,646	70.8% 0.0%	2	2		28,915	21,941	75.9% 0.0%	1		
	Unknown	0	0	0.0%	0				0	0.0%	0		
	Jan 2009	238	176	73.9%		0	0%	1,070	794	74.2%	0		
	Feb 2009	227	154	67.8%		C	0%	992	740	74.6%	0	0	09
	Mar 2009	284	186	65.5%		C		1,072	803	74.9%	0		
Episode Start Date	Apr 2009	251	177	70.5%		0		1,147	851	74.2%	1	0	
	May 2009 Jun 2009	283 300	207 195	73.1% 65.0%		0		1,039 1,080	806 816	77.6% 75.6%	0	0	09
	Jul 2009	267	189	70.8%		0		966	717	74.2%	0		
	Aug 2009	284	200	70.4%		0		946	683	72.2%	0	0	09
	Sep 2009	318	231	72.6%	-	C	0%	1,007	764	75.9%	0	0	09
	Oct 2009	278	184	66.2%		0		948	699	73.7%	0		09
	Nov 2009	244	163	66.8%	-	0		898	642	71.5%	0		
	Dec 2009 Jan 2010	261 245	179 165	68.6% 67.3%		0		970 881	737 649	76.0% 73.7%	0	0	09
	Feb 2010	254	180	70.9%		0		790	588	74.4%	0	0	
	Mar 2010	283	196	69.3%		C		853	651	76.3%	0	0	09
	Apr 2010	289	199	68.9%		C	0%	958	716	74.7%	0	0	09
	May 2010	261	204	78.2%	-	C		845	670	79.3%	0		
	Jun 2010	285	198	69.5%		0		884	654	74.0%	0	0	
	Jul 2010 Aug 2010	239 270	170 194	71.1% 71.9%		0		837 871	645 673	77.1% 77.3%	0		09
	Sep 2010	320	225	70.3%		0		908	701	77.2%	0	0	09
	Oct 2010	313	213	68.1%		C		843	625	74.1%	0	0	09
	Nov 2010	306	221	72.2%		C		889	669	75.3%	0		
	Dec 2010	307	217	70.7%		0		796	617	77.5%	0		09
	Jan 2011 Feb 2011	264 279	176 187	66.7% 67.0%		0		774 674	585 518	75.6% 76.9%	0	0	09
	Mar 2011	292	203	69.5%		0		845	659	78.0%	0		09
	Apr 2011	307	227	73.9%		C	0%	812	624	76.8%	0	0	09
	May 2011	299	210	70.2%		C		795	599	75.3%	0	0	09
	Jun 2011	316	221	69.9%		0		777	600	77.2%	0		
	Jul 2011	294	197 248	67.0%		0		728 820	548 606	75.3% 73.9%	0	0	09
	Aug 2011 Sep 2011	328 307	219	75.6% 71.3%		0		795	611	76.9%	0	0	09
	Oct 2011	279	206	73.8%		0		768	600	78.1%	0		
	Nov 2011	306	215	70.3%		C	0%	718	569	79.2%	0	0	09
	Dec 2011	323	225	69.7%	-	O	0%	747	560	75.0%	0	0	09
	Jan 2012	298	205	68.8%		C		776	609	78.5%	0		
	Feb 2012	269	198	73.6%	-	C		696	538	77.3%	0		
	Mar 2012	307	228	74.3%	-	0		738	575	77.9%	0		
	Apr 2012 May 2012	316 389	225 275	71.2% 70.7%		c c		803 786	607 605	75.6% 77.0%	0	0	09
	Jun 2012	293	218	74.4%		0		683	535	78.3%	0		
	Jul 2012	315	240	76.2%	-	C		672	506	75.3%	0		
	Aug 2012	324	244	75.3%	-	O		857	672	78.4%	0		
	Sep 2012	290	206	71.0%	-	0		705	544	77.2%	0		
	Oct 2012 Nov 2012	330 332	240 244	72.7% 73.5%		0		754 775	603 597	80.0% 77.0%	0		
	Dec 2012	316	233	73.7%		0		666	501	75.2%	0		
	Jan 2013	296	212	71.6%	-	C		650	495	76.2%	0		
	Feb 2013	275	195	70.9%	-	C		675	547	81.0%	0		
	Mar 2013	274	200	73.0%		0		632	506	80.1%	0		
	Apr 2013	327	248	75.8%	-	0		724	568	78.5%	0		
	May 2013 Jun 2013	293 306	206 226	70.3% 73.9%	1	0		754 701	590 553	78.2% 78.9%	0		
	Jul 2013	345	250	73.5%		0		701	566	78.7%	0		
	Aug 2013	358	256	71.5%		0		780	618	79.2%	0		
	Sep 2013	323	237	73.4%	-	C		687	521	75.8%	0		
	Oct 2013	366	270	73.8%	1	1		784	604	77.0%	0		09
	Nov 2013	344	262	76.2%	1	1	100%	702	541	77.1%	0	0	09



18 - 24 y 25 - 34 y 35 - 44 y 45 - 54 y	11 years - 17 years - 24 years - 34 years - 34 years - 44 years - 44 years - 54 years - 64 years - 66 years lie male libiguous known 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009	Total N of Transdermal Fentanyl Episodes  339 1 2 9 27 71 199 130 145 194 0 0 6 9 5 4 6 8 8	N with Prior Tolerance  253 0 6 22 47 76 100 114 139 0 6 6 5 5	% with Prior Tolerance 75% 0% 66% 77% 66% 77% 79% 72% 0%	Total N of Transdermal Fentanyl Episodes 21,245 8 37 423 1,911 4,031 7,320 7,515 9,916	N with Prior Tolerance 16,661 4 20 306 1,557 3,293 5,753 5,728	% with Prior Tolerance 78% 50% 54% 72% 81% 82% 79%	Total N of Transdermal Fentanyl Episodes 26 1 0 2 2	N with Prior Tolerance	% with Prior Tolerance 35% 0%	Total N of Transdermal Fentanyl Episodes 6,215 3	N with Prior Tolerance	% with Prior Tolerance 75% 33%	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
Age (years) 0 - 11 ye 12 - 17 y 18 - 24 y 25 - 34 y 45 - 54 y 55 - 64 y 55 - 64 y 55 - 64 y 65 -	11 years - 17 years - 24 years - 34 years - 34 years - 44 years - 44 years - 54 years - 64 years - 66 years lie male libiguous known 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009	Transdermal Fentanyl Episodes  339 1 2 9 27 71 99 130 145 194 0 0 6 9 5 4 6 8 8	Prior Tolerance 253 0 0 0 6 6 22 47 76 102 114 139 0 0 0 6 5	Prior Tolerance  75% 0% 0% 67% 81% 66% 77% 79% 72% 0%	Transdermal Fentanyl Episodes 21,245 8 37 423 1,911 4,031 7,320 7,515 9,916	Prior Tolerance 16,661 4 20 306 1,557 3,293 5,753 5,728	Prior Tolerance 78% 50% 54% 72% 81% 82%	Transdermal Fentanyl Episodes 26 1 0 2 2	Prior Tolerance 9 0	Prior Tolerance 35% 0%	Transdermal Fentanyl Episodes 6,215 3	Prior Tolerance 4,682	Prior Tolerance	Transdermal Fentanyl Episodes	Prior Tolerance	Prior Tolerance
Age (years)  0 - 11 ye 12 - 17 y 18 - 24 y 25 - 34 y 35 - 44 y 45 - 54 y 55 - 64 y  Gender  Male  Emale  Ambigue Unknow Jan 2005 Feb 2003 May 200 Jul 2009 Aug 200 Oct 2006 Nov 200 Oct 2006 Nov 200 Dec 2001 Jan 2016 Feb 2011 May 201 Jul 2016 Apr 2016 May 201 Jul 2010 Apr 2017 Apr 20	11 years - 17 years - 24 years - 34 years - 34 years - 44 years - 44 years - 54 years - 64 years - 66 years lie male libiguous known 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009	339 1 2 9 27 71 99 130 145 194 0 0 6 9 5 4 6 8 8	253 0 0 6 22 47 76 102 114 139 0 0	75% 0% 0% 67% 81% 66% 77% 78% 79% 72%	21,245 8 37 423 1,911 4,031 7,320 7,515 9,916	16,661 4 20 306 1,557 3,293 5,753 5,728	78% 50% 54% 72% 81% 82%	26 1 0 2	9	35% 0%	6,215 3	4,682 1	75%	14		
Age (years)  0 - 11 ye 12 - 17 y 18 - 24 y 25 - 34 y 35 - 44 y 35 - 64 y 45 - 54 y 55 - 64 y  Gender  Male  Ambigue Unknow Jan 2005 Feb 2003 May 200 Jul 2009 Aug 200 Oct 2006 Nov 200 Oct 2006 Nov 200 Dec 2001 Jan 2016 Feb 2011 Mar 201 Jul 2010 Apr 2014 May 201 Jul 2010 Apr 2014 Apr 2014 Apr 2014 Apr 2015 Apr 2015 Apr 2016 Apr 2016 Apr 2017 Apr	11 years - 17 years - 24 years - 34 years - 34 years - 44 years - 44 years - 54 years - 64 years - 66 years lie male libiguous known 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009 - 2009	1 2 9 27 71 99 130 145 194 0 0 6 9 5 4 6 8 8 8	0 0 6 22 47 76 102 114 139 0 0	0% 0% 67% 81% 66% 77% 78% 79% 72%	8 37 423 1,911 4,031 7,320 7,515 9,916	4 20 306 1,557 3,293 5,753 5,728	50% 54% 72% 81% 82%	1 0 2 2	0	0%	3	1				7 509
18 - 24 y 25 - 34 y 35 - 44 y 45 - 54 y 55 - 64 y 56 - 64 y 56 - 64 y 56 - 64 y 57 - 64 y 58 - 6	- 24 years - 34 years - 44 years - 54 years - 64 years le male shiguous known - 2009 - 2009	9 27 71 99 130 145 194 0 0 6 9 5 4 6 8 8	6 22 47 76 102 114 139 0 0	67% 81% 66% 77% 78% 79% 72% 0%	423 1,911 4,031 7,320 7,515 9,916	306 1,557 3,293 5,753 5,728	72% 81% 82%	2		0%	1.4	_		0	0	
25 - 34 y 35 - 44 y 35 - 46 y 35 - 64 y 55 - 64 y 65 - 65 - 65 y 66 - 65 - 65 y 66 - 65 - 65 y 67 - 65 y 6	- 34 years - 44 years - 54 years - 64 years le male shiguous known - 2009 - 20	27 71 99 130 145 194 0 0 6 9 5 4 6 8 8	22 47 76 102 114 139 0 0	81% 66% 77% 78% 79% 72% 0%	1,911 4,031 7,320 7,515 9,916	1,557 3,293 5,753 5,728	81% 82%	2	0		144	5	36%	0	0	09
35 - 44 y 45 - 54 y 45 - 54 y 55 - 64 y 55 - 64 y 56 - 64 y 57 - 64 y 68 - 68 - 68 - 68 - 68 - 68 - 68 - 68 -	- 44 years - 54 years - 64 years le male sbiguous known 2009 2009 2009 2009 2009 2009 2009 2009 2009 2009	71 99 130 145 194 0 0 6 9 5 4 6 8 8	47 76 102 114 139 0 0 6 5	66% 77% 78% 79% 72% 0%	4,031 7,320 7,515 9,916	3,293 5,753 5,728	82%			0%	121	83	69%	0	0	
45 - 54 y 55 - 64 y 55 - 64 y 55 - 64 y 55 - 64 y 56 - 64 y 57 - 64 y 58 - 64 y 68	- 54 years - 64 years - 10 years - 64 years - 64 years - 10 years - 10 years - 2009 -	99 130 145 194 0 0 6 9 5 4 6 8 8	76 102 114 139 0 0 6 5	77% 78% 79% 72% 0%	7,320 7,515 9,916	5,753 5,728			0		614	480	78%	2	2	
S5 - 64 y	- 64 years lle male libiguous known 2009 2009 2009 7 2009 7 2009 7 2009 7 2009 7 2009	130 145 194 0 0 6 9 5 4 6 8	102 114 139 0 0 6 5	78% 79% 72% 0%	7,515 9,916	5,728		6 11	3		1,229 2,201	928 1,668	76% 76%	1	0	
Gender Male Female Ambigue Unknow Jan 2005 Feb 2009 Month and Year of Episode Start Date Apr 2005 Jul 2009 Aug 200 Sep 2000 Oct 2000 Jan 2016 Feb 2011 May 2010 Jul 2010 Aug 2010 Sep 2011 Jul 2010 Aug 2010 Sep 2011 Oct 2011 May 2011 Jul 2010 Aug 2011 Sep 2011 Jul 2010 Aug 2011 Sep 2011 Jul 2010 Aug 2011 Sep 2011 Jul 2010 Aug 2011 Jul 2010 Aug 2011 Jul 2011 Aug 2011 Jul 2011 Aug 2011 Jul 2011 Aug 2011 Sep 2011 Jul 2011 Aug 2011 Jul 2011 Aug 2011 Sep 2011 Jul 2011 Aug 2011 Sep 2011 Aug 2011 Jul 2011 Aug 2011 Sep 2011 Jul 2011 Aug 2011 Jul 2011 Aug 2011 Sep 2011 Jul 2011 Aug 2011 Jul 2011 Aug 2011 Jul 2012 Aug 2011 Sep 2	nale hbiguous known 2009 2009 2009 2009 2009 2009 2009 200	145 194 0 0 6 9 5 4 6 8	114 139 0 0 6 5	79% 72% 0%	9,916		76%	4	2		2,033	1,517	75%	5	1	
Ambigue Unknow Jan 2005 Feb 2007 Month and Year of Episode Start Date Apr 2005 Aug 2006 Sep 2007 Oct 2006 Nov 2000 Jan 2016 Feb 2011 Apr 2016 Apr 2016 Apr 2016 Apr 2017 Apr 2	abiguous known 1 2009 2 2009 1 2009 1 2009 1 2009 2 2009	0 0 6 9 5 4 6 8 8	0 0 6 5	0%	11.329	7,893	80%	13	7		2,974	2,284	77%	6	4	
Unknow Jan 2005 Feb 2009 Month and Year of Episode Start Date Apr 2009 Jul 2009 Jul 2009 Jul 2009 Sep 2009 Oct 2008 Nov 200 Dec 2009 Jan 2016 Jul 2019 Jan 2016 Jul 2019 Jul 2010 Aug 201 Apr 2011 May 201 Jul 2010 Aug 201 Apr 2011 Apr 2011 Jul 2010 Aug 201 Sep 2011 Oct 2012 Jul 2010 Apr 2011 Apr 2012 Apr 2011 Apr 2012	known 1 2009 2 2009 1 2009 1 2009 1 2009 2 2009	0 6 9 5 4 6 8	0 6 5			8,768	77%	13	2	15%	3,241	2,398	74%	8	3	38%
Jan 2005 Feb 2009 Month and Year of Feb 2009 Febisode Start Date  Apr 2009 Jul 2009 Aug 2000 Sep 2009 Oct 2009 Jan 2010 Feb 2011 May 2011 Jul 2010 Aug 2010 Sep 2016 Oct 2016 May 2011 Jul 2010 Aug 2011 Sep 2011 Oct 2016 Nov 2011 Jul 2011 Apr 2012 Apr 2012 Apr 2013 Apr 2014 Apr 2015 Apr 2016 Apr 2016 Apr 2017	o 2009 or 2009 or 2009 or 2009 or 2009 or 2009	6 9 5 4 6 8	6 5	0%	-	-	0%	0	0		-	-	0%	0	0	
Feb 2009 Month and Year of Episode Start Date  Apr 2005 Apr 2006 Apr 2009 Aug 2000 Sep 2000 Oct 2006 Apr 2016 Apr 2016 Apr 2017 Apr 2016 Apr 2017 A	o 2009 or 2009 or 2009 or 2009 or 2009	9 5 4 6 8	5		-		0%	0	0		-	-	0%	0		
Month and Year of Episode Start Date	r 2009 r 2009 y 2009 i 2009 2009	5 4 6 8		100% 56%	490 484	364 394	74% 81%	2	2		189 152	128 108	68% 71%	1	0	
Episode Start Date  Apr 2003  May 2003  Jun 2009  Aug 2003  Sep 2003  Oct 2005  Nov 2000  Dec 2001  Jan 2010  Apr 2011  Apr 2011  Jun 2016  Jun 2010  Apr 2011  Apr 2012  Apr 20	r 2009 y 2009 2009 2009	4 6 8 8		100%	492	396	80%	0	0	0%	140	98	70%	0	0	
May 200 Jun 2009 Jun 2009 Aug 200 Sep 2009 Oct 2008 Nov 200 Dec 2009 Jan 2016 Feb 2011 May 2011 Jun 2016 Jun 2016 Jun 2016 Jun 2017 Jun 2016 Jun 2017 Jun 2017 Jun 2017 Jun 2018 Jun 2019 Jun 20	y 2009 2009 2009	8	2	50%	532	413	78%	0	0	0%	147	116	79%	0	0	
Jul 2009 Aug 200 Sep 2001 Oct 2002 Nov 200 Dec 2001 Jan 2016 Feb 2011 May 201 Jul 2010 Aug 201 Sep 2011 Oct 2011 Nov 201 Jan 2011 Jul 2010 Jul 2010 Jul 2010 Jul 2011 Jul 2011 Jul 2011 Aug 201 Jul 2011 Aug 201 Jul 2011 Aug 201 Jul 2011 Aug 201 Sep 2011 Jul 2011 Jul 2011 Aug 201 Sep 2011 Jul 2012 Aug 201 Jul 2012 Jul 2012 Jul 2012 Aug 201 Jul 2012 Aug 201 Sep 2011 Sep 2011	2009	8	6	100%	470	342	73%	0	0	0%	146	102	70%	0	0	0%
Aug 200 Sep 2009 Oct 2009 Nov 200 Dec 2009 Jan 2016 Feb 2011 Mar 2011 Jun 2010 Jun 2010 Jun 2010 Aug 2011 Sep 2011 Nov 201 Dec 2011 Jun 2012 Jun 2011 Jun 2012			7	88%	496	377	76%	0	0		138	101	73%	1	0	
Sep 2009 Oct 2009 Nov 200 Dec 2009 Jan 2016 Feb 2014 May 2011 Jun 2010 Sep 2011 Oct 2012 May 2011 Jan 2011 Feb 2011 May 2011 Jan 2012 Jan	g 2009		6	75%	440	342	78%	2	0		112	80	71%	1	1	
Oct 2006 Nov 200 Dec 2007 Jan 2016 Feb 2011 May 201 Jun 2016 Jul 2010 Aug 201 Sep 2011 Oct 2011 Jul 2011 Apr 2011 Aug 201 Jul 2011 Aug 201 Sep 2011 Oct 2011 Nov 201 Jun 2011 Jul 2011 Aug 201 Jun 2011 Jul 2011 Aug 201 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Apr 2011 Aug 201 Apr 2012 Apr 2012 Apr 2012 Apr 2012 Apr 2012 Apr 2012 Aug 201 Jul 2012 Aug 201 Sep 2011 Sep 2011 Sep 2012		3	2 5	67%	398	321	81%	0	0		129	99	77%	0	0	
Nov 200 Dec 200 Jan 2016 Feb 2014 Mar 2011 May 201 Jun 2016 Jun 2016 Jun 2016 Aug 201 Sep 2014 Oct 2014 Nov 201 Jan 2011 Feb 201: Mar 201 Jun 2011 Jun 2012 Sep 201:		5 1	1	100% 100%	457 486	359 359	79% 74%	1	0		108 123	90 95	83% 77%	2	1	
Jan 2010 Feb 2011 Mar 2011 Apr 2010 Apr 2010 Jul 2010 Jul 2010 Aug 2011 Sep 2011 Oct 2010 Nov 201 Jan 2011 Jan 2011 Jan 2011 Jan 2011 Jan 2011 Jan 2011 Jul 2011 Aug 201 Sep 2011 Nov 201 Jun 2011 Jul 2011 Aug 201 Sep 2011 Nov 201 Jan 2012		8	5	63%	402	312	78%	1	1		108	89	82%	0	0	
Feb 2014 Mar 201 Apr 2014 May 2011 Jun 2010 Aug 2010 Sep 2014 Oct 2016 Jan 2017 Feb 2011 May 2011 Jun 2012 Jun 2012 Aug 201 Aug 201 Sep 201: Oct 2012	c 2009	8	6	75%	429	334	78%	0	0	0%	135	97	72%	1	0	0%
Mar 201 Apr 2014 May 201 Jun 2016 Aug 201 Sep 2014 Oct 2014 Jan 2017 Feb 2017 May 201 Jun 2010 Apr 2017 Jun 2011 Aug 201 Sep 2017 Oct 2017 May 2011 Jun 2011 Jun 2011 Jun 2011 Aug 201 Jun 2012 Aug 201 Sep 2011 Sep 2011 Sep 2011	2010	6	0	0%	406	300	74%	0	0	0%	120	80	67%	0	0	0%
Apr 2011 May 201 Jun 2016 Aug 201 Sep 2011 Oct 2011 Nov 201 Jan 2017 Feb 201: Mar 201 Apr 2012 Jun 2010 Jun 2011 Aug 201 Sep 201: Jun 2011 Aug 201 Sep 201: Nov 201 Jun 2011 Jun 2011 Jun 2011 Aug 201 Sep 201: Mar 201 Jun 2012 Apr 2012 Aug 201 Jun 2012 Aug 201 Sep 201: Sep 201: Sep 201:		9	9	100%	362	268	74%	1	0	0%	100	71	71%	1	1	
May 201 Jun 2016 Jun 2016 Aug 201 Sep 2016 Oct 2016 Nov 201 Dec 2011 Jan 2017 Feb 201: Mar 201 Jun 2017 Jun 2017 Jun 2017 Jun 2017 Sep 201: Nov 201 Dec 201 Jan 2012 Feb 201: Mar 201 Jun 2017 J		8	6	75%	354	278	79%	0	0		132	99	75%	0	0	
Jun 2010 Jul 2010 Aug 201 Sep 2014 Nov 201 Dec 2011 Jan 2017 Feb 201: Mar 201 Jun 2011 Aug 201 Sep 201: Oct 201: Mar 201 Jan 2012 Feb 201: Jan 2012 Feb 201: Jan 2012 Jun 2011 Jun 2011 Jun 2011 Jun 2012 Aug 201 Sep 201: Oct 2012		4	2	50% 33%	368 388	288 293	78% 76%	0	0	0% 0%	122 109	99 78	81% 72%	0	0	
Jul 2010 Aug 201 Sep 2011 Oct 2016 Nov 201 Dec 2011 Jan 2011 Feb 201: Mar 2011 Jul 2011 Aug 201 Jul 2011 Aug 201 Sep 201: Oct 2012 Nov 201 Jan 2012 Feb 201: Mar 201 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Aug 201 Aug 201 Aug 201 Jul 2011 Aug 201 Aug 201 Aug 201 Jul 2012 Jul 2012 Aug 201 Jul 2012 Aug 201 Sep 201: Oct 2012		7	4	57%	402	318	79%	1	0		103	83	81%	0	0	
Sep 2016 Oct 2017 Nov 2011 Dec 2011 Jan 2011 Feb 201: Mar 201 Apr 201: Jul 2011 Aug 201 Sep 201: Nov 201 Dec 201 Jan 2012 Feb 201: Mar 201 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Apr 2012 Aug 201 Jan 2012 Apr 2012 Aug 201 Jul 2012 Aug 201 Jul 2012 Aug 201 Jul 2012 Aug 201 Sep 201: Sep 201: Sep 201: Oct 2012		5	4	80%	371	300	81%	0	0	0%	98	71	72%	0	0	
Oct 2016 Nov 201 Dec 2011 Jan 2017 Feb 201: Mar 201 Apr 201: May 2011 Jul 2011 Aug 201 Sep 201: Nov 201 Dec 201: Jan 2012 Feb 201: Mar 201 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Apr 2013 Apr 2013 Apr 2013 Apr 2014 Apr 2014 Apr 2015 Jul 2012 Aug 201 Jul 2012 Aug 201 Sep 201: Oct 2012	g 2010	3	2	67%	363	287	79%	0	0	0%	116	81	70%	0	0	0%
Nov 201 Dec 201 Jan 2011 Feb 201: May 201 Apr 201: May 201 Jun 2011 Jul 2011 Aug 201 Sep 201: Nov 201 Dec 201: Jan 2012 Feb 201: May 201 Jan 2012 Jan 2012 Jan 2012 Jan 2012 Aug 201 Jun 2012 Aug 201 Jun 2012 Jun 2012 Aug 201 Sep 201: Oct 2012		2	2	100%	373	291	78%	1	1	100%	105	88	84%	0	0	
Dec 201 Jan 2011 Feb 201: Mar 2011 Apr 2012 Apr 2012 Jun 2011 Jul 2011 Aug 201 Sep 2012 Oct 2012 Nov 201 Jan 2012 Feb 2012 Mar 2011 Aug 201 Apr 2012 Jun 2012 Aug 201 Sep 2012 Cot 2012		5	5	100%	383	313	82%	0	0	0%	115	88	77%	0	0	
Jan 2011 Feb 201: Mar 2011 Apr 201: May 201 Jun 2011 Jul 2011 Aug 201 Sep 201: Oct 201: May 201 Jan 2012 Feb 201: Mar 201 Jun 2012 Aug 201 Sep 201: Oct 2012		8	6 2	75% 67%	353 404	287 315	81% 78%	0	0		102 90	85 71	83% 79%	1	0	
Feb 201: Mar 201 Apr 201: May 201 Jun 2011 Jun 2011 Aug 201 Sep 201: Nov 201 Dec 201 Jan 2012 Feb 201: Mar 201 Jun 2012 Apr 2012 Jun 2012 Aug 201 Sep 201: Oct 2012		1	1	100%	346	260	75%	1	1		138	97	70%	0	0	
Apr 201: May 201 Jun 2011 Jul 2011 Aug 201 Sep 201: Oct 201: Nov 201 Dec 201: Jan 2012 Feb 201: May 201 Apr 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Aug 201 Sep 201: Oct 2012		3	3	100%	305	242	79%	0	0	0%	109	83	76%	0	0	
May 201 Jun 2011 Aug 201 Aug 201 Sep 201: Oct 201: Nov 201 Jan 2012 Feb 201: Mar 201 Apr 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Jun 2012 Aug 201 Sep 201: Oct 2012	r 2011	9	6	67%	371	294	79%	0	0	0%	103	85	83%	0	0	0%
Jun 2011 Aug 2011 Sep 201: Oct 201: Nov 201 Dec 201: Jan 2012 Feb 201: Mar 201 Apr 2012 Jun 2012 Aug 201 Sep 201: Oct 2012		10	10	100%	386	292	76%	0	0		124	94	76%	0	0	
Jul 2011 Aug 201 Sep 201: Oct 201: Nov 201 Dec 201: Jan 2012 Feb 201: Mar 201 Apr 201: Jun 2012 Jul 2012 Jul 2012 Aug 201 Sep 201: Oct 2011		4	3	75%	346	261	75%	0	0	0%	98	73	74%	0	0	
Aug 201 Sep 201: Oct 2011 Nov 201 Dec 201: Jan 2012 Feb 201: Mar 201 Apr 2012 Jun 2012 Jul 2012 Jul 2012 Aug 201 Sep 201: Oct 2012		4	3 2	75% 50%	344 350	263 279	76% 80%	1 0	0	0% 0%	96 80	79 69	82% 86%	1	1	
Sep 201: Oct 2011 Nov 201 Dec 201: Jan 2012 Feb 201: Mar 2012 May 201 Jun 2012 Jul 2012 Aug 201 Sep 201: Oct 2012		5	3	60%	342	270	79%	0	0	0%	94	67	71%	0	0	
Nov 201 Dec 201 Jan 2012 Feb 201 Mar 201 Apr 201 May 201 Jun 2012 Jul 2012 Aug 201 Sep 201 Oct 2012		6	5	83%	337	271	80%	0	0	0%	87	70	80%	0	0	
Dec 201: Jan 2012 Feb 201: Mar 201 Apr 201: Jun 2012 Jul 2012 Aug 201 Sep 201: Oct 2012	2011	3	2	67%	306	240	78%	2	0	0%	86	70	81%	0	0	0%
Jan 2012 Feb 201: Mar 201 Apr 201: May 201 Jun 2012 Aug 201 Sep 201: Oct 2012	v 2011	7	4	57%	300	238	79%	0	0	0%	85	64	75%	0	0	0%
Feb 201: Mar 201 Apr 201: May 201 Jun 2012 Jul 2012 Aug 201 Sep 201: Oct 201:	c 2011	5	5	100%	312	255	82%	0	0	0%	88	61	69%	0	0	0%
Mar 201 Apr 201: May 201 Jun 2012 Jul 2012 Aug 201 Sep 201: Oct 201:		3	2	67%	310	246	79%	0	0	0%	108	85	79%	0	0	
Apr 2012 May 201 Jun 2012 Jul 2012 Aug 201 Sep 2012		7	6	86%	300	245	82%	1	0	0%	86	65	76%	0	0	
May 201 Jun 2012 Jul 2012 Aug 201 Sep 2013 Oct 2012		7	6 5	86% 71%	314 359	260 284	83% 79%	0	0	0% 0%	84 118	68 87	81% 74%	0	0	
Jun 2012 Jul 2012 Aug 201 Sep 201: Oct 2012		8	7	71% 88%	363	284	79% 78%	1	0	0%	118 98	87 77	74% 79%	1	0	
Jul 2012 Aug 201 Sep 201: Oct 2013		4	3	75%	299	243	81%	1	0	0%	82	65	79%	0	0	
Sep 2012 Oct 2012		5	4	80%	331	266	80%	0	0		103	76	74%	0	0	
Oct 2012		2	2	100%	297	233	78%	1	1		102	77	75%	0	0	
	2012 g 2012	5	5	100%	283	229	81%	1	0		89	67	75%	1	1	
Nov 201	2012 g 2012 o 2012	3	2	67%	285	229	80%	0	0	0%	83	65	78%	0	0	
	2012 g 2012 o 2012 t 2012	6 9	4 5	67% 56%	336 286	241 226	72% 79%	0	0	0% 0%	105 64	72 41	69% 64%	2	1	
Jan 2013	2012 g 2012 o 2012 t 2012 v 2012	5	3	60%	302	235	78%	2	1		103	72	70%	0	0	
Feb 2013	2012 g 2012 o 2012 t 2012 v 2012	3	3	100%	246	201	82%	2	0	0%	64	52	81%	0	0	
Mar 201	2012 g 2012 o 2012 t 2012 v 2012 c 2012	4	4	100%	248	194	78%	0	0	0%	80	57	71%	0	0	09
Apr 2013	2012 g 2012 o 2012 t 2012 v 2012 c 2012 c 2013 o 2013	44	8	73%	280	225	80%	0	0		93	71	76%	0	0	
May 201	2012 g 2012 o 2012 t 2012 v 2012 c 2012 c 2013 o 2013 or 2013	11	7	78%	307	241	79%	1	1		83	67	81%	0	0	
Jun 2013	2012 g 2012 p 2012 t 2012 v 2012 c 2012 c 2012 g 2013 p 2013 r 2013 r 2013	9	4	80%	288	232	81%	0	0		89	67	75%	0	0	
Jul 2013	2012 g 2012 o 2012 t 2012 v 2012 c 2012 c 2012 g 2013 o 2013 r 2013 r 2013 g 2013	9 5	7 5	78% 71%	272 300	219 249	81% 83%	0	0	0% 0%	88 75	73 48	83% 64%	0	0	
Aug 201 Sep 201	2012 g 2012 d 2012 v 2012 v 2012 c 2012 v 2012 c 2013 d 2013 r 2013 r 2013 v 2013 d 2013 d 2013	9 5 9	4	71% 80%	276	249	83% 82%	1	0	0%	75 75	48 54	72%	0	0	
Oct 2013	2012 g 2012 2 2012 t 2012 v 2012 c 2012 2 2013 o 2013 r 2013 r 2013 2 2013 g 2013	9 5		50%	274	218	80%	0	0	0%	78	58	74%	0	0	
Nov 201	2012 g 2012 o 2012 t 2012 v 2012 c 2012 c 2012 2013 o 2013 r 2013 r 2013 g 2013 g 2013 o 2013	9 5 9 7	2	43%	265	207	78%	0	0	0%	71	56	79%	0	0	0 0



		Dose	e 100 mcg/	/hr	Do	se 112 mcg/	hr	Dos	se 125 mcg/	hr	Do	se 137 mcg/	hr	Dos	se 150 mcg/	hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	4,524	3,253	72%	5	4	80%	179	121	68%	2	1	50%	233	152	659
Age (years)	0 - 11 years 12 - 17 years	6 9	1	17% 44%	0	0	0% 0%	1	1	0% 100%	-	-	0% 0%	2	-	01
	18 - 24 years	91	56	62%	0	0	0%	2	2	100%	-	-	0%	5	4	80
	25 - 34 years	375	297	79%	0	0	0%	10	8	80%	-	-	0%	13	9	69
	35 - 44 years	870	640	74%	1	1	100%	30	24	80%	-	-	0%	37	27	73
	45 - 54 years	1,644	1,189	72%	1	1	100%	72	43	60%	1	-	0%	88	57	65
Gender	55 - 64 years Male	1,529 2,316	1,066 1,730	70% 75%	2	2	67% 100%	64 83	43 57	67% 69%	1	1	100%	88 125	55 90	63 72
	Female	2,208	1,523	69%	3	2	67%	96	64	67%	2	1	50%	108	62	57
	Ambiguous	-	-	0%	0	0	0%	-	-	0%	-	-	0%	-	-	0
	Unknown		-	0%	0	0		-	-	0%	-	-	0%	-	-	C
	Jan 2009	131	88	67% 76%	1	1	100% 0%	5 5	4	80% 40%	-	-	0% 0%	7	3	43 100
Month and Year of	Feb 2009 F Mar 2009	132 101	100 68	67%	0	0	0%	4	2	50%	-	-	0%	2	1	50
Episode Start Date		120	92	77%	0	0	0%	5	3	60%	-	-	0%	7	5	71
	May 2009	122	83	68%	0	0	0%	4	3	75%	-	-	0%	8	5	63
	Jun 2009	107	84	79%	0	0	0%	4	3	75%	-	-	0%	9	7	78
	Jul 2009 Aug 2009	114 98	80 64	70% 65%	0	0	0% 0%	1	1 2	100% 67%	-	-	0% 0%	3 5	1	33 20
	Sep 2009	98 89	58	65%	0	0	0%	1	- 2	0%	-	-	0%	5	4	80
	Oct 2009	108	77	71%	0	0	0%	2	1	50%	-	-	0%	6	2	33
	Nov 2009	93	67	72%	0	0	0%	3	2	67%	-	-	0%	7	5	71
	Dec 2009	96	72	75%	0	0	0%	5	4	80%	-	-	0%	7	6	86
	Jan 2010	115	80	70%	0	0	0%	10	4	40%	-	-	0%	7 5	4	57 80
	Feb 2010 Mar 2010	74 71	50 48	68% 68%	0	0	0% 0%	6	-	50% 0%	-	-	0% 0%	5	4	80
	Apr 2010	98	78	80%	0	0	0%	3	2	67%	-	-	0%	6	5	83
	May 2010	75	56	75%	0	0	0%	2	1	50%	-	-	0%	5	4	80
	Jun 2010	71	56	79%	0	0	0%	6	5	83%	-	-	0%	5	3	60
	Jul 2010	66 86	53 65	80% 76%	0	0	0% 0%	4	4 2	100% 67%	-	-	0% 0%	6	4	67 67
	Aug 2010 Sep 2010	84	63	75%	0	0	0%	1	-	0%	-	-	0%	3	1	33
	Oct 2010	75	63	84%	0	0	0%	7	6	86%	1	1	100%	5	5	100
	Nov 2010	70	53	76%	0	0	0%	2	2	100%	-	-	0%	3	2	67
	Dec 2010	77	45	58%	0	0	0%	1	1	100%	-	-	0%	4	2	50
	Jan 2011 Feb 2011	115 77	82 57	71% 74%	0	0	0% 100%	3	1 2	33% 100%	-	-	0% 0%	5	3	60 67
	Mar 2011	101	73	72%	0	0	0%	3	2	67%	-	-	0%	4	2	50
	Apr 2011	70	49	70%	0	0	0%	5	4	80%	-	-	0%	7	5	71
	May 2011	69	46	67%	0	0	0%	5	3	60%	-	-	0%	4	2	50
	Jun 2011	59	44	75%	0	0	0%	2	2	100%	-	-	0%	- 4	-	100
	Jul 2011 Aug 2011	53 52	41 45	77% 87%	0	0	0% 0%	2	1	0% 100%	-	-	0% 0%	1	4	100
	Sep 2011	55	41	75%	0	0	0%	4	3	75%	1	-	0%	5	4	80
	Oct 2011	68	47	69%	0	0	0%	2	2	100%	-	-	0%	1	-	0
	Nov 2011	62	43	69%	0	0	0%	1	1	100%	-	-	0%	2	1	50
	Dec 2011	73	54	74%	0	0	0%	4	2	50%	-	-	0%	2	2	100
	Jan 2012	69	45	65%	0	0	0%	3	2	67%	-	-	0%	3	2	67
	Feb 2012 Mar 2012	60 61	50	83% 85%	0	0	0%	2	2	100%	-	-	0%	6	4 2	67 100
	Mar 2012 Apr 2012	61 74	52 52	70%	1	1	0% 100%	5	5	100% 100%	-	-	0% 0%	6	5	100
	May 2012	77	57	74%	0	0	0%	4	2	50%	-	-	0%	-	-	(
	Jun 2012	64	49	77%	0	0	0%	2	2	100%	-	-	0%	6	1	17
	Jul 2012	52	31	60%	0	0	0%	1	1	100%	-	-	0%	-	-	(
	Aug 2012 Sep 2012	61 48	46	75% 81%	0	0	0%	4 2	4	100%	-	-	0% 0%	1 2	1	100 50
	Sep 2012 Oct 2012	48 60	39 40	81% 67%	0	0	0% 0%	4	3	100% 75%	-	-	0%	2	1 2	100
	Nov 2012	77	51	66%	0	0	0%	2	2	100%	-	-	0%	5	4	80
	Dec 2012	54	37	69%	0	0	0%	3	1	33%	-	-	0%	1	-	(
	Jan 2013	64	39	61%	0	0	0%	4	-	0%	-	-	0%	4	1	2
	Feb 2013 Mar 2013	52 40	40 30	77% 75%	1	1 0	100% 0%	3	2	67% 100%	-	-	0% 0%	- 3	- 1	3
	Mar 2013 Apr 2013	40 59	30 41	75% 69%	0	0	0%	- 2	- 2	100%	-	-	0%	5	3	3.
	May 2013	54	35	65%	0	0	0%	1	1	100%	-	-	0%	3	2	6
	Jun 2013	55	38	69%	0	0	0%	-	-	0%	-	-	0%	5	4	80
	Jul 2013	60	39	65%	0	0	0%	2	2	100%	-	-	0%	3	3	100
	Aug 2013 Sep 2013	39	23	59%	0	0	0%	2	2	100%	-	-	0%	2	1	50
	Sep 2013 Oct 2013	52 56	37 38	71% 68%	0	0	0% 0%	1	1	100% 33%	-	-	0% 0%	3	1	33 100
	Nov 2013	57	39	68%	0	0	0%	1	1	100%	-	-	0%	3	2	67
	Dec 2013	52	40	77%	0	0		1	_	0%	-	-	0%	3	2	6



		1	Qu	aternary Tolei	rance Definition	(>0 mg per d	ay for seven d	lays in the 30 da	ays prior)		I		
		Dos	se 162 mcg/	hr	Dos	se 175 mcg/	hr	Do	se 200 mcg/	hr	Do	se 225 mcg/	'hr
		Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance	Total N of Transdermal Fentanyl Episodes	N with Prior Tolerance	% with Prior Tolerance
	Total	2	2	100%	52	33	63%	5	3	60%	4	1	259
Age (years)	0 - 11 years	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	12 - 17 years	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	18 - 24 years	1	1	100%	3	3	100%	-	-	0%			0%
	25 - 34 years 35 - 44 years	-	-	0% 0%	3 7	2 6	67% 86%	3	2	0% 67%	1	1	100%
	45 - 54 years	_	_	0%	17	10	59%	2	1	50%		_	0%
	55 - 64 years	1	1	100%	21	11	52%	-	-	0%	2	-	0%
	Male	2	2	100%	17	12	71%	5	3	60%	2	1	50%
	Female	-	-	0%	35	21	60%	-	-	0%	2	-	0%
	Ambiguous	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Unknown	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Jan 2009 Feb 2009	-	-	0% 0%	2	1	50% 50%	-	-	0% 0%	-	-	0% 0%
Month and Year of		_	_	0%	2	2	100%	1	_	0%	1	_	0%
Episode Start Date		-	-	0%	4	4	100%	1	1	100%	-	-	0%
	May 2009	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jun 2009	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jul 2009	-	-	0%	2	2	100%	-	-	0%	1	1	100%
	Aug 2009	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Sep 2009	-	-	0%	2	2	100%	-	-	0%	-	-	0%
	Oct 2009 Nov 2009	-	-	0% 0%	1	1	0% 100%	-	-	0% 0%	-	-	0% 0%
	Dec 2009	_	_	0%			0%	_	-	0%	_	_	0%
	Jan 2010	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Feb 2010	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Mar 2010	-	-	0%	1	1	100%	1	1	100%	-	-	0%
	Apr 2010	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	May 2010	-	-	0%	1	-	0%	-	-	0%	-	-	0%
	Jun 2010	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jul 2010 Aug 2010	-	-	0% 0%	2	2	0% 100%	-	-	0% 0%	1	-	0% 0%
	Sep 2010	-	-	0%	-	-	0%	-	-	0%		-	0%
	Oct 2010	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Nov 2010	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Dec 2010	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jan 2011	1	1	100%	1	-	0%	-	-	0%	-	-	0%
	Feb 2011	-	-	0%	2	1	50%	-	-	0%	-	-	0%
	Mar 2011 Apr 2011	-	-	0% 0%	2	1	50% 0%	-	-	0% 0%	-	-	0% 0%
	May 2011	_	_	0%	-		0%	_	-	0%	_	_	0%
	Jun 2011	-	-	0%	2	1	50%	-	-	0%	-	-	0%
	Jul 2011	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Aug 2011	-	-	0%	1	-	0%	-	-	0%	-	-	0%
	Sep 2011	1	1	100%	3	2	67%	-	-	0%	-	-	0%
	Oct 2011	-	-	0%	2	-	0%	-	-	0%	-	-	0%
	Nov 2011	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Dec 2011	-	-	0%	-	-	0%		-	0%		-	0%
	Jan 2012	-	-	0%	-	-	0%		-	0%		-	0%
	Feb 2012	-	-	0%	-	-	0%		-	0%		-	0%
	Mar 2012 Apr 2012	-	-	0% 0%	1 2	1	100% 50%	-	-	0%	-	-	0% 0%
	May 2012	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jun 2012	-	_	0%	1	-	0%	_	-	0%		_	0%
	Jul 2012	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Aug 2012	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Sep 2012	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Oct 2012	-	-	0%	-	-	0%		-	0%		-	0%
	Nov 2012	-	-	0%	1	-	0%	-	-	0%		-	0%
	Dec 2012 Jan 2013	-	-	0% 0%	-	-	0% 0%	-	-	0%		-	0% 0%
	Feb 2013	-	-	0%	1	-	0%	-	-	0%	-	-	0%
	Mar 2013	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Apr 2013	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	May 2013	-	-	0%	1	1	100%	-	-	0%	-	-	0%
	Jun 2013	-	-	0%	1	-	0%	2	1	50%	-	-	0%
	Jul 2013	-	-	0%	-	-	0%		-	0%	-	-	0%
	Aug 2013	-	-	0%	=	-	0%		-	0%	-	-	0%
	Sep 2013 Oct 2013	-	-	0% 0%	1	1	100% 0%		-	0% 0%		-	0%
	Nov 2013	-	-	0%	-	-	0%	-	-	0%	-	-	0%
	Dec 2013	_	_	0%	1	1	100%	_	_	0%	_	_	0%



### Appendix A: Latest Date of Available Data for Each Data Partner up to Request Send Date (April 20, 2016)

DP ID	Start Date	End Date
DP0001	1/1/2009	12/31/2013
DP0002	1/1/2009	12/31/2013
DP0003	1/1/2009	12/31/2013
DP0004	1/1/2009	12/31/2013
DP0005	1/1/2009	12/31/2013
DP0006	1/1/2009	6/30/2012
DP0007	1/1/2009	12/31/2013
DP0008	1/1/2009	12/31/2013
DP0009	1/1/2009	12/31/2013
DP0010	1/1/2009	12/31/2013
DP0011	1/1/2009	12/31/2013
DP0012	1/1/2009	12/31/2013
DP0013	1/1/2009	12/31/2013
DP0014	1/1/2009	12/31/2013
DP0015	1/1/2009	12/31/2013



## Appendix B: List of Drugs Used to Define Exposures in this Request

Generic Name	Form	Route	Strength	Unit
Fentanyl Patch				
FENTANYL	PATCH 72 HOUR	TRANSDERMAL	25	MCG/HR
FENTANYL	PATCH 72 HOUR	TRANSDERMAL	50	MCG/HR
FENTANYL	PATCH 72 HOUR	TRANSDERMAL	75	MCG/HR
FENTANYL	PATCH 72 HOUR	TRANSDERMAL	100	MCG/HR
FENTANYL	PATCH 72 HOUR	TRANSDERMAL	12	MCG/HR



# Appendix C: List of International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM) Codes Used to Define Exclusion Criteria in this Request

<b>Opioid Poisoning</b>	Description	Code Type
965.0	Poisoning by opiates and related narcotics	ICD-9-CM Diagnosis Code
965.00	Poisoning by opium (alkaloids), unspecified	ICD-9-CM Diagnosis Code
965.01	Poisoning by heroin	ICD-9-CM Diagnosis Code
965.02	Poisoning by methadone	ICD-9-CM Diagnosis Code
965.09	Poisoning by other opiates and related narcotics	ICD-9-CM Diagnosis Code