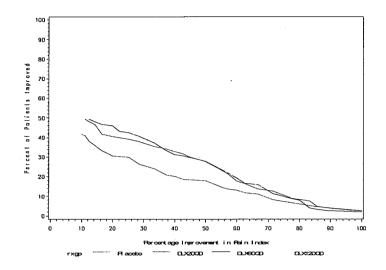
reduction or greater. In the curve below, we see evidence of response for duloxetine at doses of 20 mg QD, 60 mg QD, and 120 mg QD when compared to placebo.



The table below illustrates how duloxetine 60 mg QD and 120 mg QD are superior to placebo in terms of improvement of pain. Duloxetine 20 mg QD appears ineffective.

Responder	r Analysis of Brief Pain Inve	entory Ave	rage Pain Sco	ore at Endp	oint: All Ran	domized						
Patients in	the 3-Month Therapy Phas	e Placebo-0	Controlled St	udy HMCJ	Ţ							
		≥ 30%]	mprovement	in Pain	≥ 50% Impr Pa							
Study	Treatment Group	N	n(%)	p-value	n(%)	p-value						
HMCJ	Placebo	144	37 (26%)		26 (18%)							
	Duloxetine 20 mg QD	79	28 (35%)	0.126	22 (28%)	0.089						
	Duloxetine 60 mg QD	150	56 (37%)	0.032	42 (28%)	0.043						
	Duloxetine 120 mg	147	57 (39%)	0.017	44 (30%)	0.018						
	QD COST											
Dr. Buenc	onsejo's Table.											

Another secondary endpoint in HMCJ was the Fibromyalgia Impact Questionnaire. Although multiplicity adjustments were not made, in the table below we see that there appears to be improvement.

Fibromya	lgia Impact Questionnaire T	Cotal Score (Change from	Baseline t	o Endpoint*:	All						
Randomiz	Randomized Patients in the 3-Month Therapy Phase Placebo-Controlled Study HMCJ											
		FIQ Total	Score		FIQ Total S	Score						
	(BOCF) (LOCF/BOCF)											
Study	dy Treatment Group Baseline LSMean p- LSMean p-value†											
			Change	value†	Change							
HMCJ	Placebo	53.0	-8.0		-9.1							
	Duloxetine 20 mg QD	54.0	-11.1	0.130	-13.3	0.053						
Duloxetine 60 mg QD 51.7 -12.1 0.017 -12.9 0.032												
	Duloxetine 120 mg QD	51.7	-11.7	0.030	-12.7	0.048						

^{*}negative implies improvement

†unadjusted p-value

Dr. Buenconsejo's Table.

Dr. Buenconsejo's Table.

The table below shows yet another secondary endpoint of CGI-Severity. This table suggests that duloxetine 60 mg QD and 120 mg QD are effective.

	CGI-Severity at Enc Controlled Study HM		All Rando	mized Pa	tients in the	e 3-Month	Therapy F	hase	
			CGI CGI Improvement				CGI Improvement		
			Score (LO	OCF)	Score (W	OCF)	Score (Bo	OCF)	
Study	Treatment Group	N	LSMean Change	p- value	LSMean Change	p- value	LSMean Change	p- value	
HMCJ	Placebo	144	-0.6		-0.5		-0.6		
	Duloxetine 20 mg QD	79	-0.9	0.059	-0.8	0.063	-0.8	0.068	
	Duloxetine 60 mg QD	150	-0.9	0.021	-0.8	0.033	-0.8	0.054	
	Duloxetine 120 mg QD	147	-1.0	<0.001	-0.9	0.002	-0.9	0.005	
* negative	implies improvement	nt				•	•		

Analysis by Subgroups

The table below from Dr. Buenconsejo's review, shows mean BPI average pain score when subdivided by gender. We do not see a negative effect of duloxetine in men with respect to BPI

Endpoint	t Mean Brief Pair	n Inven	tory Averag	ge Pain Score:	All Randon	nized Patients	in the 3-
Month T	herapy Phase Pla	acebo-C	Controlled S	tudy by Gend	er: HMCJ		
			Wome				
Study	Treatment	N	Baseline	Endpoint	N	Baseline	Endpoint
	Group			Mean			Mean
				BOCF			
HMCJ	Placebo	137	6.6	5.5	7	6.1	5.6
	Duloxetine	76	6.8	5.1	3	6.3	6.3
	20 mg QD						
	Duloxetine	136	6.5	5.0	14	6.2	4.9
	60 mg QD				*		
	Duloxetine	143	6.4	4.8	4	7.0	4.5
	120 mg QD						
			LC	OCF/BOCF			•
HMCJ	Placebo	137	6.6	5.4	7	6.1	5.7
	Duloxetine	76	6.8	4.8	3	6.3	6.3
	20 mg QD					}	
	Duloxetine	136	6.5	4.9	14	6.2	4.3
	60 mg QD						
	Duloxetine	143	6.4	4.7	4	7.0	4.5
	120 mg QD						

Endpoint mean BPI average pain score subdivided by race does not show treatment differences when subdivided by race.

-	Mean Brief Pair				All Rando	mized Patients	in the 3-			
TVIOITEIT I			ebo-Controlled Study: HMCJ White Non-whit							
Study	Treatment	N	Baseline	Endpoint	N	Baseline	Endpoint			
	Group			Mean			Mean			
				BOCF						
HMCJ	Placebo	119	6.3	5.3	25	7.9	6.4			
	Duloxetine 20 mg QD	66	6.6	5.0	13	7.8	5.8			
	Duloxetine 60 mg QD	127	6.4	4.8	23	7.0	6.0			
	Duloxetine 120 mg QD	126	6.3	4.6	21	7.1	5.9			
			LC	OCF/BOCF						
HMCJ	Placebo	119	6.3	5.2	25	7.9	6.4			
	Duloxetine 20 mg QD	66	6.6	4.7	13	7.8	5.5			
	Duloxetine 60 mg QD	127	6.4	4.6	23	7.0	5.7			
	Duloxetine 120 mg QD	126	6.3	4.6	21	7.1	5.7			
Dr. Buen	consejo's Table.				_					

Likewise, the table below indicates that endpoint mean BPI does not show treatment differences when subdivided by age.

	Mean Brief Pair					mized Patients	in the 3-
Month 11	nerapy Phase Pla	icebo-C			IMCJ		
		<u> </u>	Age <	65		$Age \ge 65$	
Study	Treatment	N	Baseline	Endpoint	N	Baseline	Endpoint
-	Group			Mean			Mean
				BOCF			
HMCJ	Placebo	136	6.6	5.4	8	6.9	6.3
	Duloxetine	70	6.8	5.3	9	6.2	4.2
	20 mg QD						
	Duloxetine	135	6.5	4.9	15	6.3	5.2
	60 mg QD						
	Duloxetine	133	6.3	4.7	14	6.9	6.1
	120 mg QD						
			LC	OCF/BOCF			
HMCJ	Placebo	136	6.6	5.3	8	6.9	6.4
···	Duloxetine	70	6.8	4.9	9	6.2	4.3
	20 mg QD						
	Duloxetine	135	6.5	4.8	15	6.3	4.9
	60 mg QD						
	Duloxetine	133	6.3	4.6	14	6.9	6.0
	120 mg QD						
Dr. Buen	consejo's Table.						

Endpoint mean BPI average pain score subdivided by presence or absence of major depressive disorder does not demonstrate major differences in treatment effect.

Endpoin	nt Mean Brief Pain Invento	ry Ave	rage Pain S	core: All Ra	andomize	ed Patients in	n the 3-						
Month 7	Therapy Phase Placebo-Cor	ntrolled	l Study HM	ICJ by Majo	or Depres	ssive Disorde	er Status						
			No MDI	D		With MD	D						
Study	Treatment Group	N	Baseline	Endpoint	N	Baseline	Endpoint						
Mean Mean Mean													
			BOCF	•									
HMCJ	Placebo	109	6.4	5.3	35	7.0	6.0						
	Duloxetine 20 mg QD 57 6.6 5.1 22 7.2 5.4												
	Duloxetine 60 mg QD	115	6.4	4.9	35	6.7	5.1						
	Duloxetine 120 mg QD	113	6.3	4.7	34	6.6	5.1						
			LOCF/BO	CF *									
HMCJ	Placebo	109	6.4	5.2	35	7.0	6.0						
	Duloxetine 20 mg QD	57	6.6	4.8	22	7.2	5.0						
	Duloxetine 60 mg QD	115	6.4	4.8	35	6.7	4.9						
	Duloxetine 120 mg QD 113 6.3 4.7 34 6.6 4.9												
Dr. Buei	nconsejo's Table.												

10.1.2.8 Conclusions Regarding Efficacy Data in Study

This study provides evidence that duloxetine at doses of 60 mg QD and 120 mg QD is effective for of fibromyalgia. No treatment by subgroup differences were seen for gender, race, age, or presence or absence of major depressive disorder. Duloxetine at a dose of 20 mg QD may be effective.

10.1.2.9 Safety Results

The table below shows the common adverse events observed in this study, as reported by Lilly in the final study report. Adverse events (MedDRA preferred terms) that occurred in more than 2% of subjects and at a frequency greater than placebo in the duloxetine treatment groups are summarized below. Among duloxetine-treated subjects, the most frequently reported adverse events were nausea, headache, constipation, dry mouth, and somnolence.

Treatment-Emergent Adverse Events Preferred Term by Decreasing Frequency **All Randomized Patients** 3-Month Therapy Phase **Preferred Term** Treatment Percent N PATIENTS WITH ≥ 1 TREATMENT-EMERGENT EVENT 1) PLACEBO 144 111 77.1 2) DLX20QD 79 66 83.5 3) DLX60QD 150 124 82.7 4) DLX120OD 147 131 89.1 1) PLACEBO 144 16 11.1 Nausea 2) DLX20QD 79 18 22.8 3) DLX60QD 150 32 21.3 4) DLX120QD 147 31.3 46 1) PLACEBO 144 12 8.3 Headache 2) DLX20QD 79 10 12.7 23 150 3) DLX60QD 15.3 4) DLX120QD 147 22 15.0 1) PLACEBO 144 6 4.2 Constipation 2) DLX20QD 79 9 11.4 3) DLX60QD 150 15 10.0 4) DLX120QD 147 31 21.1 1) PLACEBO 144 7 4.9 Dry mouth 2) DLX20OD 79 7 8.9 3) DLX60QD 150 19 12.7 4) DLX120QD 18.4 147 27 1) PLACEBO 144 3.5 Somnolence 5 2) DLX20QD 79 7 8.9 3) DLX60QD 150 11 7.3 4) DLX120QD 147 22 15.0 1) PLACEBO 144 11 7.6 Diarrhoea 2) DLX20QD 79 5 6.3 3) DLX60QD 150 13 8.7 4) DLX120QD 147 15 10.2 4.2 1) PLACEBO 144 6 Fatigue 2) DLX20QD 79 8 10.1 150 18 12.0 3) DLX60QD 4) DLX120QD 147 11 7.5 Upper respiratory tract infection 1) PLACEBO 144 9 6.3 2) DLX20QD 79 8 10.1 3) DLX60QD 150 14 9.3 4) DLX120QD 147 12 8.2 Dizziness 1) PLACEBO 144 7 4.9 2) DLX20QD 79 5 6.3 3) DLX60QD 150 13 8.7 4) DLX120QD 147 16 10.9 1) PLACEBO Insomnia 144 5 3.5 2) DLX20QD 79 6.3 3) DLX60QD 150 10 6.7 4) DLX120QD 12.2 147 18 Decreased appetite 1) PLACEBO 144 1 0.7 2) DLX20OD 79 4 5.1 3) DLX60QD 150 11 7.3 4) DLX120QD 147 12 8.2 0.0 Hyperhidrosis 1) PLACEBO 144 0 2) DLX20QD 79 4 5.1 3) DLX60QD 150 8 5.3 4) DLX120QD 147 11 7.5 0.0 Tremor 1) PLACEBO 144 0 2) DLX20QD 79 1.3

	3) DLX60QD	150	5	3.3
	4) DLX120QD	147	14	9.5
Anorexia	1) PLACEBO	144	4	2.8
	2) DLX20QD	79	1	1.3
	3) DLX60QD	150	5	3.3
	4) DLX120QD	147	8	5.4
Pharyngolaryngeal pain	1) PLACEBO	144	3	2.1
	2) DLX20QD	79	3	3.8
	3) DLX60QD 4) DLX120QD	150 147	3 9	6.1
Course	1) PLACEBO	144	2	1.4
Cough	2) DLX20QD	79	6	7.6
	3) DLX60QD	150	4	2.7
	4) DLX120QD	147	5	3.4
Urinary tract infection	1) PLACEBO	144	6	4.2
	2) DLX20QD	79	0	0.0
	3) DLX60QD	150	4	2.7
	4) DLX120QD	147	7	4.8
Arthralgia	1) PLACEBO	144	5	3.5
	2) DLX20QD	79 150	6	2.5 4.0
	3) DLX60QD 4) DLX120QD	147	2	1.4
Anxiety	1) PLACEBO	144	3	2.1
Auxicty	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	3	2.0
	4) DLX120QD	147	6	4.1
Dysgeusia	1) PLACEBO	144	2	1.4
	2) DLX20QD	79	3	3.8
	3) DLX60QD	150	2	1.3
	4) DLX120QD	147	7	4.8
Muscle spasms	1) PLACEBO 2) DLX20QD	144 79	3	3.8
	3) DLX60QD	150	5	3.3
- Material 1997	4) DLX120QD	147	4	2.7
Pain	1) PLACEBO	144	2	1.4
	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	4	2.7
	4) DLX120QD	147	5	3.4
Pruritus	1) PLACEBO	144	4	2.8
	2) DLX20QD 3) DLX60QD	79 150	4	2.5 2.7
	4) DLX120QD	147	3	2.0
Vomiting	1) PLACEBO	144	5	3.5
Voluting	2) DLX20QD	79	1	1.3
	3) DLX60QD	150	5	3.3
	4) DLX120QD	147	2	1.4
Anorgasmia	1) PLACEBO	144	l	0.7
	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	2	1.3
Dunction	4) DLX120QD 1) PLACEBO	147	7	4.8 0.7
Bruxism	2) DLX20QD	79	3	3.8
	3) DLX60QD	150	3	2.0
	4) DLX120QD	147	5	3.4
Dyspepsia	1) PLACEBO	144	3	2.1
	2) DLX20QD	79	1	1.3
	3) DLX60QD	150	6	4.0
	4) DLX120QD	147	2	1.4
Myalgia	1) PLACEBO	144	1	0.7
	2) DLX20QD	79	2	2.5
	3) DLX60QD 4) DLX120QD	150 147	5	3.4
	[4) DLX120QD	14/	<u> </u>	3.4

Migraine	1) PLACEBO	144	1	0.7
9	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	3	2.0
	4) DLX120QD	147	5	3.4
Pain in extremity	1) PLACEBO	144	2	1.4
	. 2) DLX20QD	79	2	2.5
	3) DLX60QD	150	4	2.7
	4) DLX120QD	147	3	2.0
Sinus headache	1) PLACEBO	144	3	2.1
	2) DLX20QD	79	1	1.3
	3) DLX60QD	150	2	1.3
	4) DLX120QD	147	5	3.4
Vision blurred	1) PLACEBO	144	3	2.1
	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	1	0.7
	4) DLX120QD	147	5	3.4
Musculoskeletal pain	1) PLACEBO	144	3	2.1
	2) DLX20QD	79	1	1.3
	3) DLX60QD	150	2	1.3
	4) DLX120QD	147	4	2.7
Palpitations	ĺ) PLACEBO	144	1	.0.7
	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	4	2.7
	4) DLX120QD	147	3	2.0
Pollakiuria	1) PLACEBO	144	1	0.7
	2) DLX20QD	79	3	3.8
	3) DLX60QD	150	2	1.3
	4) DLX120QD	147	4	2.7
Rash	1) PLACEBO	144	1	0.7
	2) DLX20QD	79	2	2.5
	3) DLX60QD	150	1	0.7
	4) DLX120QD	147	6	4.1

10.1.3 Protocol F1J-MC-HMEH

A 1-Year Safety Study of Duloxetine in Patients with Fibromyalgia

10.1.3.1 Objective/Rationale

The primary objective was to assess the safety and tolerability of duloxetine at doses up to 120 mg once daily (QD) for up to 60 weeks in patients diagnosed with fibromyalgia, as assessed by the American College of Rheumatology (ACR) criteria.

Secondary objectives included evaluating the persistence of efficacy of duloxetine for up to 1 year, evaluating the long-term differences in efficacy between duloxetine 60 mg/day and 120 mg/day, and evaluating the gain in efficacy in nonresponders associated with increasing duloxetine dosage from 60 to 120 mg/day.

10.1.3.2 Overall Design

This was a Phase 3, outpatient 62-week safety study, which included an 8-week open-label period, followed by a 52-week double-blind, randomized period, and concluding with a 2-week taper period. The study was designed to evaluate the safety and tolerability of duloxetine 60 mg and 120 mg once daily (QD) in patients diagnosed with fibromyalgia. Patients were assigned to duloxetine 30 mg QD for 1 week, duloxetine 60 mg QD for 7 weeks, and then were randomized 2:1 to 120 mg QD and 60 mg QD within response status (defined as \geq 50% reduction from baseline to Week 8 in the Brief Pain Inventory (BPI) average pain score) for 52 weeks. Patients then entered a 2 week taper phase.

10.1.3.3 Population and Procedures

10.1.3.3.1 Inclusion/Exclusion Criteria

Planned enrollment was approximately 320 subjects randomized 1:1 to each of two treatment arms:

- duloxetine 60 mg QD
- duloxetine 120 mg QD

To be eligible, subjects were required to meet the following criteria:

- Male and female outpatients ≥ 18 years of age.
- Primary FMS as defined by the ACR: widespread aching pain in all four quadrants of the body and axial skeleton for >3 months duration and ≥11 of 18 tender points under digital palpitation examination with an approximate force of 4 kg/cm2.

• Score of ≥4 on the average pain item of the Brief Pain Inventory (BPI-Modified Short Form) at Visit 1 and Visit 2.

Subjects were to be excluded for:

- Any current primary Axis I diagnosis other than major depressive disorder (MDD), as defined by the Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV)
- Any current or previous DSM-IV Axis I diagnosis of psychosis, bipolar disorder, or schizoaffective disorder.
- Primary DSM-IV Axis I diagnosis of anxiety disorder within the past year (including panic disorder, agoraphobia without a history of panic disorder, obsessive compulsive disorder [OCD], post-traumatic stress disorder [PTSD], generalized anxiety disorder [GAD], and social phobia). Note: Patients with specific phobias were permitted to participate in the study.
- DSM-IV Axis II disorder, which, in the judgment of the investigator, would interfere with compliance with the study protocol.
- Suicidal risk as judged by the clinical investigator or as defined by a score of 2 or greater on question 9 of the Beck Depression Inventory-II (BDI-II).
- Past-year history of substance abuse or dependence, excluding nicotine and caffeine.
- Positive urine drug screen for any substance of abuse or excluded medication. Note: If the patient had a positive drug screen at Visit 1 for an excluded prescribed medication that may not have had an adequate wash-out period, a retest could be performed prior to Visit 2. If the retest was positive for the parent compound, the patient was to be excluded.
- Pregnancy/nursing
- Pain symptoms related to traumatic injury, structural rheumatic disease, or regional rheumatic disease (such as osteoarthritis, bursitis, tendonitis) that would interfere with interpretation of outcome measures.
- Regional pain syndrome, multiple surgeries or failed back syndrome.
- Confirmed current or previous diagnosis of rheumatoid arthritis, inflammatory arthritis, or infectious arthritis, or an autoimmune disease (for example, systemic lupus erythematosus).
- Any of the following laboratory values at Visit 1:
- An abnormal C-Reactive Protein level (>12) that is indicative of autoimmune disease
- Antinuclear antibody (ANA) with a dilution of >1:320
- Rheumatoid factor of ≥15 IU/ml.
- Alanine transaminase (ALT) >1.5 times the upper limit of normal (ULN), based on performing laboratory reference ranges.
- Abnormal thyroid-stimulating hormone (TSH) concentrations. Note: Patients previously
 diagnosed with hypothyroidism who had been treated on a stable dose of thyroid
 supplement for at least the past 3 months, with normal TSH concentrations and clinically
 euthyroid were permitted to participate in the study.
- Serious or unstable cardiovascular, hepatic, renal, respiratory, or hematologic illness, symptomatic peripheral vascular disease, or other medical condition (including unstable hypertension or not clinically ethyroid) or psychiatric conditions that, in the opinion of

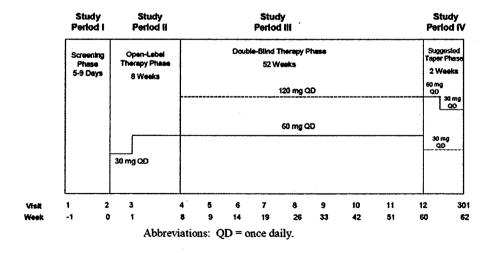
the investigator, would compromise participation or be likely to lead to hospitalization during the course of the study.

- Acute liver injury (such as hepatitis) or severe cirrhosis (Child- Pugh Class C).
- Uncontrolled seizures.
- Uncontrolled narrow-angle glaucoma.
- Any excluded medications that could not be discontinued at Visit 1.
- Recent (past 14 days) monoamine oxidase inhibitor (MAOI) or anticipated need to take within 5 days after discontinuing the study.
- Current or past treatment with duloxetine
- · Previous participation in a duloxetine study
- Past 30 days investigational drug use
- Known hypersensitivity to duloxetine or any of the inactive ingredients history of frequent or severe allergic reactions to multiple medications.
- Patients could also be excluded if they were deemed by the investigator to be "treatment-refractory" or to have disability compensation issues that might compromise their responses.
- Employees of Lilly, Boehringer-Ingelheim, or investigator sites were also not eligible to participate.
- Disallowed concomitant medications included but were not limited to: monoamine oxidase inhibitors (MAOIs), selective serotonin reuptake inhibitors (SSRIs) and serotonin and norepinephrine reuptake inhibitors (SNRIs), in addition to illicit drugs.

10.1.3.3.2 Procedures

The protocol described four study phases: a screening phase, an open-label phase, a double-blind phase, and a taper/discontinuation phase.

A schematic diagram illustrates these phases:



Screening phase: Study Period I was a 1-week screening phase; during this period, no study drug was dispensed and patients were screened for study entry eligibility. After signing the informed consent form (ICD), each patient was assigned a patient number. At Visit 1, patients underwent screening tests and an electrocardiogram (ECG). All criteria for enrollment, including the ECG and safety and laboratory analyses (clinical chemistry, hematology, urinalysis, urine drug screen, and pregnancy test for all females) were verified prior to enrollment at Visit 2. Patients who did not meet inclusion criteria or who met exclusion criteria were discontinued from the study.

Open-label phase: Study Period II (Visit 2 to Visit 4) was an open-label therapy phase of approximately 8 weeks. Patients who met entry criteria were assigned to duloxetine 30 mg QD for 1 week, followed by duloxetine 60 mg QD for 7 weeks. Patients who did not tolerate duloxetine 60 mg QD during the open-label treatment period were discontinued from the study and entered the taper phase.

Double-blind phase: Study Period III (Visit 4 to Visit 12) was a double-blind therapy phase of approximately 52 weeks. Patients were randomly assigned in a 2:1 fashion at Visit 4 (Week 8) to receive either duloxetine 120 mg (60 mg x 2) QD or duloxetine 60 mg QD. Patients who did not tolerate duloxetine 60 mg QD or duloxetine 120 mg QD during the double-blind treatment period were discontinued from the study and entered the taper phase.

Taper/Discontinuation phase: Study Period IV (Visit 301) was a 2-week taper phase designed to minimize discontinuation-emergent adverse events (DEAEs). Patients who were taking duloxetine 120 mg QD at their point of discontinuation were provided duloxetine 60 mg QD for 1 week, followed by duloxetine 30 mg QD for 1 week. Patients who were taking duloxetine 60 mg QD at their point of discontinuation received duloxetine 30 mg QD for 2 weeks.

10.1.3.3.2.1 Dosing

As described above, eligible subjects were to be randomized to treatment with duloxetine 60 mg once daily (QD) for eight weeks, then to duloxetine 60 mg QD or duloxetine 120 mg QD in the ratio of 2:1.

Randomization was to occur at Visit 2, with assignment to treatment groups determined by a computer-generated random sequence using an Interactive Voice Response System (IVRS). Patients were to be stratified for presence or absence of MDD, with each stratum (depressed and non-depressed) randomly assigned within sites to achieve a relative balance across treatments.

Study drug treatments included:

- o 30-mg capsules of duloxetine enteric-coated pellets,
- o 60-mg capsules of duloxetine enteric-coated pellets,
- O Placebo capsules identical in appearance to duloxetine capsules.

Study medication was packaged as indicated and dispensed to the patient at the principal investigator's study site. Study drug packaging was labeled with a unique identifier for drug accountability. Study drug bottles and blister packs contained additional capsules to allow for

sufficient study medication. Clinical trial materials were labeled according to the country's regulatory requirements.

Each patient was assigned a patient number after signing and dating the ICD. Enrollment and patient progress were tracked using an Interactive Voice Response System (IVRS). At Visit 2, all patients who met enrollment criteria received duloxetine 30 mg QD for 1 week, followed by duloxetine 60 mg QD for 7 weeks.

At Visit 4 (Week 8), patients were randomly assigned in a 2:1 fashion to receive either duloxetine 120 mg QD or 60 mg QD. Randomization was carried out at Visit 4 using IVRS within site and patient response status (response defined as a ≥ 50% reduction from Visit 2 [Week 0] baseline to Visit 4 [Week 8] in the Brief Pain Inventory [BPI] 24-hour average pain score).

To maintain blinding in Study Phase III, patients assigned to duloxetine 60 mg received 1 duloxetine 60 mg capsule and 1 placebo capsule QD while patients assigned duloxetine 120 mg received 2 duloxetine 60 mg capsules QD. Similarly for the Taper Phase, each patient was assigned 1 duloxetine (either 30 mg or 60 mg) capsule and 1 placebo capsule QD.

The dosing regimen for each treatment arm is illustrated in the table below:

Study Phase	Treatment	Dosage Form and Frequency	Dose Duration	Packaging
Screening	None	N/A	N/A	N/A
Open-Label	Duloxetine	30 mg QD 60 mg QD	8 weeks	Blister Packs, Bottles
Double-Blind	Duloxetine	60 mg QD (plus 1 placebo capsule) 120 mg (60 mg X 2 capsules) QD	52 Weeks	Bottles
Taper/ Discontinuation	Duloxetine	60 mg QD 30 mg QD Placebo QD (1 capsule per treatment group)	2 weeks	Blister Packs
Abbreviations: N/A	= not applicable;	QD = once daily.	•	

10.1.3.3.2.2 Schedule of Visits and Assessments

The overall study schematic is illustrated in the figure below.

F1J-MC-HMEH Study Report

Page 5938

Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET
Week	1	0	1	8	9	14	19	26	33	42	51	60	62	>W1
Description					1								1	
Informed	X										T			
Consent				<u> </u>						l	<u> </u>		<u> </u>	
Demographics	X			Π							l			
Medical	x							Г						
History						1	-						L	
Physical	X										Ī			
Exam			1	l	1		1.				<u> </u>		İ	
Historical	X			Ī	Т					T				
Illness				l										
ACR Criteria	X										Π			
for			l									1	1	1
Fibromyalgia				1									1	
Habits	X													
Alcohol		x	X	X	X	Х	x	X	x	X	X	X	х	х
Consumption				1				l				İ		1 *
Height		X		T					1					
Weight		Х	X	Х	X	Х	X	X	X	X	X	X	X	X
ECG	X		T						1		1	T	1	
Vital Signs		x	x	x	x	X	X	X	X	x	X	x	x	х
Adverse	x	X X	X	X	X	X	X	X	X	X	X	X	X	x
Events/]									1		1	1	1
Pre-existing					1		1	İ	1	1				
conditions									İ	1		1	1	
Concomitant	x	x	x	x	x	\mathbf{x}	x	x	X	Х	x	X	x	x
Medications									-			1		
Dispense		x	x	X	x	X	X	х	x	X	X	X		Xa
Drug	1					1							1	
Return Drug/	 		x	x	x	X	x	X	x ·	X	X	X	x	X
accountability			"	1	'`	"			1		1	-		1
FIQ	_	X	 	x		x		x	\vdash	x	 	X		X
Tender-point		X	 	x	+	X	 	x	+	x	 	X	1	x
pain threshold		1		ľ		1		 ^		"		"		1"
BPI-	¥	x	 	x	1	x	+	x	 	x	+	X	 	x
Modified	1	1		l"		^		"		"		"		1"
Short Form							-							1
PGI-	Н			x		X	 	x	1	x	1	x	1	X
Improvement				 ^		"	1	 ^		1		l		-
PGI-Severity	\vdash	x	 	 	 	 	 	 	 	1	T	 	1	—
CGI-Severity	-	X	 	x	 	x	+	х	 	x	1	x	 	x
SDS	-	X	 	x	 	X	 	X	 	X	1-	X	1	X
BDI-II	v	X	X	x	x	X	x	x	X	X	x	X	x	X
Hematology	X	 ^	X	X	^	X	+^-	X	^_	X	X	x	+^	X
nematotogy	14	<u> </u>		1^	1	1^	<u></u>	1	1	14	14	14	1	14

Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET
Week	-1	0	1	8	9	14	19	26	33	42	51	60	62	>W1
Blood Chemistry	x		x	X		X		X		X	X	X		X
Urine Drug Screen	Х													
Pregnancy Test (females only)	X													
Urinalysis	X		Х	X	T	X		X		X	X	X		X
Patient Summary													X	X

a If ET visit is followed by taper, drug will be dispensed.



10.1.3.4 Evaluations/Endpoints

The following efficacy measures were collected on CRFs at the times shown in the study schedule.

- The Brief Pain Inventory-Modified Short Form (BPI) (Severity and Interference items) is a self-reported Likert scale that measures the severity of pain and the interference of pain on function. The severity scores range from 0 (no pain) to 10 (pain as bad as you can imagine). There are 4 questions assessing the severity for worst pain, least pain, average pain in the past 24 hours, and pain right now. The interference scores range from 0 (does not interfere) to 10 (completely interferes). There are 7 questions assessing the interference of pain in the past 24 hours for general activity, mood, walking ability, normal work, relations with other people, sleep, and enjoyment of life.
- The Fibromyalgia Impact Questionnaire (FIQ) is a self-administered questionnaire that measures fibromyalgia patient status, progress, and outcomes over the past week. This questionnaire is designed to measure the components of health status that are believed to be most affected by fibromyalgia. The FIQ is composed of a total of 20 items; the first 11 items measure physical functioning, and each item is rated on a 4-point Likert scale. Items 12 and 13 measure the number of days the patient felt well and the number of days the patient felt unable to work due to their fibromyalgia symptoms. Items 14 through 20 are numerical 11-point Likert scales (marked in 10-mm increments) on which the patient rates work difficulty, pain, fatigue, morning tiredness, stiffness, anxiety, and depression. Because some patients do not do some of the tasks listed, they are given the opportunity to delete items from scoring. The total score ranges from 0 to 80, where higher scores indicate a more negative impact.
- The Patient's Global Impression of Severity (PGI-Severity) scale is completed by the patient and measures the degree of severity at baseline. The score ranges from 1 (normal, not at all ill) to 7 (among the most extremely ill patients)
- The Patient Global Impressions of Improvement (PGI-Improvement) scale is completed by the patient and measures the degree of improvement at the time of assessment. The score ranges from 1 (very much better) to 7 (very much worse).
- The Clinical Global Impressions of Severity (CGI-Severity) scale evaluates the severity of illness at the time of assessment. The score ranges from 1 (normal, not at all ill) to 7 (among the most extremely ill patients). The CGI-Severity is administered by a study physician in the presence of the patient or after having been in the presence of the patient.
- The Tender Point Pain Threshold is assessed for all 18 tender points by a study physician or qualified study personnel, as defined in Lilly training materials. A dolorimeter (algometer) is used to exert the pressure at each point and to measure the threshold reading; when the patient first indicated pain, the threshold is recorded in kg/cm2.
- The patient-rated Sheehan Disability Scale (SDS) is used to assess the patient's general level of disability. The scale measures a patient's evaluation of the degree to which his or her symptoms disrupt work, social, and/or home life.

The following safety measurements were collected at the times shown in the study schedule.

- Adverse Events: During the study, AEs were collected at every visit, regardless of relationship to study drug. Investigators were responsible for monitoring the safety of patients who entered this study and for alerting Lilly or its designee to any event that seemed unusual. In addition, the investigator was instructed to record his or her assessment of the potential relatedness of each AE to study drug or drug delivery system. Adverse events were captured as actual terms and coded to Medical Dictionary for Regulatory Activities (MedDRA) terms by blinded Lilly clinical personnel.
- Concomitant Therapies: Concomitant therapies taken during the study were recorded. All
 medications currently taken or stated at the time of ICD signing were considered
 concomitant.
- Laboratory Data: During the study, laboratory tests, including chemistry, hematology, and urinalysis panels, were collected at regular intervals. A urine drug screen, and pregnancy test (if applicable) were completed at screening.
- Vital Signs: During the study, vital signs, including sitting blood pressure (systolic and diastolic), sitting pulse rate, weight, and height, were collected as indicated in the Study Schedule.
- Electrocardiograms (ECGs): An ECG was collected only at baseline to determine eligibility of the patient for entry into the study.
- The patient-rated Beck Depression Inventory-II (BDI-II) questionnaire was used to measure severity of depression at each study visit. The scores can range from 0 to 63 where higher scores indicate more severe depressive symptoms.

10.1.3.5 Statistical Plan

Efficacy Analyses

Descriptive statistics (including mean, median, standard deviation [SD], minimum, and maximum) were provided for the change from baseline to endpoint for each of the efficacy variables. Within-group change was evaluated by a Student's t-test to test the null hypothesis of no significant change from baseline within the open-label study phase. Between-group differences during the double-blind phase were assessed using 2 separate models. The primary model was a fixed-effects ANCOVA model assessing mean change from baseline to endpoint. Main effects for treatment group and investigative site were included, along with the baseline value of the respective measure as a covariate. Treatment-by-investigator interactions also were reported. A likelihood-based, MMRM analysis was used for confirmatory purposes that included the main effects of treatment group, site and visit, baseline value for the respective measure as a covariate, and the baseline-by-visit and treatment-by-visit interactions.

To evaluate the persistence of the efficacy of duloxetine 60 mg, additional analysis for BPI average pain score was conducted on the patients who had at least a 50% reduction on BPI average pain score at the entry of the double-blind study phase (Visit 4, Week 8) and remained on duloxetine 60 mg in the double-blind study phase. In the analysis, the change from baseline to endpoint on BPI average pain was summarized along with a 90% two-sided confidence interval (CI). When the upper bound of the 90% CI was less than 0.5, the null hypothesis that duloxetine

treatment effect on pain reduction on the fibromyalgia patients was not maintained in the 1-year double-blind study phase was rejected at the significance level of 0.05.

10.1.3.6 Results

10.1.3.6.1 Study Conduct/Outcome

10.1.3.6.1.1 Subject Characteristics

The Applicant planned to enroll a total of 345 patients who met entry criteria. In the double-blind phase, a total of 104 were assigned to duloxetine 60 mg QD and 203 to duloxetine 120 mg QD.

10.1.3.6.1.2 Enrollment by Center

Enrollment was distributed among centers as listed in the table below:

All Enrolled Patients	All Enrolled Patients
Investigator	(N=350)
	n (%)
100	16(4.57)
101	11(3.14)
102	22(6.29)
103	21(6.00)
200	10(2.86)
201	18(5.14)
202	17(4.86)
203	8(2.29)
300	10(2.86)
301	7(2.00)
302	10(2.86)
303	8(2.29)
304	12(3.43)
305	11(3.14)
307	14(4.00)
400	6(1.71)
401	9(2.57)
402	9(2.57)
403	17(4.86)
500	11(3.14)
501	2(0.57)
502	13(3.71)
503	12(3.43)
504	15(4.29)
600	6(1.71)
601	4(1.14)
602	2(0.57)
603	7(2.00)
700	3(0.86)
701	10(2.86)
702	4(1.14)
703	8(2.29)
704	17(4.86)

10.1.3.6.1.3 Subject Disposition

A total of 350 patients were enrolled in the open-label phase. 307 entered the double-blind and were randomized in a 2:1 ratio.

Reasons for discontinuation during the open-label phase are shown in the table below (Lilly's table HMEH.10.2)

Primary Reasons For	$\begin{array}{ccc} DLX60QD \\ (N = 350) \end{array}$
Discontinuation	n (%)
DC due to ANY reason	43 (12.3)
Adverse Event	26 (7.4)
Subject Decision	9 (2.6)
Lost to follow up	4 (1.1)
Protocol Violation	3 (0.9)
Lack of Efficacy	1 (0.3)
Patients Continuing	307 (87.7)

Patient disposition for the double-blind phase are shown in the table below:

	DLX 60 QD	DLX 120 QD
	N=104	N = 203
Completed acute phase	71 (68%)	124 (61%)
Discontinued		
Adverse Event	14 (13%)	34 (17%)
Physician decision	5 (5%)	19 (9%)
Lost to follow-up	2 (2%)	3 (1%)
Protocol Violation	4 (4%)	2 (1%)
Lack of Efficacy	8 (8%)	20 (10%)
Sponsor Decision		1 (1%)

At study completion, across all treatment groups, the most frequent reasons for withdrawal were adverse event (n=48), lack of efficacy (n=28), physician decision (n=24), protocol violation (n=6), lost to follow-up (n=5), and sponsor decision (n=1).

10.1.3.6.2 Demographics

The table below illustrates demographic and baseline characteristics of the 2 treatment groups. Overall, most patients were female Caucasians, with a median age of 50 years, a median weight of 70 kilograms, and a median height of 160 cm.

Patient Demographic Characteristics at Baseline All Enrolled Patients

Variable	All Enrolled Patient (N = 350				
Sex					
No. of Patients		350			
Pemale	335	(95.7)			
Male	15	(4.3)			
Age in Years at Consent					
No. of Patients		350			
Kean		48.97			
Median		49.55			
Standard Dev.		11.07			
Minimum		18.41			
Kaximus		83.82			
Rade					
No. of Patients		350			
African	3				
Caucasian	214	(61.1)			
East Asian'	46	(13.1)			
Hispanic	82	(23.4)			
Native American	1	(0.3)			
West Asian	4	(1.1)			

Patient Demographic Characteristics at Baseline All Enrolled Patients (Concluded)

	All Eurolled Patients
Variable	(N = 350)

Weight in Kg at Baseline	
No. of Patients	350
Keen	69.95
Median	67.00
Standard Dev.	14.74
Minimum	41.00
Maximum	125.00
Height in Cm at Baseline	
No. of Patients	349
Mean	159.44
Median	160.00
Standard Dev.	7.09
Minimum	142.00
Maximum	189.00

10.1.3.6.3 Dosing Information

The table below illustrates exposure duration and compliance with medication across treatment groups during the study. Groups were similar with respect to mean duration of exposure.

Table HMEH.12.3. Exposure to Study Drug
All Enrolled Patients
Overall Study Phase

Variable .	All Enrolled Patients (N = 150)
Duration of Exposure (Days)	
No. Patients	349
Mean	298.3
Median	416.0
Standard Deviation	161.2
Minimum .	1.0
Meximum	491.0
Patient Years	285.1
Duration of Exposure (Days) - n(%)	
No. Patients	349
- 0	0 (0.0)
>0	349 (100.0)
>=7	332 (95.1)
>=14	326 (93.4)
>=30	319 (91.4)
>=60	303 (86.8)
>=90	283 (81.1)
>=120	269 (77.1)
>=103	241 (69.1)
>=365	205 (58.7)

N = Number of enrolled patients, n = Number of patients within each time interval. Patient years are calculated as total exposure days / 365.25.

Report: RMP.F1JO.HMERSTAT.FIRAL(SMEXPOL2) Program: RMP.F1JSHMEH.SASPOM(SMEXPOL) Data: RMP.SAS.F1JS.L.MCHMEH.ADS.DBF

10.1.3.6.4 Protocol Violations

Protocol deviations were identified programmatically by searching the database for randomized subjects who had screening or baseline values falling outside of the ranges specified by inclusion or exclusion criteria (eg, values for age, weight, medical history, smoking history, laboratory parameters, etc). The database was also searched for subjects who used prohibited medications during the study and subjects who were withdrawn from the study due to protocol deviations. In addition, lists of protocol deviations were compiled by site monitors during routine center visits or during remote review of electronic data. All deviations identified by the methods described above were reviewed by Lilly for clinical significance. Those considered potentially significant are summarized in the table below.

		Significant Protocol Violations All Enrolled Patients PLJ-NC-NOES
Violation Type	Inv/Patient	Violation Details
Exclusionary Con. Med. Taken	103/1326 200/2004 200/2007 202/2203 203/2303 303/3310 303/3310 305/3509 105/3514 307/3705	SERTRALIME AMITRIPTIME VALPROATE SOUTH SIMMET AMITRIPTIME CTCLOSEMEAPEME CTCLOSEMEAPEME OPWERADRIME AMITRIPTIME AMITRIPTIME AMITRIPTIME AMITRIPTIME PROMETMALIME
	307/3706 307/3711 307/3711 409/4004 401/4104 402/4205 403/4306 403/4310 403/4317 504/5410 701/7105	PROMETUALINE PROMETUALINE CYCLOSEMEAPRIME CYCLOSEMEAPRIME CYCLOSEMEAPRIME CYCLOSEMEAPRIME CYCLOSEMEAPRIME PROMETUME PROMETUME PROMETUME MITTERITURE MI
	702/7200 704/7407 704/7407	Medicom A Gabrientin Proceedrealine
Inclusion/Exclusion	704/7410 102/1215 102/1219	DAMPRIDGE Excl oritoria \$17 violated: Pt randomized with acute liver injury(such as hepetitis) or severe cirrhosis. Excl oritoria \$17 violated: Pt randomized with acute liver injury(such as hepatitis) or severe cirrhosis.
Inclusion/Exclusion	103/1303 301/3104	Excl criteris \$17 violated: Pt randomized with acute liver injury(such as hepatitis) or severs distribute. Excl criteris \$17 violated: Pt randomized with acute liver injury(such as hepatitis) or severe distribute.
	703/7302	nepatries or severe universe. Pt did not receive > - 7 day washout from an antidepressant, antipsychotic, or anticomvuleant medication. Excl criteria \$17.70/alteic Pt randomized with scute liver injury(such as
Restricted Con. Med. Overused	704/7402 102/1200 102/1211	hepatitis) or severe cirrhosis. DEZAMETKASOMI SUDESOMIDE
Restricted Con. Hed. Overused	102/1211 103/1212 200/2002 200/2002 201/2103 201/2116 202/2121 202/2121 202/2121 202/2121 202/2121 202/2120 305/3103 305/3103 305/3103 305/3104 305/3104 305/3104 305/3106 402/4205 402/4205 402/4205 402/4206 402/4206 402/4206 402/4206 402/4206	MELATICAM PAMADITHE CO REPRICTORAN COORIN PAMADITHE CO REURROPEN MICH TAU DICLOFEMAN CONTORDOME CODRAL COLD & FLU PAMADITHE CO STORICONIE DIFROSPAN CITCORDERAPRINE CITCORDERAPRINE CITCORDERAPRINE CITCORDERAPRINE CITCORDERAPRINE REPROSEN CITCORDERAPRINE FINITANTA FINITANTA FINITANTA FINITANTA REPROSEN REPROSEN REPROSEN REPROSEN REPROSEN REPROSEN REPROSEN REPROSEN REPROSEN REPROSENTIONE INURROPEN INURROPE
	601/4315 601/5203 501/5203 502/5203 502/5205 502/5205 502/5207 502/5207 502/5207 502/5207 502/5207 502/5207 502/5207 502/5207 502/5207 502/5207 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 702/7200 703/7304 703/7304 703/7304	CONTINUES CONTIN
	704/7403 704/7406 704/7408 704/7416	Sulindac Dicloperac Co-capalgan Chloreoxasone

Protocol violations included subjects who did not meet inclusion/exclusion criteria, generally with no implications for interpretation of efficacy results, as well as several subjects who took contraindicated medications during the treatment phase and overused restricted contraindicated medications during the treatment phase.

10.1.3.7 Efficacy Results

Applicant's Analysis

The primary objective of this study was to assess long-term safety and tolerability of duloxetine at doses up to 120 mg/day.

The table below summarized the mean change in BPI average pain score by treatment group for all randomized patients with a baseline and at least 1 post-baseline BPI measure during the double-blind study phase. The Applicant states that there was no significant difference in mean change in average pain scores between treatment groups.

Table HMEH.11.13. Brief Pain Inventory Average Pain Score Mean Change from Baseline to Endpoint Ali Randomized Patients
Double-Blind Study Phase

				Baselin	-					ndpota					Change		
	#	Mean	SD.	Median	Min	Max	Hea	n		Hedian		Kax	Mean		Median		Kax
1) 26X600D	102	4.31		4.00											******		
2) DEX12000	202	4.59										10.00	-0.05		9.00		\$.50
51 DET11000	202	4.59	2.17	5.00	0.00	9.00	4.	53	2.77	5.00	0.00	10.00	-0.0\$	2.61	9.00	-8.00	9.00
Internation	(Type II	(88)	Rev	Data	,	free tmes	t-by-In	vest i	gator	. ,	- 1 .	06	de - 14.2	73 p	394		
Main Effects	(Type)	(I SS)			Raw I	Data											
Treatment			7 -	0.47	df .	- 1,267	p4	95									
Pooled Inves	tigetor		7 -	2.50	at .	- 14,287	p = .0	02									
Least Square	. Keens	for Ch	ange f	-	eline												
I) DEREGOD		-9.37	(3)		26)												
2) DLE120QD		-0.16	(8)	E - 0.	19)												
Pairwise Com	parison	of LS I	Kaan e														
DEXECOP-DEXI				-0.20	Two-s	#20 Deb#	CI . (-0.7	4. 0	.36)	ε	-0.6		495			
									-				-				
	148ts *	TER & I	base I li		45 144	est one	200-21s	eing :	-JROQ	baseli	se val	ue.					
Mumber of pas	doracos	ETOM AL	e, and	Treatm Treatm	ant *P	cment, P	neerida poted I:	tor f	tgato or th	e inte	Besell Esctio	ne for	main ette ue.	ca p.v.	alues.)	todel -	Treat
Funder of participation of a color of the co	petor, 1																
II sums of			. (F.O.90)	r3146													

The Applicant states that for persistence of efficacy analysis, the mean change in BPI average pain score from baseline to endpoint did not reach significance in the initial responders on duloxetine 60 mg QD. However, initial responders began and ended the double-blind study phase with mean BPI average pain scores in the mild range that were well below the mean baseline pain scores at baseline. In addition improvements in mean average pain score were observed for non-responders within both treatment groups.

The table below presents the PGI-Improvement score for all randomized patients during the double-blind study phase. The Applicant states that a significantly lower (improvement) mean PGI-I score at endpoint was observed with duloxetine 60 mg QD when compared with duloxetine 120 mg QD.

Table HMEH.11.21. Patient's Global Impressions of Improvement Score Mean at Endpoint

All Randomized Patients Double-Blind Study Phase

Medien Min 2.40 1.25 2.00 1.00 1.54 3.00 1.00 2) DLX120QD

At = 14.271 P = -907 Interaction (Type II SS)

Main Effects (Type II SS) coled Investigator

Peirwise Comparison of LS Means
00x500D-05x1200D diff = -0.46 Two-mided 95% CI : (-0.20, -0.11) t - -2.63 p - 0.009

Number of patients with baseline PGI-S and at least one non-missing post-baseline PGI-I value. II sums of aquares from AMCOVA Model - Treatment, Pooled Investigator, and Baseline PGI-S for main 1 - Treatment, Pooled Investigator, Saselius and Treatment Pooled Investigator for interaction p-val

eport: 200-FlJo.SHEHSTAT.FIHAL(LOPGI311) rogram: 200-FlJSHEHR.SASPOR(LOPGI31) eta: 200-SAS.FlJS.L.NCSHEH.ADS.DSF

Reviewer's Analysis

Statistically significant persistence of efficacy was not demonstrated in patients who had at least a 50% reduction in BPI average pain score at Week 8 (end of open-label phase) and had remained on duloxetine 60 mg QD in the 52-week double-blind phase. Dr. Buenconsejo applied imputation strategies to assign bad scores to dropouts and found that less than 50% of patients responded at the end of the 1-year double-blind phase. This means that approximately 20% of the patients who completed the study were not able to maintain their responder status at study end. At the end of the 1-year period, patients who were non-responders at week 8 did even worse, with only a 25% response.

Approximately 20% of the patients who did not respond at the end of week 8 and were administered duloxetine at 120 mg QD during the double-blind phase responded at the end of the study, implying that dose raising the dose from 60 mg QD to 120 mg QD does not improve pain response in fibromyalgia.

In her statistical review, Dr. Buenconsejo reanalyzed Study HMEH and found that:

Applying BOCF to patients who dropped out of the study in the responder group (i.e. 39% of the patients in the duloxetine 60 mg QD group and 27% in the 120 mg QD group), less than 50% responded at the end of the study. This implies that close to 20% of the patients who completed the study were not able to maintain their response at the end of the study. However, this is still a bit better compared to patients in the nonresponder group in which only less than 25% of patients responded at the end of the study. Another important finding from this analysis is that only 20% of the patients who did not respond at Week 8 and were given 120 mg QD during double-blind phase responded at the end of the study. This implies that increasing the dose did not improve their pain response.

Applying LOCF/BOCF to patients who dropped out of the study in the responder group yield somewhat similar result to the BOCF strategy except that almost 50% responded at the end of the study. Patients who are responder at Week 8 appear to still be a bit better in terms of responding at the end of the study compared to the non-responder group. However, there is no evidence that there is persistence of effect among those initial responders who remained in the duloxetine 60 mg QD.

The following table is a responder analysis of BPI Average Pain Score at endpoint:

Responder Anat Endpoint	alysis (> 50% reduction fro	om We	eek 0) of Brief Pain	Inventory 2	Average Pain Score		
		Res	sponder at end of Visit 4	Non-responder at end of Visit 4			
Study	Treatment Group	N	n(%)	N	n(%)		
LOCF	Duloxetine 60 mg QD	37	23 (62%)	67	19 (28%)		
	Duloxetine 120 mg QD	75	43 (57%)	128	37 (29%)		
BOCF	Duloxetine 60 mg QD	37	14 (38%)	67	17 (25%)		
	Duloxetine 120 mg QD	75	34 (45%)	128	26 (20%)		
LOCF/BOCF	Duloxetine 60 mg QD	37	19 (51%)	67	19 (28%)		
	Duloxetine 120 mg QD	75	37 (49%)	128	32 (25%)		
Dr. Buenconse	jo's Table.						

10.1.3.8 Conclusions Regarding Efficacy Data in Study

Study HMEH did not demonstrate that duloxetine at doses of either 60 mg QD or 120 mg QD is effective for up to 1-year. This may be due to the sample size. Also, although clinical pharmacology data suggests that higher plasma levels may improve PGI-Improvement scores; this is not supported by clinical response as measured by BPI. In non-responders, increasing from a dose of duloxetine 60 mg QD to a dose of 120 mg QD does not appear to increase efficacy. Using some imputation strategies, non-responders at 8 weeks were more likely to become responders if maintained on 60 mg than if switched to 120 mg.

10.1.3.9 Safety Results

The table below shows the common adverse events observed in this study, as reported by Lilly in the final study report. Adverse events (MedDRA preferred terms) that occurred in more than 2% of subjects. The most frequently reported adverse events were nausea, headache, insomnia, dizziness, and constipation.

Treatment-Emergent Adverse Events Preferred Term by Decreasing Frequency All Enrolled Patients Overall Study Phase					
Preferred Term		All Enrolled Patients n(%)			
Patients with >= 1 Treatment-Emergent Event	326	(93.1)			
Nausea	142	(40.6)			
Headache	103	(29.4)			
Insomnia	69	(19.7)			
Dizziness	66	(18.9)			
Constipation	61	(17.4)			
Dry mouth	60	(17.1)			
Somnolence	49	(14.0)			
Diarrhoea	45	(12.9)			
Hyperhidrosis	40	(11.4)			
Fatigue	39	(11.1)			
Abdominal pain upper	37	(10.6)			
Anorexia	31	(8.9)			
Back pain	31	(8.9)			
Vomiting	30	(8.6)			
Anxiety	28	(8.0)			
Arthralgia	26	(7.4)			
Upper respiratory tract infection	25 22	(7.1)			
Hypertension	22	(6.3)			
Therapeutic response unexpected	22	(6.3)			
Urinary tract infection Influenza	21	(6.0)			
Dysgeusia	17	(4.9)			
Dyspepsia	17	(4.9)			
Nasopharyngitis	17	(4.9)			
Pain	17	(4.9)			
Decreased appetite	16	(4.6)			
Tremor	16	(4.6)			
Asthenia	15	(4.3)			
Cough	15	(4.3)			
Increased appetite	15	(4.3)			
Migraine	15	(4.3)			
Pain in extremity	15	(4.3)			
Palpitations	15	(4.3)			
Pharyngitis	15	(4.3)			
Pruritus	15	(4.3)			
Abdominal pain	14	(4.0)			
Neck pain	14	(4.0)			
Sinusitis	14	(4.0)			
Abdominal distension	13	(3.7)			
Muscle spasms	13	(3.7)			
Weight increased	13	(3.7)			
Hot flush	12	(3.4)			
Vision blurred	11	(3.1)			
Flatulence Paraesthesia	11	(3.1)			
Rash	11	(3.1)			
Sedation	11	(3.1)			
Carpal tunnel syndrome	10	(2.9)			
Chest pain	10	(2.9)			
Vertigo Vertigo	10	(2.9)			
Bronchitis	9	(2.6)			
Gastritis	9	(2.6)			
Gastroenteritis	9	(2.6)			
Hypoaesthesia	9	(2.6)			
Myalgia	9	(2.6)			
J**		\ \\/			

Fall	8	(2.3)
Irritable bowel syndrome	8	(2.3)
Lethargy	8	(2.3)
Malaise	8	(2.3)
Musculoskeletal pain	8	(2.3)
Osteoarthritis	8	(2.3)
Pharyngolaryngeal pain	8	(2.3)
Pollakiuria	8	(2.3)
Tendonitis	8	(2.3)
Tinnitus	8	(2.3)

10.2 Line-by-Line Labeling Review

Brief Pain Inventory

Exploratory Measures SSI

BAI

10.3 Additional Efficacy Review Tables and Figures

able 6.1 chedule of Even	ts: Study	нмн	во														
Table HMBO.9.1.	Schedu Study F				Stud	ly Pe	riod	s I a	nd H								
Description	Study Period I Study Period II Screening Acute Therapy Phase Phase																
Visit	1		1 2	1 2	1 2	1 2 3	2	2	2	2	2 3 4 5	6 7		8 9		10	ED <vi0< th=""></vi0<>
Week	-5 ta -2	-1	0	ı	2	4	6	8	10	12							
Clinic Assessments																	
Informed consent	x																
Demographics	X																
Medical history	x					_											

Informed consent	x										
Demographics	X									Π	
Medical history	x					}					
Complete physical exam	x									x	x
Consumptive habits	x					Γ.		1			
Historical illness and previous medications	x										
ACR criteria for fibromyalgia	x										
MINI ⁴ (MDD diagnosis and others)	x									-	
Height	x					ŀ					
Weight	x			I				T		x	x
ECG	x					_				x	x
Patient summary										x	х
Blood pressure (sitting), heart rate	х	×	x	x	X	x	x	x	x	x	х
Preexisting conditions and adverse events	x	x	x	х	х	x	X	x	x	x	х
Concomitant medications	x	x	x	x	x	x	x	x	x	x	X
Study Drug			T	T							
Dispense drug		×	X	×	x	x	x	x	×		
Return drug/accountability			х	x	х	x	x	x	X	x	z
Efficacy Measurements											
FIQ	х	х	X	x	X	x	x	x	x	x	х
Mean tender point pain thresholds			x			x		X.		x	x
CGI-Severityb			x	Ι.	[х		x		x	x
PGI-Improvement			X			x		x		x	x
n : (n :			T								

	Study Po Scree Pha	alag			,			eriod apy P			
Visit	1	1	3	4	5	6	7	8	9	18	ED <v10< th=""></v10<>
Week	-5 to -2	-1	0	1	2	4	6	8	16	12	
Health Outcomes Assessment											
SF-36			х							х	x
QLDS			x							х	x
SDS			х				L			X	X
Laboratory Assessments											
Hematology	х		x							x	x
Clinical chemistry and electrolyte group	x		х			x		x		x	x
Urine drug screen	х										
Serum pregnancy test	X										
Urinalysis	*							-			
Thyroid function test	х										
Antinuclear Antibody	X										
C-reactive protein	X										
Rheumatoid factor	х										



Description	Scree			A		y Peri		B14		Disco	Period Historia Base
Vidt	1	2	3	4	5	6	7	8	9	fe	ED <vi< th=""></vi<>
Week	-510-1	6	ı	1		6	*	10	12	13	1
Clinical Assessments											
informed consent	x										
Demographics					_						
Medical history	х		I								
Complete physical exam	×									·x	x
Consumptive habits	T	x							_		1
Historical illness and previous medications	χ¢										
ACR Criteria for Fibromyalgia	x				┢						
Mins ^b (MDD diagnosis and others)	x										
Height	1	х									
Weight		×	-		Г				x		x
ECG	×										
Patient summary										X.	×
Blood pressure (sitting), heart rate	x	x	x	x	x	x	x	x	x	x	X
Preexisting conditions and adverse events	Xª	x	x	x	x	x	x	x	x	x	x
Concomitant medications	χā	x	x	X	x	x	×	×	×	X	*
Study Drug					$\overline{}$						
Dispease drug		x	×	X	x	x	x	X	x		
Return			x	x	x	x	x	x	Х	x	x
drug/accountability	(1]						i

Apped	ırs	This	Way
		rigin	

Table HMCA.9.2.	Study	Sche	dule	(con	clude	rd)					
Description	Study I I Scree	ening	Ī		Stud	ly Per			•		ly Period III continuation Phase
Visit	1	2	3	14	5	6	7	8	9	10	ED
Week	50-1	8	1	2	4	6	1	10	12	13	<v10< td=""></v10<>
Efficacy	 	-	+	┼	-	-	-	⊢	╀	-	
Measurements					1				L	<u> </u>	.1
FIQ	ļ	X	×	7.	1	1 3	x	1 ×	x		x
Tender point pain threshold b	1	×			×		×		. *		*
CGI-Severity *		x		1	3		x		X		х
PGI-Improvement	<u> </u>				×		X		1 ×		x
Brief Pain Inventory	 	X	*	1 3	7	x	x	×	1 *	-	x
HAMD _{1:} 6		X.	1-	-	X	-	×		ļ×	-	x
Health Outcomes Assessment		1		1			1		1		1
SF-36	 	x	+-	-	+-	H	-	-	-	-	× ×
QLDS	 	X	+-	1	1	1	1	1-	X	+	+ ×
SDS	 	X	+	+-	1	1	1	1	1 x	1	- - -
Laboratory	1	T-	1	1	1	1			1		
Assessments	L				1		<u> </u>	L	L	<u> </u>	1
Hematology	x										
Clinical chemistry	x	X.	T	T	×		×	T	K	1	×
and electrolyte			1		ĺ		1		1	1	
group	ļ	ļ	-		ļ	├	ļ	-	 -		+
Urine drug screen	<u> </u>	 	┼	├	╁	├	ļ	╁	-	-	
Sertum programmey test	4.X	1		Ì				1		1	1
Urinelynis		l	+	+	┼	┼	├	┼	╁	┼	
Thyroid function test	Î x	1	1-	1-	1	-		1	1	t	
Antinuclear	×	1	1	1	1	1	t		1	1	1
antibody				L		<u> </u>	<u> </u>	L_	<u> </u>	1	1
C-reactive protein	X		L.		<u> </u>			L	X		l x
Rheumstoid factor	1 5				1			1		1	1
able HMCA.9.2.	Study	Sched	iule (conc	iude	d)					
	Study P	eriod	<u> </u>							Strake	Period III
]			Perl				Disco	atlaustion Phase
Description	I Seree			34			r Phe-				
Description Visit			3	Ac	ute T		7 Pke	8	9	£6	ΕD
V lek	I Scree Plan	2		4	ute T	6	7	8			
l Talk	I Seree	e .	3		ute T	perag			12	13	ΕD
Vlak Week	I Scree Plan	2		4	ute T	6	7	8			ΕD
Vlek Week Effecy	I Scree Plan	2		4	ute T	6	7	8			ED
Vlek Week Effency Measurements FIQ	I Scree Plan	2		4	ute T	6	7	8			ΕD
Week Effency Measurements FIQ Tender point pain	I Scree Plan	2	1	1	s 4	6 6	7	16	12		ED «Vie
Week Effency Measurements FIQ Tender point point threshold b	I Scree Plan	2 8 X X	1	1	s 4	6 6	7 8 X X	16	12 X X		ED 10</td
Week Efflency Measurements FIQ Tender point pain threshold b CGI-Severity4	I Scree Plan	2 9	1	1	x x	6 6	7 & & X X X X	16	12 X X		ED <\'(10
Week Effency Measurements FIQ Tender point poin threshold b CGL-Severity* PGL-Improvement	I Scree Plan	2	1 x	4 2 X	x x x	6 6 X	7 8 X X X X X	x 16	12 X X		ED <\'(10
Week Effercy Wessurements FIQ. Tender point point direchold b CGI-Severity* PGI-Improvement Brief Pain Inventory	I Scree Plan	2	1	1	x x x x x x	6 6	7 8 X X X X X X X	16	12 X X X		ED <\!\!0
Week Effency Measurements FIQ Tender point pain threshold b CGI-Severity's PGI-Improvement Brief Pain Inventory	I Scree Plan	2	1 x	4 2 X	x x x	6 6 X	7 8 X X X X X	x 16	12 X X		ED <\'(10
Week Effecty Measurements FIQ Tender point pain threshold b CGI-Severity 4 PGI-Improvement Brief Pain Inventory HAMD ₁₇ b Health Oncomes	I Scree Plan	2	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 X X X		X X X X X X
Week Effency Measurements FfQ Yender point pain threshold b CGI-Severity4 PGI-Improvement Brief Pain Inventory HAMD ₁₇ b Heelth Ontcomes Assessment	I Scree Plan	2	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 X X X X		X X X X X X X X
Week Efflency Measurements FIQ Tender point point threshold b CGI-Severity PGI-Improvement Brief Pain Inventory HAMD ₁ 19 Health Outcomes Assessment SF-36	I Scree Plan	2 2 4 X X X X X X	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 X X X X X		X X X X X X X X X X X X X X X X X X X
Week Effecty Wesuserements FfQ Tendor point pain threshold b Coll-Severity4 PGI-Improvement Brief Pain Investory HAMD ₁ 19 Heelth Outcomes Assessment SF-36 QLDS	I Scree Plan	2 2 x x x x x x x x x x x x x x x x x x	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 x x x x x		X X X X X X X X X X X X X X X X X X X
Week Effency Measurements FIQ Tender point pain threshold h CGI-Severity* PGI-Improvement Brief Pain Inventory HAMD ₁₇ Health Ontcomes Assessment SF-36 QUDS SDS	I Scree Plan	2 2 4 X X X X X X	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 X X X X X		X X X X X X X X X X X X X X X X X X X
Week Efflency Mensurements FIQ Tender point point strended b CGL-Severity PGL-Improvement Brief Pain Inventory HAMD ₁ 19 Health Ontcomes Assessment SF-36 QUDS SDS Laboratory	I Scree Plan	2 2 x x x x x x x x x x x x x x x x x x	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 x x x x x		X X X X X X X X X X X X X X X X X X X
Week Effersy Measurements FIQ Yender point pain throphold b CGI-Severity' PGI-Improvement Brief Pain Inventory HAMD ₁₇ Health Ontcomes Assessment SF-36 QLDS SDS Laboratory Laboratory Laboratory	I Scree Plan	2 2 x x x x x x x x x x x x x x x x x x	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 x x x x x		X X X X X X X X X X X X X X X X X X X
Week Effency Measurements FIQ Tender point pain durchoid * CGI-Severity* FGI-Improvement Brief Pain Inventory HAMD ₁ * Measurement SF-36 QLDS SDS Laboratory Avecurement Hematology Clained themistry	Seree Phan	2 2 x x x x x x x x x x x x x x x x x x	1 x	4 2 X	x x x x x x	6 6 X	7 8 X X X X X X X	x 16	12 x x x x x		X X X X X X X X X X X X X X X X X X X
Week Efflency Mensuscements FfQ Tender point point stretchold b CGL-Severity* PGL-Improvement Brief Pain Inventory HAMD ₁ -b Heelth Ontcomes Assessment SF-36 QLDS SDS Laboratory Assessment Hematology		X X X X X X X X X X	1 x	4 2 X	x x x x x x x x x x x x x x x x x x x	6 6 X	7	x 16	12 X X X X X X X		ED x

Description	Study F	FIJE				Period				Perfe	4.80			Perka		7 60-4	רי	
decide los	1 Scree	alag		Area	r The	respy i	~		C+	rices Please	ion		Ethi	nies Pi	have	Study Period V Taper		
Via	•	1	3	1	3	•	7	•	•	14	11	12	13	14	65	.301	ED ! (Vide	
Week	1	٠	ᆿ	1	1		1	15	19		28	32			54		3-213	
Procesisting Conditions and	`	۲.		`	`	•	K	*	*	١,	*	×	١,	'	•	*	*	*
Adverse Evenes Concomitant	x .	-	*	*		Ţ	-	-				×	•	-		*	+-	+-
Medications		`	_		لنا		<u> </u>	Ĺ		_				H			 	-
Study Drug Dispense Drug			*		3		1	×	X	5	v	×	5		1		-	14
Return Uray Accountab	I	1	•	۲	*	٠	*	۲.	¥	*	۲.	٠,	۲	•	*	×	1	•
itiny EXSoncy			\dashv			H	-	-	-		\vdash		\vdash	\vdash		-	-	
Measurements Brief Pain	-		ᆜ	_	ان	_	Ļ	ļ.		- -	Ę.		1	\vdash			┿	
lavenory	`	`	1		•		'		`									
PGE- largeroressens	_ 1		*	•	*	`	1	•	`	*	,	7 	*		*	<u> </u>	1	
PGI-Severby Tender Point		•	7	-			Ę.	-	,	-		_	ļ.	口	_	-	-	1.
Paint thresholds CCA-Severige				{	×	<u> </u>	Ė	×		-	•			\vdash		ļ	1	<u> </u>
FIQ		•	ゴ	二		尸	1	*		7]	×			口		1		
3/F3 8/O4-8	,		<u>.</u>	7	τ.	-		1 3	÷	1	ξ.	×	,			1 .	1 7	\
																	Page 24	157
HASBIT!	٠,		-		 r			. [• 1	 -	. 1	-	•	1	1 4	T .
						ئـــــ		٠	å.	4-	لسف	1					·	
tudy Schedule, F				MCJ		 -											7	
Imeription		Period lag (Ta		A		dy Per Therap				detter		1		ly Perio		Study Period V	1	
										Pha	*					Taper Plane		
Yhit	1	1 2	1	3	4	5	4	7 1	•	10	11	42	13	14	15	361	ED t	ED 3
Work	<u></u>		4	+	+	+	<u>.</u>	ـِـان	+-	+	+-	, 	+=	-	56	54	3-10)	12-15
feelth Ontcomes	1	•	+	+	+	+	+ 11	1	1 19	123	+*	12	1	-	† *	-		
SDS		١,	+	-	+	+	_		1	-	1.	\pm	+	1	1	<u></u>	ς	
10-30 ST-36		*	#	#	#	4	7	-		1	+		7	-	-		¥ .	1
aberatory		1	+	+	十	+	-	+	+	1	+	+	+		1			i ^
Amessarets Herusology	¥	 	+	-+	+	+		+-,	+-	+-	+-	+	+-	+	-	 		
CErical Chemistry	١,	-	+	+	+	. 1	+	<u>.</u>	4	١.			+-	<u> </u>	l x	 		
Fasting Lipid Profile	•	Т	T	1	T	T	T	,		Τ	×	T	Т		1	[•	¥
Urine Drug Screen		T	+	+	十	+	+	1	1-	+	†	+	+	1	†	1	<u> </u>	
Programey Fest	-		\pm	1	\pm	士	\pm	1	+	士	士	士	1	1	1			
University Inspection			+		+		-			+-		+-	+		-			
Test		ļ	4		4	4	_		<u> </u>	+	4-	+	┿	<u> </u>	 			
Antinuclear Antibody	`		1	ļ	\perp	ᆚ		\perp	L	\perp	上	\perp						
C-Reactive Protein Risementoid Factor		1	\pm	士	\pm	士	\pm	\perp	1	1	+	\pm	+		1			
itudy Schodule, P Description	Stady	Period	1		Stad	y Per			54		rive (()	-	Stad	y Perk	u tv	Study	7	
	Scrue	ing Plac	₹ .		cote T	Derag	py Me	ter.	1	Pie	ation		Euk	who !	Pase	Period V Taper		
Viet		777	+	37	4 1		• 1	, ,	٠,	10		-	13	14	15	Fixes 361	ED 1	EB 2
		1			- 1			1	1		_		1	1	1	<u> </u>	(Visite 3-55)	(Victo 17-15)
Feels Outcomes	4	•	#	4	4	1	1	1 1	- 14	13	29	32	40	14	54	59		
Americannel			1	┙	┙	Ĺ	l.	_	1	<u> </u>	\perp	1	1	1	1	L		
SDS EQ-50	<u> </u>	×	+	-	-	+	-	- ;	+	1	,	\pm	*	1	1	<u> </u>	-	-
SE-36		İ	7	1	7	4			1		13	7	1	1	-	ļ		-5-
Aberstury Amentments		<u> </u>	_	_	1			1		1	1	_	1	1_		<u> </u>		
Hematology	,	<u> </u>	1	\perp	1	1	1	`	-		1	<u> </u>	1	_	1		۲.	٠,
Clinical Chomistry Fasting Lipid	+		+	+	-	4	4	× ×			-		+	1	1	<u> </u>	¥	3
Profile Urine Drug Screen		ļ.,	+	4	4	4	<u>ļ</u>	+	+-	-	┿.	+	-	1	1	ļ	1	<u> </u>
	*	4_	4	4	1	4	 		╀-	1	1	+	-	1_	1	<u> </u>		
Programcy Test Unimbysis	÷	+-	士	士	\pm	士	\pm		士	士	_	1	1	<u> </u>				
Thyroid Function Test	•				T		ļ						1					
Antimuteur	•	1	+	1	T	1	\top	1	1	1		1	1		1			
				Ł_		. 2	- 4-			. t		<u> </u>	1				4	
Assibody C-Reserve Protein Rhomanoid Factor	_	1	\Box		_1_								1	ـــــ	_i	1	i	<u> </u>

chedule of I Study Schedule,					/IE	F												
Description	Study I I Scre Phi	ening				Acute	dy Pe							Period sion Ph		Study Period LV Taper Phas		
Visit	•	2	3	4	5	•	7	8	9	10	11	12	13	14	15	301	(Vidi 3-11	
Work	1			7		6	1	13	15	123	27	33	39	47	56	58		12-13
Proceduring Conditions and Adverse Events	X	x	×	*	×	×	x	×	×	×	×	×	X	×	×	×	×	×
Concomitant Medications	х	×	×	×	×	X	×	×	×	x	x	×	×	×	×	x	X	x
itudy Drug						<u></u>			<u> </u>	1	1	1	L	<u> </u>	1			
Dispense Drug Return Drug/Accountabi lity		×	x	×	×	×	X	×	×	×	K	*	3	×	X	×	X ^c	×
Efficacy Measurements																		
Brief Pain	×	×	×	×	×	×	×	×	×	×	1 ×	1	*	T	×	T	X	×
Inventory						<u></u>			<u> </u>	1	1		<u> </u>	<u> </u>	4			
PGI- Improvement			×	×	*	×	x	х	×	X	×		*		×		x	×
PGI-Severity		×		- 1		1	L.,		-		<u></u>		1	1	1		\perp	
Tender Point Pain Threshold*		. *			x	<u> </u>	x	×	×	x	x	L	×		×		x	x
CGI-Severity ^b		×			х.		×	×	×	×	×			<u> </u>	1		×	
FIQ		×			x	ļ	X	K	X	1 ×	_ X_	ļ	ļ	 			X	
MFI		×			×		<u>×</u>	<u>×</u>	<u>×</u>	1 5	<u></u> X_			ļ	 		X	
BDI-II HAMD ₁₇ *	×	×	X	ĸ	<u>x</u>	X	X	×	×	1 5	× ×	×	X	1 ×	×	×	x	* ×
uav Schedule, f	TOLOGOL	F1J-W	СИИ	EF														•
	Study	F1J-Mi Period i ing Phas		EF			udy P					S	ludy P	eriod I	! !	Study Period IV Taper		
Description Visit	Study Screen	Period i	3	1		Ace	e The	8	**	16	11	£2	stensk 13	14	15	Period IV Taper Phase 361	EO (Visits 3-(1)	ED (Visits 12-15)
Description Visit	Study Screen	Period i	•	1		Ace	e The	8	**	23	27	F	ztensk	on Phas	•	Period IV Taper Phase 361	(Visits	(Visits
seription sit feek enkth Outcomes Assessment	Study Screen	Period i	3	1		Ace	e The	8 13	**		27	£2	I3	14	15	Period IV Taper Phase 361	(Visits 3-11)	(Visits 12-15)
Veek Veek Veek Assessens	Study Screen	Period i	3	1		Ace	e The	8 13 X	**		27 x	£2	stensk 13	14	15	Period IV Taper Phase 361	(Visits 3-11)	(Visits
isit Vesk leakth Outcomes Assessment SDS EQ-5D	Study Screen	Period i	3	1		Ace	e The	8 13 X X X X X X X X X	**		27	£2	I3	14	15 56 x	Period IV Taper Phase 361	(Vbits 3-11)	(Visits 12-15)
Neek Gesch Ontcones Assessment SDS EQ-5D SF-36 aboratory	Study Screen	Period i	3	1		Ace	e The	8 13 X	**		27 x	£2	I3	14	15	Period IV Taper Phase 361	(Visits 3-11)	(Visits 12-15)
Neck Control of the C	Study Screen	Period i	3	1	4	Aca-	7 8	8 13 X X X X X X X X X	**		27	£2	I3	14	15 56 x	Period IV Taper Phase 361	(Vists 3-11) x x x x	(Visits 12-15)
Vest. Vest.	Study Screen	Period i	3	1		Aca-	e The	8 13 X X X X X X X X X	**		27 X X	£2	I3	14	15 56 X	Period IV Taper Phase 361	(Visits 3-11)	(Yisis 12-15) x
Pescription Vers. Vers. Assessment SDS SC-50 SF-30 Assessments PK Sampling Herusaclogy	Study Screen	Period i	3	1	4	Aca 6	7	8 13 X X X X X X X X X	18	23	27 X X	£2	I3	14	15 56 X X X	Period IV Taper Phase 361	(Visits 3-11) x x x x	(Yists 12-15) x x x
Visit Verk	Study Screen	Period i	3	1	4	Aca 6	7 8	8 13 x x x x x x x x x x x x x x x x x x	**		27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
Pescription Vest. Vest. Attended Outcomes Attended SDS SDS SDS SP-30 SP	Study Screen	Period i	3	1	4	Aca 6	7	8 13 X X X X X X X X X	18	23	27 X X	£2	I3	14	15 56 X X X	Period IV Taper Phase 361	(Visits 3-11) x x x x	(Yists 12-15) x
Visit Verk	Study Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
risis Veek Irealth Outcomes Astessmens SDS SDS SDS SP-30 SF-30 SF-30 SF-30 Chineal Obermany Assessments Hermanology Chineal Obermany Testing Lipid profile Urine Drug Sercen Pregnancy Test	Study Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
Description Week Week Health Outcomes Assessment SUS SUS SUS SUS SUS SUS SUS S	Study Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
Description Wesk Health Osteones Astesidies SDS SOS SOS SP-30 SP-30 Astesiments PK Sampling Hemusology Chical Chemistry Fasting Lipid profile Urine Drug Screen Prognancy Tost	Study Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
SDS EQ-5D SF-36 Laboratory Assessments PK Sampling Hiematology Chical Chemiaty Fasting Lipid profile Urine Drug Screen Prognancy Tost Urinalysis Thyrold Putertion Test Antinoclear	Study Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x
Week Week Week Week Week Week Week Week	Sludy Screen	Period i	3	1	4	Aca 6	7	8 13 x x x x x x x x x x x x x x x x x x	18	23	27 X X X X X X X X X	£2	I3	14	15 56 X X X X X X	Period IV Taper Phase 361	(Visits 3-11) X X X X X	(Yists 12-15) x x x x x

Tя	ble	6.5

Schedule of Events: Study HMEH

F1J-MC-HMEH Study Report

Page 5938

Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET
Week	- 1	0	1	8	9	14	19	26	33	42	51	60	62	>W1
Description				T					T	T	T			
Informed	х			\top										
Consent				1		1			1	1			1	1
Demographics	х			1			1	1					1	
Medical	X		1	1				1						
History				1						1				
Physical	X			Т										
Exam							1		İ			l	<u> </u>	
Historical	X			Т	1							Τ		
Illness				1	1		1		İ	1			1	
ACR Criteria	x													
for										1				1
Fibromyalgia				1					İ					4
Habits	X			Т										
Alcohol		X	x	х	X	X	X	x	x	x	X	X	X	X
Consumption				<u> </u>					<u></u>	<u>L</u>			<u> </u>	<u></u>
Height		X		Т										
Weight		X	X	X	X	X	X	X	X	X	X	Х	X	X
ECG	X							1						
Vital Signs		X	X	X	x	X	X	Х	X	X	X	X	X	Х
Adverse	X	X	X	X	X	x	X	X	X	X	X	X	X	X
Events/					1	1								1
Pre-existing	-				1									
conditions		l	l							1				1
Concomitant	X	x	x	x	X	X	X	X	X	X	Х	X	X	X
Medications								1		1			1	1
Dispense		Х	x	X	X	X	X	X	X	X	X	X		Xa
Drug				1				İ				<u> </u>		<u> </u>
Return Drug/			X	Х	X	X	X	X	X	x	X	X	X	X
accountability				1						1				1
FIQ		х		X		X		X		x		X		X
Tender-point		X		X		X		X		x		x	1	X
pain threshold						<u> </u>	l	1	<u> </u>			<u> </u>	<u> </u>	
BPI-	X	Х		X		X		X		X		X		Х
Modified			1					1					1	1
Short Form								<u>L</u>						<u> </u>
PGI-				х	T	X		X		X		X		X
Improvement			l		1		<u></u>			<u> </u>	<u></u>	<u></u>	<u></u>	
PGI-Severity		X	T .											
CGI-Severity		х	Γ.	X	T	X	T	X		X		х	1	X
SDS		х		X		Х		x	1	x		Х	T T	X
BDI-II	Х	x	X	x	x	X	\mathbf{x}	X	x	x	X	X	x	X
Hematology	X	<u> </u>	X	X	1	X	1	X	1	X	X	X	T	X

Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET
Week	-1	0	1	8	9	14	19	26	33	42	51	60	62	>W1
Blood Chemistry	X		X	x		X		X		x	X	X		x
Urine Drug Screen	х													
Pregnancy Test (females only)	х													
Urinalysis	X		х	X		X		X		X	X	X		X
Patient Summary													Х	x

a If ET visit is followed by taper, drug will be dispensed.

	PLACEBO (N=103)	DLX60BID (N=104)	Total (N=207)
Primary Reason for Discontinuation	n (%)	n (%)	n (%)
Protocol completed	66 (64.1)	58 (55.8)	124 (59.9
AE	11 (10.7)	18 (17.3)	29 (14.0)
Unable to contact patient (lost to follow-up)	3 (2.9)	6 (5.8)	9 (4.3)
Personal conflict or other patient decision	9 (8.7)	10 (9.6)	19 (9.2)
Physician decision	0	1 (1.0)	1 (0.5)
Protocol Violation	1 (1.0)	2 (1.9)	3 (1.4)
Lack of Efficacy	13 (12.6)	9 (8.7)	22 (10.6)
Applicant's Table, Page 59, HMBO Clinical Report.	4.	·	•

		Placebo	(N=103)			DLX60BI	D (N=104)	
	Total	AE	LOE	Others	Total	AE	LOE	Others
Visit 4	7%	3%	2%	2%	11%	4%	3%	4%
Visit 5	6%	0%	3%	3%	9%	5%	1%	3%
Visit 6	8%	2%	4%	2%	13%	7%	2%	4%
Visit 7	6%	4%	1%	1%	5%	1%	1%	3%
Visit 8	9%	2%	3%	4%	4%	1%	0%	3%
Visit 9	1%	0%	0%	1%	4%	0%	2%	2%

Comparison of Treatment Groups All Randomized Patients												
All Mandonnized Lautents	PLACEBO (N=120)	DLX60QD (N=118)	DLX60BID (N=116)	TOTAL (N=354)								
Events	n(%)	n(%)	n(%)	n(%)								
AE	14(11.7)	25(21.2)	27(23.3)	66(18.6)								
Unable to contact pat(lost to follow-up)	4(3.3)	1(0.8)	5(4.3)	10(2.8)								
Personal conflict or other pat decision	1(0.8)	3(2.5)	4(3.4)	8(2.3)								
Physician decision	0(0.0)	1(0.8)	0(0.0)	1(0.3)								
Noncompl	1(0.8)	3(2.5)	1(0.9)	5(1.4)								
Protocol Violation	1(0.8)	0(0.0)	0(0.0)	1(0.3)								
Lack of Efficacy	18(15.0)	7(5.9)	4(3.4)	29(8.2)								
Withdrawal of informed consent	13(10.8)	1(0.8)	4(3.4)	18(5.1)								

	1	o (N=120)		DLX60Q	D (N=118	3)	DLX60BID (N=116)				
	Total	AE	LOE	Others	Total	AE	LOE	Others	Total	AE	LOE	Others
Visit 3/Baseline	5%	3%	0%	3%	15%	14%	1%	1%	15%	12%	1%	2%
Visit 4	8%	2%	4%	3%	2%	1%	1%	0%	5%	4%	0%	1%
Visit 5	13%	3%	6%	4%	8%	5%	1%	2%	9%	4%	2%	3%
Visit 6	6%	1%	3%	2%	4%	0%	1%	3%	2%	0%	1%	1%
Visit 7	9%	3%	1%.	5%	1%	0%	0%	1%	3%	2%	0%	1%
Visit 8	1%	0%	1%	0%	3%	2%	2%	0%	4%	1%	0%	3%
Visit 9	1%	0%	0%	1%	2%	0%	1%	1%	1%	0%	0%	1%
Visit 10	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%

3-Month Therapy Phase Primary Reason for Discontinuation	Treatment	* N	n	Percent
DC due to ANY reason	1) PLACEBO	144	60	41.67
	2) DLX20QD	79	30	37.97
	3) DLX60QD	150	53	35.33
	4) DLX120QD	147	52	35.37
Adverse Event	1) PLACEBO	144	17	11.81
	2) DLX20QD	79	8	10.13
	3) DLX60QD	150	22	14.67
·	4) DLX120QD	147	32	21.77
Lack of Efficacy	1) PLACEBO	144	14	9.72
	2) DLX20QD	79	8	10.13
	3) DLX60QD	150	11	7.33
	4) DLX120QD	147	6	4.08
Subject Decision	1) PLACEBO	144	10	6.94
	2) DLX20QD	79	8	10.13
	3) DLX60QD	150	9	6.00
	4) DLX120QD	147	5	3.40
Lost to follow up	1) PLACEBO	144	13	9.03
	2) DLX20QD	79	3	3.80
	3) DLX60QD	150	7	4.67
	4) DLX120QD	147	7	4.76

	Placebo (N=144)			DLX 20/60 QD (N=79)			DLX60QD (N=150)				DLX120QD (N=147)					
	Total	AE	LOE	Others	Total	AE	LOE	Others	Total	AE	LOE	Others	Total	AE	LOE	Others
Visit 2	0%	0%	0%	0%	0%	0%	0%	- 0%	0%	0%	0%	0%	1%	0%	0%	1%
Visit 3	6%	1%	1%	4%	6%	0%	1%	5%	9%	5%	1%	3%	9%	5%	0%	3%
Visit 4	5%	1%	1%	3%	4%	3%	1%	0%	7%	4%	1%	2%	3%	3%	0%	0%
Visit 5	9%	5%	2%	2%	3%	1%	0%	1%	5%	1%	0%	3%	4%	3%	0%	1%
Visit 6	9%	2%	3%	3%	4%	1%	1%	1%	6%	2%	1%	3%	3%	2%	1%	1%
Visit 7	10%	3%	1%	6%	8%	0%	4%	4%	7%	2%	3%	1%	8%	5%	3%	0%
Visit 8	3%	1%	1%	1%	13%	5%	1%	6%	3%	1%	2%	0%	7%	3%	1%	3%

Study HMCJ - Reasons for Study Discontinuation All Randomized Patients	14.54					
6-Month Therapy Phase		1 57				
Primary Reason for Discontinuation	Treatment	N	n	Percent		
DC due to ANY reason	1) PLACEBO	144	72	50.00		
	2) DLX60QD	150	68	45.33		
	3) DLX120QD	147	68	46.26		
	4) DLX20/60QD	79	35	44.30		
Adverse Event	I) PLACEBO	144	19	13.19		
	2) DLX60QD	150	23	15.33		
	3) DLX120QD	147	39	26.53		
	4) DLX20/60QD	79	9	11.39		
Lack of Efficacy	1) PLACEBO	144	16	11.11		
	2) DLX60QD	150	15	10.00		
	3) DLX120QD	147	7	4.76		
	4) DLX20/60QD	79	8	10.13		
Subject Decision	1) PLACEBO	144	12	8.33		
	2) DLX60QD	150	12	8.00		
	3) DLX120QD	147	10	6.80		
	4) DLX20/60QD	79	10	12.66		
Lost to follow up	1) PLACEBO	144	18	12.50		
	2) DLX60QD	150	10	6.67		
	3) DLX120QD	147	8	5.44		
	4) DLX20/60QD	79	4	5.06		

Table 6.13	
Study HMEF -	Reasons for Discontinuation
All Randomized	Patients
6-month Thera	v Phase

	1	ACEBO [=168)	DLX60/120QD (N=162)			Total =330)
Primary Reason for Discontinuation	n	(%)	n	(%)	n	(%)
DC due to ANY reason	65	(38.7)	61	(37.7)	126	(38.2)
Adverse Event	19	(11.3)	30	(18.5)	49	(14.8)
Lack of Efficacy	25	(14.9)	12	(7.4)	37	(11.2)
Subject Decision	9	(5.4)	5	(3.1)	14	(4.2)
Protocol Violation	5	(3.0)	8	(4.9)	13	(3.9)
Lost to follow up	6	(3.6)	4	(2.5)	10	(3.0)
Physician Decision	1	(0.6)	1	(0.6)	2	(0.6)
Sponsor Decision	0	(0.0)	l	(0.6)	1	(0.3)
Patients Continuing	103	(61.3)	101	(62.3)	204	(61.8)
Applicant's Table, Page 69, HMEF Clinical Report.						

Table 6.14 Study HMEH - Reasons for Study Discontinuation All Enrolled Patients in Open-Label Study Phase	
Primary Reasons For Discontinuation	DLX60QD (N = 350) n (%)
DC due to ANY reason	43 (12.3)
Adverse Event	26 (7.4)
Subject Decision	9 (2.6)
Lost to follow up	4 (1.1)
Protocol Violation	3 (0.9)
Lack of Efficacy	1 (0.3)
Patients Continuing	307 (87.7)
Applicant's Table, Page 77, HMEH Clinical Report	

1411 1441140	mized Patients in the 3-Mo	litti i iacebo-	Woi		Τ		[en
Study	Treatment Group	N	Baseline	Endpoint Mean	N	Baseline	Endpoint Mean
				BOCF			
HMCJ	Placebo	137	6.6	5.5	7	6.1	5.6
· · · · · · · · · · · · · · · · · · ·	DLX 20 mg QD	76	6.8	5.1	3	6.3	6.3
	DLX 60 mg QD	136	6.5	5.0	14	6.2	4.9
	DLX 120 mg QD	143	6.4	4.8	4	7.0	4.5
			LO	CF/BOCF			• • •
HMCJ	Placebo	137	6.6	5.4	7	6.1	5.7
	DLX 20 mg QD	76	6.8	4.8	3	6.3	6.3
	DLX 60 mg QD	136	6.5	4.9	14	6.2	4.3
	DLX 120 mg QD	143	6.4	4.7	4	7.0	4.5

		W	Women		
Study	Treatment Group	N	Endpoint Mean	N	Endpoint Mean
	•	LOCF			
HMCJ	Placebo	138	3.0	4	2.5
	DLX 20 mg QD	75	2.9	2	4.0
	DLX 60 mg QD	130	3.1	13	3.2
	DLX 120 mg QD	132	3.5	7	3.7
		WOCF			-
HMCJ	Placebo	138	3.1	4	2.5
	DLX 20 mg QD	75	3.1	2	4.5
	DLX 60 mg QD	129	3.2	13	3.3
	DLX 120 mg QD	132	3.7	6	3.8

			Whit	e		Non-white	
Study	Treatment Group	N	Baseline	Endpoint Mean	N	Baseline	Endpoint Mear
				BOCF			
HMCA	Placebo	107	6.4	5.5	13	7.8	6.2
	DLX 60 mg QD	106	6.3	4.2	12	7.0	5.8
	DLX 60 mg BID	104	6.2	4.3	12	7.8	6.8
НМСЈ	Placebo	119	6.3	5.3	25	7.9	6.4
	DLX 20 mg QD	66	6.6	5.0	13	7.8	5.8
	DLX 60 mg QD	127	6.4	4.8	23	7.0	6.0
	DLX 120 mg QD	126	6.3	4.6	21	7.1	5.9
				LOCF/BOCF			
HMCA	Placebo	107	6.4	5.3	13	7.8	6.2
	DLX 60 mg QD	106	6.3	4.1	12	7.0	5.7
	DLX 60 mg BID	104	6.2	4.0	12	7.8	6.3
НМСЈ	Placebo	119	6.3	5.2	25	7.9	6.4
	DLX 20 mg QD	66	6.6	4.7	13	7.8	5.5
	DLX 60 mg QD	127	6.4	4.6	23	7.0	5.7
	DLX 120 mg QD	126	6.3	4.6	21	7.1	5.7

	nized Patients in the 3-Month Placebo Controll		White				
Study	Treatment Group	N	Endpoint Mean	N	Endpoint Mean		
		LOCF					
HMCA	Placebo	100	3.7	11	3.5		
	DLX 60 mg QD	103	3.1	11	3.6		
	DLX 60 mg BID	99	3.0	12	3.3		
НМСЈ	Placebo	121	2.9	21	3.3		
	DLX 20 mg QD	64	2.9	13	3.2		
	DLX 60 mg QD	120	3.1	23,	3.3		
	DLX 120 mg QD	115	3.6	24	2.7		
	NOTE: 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	WOCF					
HMCA	Placebo	100	3.8	11	3.5		
	DLX 60 mg QD	103	3.1	11	3.6		
	DLX 60 mg BID	99	3.1	12	3.4		
НМСЈ	Placebo	121	3.1	21	3.4		
-	DLX 20 mg QD	64	3.1	13	3.3		
	DLX 60 mg QD	119	3.2	23	3.4		
	DLX 120 mg QD	114	3.8	24	3.0		

			Age <	65	Age ≥ 65			
Study	Treatment Group	N	Baseline	Endpoint Mean	N	Baseline	Endpoint Mean	
				BOCF				
HMCA	Placebo	109	6.6	5.7	11	5.5	3.6	
	DLX 60 mg QD	113	6.4	4.4	5	6.6	1.6	
	DLX 60 mg BID	105	6.3	4.4	- 11	6.6	5.7	
HMCJ	Placebo	136	6.6	5.4	8	6.9	6.3	
	DLX 20 mg QD	70	6.8	5.3	9	6.2	4.2	
	DLX 60 mg QD	135	6.5	4.9	15	6.3	5.2	
*	DLX 120 mg QD	133	6.3	4.7	14	6.9	6.1	
				LOCF/BOCF				
HMCA	Placebo	109	6.6	5.6	11	5.5	3.6	
	DLX 60 mg QD	113	6.4	4.3	5	6.6	1.6	
	DLX 60 mg BID	105	6.3	4.1	. 11	6.6	6.0	
НМСЈ	. Placebo	136	6.6	5.3	8	6.9	6.4	
	DLX 20 mg QD	70	6.8	4.9	9	6.2	4.3	
•	DLX 60 mg QD	135	6.5	4.8	15	6.3	4.9	
	DLX 120 mg QD	133	6.3	4.6	14	6.9	6.0	

		Ag	Age ≥ 65		
Study	Treatment Group	N	Endpoint Mean	N	Endpoin Mean
		LOCF			
HMCA	Placebo	100	3.8	11	2.7
	DLX 60 mg QD	109	3.2	5	1.6
	DLX 60 mg BID	100	3.0	11	3.7
HMCJ	Placebo	129	2.9	13	3.5
	DLX 20 mg QD	68	2.9	9	3.2
	DLX 60 mg QD	128	3.1	15	3.6
	DLX 120 mg QD	131	3.5	8	3.8
		WOCF			
HMCA	Placebo	100	3.9	11	2.7
	DLX 60 mg QD	109	3.2	5	1.6
	DLX 60 mg BID	100	3.0	11	3.7
HMCJ	Placebo	129	3.1	13	3.7
	DLX 20 mg QD	68	3.1	9	3.2
	DLX 60 mg QD	127	3.2	15	3.7
	DLX 120 mg QD	130	3.6	8	4.4

10.4 Additional Safety Review Tables and Figures

	Study	Stubject ID	Treatment	Age	Race	Sex	MedDRA Preffered Term/Comment
1	НМВО	HMBO-102-1230	DLX60BID	39	Caucasian	М	FEMUR FRACTURE
Unr	elated to stu	dy medication.	•				
2	HMCA	HMCA-109-1928	DLX60BID	32	Caucasian	F	APPENDICITIS
Unr	elated to stu	dy medication.					
3	HMCA	HMCA-113-2302	DLX60QD	35	Caucasian	F	BLOOD CREATINE PHOSPHOKINASE INCREASED
							HEPATIC ENZYME INCREASED
Pati	ent was not	taking study medication	on; unrelated to s	tudy me	dication.		
4	НМСЈ	HMCJ-100-1005	DLX60QD	56	Caucasian	F	HIATUS HERNIA
Unr	elated to stu	dy medication.					
5	HMCJ	HMCJ-114-2418	DLX120QD	56	Caucasian	F	CARDIAC FAILURE CONGESTIVE
Obe	se female w	rith arrhythmia & COF	D, blood pressu	re was c	ontrolled; Unr	elated to	o study medication.
6	HMCJ	HMCJ-115-2509	DLX120QD	52	Hispanic	F	BRONCHITIS BACTERIAL
Unre	elated to stu	dy medication.					
7	НМСЈ	HMCJ-120-3025	DLX60QD	68	Caucasian	F	MALIGNANT MELANOMA
Unre	lated to stu	dy medication.	•				
8	HMCJ	HMCJ-123-3304	DLX120QD	42	Caucasian	F	LOCAL SWELLING
							PAIN IN EXTERMITY
Und	erwent surg	ery to remove old scar	tissue from pre	vious ca	r accident; Un	related t	to study medication
9	HMCJ	HMCJ-126-3631	DLX120QD	45	Hispanic	F	HYPERGLICEMIA
							UPPER RESPIRATORY TRACT INFECTION
							URINARY TRACT INFECTION
Нур	erglycemia	present at baseline and	d exacerbation w	as assoc	iated with infe	ection; (Jnrelated to study medication.
10	НМСЈ	HMCJ-128-3806	DLX120QD	51	Hispanic	F	NEPHROLITHIASIS
Unre	lated to stu	dy medication.				·	
11	HMCJ	HMCJ-130-4017	DLX30QD	45	Caucasian	F	ASTHMA
Unre	lated to stu	dy medication.					
12	HMCJ	HMCJ-130-4020	DLX120QD	67	Caucasian	F	COLON NEOPLASM
Unre	lated to stu	dy medication.				•	
13	HMEF	HMEF-606-6453	DLX120QD	63	Caucasian	F	ARTHRALGIA
Unre	lated to stu	dy medication.	· · · · · · · · · · · · · · · · · · ·				
14	HMEF	HMEF-606-6466	DLX60QD	56	Caucasian	F	LUNG INFECTION PSEUDOMONAL
Unre	lated to stu	dy medication.	· · · · · · · · · · · · · · · · · · ·			·	
15	НМЕН	HMEH-103-1319	DLX120QD	53	Hispanic	F	VENOUS INSUFFICIENCY
Unre	l	dy medication.			· · · · · · · · · · · · · · · · · · ·		
16	НМЕН	HMEH-202-2215	DLX60QD	18	Caucasian	F	ABSCESS INTESTINAL
							APPENDICITIS
Unre	lated to stu	dy medication.					
17	нмен	HMEH-203-2302	DLX60QD	52	Caucasian	F	ANGINA UNSTABLE
							ring trial; Unrelated to study medication.
18	нмен	HMEH-303-3310	DLX120QD	50	Hispanic	F	THERMAL BURN

Unre	elated to stu	dy medication.										
19	НМЕН	HMEH-403-4304	DLX60QD	47	Caucasian	М	TRANSIENT ISCHEMIC ATTACK					
		sic TIA with multiple. The was diagnosed, but					ed and undiagnosed. BP remained stable on DLX. Elevated					
20	нмен	HMEH-603-6307	DLX60QD	57	Caucasian	F	LUMBAR VERTEBRAL FRACTURE					
Unre	Unrelated to study medication.											
21	НМЕН	HMEH-700-7001	DLX120QD	49	Asian	F	DROWSINESS					
		ced drowsiness and fa ed. Unrelated to study		uron wo	rkup which w	as nega	tive. Discontinued benzodiazepine, but continued DLX and					
22	HMEH	HMEH-701-7100	DLX120QD	40	Asian	F	CARPAL TUNNEL SYNDROME					
Unre	elated to stu	dy medication.										
23	НМЕН	HMEH-703-7301	DLX60QD	59	Asian	F	HYPERPARATHYROIDISM PRIMARY					
Unre	lated to stu	dy medication.										
24	HMEH	HMEH-704-7410	DLX120QD	42	Asian	F	UTERINE LEIOMYOMA					
Unre	lated to stu	dy medication.										
25	НМЕН	HMEH-704-7417	DLX60QD	36	Asian	F	NEPHROLITHIASIS.					
Unre	lated to stu	dy medication.										
DLX	= duloxetir	ie										

Event	Duloxetine N=27229 n(%)
OVERALL	82(0.3%)
Hepatic enzyme increased	35(0.1%)
Alanine aminotransferase increased	26(0.1%)
Gamma-glutamyltransferase increased	12(0.0%)
Aspartate aminotransferase increased	5(0.0%)
Transaminases increased	2(0.0%)
Alanine aminotransferase abnormal	1(0.0%)
Hepatic enzyme abnormal	1(0.0%)

		Placebo-Controlled Frials	All Fibromyalgia Patient – Placebo-Controlled and Open-Label
Event	PLACEBO (N=535) n(%)	DULOXETINE (N=876) n(%)	DULOXETINE (N=1236) n(%)
PATIENTS WITH >=1 TEAE	4(0.7%)	10(1.1%)	15(1.2%)
Hepatic enzyme increased	1(0.2%)	4(0.5%)	5(0.4%)
Alanine aminotransferase increased	0(0.0%)	3(0.3%)	3(0.2%)
Liver function test abnormal	1(0.2%)	2(0.2%)	1(0.1%)
Gamma-glutamyltransferase increased	1(0.2%)	1(0.1%)	~ 1(0.1%)
Hepatic cyst	1(0.2%)	1(0.1%)	1(0.1%)
Aspartate aminotransferase increased	0(0.0%)	1(0.1%)	1(0.1%)
Blood alkaline phosphatase increased	1(0.2%)	0(0.0%)	1(0.1%)

Table 7.4 Treatment-Emergent Adverse Events Occuring in ≥ 5% of Patients by Fibromyalgia Patients Treated With Duloxetine	
MedDra Preferred Term	Duloxetine (N=1236) n (%)
Patients with ≥ 1 Treatment-Emergent Adverse Event	1115 (90.2)
Nausea	410 (33.2)
Headache	280 (22.7)
Dry mouth	223 (18.0)
Insomnia	202 (16.3)
Constipation	193 (15.6)
Dizziness	165 (13.3)
Fatigue	164 (13.3)
Diarrhoea	151 (12.2)
Somnolence	134 (10.8)
Hyperhidrosis	104 (8.4)
Upper respiratory tract infection	89 (7.2)
Anorexia	74 (6.0)
Decreased appetite	74 (6.0)
Nasopharyngitis	68 (5.5)
Back pain	67 (5.4)
Anxiety	
	59 (4.8)
Arthralgia	59 (4.8)
Abdominal pain upper	58 (4.7)
Vomiting	57 (4.6)
Dyspepsia	54 (4.4)
Tremor	54 (4.4)
Muscle spasms	53 (4.3)
Urinary tract infection	49 (4.0)
Sinusitis	48 (3.9)
Hot flush	47 (3.8)
Cough	46 (3.7)
Migraine	45 (3.6)
Pain	45 (3.6)
Pain in extremity	43 (3.5)
Myalgia	42 (3.4)
Dysgeusia	41 (3.3)
Influenza	41 (3.3)

Therapeutic response unexpected	41 (3.3)
Hypertension	38 (3.1)
Pharyngolaryngeal pain	38 (3.1)
Pruritus	37 (3.0)
Palpitations	36 (2.9)
Rash	35 (2.8)
Musculoskeletal pain	34 (2.8)
Paraesthesia	34 (2.8)
Weight increased	34 (2.8)
Abdominal pain	33 (2.7)
Bronchitis	33 (2.7)
Sleep disorder	32 (2.6)
Vision blurred	32 (2.6)
Asthenia	29 (2.3)
Flatulence	29 (2.3)
Depression	28 (2.3)
Neck pain	27 (2.2)
Hypoaesthesia	26 (2.1)
Seasonal allergy	26 (2.1)
Increased appetite	25 (2.0)
Night sweats	25 (2.0)
Pollakiuria	25 (2.0)
Abdominal distension	23 (1.9)
Gastroenteritis viral	23 (1.9)
	23 (1.9)
Irritable bowel syndrome	23 (1.9)
Lethargy	23 (1.9)
Sedation	22 (1.8)
Chest pain	
Contusion	22 (1.8)
Disturbance in attention	
Fibromyalgia	22 (1.8)
Chills	21 (1.7)
Libido decreased	21 (1.7)
Feeling jittery	20 (1.6)
Pharyngitis	20 (1.6)
Sinus headache	20 (1.6)
Fall	19 (1.5)
Nervousness	19 (1.5)
Muscle twitching	18 (1.5)
Vertigo	18 (1.5)
Weight decreased	18 (1.5)
Pyrexia	17 (1.4)
Abnormal dreams	16 (1.3)
Nightmare	16 (1.3)
Sinus congestion	16 (1.3)
Stomach discomfort	16 (1.3)
Tinnitus	. 16 (1.3)

Anorgasmia	15 (1.2)
Oedema peripheral	15 (1.2)
Restlessness	15 (1.2)
Dry eye	14 (1.1)
Gastritis	14 (1.1)
Gastrooesophageal reflux disease	14 (1.1)
Osteoarthritis	14 (1.1)
Bruxism ·	13 (1.1)
Gastroenteritis	13 (1.1)
Irritability	13 (1.1)
Musculoskeletal stiffness	13 (1.1)
Restless legs syndrome	13 (1.1)
Thirst	13 (1.1)
Joint sprain	12 (1.0)
Tendonitis	12 (1.0)
Urinary hesitation	12 (1.0)
Urticaria	12 (1.0)
Modified from Applicant's Table, Page 173, Clinical Safety Summar	y Appendix.

Table 7.5
Laboratory Values – Chemistry Analytes Change from Baseline to Maximum All Randomized Patients in Fibromyalgia Placebo-Controlled Trials

				Basel	ine	Change	to Maximun
Lab Test	Unit	Therapy	N	Mean	SD	Mean	SD
ALKALINE PHOSPHATASE	U/L	Placebo Duloxetine	505 819	74.95 76.20	23.22 23.55	3.63 7.07	9.71 12.57
ALT/SGPT	U/L	Placebo Duloxetine	504 818	20.73 21.53	9.89 10.36	3.60 8.49	11.87 38.27
AST/SGOT	U/L	Placebo Duloxetine	503 810	20.75 21.17	6.13 6.77	2.87 5.83	7.36 21.74
BICARBONATE, HCO3	mmol/L	Placebo Duloxetine	503 819	23.99 23.91	2.41 2.58	1.38 1.94	2.67 2.70
BILIRUBIN, TOTAL	umol/L	Placebo Duloxetine	504 820	7.29 7.60	3.90 3.79	1.24 1.01	3.02 2.72
CALCIUM	mmol/L	Placebo Duloxetine	505 820	2.45 2.46	0.10 0.10	0.04 0.03	0.10 0.09
CHLORIDE	mmol/L	Placebo Duloxetine	505 818	104.64 104.79	2.55 2.88	1.37 0.76	2.32 2.73
CHOLESTEROL	mmol/L	Placebo Duloxetine	505 820	5.50 5.52	1.08 1.03	0.17 0.29	0.66 0.70
CREATINE PHOSPHOKINASE	U/L	Placebo Duloxetine	504 819	84.00 90.09	48.32 68.68	23.80 56.59	80.70 600.17
CREATININE	umol/L	Placebo Duloxetine	505 820	95.90 96.44	12.74 13.08	4.88 5.45	9.77 9.14
GGT (GGPT/SGGT/YGGT)	U/L	Placebo Duloxetine	505 818	24.01 26.02	28.52 21.94	3.01 3.94	18.54 21.28
INORGANIC PHOSPHORUS	mmol/L	Placebo Duloxetine	505 820	1.15 1.18	0.17 0.17	0.09 0.07	0.17 0.18
POTASSIUM	mmol/L	Placebo Duloxetine	505 817	4.30 4.30	0.40 0.41	0.19 0.21	0.40 0.41
SODIUM	mmol/L	Placebo Duloxetine	504 817	141.38 141.46	2.39 2.69	1.07 0.82	2.71 3.27
TOTAL PROTEIN	g/L	Placebo Duloxetine	505 820	72.64 72.79	4.09 4.18	0.65 0.60	3.58 3.54
JREA NITROGEN	mmol/L	Placebo Duloxetine	505 820	5.19 5.21	1.44 1.47	0.64 0.66	1.27 1.26
JRIC ACID	umol/L	Placebo Duloxetine	505 820	290.01 294.62	74.45 78.92	23.01 9.89	41.99 43.66

N = Number of patients with a baseline and at least one non-missing post-baseline measurement.

SD = standard deviation

Modified from Applicant's Table, Page 81-82, Clinical Safety Summary

Table 7.6 Laboratory Values - Hematology Analytes Change from Baseline to Maximum All Randomized Patients in Fibromyalgia Placebo-Controlled Trials

				Base	line	Change to Maximum		
Lab Test	Unit	Therapy	N	Mean	SD	Mean	SD	
BANDS	GVL	Placebo Duloxetine	313 487	0.00 0.00	0.01 0.01	0.00 0.00	0.01 0.02	
BASOPHILS	GI/L	Placebo Duloxetine	363 565	0.05 0.05	0.03 0.02	0.01 0.01	0.03 0.03	
EOSINOPHILS	GI/L	Placebo Duloxetine	363 565	0.14 0.14	0.11 0.11	0.01 0.03	0.08 0.10	
ERYTHROCYTE COUNT	TI/L	Placebo Duloxetine	363 565	4.72 4.74	0.39 0.38	-0.01 -0.00	0.24 0.24	
HEMATOCRIT .	Actual Count	Placebo Duloxetine	361 564	0.42 0.42	0.04 0.03	-0.00 0.00	0.03 0.02	
HEMOGLOBIN	mml/L	Placebo Duloxetine	363 565	8.49 8.48	0.72 0.68	-0.06 -0.02	0.43 0.46	
LEUKOCYTE COUNT	GI/L	Placebo Duloxetine	363 565	6.74 6.64	1.79 1.69	0.24 0.29	1.39 1.43	
LYMPHOCYTES	GI/L	Placebo Duloxetine	363 565	2.06 2.06	0.64 0.61	0.06 0.07	0.44 0.42	
LYMPHOCYTES, ATYPICAL	GI/L	Placebo Duloxetine	225 387	0.00 0.00	0.01 0.00	-0.00 0.00	0.01 0.01	
MEAN CELL HEMOGLOBIN (MCH)	fmol	Placebo Duloxetine	363 563	1.81 1.79	0.13 0.11	-0.00 0.01	0.06 0.06	
MEAN CELL HEMOGLOBIN CONCENTRATION (MCHC)	mml/L	Placebo Duloxetine	361 564	20.40 20.29	0.95 0.85	0.11 0.09	0.77 0.81	
MEAN CELL VOLUME (MCV)	fL	Placebo Duloxetine	361 564	88.66 88.56	5.49 4.76	0.44 0.84	3.35 3.16	
MONOCYTES	GI/L	Placebo Duloxetine	363 565	0.34 0.34	0.12 0.12	0.04 0.05	0.12 0.12	
NEUTROPHILS, SEGMENTED	GI/L	Placebo Duloxetine	363 565	4.14 4.05	1.38 1.34	0.21 0.22	1.23 1.24	
PLATELET COUNT	GI/L	Placebo Duloxetine	359 561	283.80 280.68	64.67 60.94	2.91 · 13.52	39.03 42.68	

N = Number of patients with a baseline and at least one non-missing post-baseline measurement.

SD = standard deviation
Modified from Applicant's Table, Pages 96-97, Clinical Safety Summary

			Placebo		Duloxetine			
Lab Test	Direction	N	n	%	N	n	%	
ALKALINE PHOSPHATASE	High	478	12	2.5	773	42	5.4	
	Low	505	3	0.6	820	2	0.2	
ALT/SGPT	High	450	36	8.0	729	111	15.2	
	Low	506	I	0.2	820	3	0.4	
AST/SGOT	High	482	25	5.2	781	79	10.1	
	Low	503	3	0.6	816	0	0	
BICARBONATE, HCO3	High	504	7	1.4	821	28	3.4	
	Low	501	6	1.2	811	6	0.7	
BILIRUBIN, TOTAL	High	499	6	1.2	812	4	0.5	
	Low	478	54	11.3	772	75	9.7	
CALCIUM	High	475	24	5.1	771	38	4.9	
	Low	507	0	0	822	2	0.2	
CHLORIDE	High Low	501 507	5 2	1.0 0.4	811 821	8 7	1.0 0.9	
CHOLESTEROL	High	466	15	3.2	762	45	5.9	
	Low	452	52	11.5	746	76	10.2	
CREATINE PHOSPHOKINASE	High	465	35	7.5	761	93	12.2	
	Low	506	0	0	822	0	0	
CREATININE	High	503	10	2.0	810	19	2.3	
	Low	506	3	0.6	821	2	0.2	
GGT (GGPT/SGGT/YGGT)	High	475	17	3.6	736	39	5.3	
	Low	506	4	0.8	821	5	0.6	
INORGANIC PHOSPHORUS	High	504	3	0.6	816	7	0.9	
	Low	504	11	2.2	820	22	2.7	
POTASSIUM	High	500	12	2.4	810	23	2.8	
	Low	506	7	1.4	814	20	2.5	
SODIUM	High	481	20	4.2	775	32	4.1	
	Low	505	1	0.2	819	11	1.3	
TOTAL PROTEIN	High Low	500 506	3 0	0.6	813 819	3 3	0.4 0.4	
UREA NITROGEN	High Low	492 507	15 0	3.0	807 822	40 0	5.0 0	
URIC ACID	High	489	22	4.5	784	17	2.2	
	Low	502	1	0.2	816	11	1.3	

N = total number of at risk patients with the lab test, n = total number of at risk patients with specific lab result Modified from Applicant's Table, Page 83-85, Clinical Safety Summary

			Duloxetine				
Lab Test	Direction	N	n	%	N	n	%
ANISOCYTOSIS	Abnormal	216	13	6.0	398	4	1.0
BANDS	High Low	313 313	0	0	487 487	0 0	0
BASOPHILS	High Low	365 366	1 0	0.3 0	567 567	2 0	0.4 0
EOSINOPHILS	High Low	364 366	0	0	560 567	6 0	1.1 0
ERYTHROCYTE COUNT	High Low	363 350	1	0.3 1.7	561 538	4 15	0.7 2.8
HEMATOCRIT	High Low	352 359	7 2	2.0 0.6	558 562	5 8	0.9 1.4
HEMOGLOBIN	High Low	364 352	0 13	0 3.7	565 546	1 14	0.2 2.6
HYPOCHROMIA	Abnormal	72	1	1.4	203	0	0
LEUKOCYTE COUNT	High Low	353 360	13 7	3.7 1.9	554 555	15 12	2.7 2.2
LYMPHOCYTES	High Low	361 362	5 2	1.4 0.6	557 564	5 4	0.9 0.7
MACROCYTOSIS	Abnormal	195	4	2.1	324	3	0.9
MEAN CELL HEMOGLOBIN (MCH)	High Low	364 344	0 5	0 1.5	565 547	3 7	0.5 1.3
MEAN CELL HEMOGLOBIN CONCENTRATION (MCHC)	High Low	364 344	0 25	0 7.3	567 543	0 36	6.6
MEAN CELL VOLUME (MCV)	High Low	351 354	10 12	2.8 3.4	562 554	11 4	2.0
MICROCYTOSIS	Abnormal	209	6	2.9	388	2	0.5
MONOCYTES	High Low	366 363	2 2	0.5 0.6	566 565	7 5	1.2 0.9
NEUTROPHILS, SEGMENTED	High Low	354 359	16 5	4.5 1.4	552 556	20 16	3.6 2.9
PLATELET COUNT	High Low	345 360	10 4	2.9 1.1	544 562	18 0	3.3
POLYCHROMIA	Abnormal	207	8	3.9	376	2	0.5

N = total number of at risk patients with the lab test, n = total number of at risk patients with specific lab result Modified from Applicant's Table, Page 98-100, Clinical Safety Summary

Table 7.9
Treatment-Emergent Potentially Clinically Significant Values at Any Time
All Randomized Patients in Fibromyalgia Placebo-Controlled Trials

		PLACEBO			DULOXETINE		
Vital Statistic	Abnormality	N	n	Percent	N	n	Percent
	High	527	1	0.2	855	4	0.5
Pulse	Low	519	2	0.4	846	3	0.4
Civit Di Li DD	High	522	1	0.2	847	6	0.7
Sitting Diastolic BP	Low	523	3	0.6	852	3	0.4
State C. A.P. BB	High	525	1	0.2	848	3	0.4
Sitting Systolic BP	Low	517	3	0.6	845	2	0.2
Weight (kg)	Gain	499	2	0.4	823	10	1.2
	Loss	499	6	1.2	823	18	2.2

N = Number of patients at risk of having PCS values at baseline.

n = Number of patients with a PCS postbaseline measurement.

Baseline values are lowest in baseline interval for PCS low and highest value in baseline interval for PCS high.

Criteria: SYS low (≤90 and decrease from baseline ≥20), SYS high(≥180 and increase from baseline ≥20),

DIA low (≤50 and decrease from baseline≥15), DIA high (≥105 and increase from baseline≥15),

Pulse low(≤50 and decrease from baseline≥15), Pulse high (≥120 and increase from baseline≥15),

WGTKG low decrease from baseline>=10%, high increase from baseline>=10%.

Applicant's Table, Page 113, Clinical Safety Summary.

Table 7.10

Vital Signs and Weight - Treatment-Emergent Potentially Clinically Significant Values at Any Time All Fibromyalgia Patients Treated With Duloxetine (Placebo-Controlled & Open-Label Studies)

		DU	JLOXETINE	
Vital Statistic	Abnormality	N	, n	Percent
D.L.	High	1202	6	0.5
Pulse	Low	1194	3	0.3
Citting Diostolia DD	Ḥigh	1189	14	1.2
Sitting Diastolic BP	Low	1198	6	0.5
Sitting Systelia DD	High	1195	9	0.8
Sitting Systolic BP	Low	1185	13	1.1
\$\$/aiah4 /ka)	Gain	1171	38	3.2
Weight (kg)	Loss	1171	35	3.0

N = Number of patients at risk of having PCS values at baseline.

n = Number of patients with a PCS postbaseline measurement.

Applicant's Table, Page 804, Clinical Safety Summary Appendix.

Table 7.11

Electrocardiogram Intervals and Heart Rate

Treatment-Emergent Abnormal Values at Any Time

All Randomized Patients in Fibromyalgia Placebo-Controlled Trials

			PLACI	EBO	DULOXETINE		
ECG Parameters	Abnormality	N	n	Percent	N	n	Percent
HR	High	354	0	0	545	0	. 0
	Low	345	2	0.6	539	4	0.7
PR	Abnormal	341	7	2.1	533	7	1.3
QRS	Abnormal	234	47	20.1	364	95	26.1
ТО	Abnormal	338	10	3.0	526	11	2.1
QTcB	Abnormal	349	9	2.6	536	11	2.1
QTcF	Abnormal	353	3	0.8	542	5	0.9

N = number of randomized patients with baseline and postbaseline measurements who we're 'normal' at baseline.

n = Number of randomized patients with abnormal postbaseline measurement.

Modified from Applicant's Table, Page 121, Clinical Safety Summary

Table 7.12

Electrocardiogram Intervals and Heart Rate

Treatment-Emergent Potentially Clinically Significant Values at Any Time

All Randomized Patients in Fibromyalgia Placebo-Controlled Trials

		PLACEBO)			DULOXE	TINE
ECG Parameters	Abnormality	N	n	Percent	N .	n	Percent
HR	High	354	0	0	545	0	0
	Low	345	2	0.6	539	4	0.7
PR	High	343	8	2.3	533	6	1.1
	Low	350	5	1.4	531	16	3.0
QRS	High	347	4	1.2	536	7	1.3
	Low	354	0	0	545	0	0
QTcF	Abnormal	354	1	0.3	545	2	0.4

N = Number of patients at risk of having PCS values at baseline.

n = Number of patients with a PCS postbaseline measurement.

Modified from Applicant's Table, Page 123, Clinical Safety Summary

Table 7.13 Patient Demographics and Baseline Characteristics All Enrolled Patients Primary Long-Term Analyses Set (Study HMEH)	
	All Enrolled Patients
Variable	(N = 350)
Sex	
No. of Patients	350
Female	335 (95.7)
Male	15 (4.3)
Age in Years at Consent	
No. of Patients	350
Mean	48.97
Median	49.55
Standard Dev.	11.07
Minimum	18.41
Maximum .	5. 83.82
Race	
No. of Patients	350
African	3 (0.9)
Caucasian	214 (61.1)
East Asian	46 (13.1)
Hispanic	82 (23.4)
Native American	1 (0.3)
West Asian	4 (1.1)
Weight in Kg at Baseline	
No. of Patients	350
Mean	69.95
Median	67.00
Standard Dev.	14.74
Minimum	41.00
Maximum	125.00
Height in Cm at Baseline	
No. of Patients	349
Mean	159.44
Median	160.00
Standard Dev.	7.09
Minimum	142.00
Maximum	189.00

Description	Study P Scree Pha	ming .						apy P			
Visit	ŧ	2	3	4	5	6	7	8	9	61	EI <vi< th=""></vi<>
Week	-5 to -1	-1	0	1	2	4	6	8	16	12	
Clinic Assessments											
Informed consent	x										
Demographics	x										
Medical history	x										
Complete physical	x									×	x
Consumptive habits	x							 	_		_
Historical illness and	x										
previous medications						L	L		L		
ACR criteria for fibromyalgia	x										
MINI* (MDD	x		\vdash	_				 	_		\vdash
diagnosis and others)											
Height	x			_	$\overline{}$	_	<u> </u>	_	<u> </u>		
Weight	X									×	x
ECG	x									×	×
Patient summery						\Box			\vdash	x	×
Blood pressure	x	x	x	×	x	x	×	x	X	x	x
(sitting), beart rate							L	L	L		L
Preexisting conditions and adverse events	×	x	X	x	x	×	x	x	x	x	×
Concomitant	x	x	x	x	x	x	×	x	x	x	1
medications			-	"	-	-	1	-	-	"	^
Study Drug				$\overline{}$							
Dispense drug		×	x	x	×	x	×	x	x		
Return			x	x	x	X	X	×	x	x	×
drug/accountability	1										
Efficacy Measurements									•		
FIQ	x	x	x	X	х	x	x	x	x	×	×
Menn tender point pain thresholds			X			x		×		×	×
CGI-Severityb			x			x		×		x	×
PGI-Improvement			x		$\overline{}$	x		×		X	X
Brief Pain Inventory			x	x	x	X	×	x	x	x	×
BDI-0			x			x		×		x	x
BAI			X			x		x		x	×
Exploratory Measures											
SSI			X							_	
Amplification Scale	1		x						_		

	Study P Scree Pha	ning	Study Period II Acute Therapy Phase											
Visit	1	2	3	4	5	6	7	8	9	10	ED <v10< th=""></v10<>			
Week	-5 to -2	-1	0	t	2	4	6	8	10	12				
Health Outcomes Assessment														
SF-36			x			T				x	x			
QLDS			x				Г		П	x	X			
SDS			х							x	x			
Laboratory Assessments														
Hematology	x		x			_				x	x			
Clinical chemistry and electrolyte group	x		X			x		x		X	x			
Urine drug screen	x													
Serum pregnancy test	х													
Urinalysis	x													
Thyroid function test	X													
Antinucleur Antibody	X													
C-reactive protein	х													
Rheumatord factor	x													

Rheumatoid factor x

Abbreviations: BAI = Beck Anxiety Inventory; BDI-II = Beck Depression Inventory; CGI-Severity =
Clinical Global Impressions of Severity; ECG = Electrocardiogram: ED = early discontinuation;
FIQ = Fibromyalgia Impact Questionnaire; MINI = Mini International Neuropsychiatric Interview;
PGI-Improvement = Patient Global Impressions of Improvement; QLDS = Quality of Life in
Depression Scale; SDS = Sheehan Disability Scale; SF-36 = Medical Outcomes Study Short Form-36;
SSI = Somatic Symptom Inventory;

Qualified study personnel, as defined in Lilly training materials, performed these assessments.

A study physician administered the CGI-Severity in the presence of the patient.

Applicant's Table, Pages 41-42, Clinical Study Report F1J-MC-HMBO.

T 11 5 15

Preexisting conditions and adverse events

Concomitant

medications Study Drug Dispense drug Xª

Description	Study P Scree Pha	aing		A	Stud		Discon	Period III tinuation kase			
Visit	1	2	3	4	5	6	7	8	9	10	ED <v10< th=""></v10<>
Week	510-1	6	1	2	4	6	8	10	11	13	
Clinical Assessments											
informed consent	x										
Demographics	Z										
Medical history	x										
Complete physical exam	x									x	x
Consumptive babits		×							1		
Historical illness and previous medications	Xª										
ACR Criteria for Fibromyalgia	x										
Minib (MDD diagnosis and others)	×										
Height		X									
Weight		×	Ī						x		x
ECG	х										
Patient summary										х	×
Blood pressure (sitting), heart rate	X	x	x	x	×	x	x	x	X	х	x
Description				-							

x

Description	Study P I Scree Pha	ning		A		y Peri bersy	iod II vy Plu	rse		Disco	Period II intinuatio Phase
Visit	ı	2	3	4	5	6	7	8	9	16	ED <v10< th=""></v10<>
Week	-5 to -1	0	1	2	4	6	8	18	12	1.3	
Efficacy Measurements											
FIQ		X	x	X	x	x	x	x	x		х
Tender point pain threshold b		х			x		x		x		x
CGI-Severity c		x			x		X,		X		x
PGI-Improvement					X		X		x		x
Brief Pain Inventory		X	X	x	x	X	X	X	x		x
HAMD ₁₇ b		X			x		x		X		x
Health Outcomes								1			
Assesspsent											
SF-36		X							x		x
QLDS		x							x		x
SDS		x							x		x
Laboratory Assessments											
Hemstology	X					<u> </u>					
Clinical chemistry and electrolyte group	x	×			x		x		x		x
Urine drug screen	X										
Serum pregnancy test	z										
Urinalysis	x										
Thyroid function test	x										
Antinuclear antibody	x										
C-reactive protein	x								x		×
Rheumatoid factor	x										

x = Performed at this visit.

Abbreviations: ACR = American College of Rheumatology: CGI-Severity = Clinical Global Impressions of Severity; ECG = Electrocardiogram; ED = early discontinuation; FiQ = Fibromyalgia Impact Questionnaire: HAMD₁₇ = Hamilton Depression 17-item scale: MDD = major depressive disorder:

MINI = Mini International Neuropsychiatric Interview; PGI-Improvement = Pattent Global Impressions of Improvement; QLDS = Quality of Life Depression Scale; SDS = Shechan Disability Scale; SF-36 = Medical Outcomes Study Short Form-36; V = visit.

a Recorded on Source document at Visit 1 and entered on CRF at Visit 2.

Qualified study personnel, as defined in Lifty training materials, must perform these assessments.

A study physician must administer the CGI-Severity in the presence of the patient or after having been in the presence of the patient.

Applicant's Table, Pages 45-46, Clinical Study Report F1J-MC-HMCA.

ipelma	Study I Serv	caleg				refeat t				Period densit				furied tee Fb		Study Period V	1	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	,,,,	7	3	•	4	٠	,	•	•		11	12	13	14	15	Taper Phone 361	ED (	EII 2 (Visite
		•	-	2		-	10	15	19		-	12	-	48	56	54	3-11)	12-15
er mile														T				
4	•																	
aphics (Bulury	•	_			_		_						1			-		
te t Esam	۲.													-				
e Alcohel	•																	
engtion desce										-	1		.	į				
regtive Licebal		•		-	_		i	-	-+	$\dashv$	7	-+	+	+	*	1		<b>—</b>
emplies rical Where to look	•					-		+	-	-+		十	+					
ications Critorie for			Ш	_		_	_	_	$\perp$	4	4	4	4	_		-		
P (MDD				_		_	_		_	_	4	$\dashv$	1	_		<u> </u>	ļ	
nonin and	`						*	l			- 1		-	Į				
M		· ·	1		_						7		<del>-</del> -	<u> </u>		· · · · · · · · · · · · · · · · · · ·		<u></u>
M .	,	•	-	1	*	3	*	÷	۲.	x		7	•	•	•	x	×.	L.
of Summery of Previous	-,	-	-		Ţ	x							-		_	3.		
L.F\dic																1	L	
···	Study	Period	T			Perto			Ste	h teri	ed EH	T	54=	dy Per	ied IV	Study	$\exists$	
		47t	Ļ			43 497				Phen		<u> </u>				Period Yaper Phase		
······································	_	1	5	L.	5	İ	1_			16	11		1	14		5 301	(V) 	tes (Vi
uisting	-1	•	1					1	10	23	7	32		1 44	-			
dirions and erec Events		<u> </u>	1	_	<u> </u>	<u></u>	_	L	_			L	1	L			$\bot$	
comitant lications	×	1	*	`	*	L	1	*	Ľ	*	`	•	Ľ	8		×	,	
Oraș msc Drug		-	-		1		-				X	1						×
en g:Accommo			*	*	*	1		*	*	`	*	*	1	•			*	1
47			+-	+-	<del> </del>	+-	†-	+-			-	+-	+	+	+-	-+		
(Pala			+	-	-	+	*	+;	<del> -</del>	-	-	+-	+	+	-		+-	
rakey .			×		*	x	*	x	×	*	<u>,</u>	+	×	+	-			
Severity			1		-	1	1	1	L		_	1	1	+				$\pm$
der Point Meeshold		1	_		•	Ĺ	1	•	1	K	*	L		L		•		*
Servering		3	1		1 7		*	×	*	*	×		1	$\perp$				
		÷	h	1	7	×	-	13			1	1	1.	1	-		1	<u> </u>
-1		*	T	1	Г	T	ī	1			×	T	1	T			T 1	x
04		y Perio				dy Per	ried (	,		tudy f	erfod				ried f	Stedy		
		aing Fl				Thera			F.	Conti	estic ttc	•			- 71	t Period Espec Phase	•	<u>.</u>
	1		2	3	•	3	•	1	•	-	T	"	12	13	14	FS 361	14. 14.	es (44
Cateman	1	1	-	-	2	•	•	11	5	9 2	4	28	32	•	<b>a</b>	9 9		4
anter	-	-	لب			_		-	+	-	4	_		4.4	_			
<b>D</b>	1			#	#	#	#		-	#	$\perp$	*	+	+	+	-	, x	
enry entrate	1	1-	+	+	7	t	+	+	-	$\dagger$	十	-	-		+		<del> </del> \$	
colof)	•	$\top$	1	$\dashv$	$\dashv$	1	十	+	7	+	$^{+}$		+	+			٠,	
d Chemater g Lipid	÷	7		7	7	×	7	Ť	XI.	#	4	Ŧ	#	#			×	1
Drug Scroce	-	+		-	-	4	4	+	1	+	+	1	4		_¦՝		—	Ψ,
ancy Test	8	+	-	+	+	+	+	+	+	+	+	-	+	+	<u> </u>		+	+
tysés ed Function	-	1	7	- -	-	1		-	- -		#	_	#	1-	-			
ocicar		-	-	1	4	+	+	4	$\bot$	4	4	4	_	_	_			-
oth cone Pracia	<u> </u>	-	_	-	4	4	4	4	1	4	-4-		4	1	_			
ustoid Factor		1	1	_	$\exists$		$\pm$		士	1	1		士	上				士
nes: ACR	- Ama	ican Co	diege	of Sthe	eumat ion: F	ologo:	BDI-	ett - B	eck De	pressio EO-31	t bree	mory co-th-	-lk C	GI-Se	erity	Clinical Global Olmondon, Esa	Impression	us of Seve
valgis kaq	ari Que	, in the same	ire: fil.	MD,	1	-itcor	Heroi	ikea U	cpress!	on Rat	ne Sc	ale: M	F1 - 9	(which	mansia	ed Falgue bevo	Mary: Mil	it - Mini
							-	Pyrin	r.c	had to-	Tetal-		-	-	- CC. *	- tain	. Singer 49 -	
hechan D wwdy per	isobility	Scale.												vernest	i; SF-3	→ 36-item Shor	t-Form He	

-	1 Nove					A			44 LP							ried ( Phe		Study Period EV Taper			
i-at	ī	2	1,	1.		•	• [	7	•	1	ĮĐ	1	•	12	öΤ	14	15	Phase 361	ED (Visits	CVI	de
Vock.			+,	+;	-	+	-	-		16	13	+;	+	33	39	47	54		201	12	9.
lisic Assessments			Ť	1	T	T	1	1	-	-1-	Ī	T	T	1	1					T	
toformed Consent	*		1	T	T	7	T	7	-			Τ	T	7	T					T	
Demographics Medical History	٠.		1	‡	1	#	7	_			-	+	7	7	7		_	ļ		ļ	듸
Complete	- <del>5</del>		1	1	T	7	7	7	_		1	+	+	7	7			†	1	$\top$	၂
Physical Econ Habite:	1		+-	+	+	+	+	-			-	+-	$\dagger$	+	+	-			<b></b> -	+-	ᅥ
Average Alcohol Consumption,				1											1	į					
Tohucco Consumption			1	L	1						L	1	1	1	_	_				L	
Consumption		*				1			*			*	1				*	`	×	Ľ	_
Historical Illness and Previous	*													İ				ĺ			į
Medications ACR Coloria for	x		+	╁	+	+	1	-	-		+	十	十	+	+	-		<b></b>	ļ	$\dagger$	-
MS 4400		ļ	-	<u></u>	<u></u> -						<u> </u>	<u> </u>						1	1		
diagnosis and ethers)	`				-								1	-							
lfeight Weight		•	1.		+		Ţ	•	3	Ţ	1,	+		7	5	_	3			F	
ECG Patient Surrouny	×	Ľ	‡	ŧ	ļ	+	`		÷	_	1-		4	#	_		-			1	
Stood Provere	•	•	†	†;	+	*	1	×	×	•	†	+	7	寸	•	`	ŧ	<del>                                     </del>	+:		-
(Sitting), Pube Rate		<u> </u>	1	L	1	1	_		<u></u>	<u>L_</u>	1_							1	<u>Ļ</u>	L	
hveription	Study P t Serve Plan	ried about				Acu	e The	Cerio Cerio	f (i Flore	·				Study	Perti	ed (tt Name		Study Period IV Taper Plan			
Theist	• 1	7	2	1	,	•	7	7	7	9 1	•.	Ħ	42	u	T	•	15	.94	(Visite		its :
4-ak	4							1	٠,	1 1	3	37	33			,	54	<del>(4</del>	3-112		2
Proceeding Condition and	•		7	٢.		*				٠.		`	۲	•	1		٤	`	•		- 7
Adverse Events Concumitant Moltagions		1	•		•	1 *	1.	١.	+	+	1	۲	۲	١.	†	+	۲	٠		+	
Medications rady Drug Dispusse Drug	_		Ħ	Ţ	-	1:	-	+	1	‡		Ę		<u> </u>	+	+	Ţ		- K	‡,	<u>}</u>
Retern Dang-Accountable			**-	Ť	Ť	۲				+	•	*	*	×	T	1	*	•	-	1	
lity Hosey			$\vdash$	-	-	1	+	-	+	+	-			+	+-	+			-	+	-
Memorements Brief Paid			•	٠,	-	+	+-	÷	+	-	•	*	_	1	╀	+	•		+	-	
PG4- Improvement			•	٠,	•	1	1	+	+	•	*	۲ ا	-	١,	İ	+	۲.		+	+-	
PGA-Severity Tender Point	_	÷			Ę	1	÷	+	-	+	4	Ţ		Ļ	1	+	Ţ		+-	#	$\equiv$
Pain Thresholds CGI-Severity®		· ·	Н		Ļ	-	_			$\perp$		-	_	Ļ	+	+			<del>  `</del>	+	
ASH .	=	3			. 1	ļ	1 2	1				ζ.		E	L	1					_
RDI-II HAMD _{1.7}	•	-	Ť		3.	E	E	1		Ξ		÷		F	E	$\pm$	÷		÷		
Description	Scree	Perk	41				Se	edy P	eriod repy f	II Rese			T	E	re-ii	eriod i	115 **	Study Feriod II Taper			
Visit	-	_	;	5	4	5	•	7	8	•	10	1	-	12	(3	14	15	Photo	ED		ED
Wash	<u> </u>	ļ	_	ij			_	Ļ	1.	1.	1	1.	+			_		-	3-11		tette LIS
Work Health Outcomes Americanest	- 1	- <b> -</b> -	•	-		-	-5-	- 1	12.	198.	172	†	+	*2-		-97_	- **		1	t	
SDS EQ-SD	1							Ε	1		F	1		1	J		X.	-	×	7	× ·
SF-36 Leberstury	-	+	-						Ť	·	1	+	+			_	₹		13	+	8
Amenamente PK Sampling		1	_			Υ.	-	L	<u>_</u>	-	Ł	$\pm$	$\pm$				_	+		$\pm$	
(Belcal Chemistry	*	I		_]	_	Ļ	Ļ	Ļ	Ŀ	-	Ļ	-		$\Box$			-		- ;	Ţ	<del>`</del>
Factor Levis profile	*	I							ĸ		Γ	T					*		`	T	×
Erine Drug Screen Fregumey Test	, ×	I							$\Gamma$		L	I	1						I	I	
Limitation Thereof Function	H	+	_	4		-		-	-	-	+-	-	+		-		-	-	-	+	
Test Assistactor	<del> </del>	+		-				-	-	<del> </del> —	+	-	+	-		-	-	-	+	+	
Amstudy C-Reactive Protein	1	1	_	_							1	1	$\pm$							1	_
Rhesenatold Factor	1 .	I									L	ı						10		1	
ED r cuty discost	invotion	ECG	· Ekc	TOCH	dive	ranti E	Q-SI	D×Đ	urqQ:	d Que	ulma	aire -	S Die	kom ka	c FIG	e-FR	roun	algia Impoci	Decisions	mic;	-
POI-Ingrovement	e Floreit - Patien	on Do	restic	ne Ruc premi	ing S	icale : of Ing	अहर रूप	r Nu arenta	kidis SF-M	nomio 6 - 34	nel Fa Hern	Siver-	re-cont Forms	ery; k	HNI -	Mini	leten	nstional Neur	open y chilain	ric lase	viev
Qualified andy pers	macl as	deline	d es L	illy to	niole	r Rub	of the	man	neric			-	mer.								
and physicisa o		-				2															

Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET	
Week	-	0	1	8	9	14	19	26	33	42	51	60	62	>Wi	
Description	1		ļ		1.				<del> </del>	t	1	+	-		
Informed Consent	X														
Demographics	Y	┝╌		-	<del>  -</del>	<del> </del>	<del> </del>	┼	<del> </del>	+-	+	<del> </del>	<del> </del>	+	
Medical	X	-		<del>                                     </del>	<del>                                     </del>	<del> </del>		†	<del>                                     </del>	1	+	1	<del> </del>	1	
History												1	1		•
Physical	X											T			
Exam	L	<u> </u>		<u> </u>		ļ	ļ			<del> </del>	ļ	1	<u> </u>	1	
Historical	Х							l							
Illness ACR Criteria	x	<del>                                     </del>		<del>                                     </del>	-	<del> </del>	<del> </del>	<del> </del>	1	<del>                                     </del>	+-	1	$\vdash$	1	
for	l^														
Fibromyalgia												1_			
Habits	x														
Alcohol		х	X	X	х	x	х	x	x	x	x	х	х	x	
Consumption			L	<u> </u> -		L	<u> </u>	ļ	<b></b>	<del> </del>	<del> </del>	1	<b> </b>	1	
Height		X	42			4.	1		<del> </del>	1,,	177	1,,	ļ., —	-	
Weight	7,	X	<u>X</u>	X	X	X	X	X	X	X	X	X	X	X	
ECG Vital Signs	X	x	v	v	v	v	l _v	X	X	V	x	x	x	x	
Adverse	Ŷ	X	X	X	X	X	X	X	X	X	X	X	X	X	
Events/	l^	*	1	1"	1	1	^	~	1	^	1"	1	1"	"	
Pre-existing															
conditions									<u>L</u>	<u></u>				-	
Concomitant	X	X	X	Х	X	X	x	X	X	Х	X	X	X	X	
Medications	_		<u> </u>	ļ	<u> </u>	ļ	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	1	<b> </b>	<del>                                      </del>	Appears This Way On Original
Dispense		X	Х	X	X	X	X	X	X	X	X	X		X ^a	ž _
Drug Return Drug/	-	-	x	x	X	X	x	X	x	$\frac{1}{x}$	$\frac{1}{x}$	x	x	x	70
accountability			^	^	^	^	^	^	1	1^	^	1	^	^	يَّ جُ
FIQ	$\vdash$	X		x	<del>                                     </del>	X	1	X		x	1	x		X	E O
Tender-point	Г	X		X		X		X		х		x	T	X	200
pain threshold	<u> </u>						<u> </u>		<u> </u>			1	<u> </u>		Ö Č
BPI-	X	Х		Х		X		X		Х		X		X	86
Modified															ă
Short Form PGI-	-	-		X		x	<del> </del>	x	-	$\frac{1}{\mathbf{x}}$	+	$\frac{1}{\mathbf{x}}$	+	$\frac{1}{x}$	₹
PGI- Improvement				^		^		^		^		^	1	^	•
PGI-Severity	$\vdash$	X		<u> </u>	<del>                                     </del>	<del> </del>	<del>                                     </del>	1	1	1	†	1			
CGI-Severity	Г	x		x		x	<b>†</b>	x	1	X		x		X	
SDS		X		x		X		X		X		X		X	
BDI-II		X		X	X	X	Х	X	X	X	X	X	Х	X	
Hematology	X		X	X	<u> </u>	X	<u> </u>	X	<u> </u>	X	X	X	<u>i</u>	X	
Visit	1	2	3	4	5	6	7	8	9	10	11	12	301	ET	
Week	-1	0	1	8	9	14	19	26	33	42	51	60	62	>W1	
	x		Х	X		X		x		X	X	x		x	
Chemistry Urine Drug	X		-	-	-										
Screen										l					
Pregnancy	X										<u> </u>				
Test (females										:					
only)				-	1	<u> </u>								<u>                                     </u>	
	X	_	X	X	-	X	<u> </u>	X		X	X	Х	v	X	
Patient Summary													X	Х	
JUHHRITY			1	taper.	1		j	1	l	i	ı			1 1	

Table 7.19 Worldwide Regulatory Acti	ons Through 5/2/2	007	
Issue	Country	Action Taken	Date
Pediatric suicidality	United States	Boxed warning: The FDA requested a boxed warning as well as updated Warnings and Precautions language and a Medication Guide concerning pediatric suicidality for all antidepressants in the US on October 14, 2004. These labeling updates and the Medication Guide were added to the Cymbalta US label and approved by FDA on 18 February 2005.	October 15, 2004; actions completed on 18 February 2005
Hepatic safety	United States	On August 16, 2005, Lilly received a letter from FDA requesting that the hepatic section of Cymbalta USPI be updated, based upon information collected from spontaneous reporting, and that Lilly provide a "Dear Healthcare Provider" letter to healthcare providers informing them of the labeling change. The letter also requested that Lilly further study the safety of duloxetine in patients with mild-moderate hepatic dysfunction.  After discussions with the FDA in teleconferences on September 15 and October 3, 2005, a revised USPI was submitted to the Division on October 11, 2005 as a CBE sNDA labeling change. The "Dear Healthcare Provider" letter was posted to the Cymbalta website the following day and then distributed via mailings. The FDA approved the CBE on 06 June 2006.	16 August 2005 to 06 June 2006
Serotonin syndrome	United States	On 09 May 2006, the FDA requested class labeling for all selective serotonin reuptake inhibitors (SSRI)/serotonin norepinephrine reuptake inhibitors (SNRI) and triptans regarding drug-drug interactions of these compounds and the potential development of serotonin syndrome. Following discussions with the FDA, Lilly submitted a CBE sNDA labeling change adding the class labeling on 30 August 2006.	May to September, 2006 The FDA approved this CBE on 20 September 2006.
Orthostatic hypotension, Syncope, Blood pressure	United States		
Hepatic safety	South Africa	Medicines Control Council requested that Lilly provide a "Dear Healthcare Professional" letter to healthcare providers informing them of the hepatic effects of duloxetine based upon information collected from spontaneous reporting. Lilly prepared a "Dear Healthcare Professional" that was approved by Medicines Control Council and was distributed to health care providers in February 2007.	Request from Medicines Control Council - January 2007

Pediatric suicidality	European Union	All duloxetine products (Cymbalta/Xeristar/Ariclaim/Yentreve): A Referral procedure (Articles 18 and 31) was initiated in January 2005 by the CHMP with regards pediatric suicidality for all SSRIs and SNRIs. A class-labeling warning regarding suicide-related behaviors in children and adolescents was requested (CHMP Opinion of 22 April).	Completed September 2005 The European Commission approved this label change in September 2005
SUI and suicidality	European Union	Duloxetine in SUI (Yentreve/Ariclaim): The Marketed Authorization Holder (MAH) was requested to provide a written answer to a list of question including all data available for duloxetine regarding suicide attempt in the indication of SUI and its potential impact on the risk-benefit balance. After reviewing this data the CHMP requested the MAH submit an application to amend the label accordingly on 5 August 2005.	Completed November 2005 The European Commission approved this label change in November 2005
Hyponatremia, gastro- intestinal hemorrhage, Adverse drug reactions	European Union	All duloxetine products Following a request of the CHMP in its conclusion of the review of PSUR 01, a type II variation was submitted in August 2005 to update the SPC with: Section 4.4 - Precaution for patients at increased risks of hyponatremia, reported cases of GI hemorrhage. Section 4.8 -Adverse drug reactions.	Completed March 2006 The European Commission approved this label change in March 2006
Heart Rate, Blood pressure, Withdrawal symptoms, Akathisia, Psychomotor restlessness	European Union	All duloxetine products: Following a request of the CHMP in its conclusion of the review of PSUR 02, a type II variation was submitted in February 2006 to updated Section 4.4 of the SPC with: - A precaution for use in patients whose conditions could be compromised by an increased heart rate or by an increase in blood pressure, - A class labeling warning on withdrawal symptoms, - A class labeling warning on akathisia and psychomotor restlessness.	Completed May 2006 The European Commission approved this label change in May 2006.
Hypertension, Hypertensive crisis. Renal impairment, Akathisia/psychomotor restlessness, Hepatic failure	European Union	All duloxetine products: Following a request of the CHMP in its conclusion of the review of PSUR 03, a type II variation was submitted in August 2006 to update the SPC with: Section 4.3: - A contraindication for the initiation of treatment in patients with uncontrolled hypertension that could expose patients to a potential risk of hypertensive crisis A contraindication for patients with severe renal impairment (Yentreve and Ariclaim only). Section 4.4: - Updated class labeling wording on Akathisia/psychomotor restlessness Reported cases of clinically significant hypertension and hypertensive crisis. Section 4.8: - The adverse event hepatic failure.	Completed November 2006 The European Commission approved this label change in November 2006.

Suicidality	United States	The FDA issued a press release and posted information on the FDA website, describing the revised class labeling language on suicidality and antidepressant use required for all antidepressants. The FDA sent manufacturers of all antidepressants revised class labeling for the use of antidepressants (including duloxetine) and the risk of suicidality for patients aged 18 to 24 years. The new class labeling also states that there is no demonstrated risk for patients beyond 24 years and that there is a decrease in risk of suicidality for patients greater than 65 years. This information was revised in both the boxed warning at the beginning of labeling as well as in the "Warnings" section of the labeling. The Medication Guide was also updated to contain this information.  Manufacturers were given 30 days to implement this new labeling. Lilly	
Suicide related events, muscle spasm	European Union	All duloxetine products: Following a request of the CHMP in its conclusion of the review of PSUR 04, a type II variation was submitted in March 2007 to update the SPC with: Section 4.4: -Update of warning on suicide with increased risk of suicide-related events for patients having pre-existing suicidal ideation or young adults. Section 4.8: - The adverse event Muscle spasm This procedure is on-going.	Ongoing

Abbreviations: AEs = adverse events; ALT = alanine transaminase; CHMP = Committee for Medicinal Products for Human Use; DPN = diabetic peripheral neuropathy; DPNP = diabetic peripheral neuropathic pain; FDA = Food and Drug Administration; GI = gastrointestinal; HbA1c= glycosylated hemoglobin; Lilly = Eli Lilly and Company; MDD = major depressive disorder; PSUR = Periodic Safety Update Report; sNDA = Supplemental New Drug Application; SPC = Summary of Product Characteristics; US = United States; USPI = United States Package Insert. Applicant's Table, Pages 35-38, Post-marketing Report.

Table 7.20 Common Adverse Events Treatment-Emergent Adverse Events by Assigned Dose By System Organ Class and by High Level Group Term All Randomized Patients in Fibromyalgia Placebo-Controlled Studies at 3 Months (HMBO, HMCA, HMCJ & HMEF)					
EVENT (Patients with ≥ 1 TEAE)	PLACEBO (N=535) n(%)	DLX 20 QD (N=79) n(%)	DLX 60 QD (N=430) n(%)	DLX 60 BID (N=220) n(%)	DLX 120 QD (N=147) n(%)
ALL BODY SYSTEMS COMBINED	394(73.64%)	65(82.28%)	367(85.35%)	191(86.82%)	130(88.44%)
BLOOD AND LYMPHATIC SYSTEM DISORDERS	2(0.37%)	1(1.27%)	0(0.00%)	1(0.45%)	1(0.68%)
Spleen, lymphatic and reticuloendothelial system disorders	1(0.19%)	1(1.27%)	0(0.00%)	1(0.45%)	0(0.00%)
Anaemias nonhaemolytic and marrow depression	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Red blood cell disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
CARDIAC DISORDERS	12(2.24%)	2(2.53%)	11(2.56%)	5(2.27%)	6(4.08%)
Cardiac disorder signs and symptoms	7(1.31%)	2(2.53%)	8(1.86%)	5(2.27%)	3(2.04%)
Cardiac arrhythmias	4(0.75%)	0(0.00%)	3(0.70%)	0(0.00%)	1(0.68%)
Cardiac valve disorders	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Coronary artery disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Heart failures	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
CONGENITAL, FAMILIAL AND GENETIC DISORDERS	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Neurological disorders congenital	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
EAR AND LABYRINTH DISORDERS  Inner ear and VIIIth cranial nerve disorders	11(2.06%)	0(0.00%)	14(3.26%)	4(1.82%) 1(0.45%)	3(2.04%)
	4(0.75%) 5(0.93%)	0(0.00%)	11(2.56%) 3(0.70%)	3(1.36%)	2(1.36%) 1(0.68%)
Aural disorders NEC Hearing disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Middle ear disorders (excl congenital)	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
ENDOCRINE DISORDERS	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	1(0.68%)
Adrenal gland disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Parathyroid gland disorders	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Thyroid gland disorders	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
EYE DISORDERS	16(2.99%)	5(6.33%)	18(4.19%)	10(4.55%)	11(7.48%)
Vision disorders	3(0.56%)	2(2.53%)	8(1.86%)	3(1.36%)	4(2.72%)
Eye disorders NEC	5(0.93%)	1(1.27%)	4(0.93%)	2(0.91%)	2(1.36%)
Ocular infections, irritations and inflammation	6(1.12%)	1(1.27%)	2(0.47%)	0(0.00%)	3(2.04%)
Ocular neuromuscular disorders	1(0.19%)	1(1.27%)	2(0.47%)	4(1.82%)	0(0.00%)
Ocular sensory symptoms NEC	1(0.19%)	1(1.27%)	1(0.23%)	1(0.45%)	0(0.00%)
Ocular structural change, deposit and degeneration NEC	0(0.00%)	0(0.00%)	2(0.47%)	0(0.00%)	1(0.68%)
Ocular hemorrhages and vascular disorders NEC	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
GASTROINTESTINAL DISORDERS	147(27.48%)	34(43.04%)	227(52.79%)	115(52.27%)	78(53.06%)
Gastrointestinal signs and symptoms 2007	87(16.26%)	24(30/38%)	148(34/42%);	70(31.82%)	~51(34.69%).
Gastromfestinal mortlity and defecation conditions	61(11.40%)	12(15.19%)	96(22:33%).	-34(15/45%)	#86(24,49%)
Saliyary gland conditions	26(4.86%)	#7(8.86%)*°	72(16.74%)	-43(19.55%)	27(1837%)
Dental and gingival conditions	4(0.75%)	0(0.00%)	6(1.40%)	2(0.91%)	1(0.68%)
Oral soft tissue conditions	1(0.19%)	1(1.27%)	3(0.70%)	3(1.36%)	0(0.00%)
Gastrointestinal inflammatory conditions	4(0.75%)	1(1.27%)	1(0.23%)	0(0.00%)	0(0.00%)
Gastrointestinal conditions NEC	1(0.19%)	1(1.27%)	1(0.23%)	1(0.45%)	1(0.68%)
Gastrointestinal vascular conditions	1(0.19%)	1(1.27%)	1(0.23%)	1(0.45%)	1(0.68%)
Tongue conditions	2(0.37%)	0(0.00%)	1(0.23%)	1(0.45%)	0(0.00%)
Anal and rectal conditions NEC	0(0.00%)	0(0.00%)	1(0.23%)	1(0.45%)	1(0.68%)
Gastrointestinal hemorrhages NEC	1(0.19%)	0(0.00%)	0(0.00%)	1(0.45%)	1(0.68%)
Abdominal hernias and other abdominal wall conditions	0(0.00%)	0(0.00%)	2(0.47%)	0(0.00%)	0(0.00%)
Gastrointestinal stenosis and obstruction	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
GENERAL DISORDERS AND ADMINISTRATION SITE				<del> </del>	····
CONDITIONS	101(18.88%)	17(21.52%)	98(22.79%)	72(32.73%)	33(22.45%)
General system disorders NEC	90(16.82%)	15(18.99%)	82(19.07%)	63(28.64%)	27(18.37%)
Body temperature conditions	10(1.87%)	0(0.00%)	14(3.26%)	7(3.18%)	7(4.76%)
Therapeutic and nontherapeutic effects (excl toxicity)	5(0.93%)	1(1.27%)	9(2.09%)	8(3.64%)	0(0.00%)
Administration site reactions	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Tissue disorders NEC	0(0.00%)	1(1.27%)	0(0.00%)	0(0.00%)	0(0.00%)
HEPATOBILIARY DISORDERS	2(0.37%)	1(1.27%)	0(0.00%)	0(0.00%)	0(0.00%)
Hepatobiliary neoplasms	1(0.19%)	1(1.27%)	0(0.00%)	0(0.00%)	0(0.00%)

Gallbladder disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
IMMUNE SYSTEM DISORDERS	12(2.24%)	1(1.27%)	6(1.40%)	8(3.64%)	4(2.72%)
Allergic conditions	12(2.24%)	1(1.27%)	6(1.40%)	8(3.64%)	4(2.72%)
INFECTIONS AND INFESTATIONS	142(26.54%)	21(26.58%)	96(22.33%)	41(18.64%)	38(25.85%)
Infections – pathogen class unspecified	110(20.56%)	15(18.99%)	75(17.44%)	34(15.45%)	34(23.13%)
	25(4.67%)	6(7.59%)	21(4.88%)	9(4.09%)	5(3.40%)
Viral infectious disorders	8(1.50%)	2(2.53%)	7(1.63%)	0(0.00%)	2(1.36%)
Bacterial infectious disorders		0(0.00%)	3(0.70%)	3(1.36%)	0(0.00%)
Fungal infectious disorders	7(1.31%)				
Ectoparasitic disorders	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
INJURY, POISONING AND PROCEDURAL COMPLICATIONS	26(4.86%)	8(10.13%)	37(8.60%)	9(4.09%)	14(9.52%)
Injuries	19(3.55%)	5(6.33%)	26(6.05%)	7(3.18%)	7(4.76%)
Bone and joint injuries	7(1.31%)	2(2.53%)	10(2.33%)	2(0.91%)	5(3.40%)
Injuries by physical agents	1(0.19%)	2(2.53%)	3(0.70%)	0(0.00%)	0(0.00%)
Procedural and device related injuries and complications NEC	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	2(1.36%)
Chemical injury and poisoning	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
INVESTIGATIONS	15(2.80%)	1(1.27%)	24(5.58%)	13(5.91%)	16(10.88%)
Physical examination topics	2(0.37%)	1(1.27%)	6(1.40%)	7(3.18%)	9(6.12%)
Cardiac and vascular investigations (excl enzyme tests)	8(1.50%)	0(0.00%)	8(1.86%)	3(1.36%)	4(2.72%)
Hepatobiliary investigations	3(0.56%)	=0(0:00%)=	7 6(140%)	1(0.45%)	2(136%)
Enzyme investigations NEC	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Gastrointestinal investigations	0(0.00%)	0(0.00%)	1(0.23%)	1(0.45%)	0(0.00%)
Investigations, imaging and histopathology procedures NEC	0(0.00%)	0(0.00%)	0(0.00%)	1(0.45%)	1(0.68%)
Metabolic, nutritional and blood gas investigations	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Renal and urinary tract investigations and urinalyses	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Hematology investigations (incl blood groups)	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Lipid analyses	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Musculoskeletal and soft tissue investigations (excl enzyme tests)	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Reproductive organ and breast investigations (excl hormone analyses)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
Skin investigations	0(0.00%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
METABOLISM AND NUTRITION DISORDERS	28(5.23%)	9(11.39%)	50(11.63%)	30(13.64%)	22(14.97%)
	20(3.74%)	27(8.86%) -	\$44(10.23%) s	27(12:27%)	319(12.93%)
Appetite and general nutritional disorders  Electrolyte and fluid balance conditions	3(0.56%)	1(1.27%)	1(0.23%)	1(0.45%)	1(0.68%)
	4(0.75%)	0(0.00%)	2(0.47%)	1(0.45%)	0(0.00%)
Lipid metabolism disorders	1(0.19%)	1(1.27%)	2(0.47%)	0(0.00%)	2(1.36%)
Glucose metabolism disorders (incl diabetes mellitus)	<del> </del>				0(0.00%)
Acid-base disorders	0(0.00%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
Protein and amino acid metabolism disorders NEC	0(0.00%)	1(1.27%)	0(0.00%)	0(0.00%)	
Purine and pyrimidine metabolism disorders NEC  MUSCULOSKELETAL AND CONNECTIVE TISSUE	0(0.00%)	0(0.00%)	1(0.23%) 88(20.47%)	0(0.00%) 39(17.73%)	0(0.00%) 20(13.61%)
DISORDERS	,				
Musculoskeletal and connective tissue disorders NEC	62(11.59%)	9(11.39%)	36(8.37%)	23(10.45%)	6(4.08%)
Muscle disorders	29(5.42%)	6(7.59%)	32(7.44%)	17(7.73%)	13(8.84%)
Joint disorders	31(5.79%)	4(5.06%)	26(6.05%)	6(2.73%)	3(2.04%)
Bone disorders (excl congenital and fractures)	11(2.06%)	1(1.27%)	2(0.47%)	1(0.45%)	1(0.68%)
Tendon, ligament and cartilage disorders	7(1.31%)	1(1.27%)	3(0.70%)	0(0.00%)	0(0.00%)
Musculoskeletal and connective tissue deformities (inclintervertebral disc disorders)	2(0.37%)	0(0.00%)	2(0.47%)	2(0.91%)	0(0.00%)
Synovial and bursal dirorders	3(0.56%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
NEOPLASMS BENIGN, MALIGNANT AND USPECIFIED		· · · · · · · · · · · · · · · · · · ·		·····	· · · · · · · · · · · · · · · · · · ·
(INCL CYSTS AND POLYPS)	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Reproductive neoplasms female benign	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Skin neoplasms malignant and unspecified	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
NERVOUS SYSTEM DISORDERS	L 132/32 000/\	26(32.91%)	173(40.23%)	96(43.64%)	69(46.94%)
	123(22.99%)				
Neurological disorders NEC	62(11.59%)	15(18.99%)	89(20.70%)	57(25.91%)	45(30.61%)
Headaches	<del></del>		89(20.70%) 88(20.47%)	50(22.73%)	29(19.73%)
	62(11.59%)	15(18.99%)	<del></del>		

Close distriction on (incl. subtance)	1/0.750/)	1/1.270/	((1.4007)	2/1.2/0/)	0/0.000/
Sleep disturbances (incl subtypes)   Neuromuscular disorders	4(0.75%) 1(0.19%)	1(1.27%)	6(1.40%)	3(1.36%)	0(0.00%)
Peripheral neuropathies	4(0.75%)	0(0.00%)	2(0.47%)	1(0.45%)	1(0.68%)
Spinal cord and nerve root disorders	1(0.19%)	0(0.00%)	··`		1(0.68%)
Cranial nerve disorders (excl neoplasms)	<u> </u>	0(0.00%)	1(0.23%)	2(0.91%)	0(0.00%)
PSYCHIATRIC DISORDERS	0(0.00%)	<del></del>	2(0.47%)	0(0.00%)	0(0.00%)
	119(22.24%)	12(15.19%)	100(23.26%)	86(39.09%)	47(31.97%)
Sleep disorders and disturbances	55(10:28%)	* 6(7.59%) =	58(13.49%)	64(29.09%)	29(19.73%)
Anxiety disorders and symptoms  Depressed mood disorders and disturbances	29(5.42%)	2(2.53%)	23(5.35%)	20(9.09%)	9(6.12%)
	32(5.98%)	1(1.27%)	11(2.56%)	8(3.64%)	5(3.40%)
Sexual dysfunctions, disturbances and gender identity disorders	3(0.56%)	4(5.06%)	12(2.79%)	7(3.18%)	12(8.16%)
Changes in physical activity	3(0.56%)	3(3.80%)	10(2.33%)	3(1.36%)	7(4.76%)
Mood disorders and disturbances NEC	11(2.06%)	1(1.27%)	7(1.63%)	2(0.91%)	2(1.36%)
Disturbances in thinking and perception	3(0.56%)	1(1.27%)	3(0.70%)	1(0.45%)	0(0.00%)
Deliria (incl confusion)	2(0.37%)	0(0.00%)	2(0.47%)	1(0.45%)	0(0.00%)
Personality disorders and disturbances in behavior	2(0.37%)	1(1.27%)	0(0.00%)	0(0.00%)	0(0.00%)
Suicidal and self-injurious behaviors NEC	2(0.37%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Impulse control disorders NEC	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
Communication disorders and disturbances	0(0.00%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
Dissociative disorders	0(0.00%)	0(0:00%)	1(0.23%)	0(0.00%)	0(0.00%)
Schizophrenia and other psychotic disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Somatoform and factitious disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
RENAL AND URINARY DISORDERS	16(2.99%)	4(5.06%)	21(4.88%)	5(2.27%)	11(7.48%)
Urinary tract signs and symptoms	13(2.43%)	3(3.80%)	20(4.65%)	5(2.27%)	9(6.12%)
Renal disorders (excl nephrolithiasis)	2(0.37%)	1(1.27%)	1(0.23%)	0(0.00%)	0(0.00%)
Bladder and bladder neck disorders (excl calculi)	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Urolithiasis	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	2(1.36%)
REPRODUCTIVE SYSTEM AND BREAST DISORDERS	22(4.11%)	1(1.27%)	15(3.49%)	8(3.64%)	3(2.04%)
Menstrual cycle and uterine bleeding	7(1.31%)	0(0.00%)	10(2.33%)	3(1.36%)	1(0.68%)
Breast disorders	4(0.75%)	0(0.00%)	4(0.93%)	1(0.45%)	0(0.00%)
Sexual function and fertility disorders	2(0.37%)	I(1.27%)	1(0.23%)	3(1.36%)	1(0.68%)
Vulvovaginal disorders (excl infections and inflammations)	3(0.56%)	0(0.00%)	1(0.23%)	0(0.00%)	1(0.68%)
Uterine, pelvic and broad ligament disorders	2(0.37%)	0(0.00%)	1(0.23%)	1(0.45%)	0(0.00%)
Menopause and related conditions	2(0.37%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Ovarian and fallopian tube disorders	2(0.37%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Reproductive tract disorders NEC	2(0.37%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Male reproductive tract infections and inflammations	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS	40(7.48%)	11(13.92%)	37(8.60%)	21(9.55%)	18(12.24%)
Respiratory disorders NEC	29(5.42%)	8(10.13%)	28(6.51%)	11(5.00%)	16(10.88%)
Upper respiratory tract disorders (excl infections)	11(2.06%)	5(6.33%)	10(2.33%)	9(4.09%)	4(2.72%)
Bronchial disorders (excl neoplasms)	3(0.56%)	1(1.27%)	3(0.70%)	2(0.91%)	2(1.36%)
Lower respiratory tract disorders (excl obstruction and infection)	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Pleural disorders	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
SKIN AND SUBCUTANEOUS TISSUE DISORDERS	47(8.79%)	13(16.46%)	62(14.42%)	24(10.91%)	27(18.37%)
Skin appendage conditions	18(3.36%)	6(7.59%)	39(9.07%)	14(6.36%)	18(12.24%)
Epidermal and dermal conditions	25(4.67%)	6(7.59%)	22(5.12%)	8(3.64%)	9(6.12%)
Angioedema and urticaria	3(0.56%)	2(2.53%)	1(0.23%)	0(0.00%)	1(0.68%)
Skin vascular abnormalities	1(0.19%)	0(0.00%)	2(0.47%)	1(0.45%)	1(0.68%)
Cutaneous neoplasms benign	1(0.19%)	0(0.00%)	0(0.00%)	1(0.45%)	0(0.00%)
Skin and subcutaneous tissue disorders NEC	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
SOCIAL CIRCUMSTANCES	0(0.00%)	0(0.00%)	2(0.47%)	0(0.00%)	0(0.00%)
Age related factors	0(0.00%)	0(0.00%)	2(0.47%)	0(0.00%)	0(0.00%)
SURGICAL AND MEDICAL PROCEDURES	10(1.87%)	2(2.53%)	11(2.56%)	2(0.91%)	3(2.04%)
Head and neck therapeutic procedures	6(1.12%)	1(1.27%)	4(0.93%)	2(0.91%)	2(1.36%)
Bone and joint therapeutic procedures	0(0.00%)	0(0.00%)	3(0.70%)	0(0.00%)	0(0.00%)
Obstetric and gynecological therapeutic procedures					
Dye therapeutic procedures	1(0.19%)	1(1.27%)	1(0.23%)	0(0.00%)	0(0.00%)
Skin and subcutaneous tissue therapeutic procedures	2(0.37%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Skin and subcutaneous fissue therapeutic procedures	0(0.00%)	0(0.00%)	2(0.47%)	0(0.00%)	0(0.00%)

Breast therapeutic procedures	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Gastrointestinal therapeutic procedures	1(0.19%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
Therapeutic procedures and supportive care NEC	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(0.68%)
VASCULAR DISORDERS	19(3.55%)	2(2.53%)	24(5.58%)	12(5.45%)	8(5.44%)
Vascular disorders NEC	12(2.24%)	2(2.53%)	17(3.95%)	9(4.09%)	6(4.08%)
Vascular hypertensive disorders	6(1.12%)	0(0.00%)	6(1.40%)	3(1.36%)	2(1.36%)
Decreased and nonspecific blood pressure disorders and shock	1(0.19%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Arteriosclerosis, stenosis, vascular insufficiency and necrosis	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)
Vascular hemorrhagic disorders	0(0.00%)	0(0.00%)	1(0.23%)	0(0.00%)	0(0.00%)

N = Number of randomized patients, n = Number of patients with treatment-emergent adverse event For HMCJ and HMEF - visit 8 is last visit of comparator period.

Applicant's Table, Regulatory Response 4-March-2008 - Adverse Events by Dose, Pages 94-104.

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Ricardo Dent 4/25/2008 04:45:37 PM MEDICAL OFFICER

Celia Winchell 4/25/2008 04:47:42 PM MEDICAL OFFICER I concur with Dr. Dent's conclusions. See my memo.