5.2. Tabular Listing of All Clinical Studies

Cymbalta (duloxetine hydrochloride) Major Depressive Disorder

Date approved by Lilly: 07 June 2005

Lilly Research Laboratories Eli Lilly and Company Indianapolis, Indiana, USA

Abbreviations for Table of Studies

2DCT = 2-Digit Cancellation Test

5-HT = serotonin

AE = adverse event

AUA = American Urological Association Symptom Index

AUC = area under the curve

BMI = body mass index

BUS = Behavioral Urge Score

BID = twice daily

BPI = Brief Pain Inventory

CGI-Improvement = Clinical Global Impressions of Improvement

CGI-Severity = Clinical Global Impressions of Severity

CL = plasma clearance

CL/F = apparent plasma clearance

Cmax = maximum plasma concentration

CMG = cystometrogram

DAI = detrusor activity index

DSM-III-R = Diagnostic and Statistical Manual of Mental Disorders, Third Edition - RevisedTM

DSM-IV = Diagnostic and Statistical Manual of Mental Disorders, Fourth EditionTM

DTA WSS = Daily Telephone Assessment Weighted Symptom Score

ECG = electrocardiogram

F = female

HAMA = Hamilton Anxiety Rating Scale

 $HAMD_{17} = 17$ -item Hamilton Depression Rating Scale

IEF = incontinence episode frequency

I-QOL = Incontinence Quality of Life Questionnaire

IV = intravenous

LNST = Letter-Number Sequencing Test

M = male

MADRS = Montgomery-Asberg Depression Rating Scale

MAT = mean absorption time

MDD = major depressive disorder

MINI = Mini International Neuropsychiatric; Interview

MNSI = Michigan Neuropathy Screening Instrument

MRT = mean residence

N = number of subjects

PFMT = pelvic floor muscle training

PGI-Improvent = Patient's Global Impressions of Improvement

PK = pharmacokinetic

PO = orally

QD = once daily

QIDS-SR16 = Quick Inventory of Depressive Symptomatology – Self Report

SDST = Symbol Digit Substitution Test

SPT = stress pad test

SSRI = selective serotonin reuptake inhibitor

SUI = stress urinary incontinence

TEAE = treatment-emergent adverse event

Tmax = time to maximum concentration

UI = urinary incontinence

UUI = urge urinary incontinence

VLPP = Valsalva Leak Point Pressure

VLRT = Verbal Learning and Recall Test

Table 5.2.

Tabular Listing of Clinical Studies

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-	Safety and	February 1999	Multicenter,	Duloxetine	N = 173	Outpatients	8 weeks	HAMD ₁₇
HMAQ	Efficacy	Complete	parallel group,	capsules: 10 mg	(M = 62 F =	aged 18-65		Total
(Group A);		May 2000	double-blind,	and 20 mg	111)	years with		Score
included with			randomized	Fluoxetine		DSM-IV-		
original			placebo-controlled	capsules: 20 mg	41.4 years	defined MDD		
submission;			study with blinded	Placebo capsules	(18.7-65)	(current		11
Complete;			placebo lead-in	1		episode		
Full			and lead-out	Duloxetine:		duration ≥2		
				20-60 mg		weeks); CGI-		
				PO BID		Severity		
				Fluoxetine: 20		Score ≥4;		
				mg PO QD		clinician-rated		
				Placebo		HAMD ₁₇ total		
						score ≥15 at		
						Visits 1 and 2		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status;	OUtrethne	Enrollment Start Status and	Design;	Test and Control Drug(s) Dose, Route,	# Patients (M/F) Mean Age	Diagnosis or Inclusion	Treatment	Primary
Report Type	Objective(s)	End	Control Type	and Regimen	(Range) years	Criteria	Duration	Endpoint
F1J-MC-	Safety and	March 1999	Multicenter,	Duloxetine	N = 194	Outpatients	8 weeks	HAMD ₁₇
HMAQ	Efficacy	Complete	parallel group,	capsules: 10 mg,	(M = 65)	aged 18-65		Total
(Group B);		January 2001	double-blind,	20 mg	F = 129	years with		Score
original			randomized	Fluoxetine		DSM-IV-		
submission;			placebo-controlled	capsules: 20 mg	40.4 years	defined MDD		
Complete;			study with blinded	Placebo capsules	(18.9-64.4)	(current		
Full			placebo lead-in			episode		
			and lead-out	Duloxetine:		duration ≥2		
				20-60 mg		weeks); CGI-		
				PO BID		Severity		
				Fluoxetine: 20		score ≥4;		
				mg PO QD		clinician-rated		
				Placebo		HAMD ₁₇ total		
				A-		score ≥15 at		
						Visits 1 and 2		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-	Safety and	March 2000	Multicenter,	Duloxetine	N = 354	Outpatients	8 weeks	HAMD ₁₇
HMAT	Efficacy	Complete	parallel, double-	capsules: 20 mg	M = 136;	≥18 years		Total
(Group A);		April 2001	blind, randomized,	Paroxetine	F = 218)	with DSM-		Score
original			placebo- and active	capsules: 20 mg		IV-defined		
submission;			comparator-	Placebo capsules	43.7 years	MDD; CGI-		
Complete;			controlled study		(18.0-82.2)	Severity		
Full			with blinded	Duloxetine: 20		score ≥4 at		
			placebo lead-in	mg or 40 mg		Visits 1 and 2;		
			and placebo lead-	PO BID		clinician-rated		
			out	Paroxetine: 20		HAMD ₁₇ total		
				mg PO QD		score ≥15 at		
				Placebo	-	Visits 1 and 2		
F1J-MC-	Safety and	March 2000	Multicenter,	Duloxetine	N = 353	Outpatients	8 weeks	HAMD ₁₇
HMAT	Efficacy	Complete	parallel, double-	capsules: 20 mg	(M = 136;	≥18 years		Total
(Group B);		February 2001	blind, randomized,	Paroxetine	F =217)	with DSM-		Score
original			placebo- and active	capsules: 20 mg		IV-defined		
submission;			comparator-	Placebo capsules	40.5 years	MDD; CGI-		
Complete;			controlled study		(18.2-78.2)	Severity		
Full			with blinded	Duloxetine: 20		score ≥4 at		
			placebo lead-in	mg or 40 mg		Visits 1 and 2;		
			and placebo lead-	PO BID		clinician-rated		
			out	Paroxetine: 20		HAMD ₁₇ total		
				mg PO QD		score ≥15 at		
				Placebo		Visits 1 and 2		

Table 5.2. Tabul

Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
FlJ-MC-	Safety and	November	Multicenter,	Duloxetine	N = 367	Outpatients	34 weeks	HAMD ₁₇
HMAY	Efficacy	2000	parallel, double-	capsules: 20 mg	(M = 100;	≥18 years with		Total
(Group A);		Complete	blind, randomized,	Paroxetine	F =267)	DSM-IV-		Score
original		July 2002	placebo- and	capsules: 20 mg		defined MDD;		
submission;			active comparator-	Placebo capsules	43.4 years	CGI-Severity		
Complete;			controlled study		(19.3-74.4)	score ≥4 at		
Full			with blinded	Duloxetine:		Visits 1 and 2;		
1			placebo lead-in	40 or 60 mg		clinician-rated		
			and placebo lead	PO BID	1	HAMD ₁₇ total		
			out	Paroxetine: 20		score ≥15 at		
				mg PO QD		Visits 1 and 2		
				Placebo				
F1J-MC-	Safety and	October 2000	Multicenter,	Duloxetine	N = 392	Outpatients	34 weeks	HAMD ₁₇
HMAY	Efficacy	Complete	parallel, double-	capsules: 20 mg	(M = 119;	≥18 years with		Total
(Group B);		July 2002	blind, randomized,	Paroxetine	F = 273)	DSM-IV-		Score
original			placebo- and	capsules: 20 mg		defined MDD;		
submission;			active comparator-	Placebo capsules	45.2 years	CGI-Severity		
Complete;			controlled study		(20.1-76.7)	score ≥4 at		
Full		18	with blinded	Duloxetine:		Visits 1 and 2;		
			placebo lead-in	.40 or 60 mg		clinician-rated		
			and placebo lead	PO BID		HAMD ₁₇ total		
			out	Paroxetine: 20		score ≥15 at		
		T		mg PO QD		Visits 1 and 2		
				Placebo				

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-	Safety and	November	Multicenter,	Duloxetine	N = 245	Patients ≥ 18	9 weeks	HAMD ₁₇
HMBH (Group A); original submission; Complete; Full	Efficacy	2000 Complete May 2001	double-blind, placebo- controlled, parallel-group study	capsules: 20 mg Placebo capsules Duloxetine: 60 mg PO QD Placebo	(M = 82; F = 163) 42.4 years (18.6-77.7)	years with DSM-IV- defined MDD; CGI-Severity score ≥4 at Visits 1 and 2; clinician-rated HAMD ₁₇ total score ≥15 at Visits 1 and 2		Total Score
F1J-MC- HMBH (Group B); original submission; Complete; Full	Safety and Efficacy	November 2000 Complete May 2001	Multicenter, double-blind, placebo- controlled, parallel-group study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 60 mg PO QD Placebo	N = 267 (M = 83; F = 184) 40.9 years (19.2-82.9)	Patients ≥ 18 years with DSM-IV- defined MDD; CGI-Severity score ≥ 4 at Visits 1 and 2; clinician-rated HAMD ₁₇ total score ≥15 at Visits 1 and 2	9 weeks	HAMD ₁₇ Total Score

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type		Enrollment Start Status and End	Design; Control Type		Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- HMBC; 5.3.5.1.3; Complete; Full	Safety and Efficacy	March 2002 Complete July 2003	randomized, double-blind, placebo- controlled, parallel group study	Acute Therapy: Duloxetine: 60 mg PO QD Continuation Phase: Duloxetine: 60 mg PO QD Rescue Phase: Duloxetine:	(enrolled) M = 150 If = 383 N = 278	Outpatients ≥ 18 years with DSM-IV- defined MDD; CGI- S score ≥4 at Visits 1 and 2 and HAMD ₁₇ total score ≥18 at Visits 1 and 2.	38 weeks	Time to relapse during continuation phase using the log rank test.
F1J-MC- HMAU; original submission; Complete; Abbreviated	Safety and Efficacy	February 2000 Complete Oct 2001	Multicenter, long-term, open-label	Duloxetine capsules: 20 mg Duloxetine: 40 – 60 mg PO BID	(M = 351; F = 928) 44.4 years	Outpatients ≥ 18 years of age with DSM-IV-defined MDD; CGI-Severity score ≥3 at Visits 1 and 2	52 weeks	Safety: Collection and reporting of discontinuation rates, TEAEs, vita signs, ECGs and laboratory analyses.

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- HMAG; original submission; Complete; Abbreviated	Safety and Efficacy	February 1993 Complete November 1994	Single Center, double- blind, stratified, randomized, parallel design with an "enriched" population	Duloxetine tablets: 10 mg Placebo tablets Duloxetine: 20 mg PO QD Placebo	N = 105 (M = 48; F = 57) 40.4 years (19.7-64.7)	Outpatients aged ≥ 18 – 72 with DSM-III-R-defined unipolar MDD; for at least 1 month. HAMD ₁₇ total score of \geq 17 at Visit 1.	10 weeks	HAMD ₁₇ , MADRS Total Scores
F1J-MC- HMAH; original submission; Complete; Abbreviated	Safety and Efficacy	November 1993 Complete September 1995	Multicenter, double- blind, placebo- controlled, randomized, parallel design, with placebo lead-in	Duloxetine tablets: 10 mg, 20 mg Placebo tablets Duloxetine: 20 or 30 mg PO QD Placebo	N = 177 (M = 75; F = 102) 36.5 years (19.1-68.3)	Outpatients aged ≥ 18 – 72 with DSM-III-R-defined MDD. HAMD ₁₇ total score of ≥ 17 at Visit 1.	54 weeks	HAMD ₁₇

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Inclusion Criteria	Treatment Duration	Primary Endpoint
I:1J-MC-HMAI; briginal submission; Complete; Abbreviated		December 1993 Complete January 1996	and active comparator- controlled study	Duloxetine: 5 mg, 10 mg, 20 mg tablets Clomipramine capsules: 25 mg Clomipramine capsules: 50 mg Placebo capsules Duloxetine: 5, 10, or 20 mg PO QD Clomipramine: 150 mg PO BID Placebo	N = 648 (M = 212; F = 436) 42.4 years (17.8-84.1)	Inpatients or Outpatients ≥ 18 years with DSM- III-R-defined criteria for unipolar MDD. HAMD ₁₇ total score of ≥18.	55 weeks	HAMD ₁₇ Total Scores
F1J-EW-E001; original submission; Complete; Abbreviated		March 1993 Complete October 1993	Multicenter, single arm, noncontrolled	Duloxetine:20 mg tablets Duloxetine: 20 mg PO QD	N = 93 (M = 31; F = 62) 38.0 years (18.4-63.8)	Outpatients ≥ 18 – 65 years with DSM-III-R- defined unipolar MDD	6 weeks	Safety: Discontinuation rates, TEAEs, laboratory analyses, vital signs and ECGs.

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-US-HMBY;	Safety	Acute phase: June	Multicenter,	Duloxetine			7 weeks	Safety:
not included (safety study on		2002 Complete	double-blind, dose escalation	capsules: 30 mg Placebo capsules	≥18 years	years with DSM-IV- defined MDD;		Discontinuation rates, TEAEs,
lose escalation);		October 2002	study			HAMD ₁₇ total score		laboratory
Complete;				Duloxetine:		≥15 at Visits 1 and 2		analyses, vital
Abbreviated				60-120 mg PO				signs and ECGs.
				QD Placebo				
F1J-US-HMBZ;	Safety and	Acute phase:	Multicenter, open-	Duloxetine	N = 177 (Acute	Outpatients ≥18	12 weeks	Compare
Not included (no	Efficacy	November 2002	label, flexible dose	capsules: 30 mg	phase)	years with DSM-IV		stabilized
control);		Complete	study			criteria for major		duloxetine dose
Completed;		February 2004		Duloxetine: 60-	≥18 years	depression.		in treatment
Abbreviated				120 mg PO QD		CGI-Severity score		naï ve patients
						≥4 at Visits 1 and 2;		and SSRI switch
				1		clinician-rated		patients.
						HAMD ₁₇ total score		
						≥15 at Visits 1 and 2		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study								
Identifier;				Test and				
		E 11 4		. 72	# ID 4° 4 (B.4.4E)	D.		
Location;		Enrollment	D:		# Patients (M/F)	_	Tr. 4	D .
Status;	Obj4!(-)	Start	Design;	Dose, Route,	Mean Age	Inclusion	Treatment	Primary
Report Type	Objective(s)	Status and End	Control Type	and Regimen	(Range) years	Criteria	Duration	Endpoint
	Safety and Efficacy		Multicenter,		Randomized:	Outpatients ≥ 65	10 Weeks	Composite
HMBV;		Complete	ľ	capsules: 30 mg		years with DSM-		cognitive score
5.3.5.1.2;		July 2004	blind, placebo-	Placebo capsules		IV criteria for		derived from the
Complete;			controlled study			MDD. $HAMD_{17}$		VLRT, SDST,
Full				Duloxetine:		total score ≥18		2DCT, and the
				60 mg PO QD	-	at Visits 1 and 2.		LNST.
				Placebo	(65.0 - 89.8)	MMSE score of		
				4 5		≥20 with or		
						without mild		
				19		dementia.		
F1J-MC-	Safety and Efficacy	July 2003	Multicenter,	Duloxetine: 30	Planned:	Outpatients ≥ 18	12 weeks	Global
HMCQ;		Complete	randomized,	mg capsules	N = 480	years with DSM-		benefit-risk
Not included (no		March 2004	double-blind,	Venlafaxine:		IV criteria for		assessment
placebo control);			parallel study.	75 mg capsules	Randomized:	MDD and		
Complete					N = 504	confirmed by the		
Abbreviated				Duloxetine: 60		MINI.		
				to 120 mg/day	42	HAMD ₁₇ total		
				8 9		score ≥18 at		
				Venlafaxine	/	Visit 1.		
				extended release:				
				75 to 225 mg/day				
				PO 225 mg/day				
				Placebo				

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-HMBU;	Safety and	August 2003	Multicenter,	Duloxetine: 30 mg	Planned:		12 weeks (with	Global
Not included (no	Efficacy	Complete	randomized,	capsules	1		possible	benefit-risk
placebo control);	Efficacy		double-blind,	Venlafaxine: 75 mg	1		3-week taper	assessment
Complete;	1	144 200 T	parallel study.	capsules	Randomized:		period)	assessment
Abbreviated			paraner stady.	capoules		confirmed by the	(Criod)	
T TOOLO VIALOG				Duloxetine: 60 to		MINI. HAMD ₁₇		
	1			120 mg/day PO		total score ≥18 at		
				Venlafaxine extended	(19 - 82)	Visit 1.		
				release: 150 to	years)			
				225 mg/day PO	ľ			
				Placebo: PO				
F1J-MC- HMCN; Not included: compassionate use;	Safety	July 2003 Ongoing	Multicenter, open-label, compassionate use study	Duloxetine: 30 mg capsules Duloxetine: 30 mg to 120 mg/day PO	No limitations on sample size	Open-label duloxetine compassionate use study for patients who	Until duloxetine is approved for marketing in the country	Assess the safety of duloxetine, summarize and report
Ongoing; Abbreviated		<u>**</u>		en e		have previously completed a neuroscience clinical trial in countries where it is not currently marketed.	where this trial is taking place, or the Sponsor terminates the study.	spontaneous adverse events.

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- HMBO; Section 5.3.5.1.4; Complete; Full	Safety and Efficacy	July 2001 Complete March 2002	l'arallel, double-	Duloxetine capsules: 20 mg l'lacebo capsules Duloxetine: 60 mg PO BID l'lacebo	Randomized: N = 207 (M = 23 F = 184) ≥18 years 49.1 years	Male and female outpatients ≥18 years of age who met criteria for fibromyalgia as defined by the ACR. Presence or absence of major depression by DSM-IV criteria using the MINI. Score of ≥4 on the Fibromyalgia Impact Questionnaire (FIQ) at	12 weeks	FIQ Pain Item and FIQ Total Score
F1J-MC- HMAW; Original submission; Complete (Acute phase); Full	Safety and Efficacy	_		Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 60 mg PO BID Duloxetine: 60 mg PO QD Duloxetine: 20 mg PO QD Placebo	(actual): 457 M = 281 F = 176 60.1 (22.4 – 88.8)	Visit 1 and Visit 2. Male or female outpatients ≥18 years of age with pain due to bilateral peripheral neuropathy caused by Type I or II diabetes mellitus. Score of at least 3 on MNSI. Daily pain present for ≥6 month.	Acute phase: 12 weeks	Weekly mean of the 24-hour average pain severity scores recorded daily on an 11-point Likert scale

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-HMBT; not included (no placebo control/DPN); Complete (Acute phase); Abbreviated		July 2002 Complete (Acute phase)	Multicenter, open-label, parallel safety study	capsules: 30 mg Duloxetine 60	N = 449 (Randomized, acute phase) ≥18 years	Male or female outpatients ≥18 years of age with pain due to bilateral peripheral neuropathy caused by Type I or II diabetes mellitus. Score of at least 3 on MNSI. Daily pain present for >6 months.	26 weeks	MNSI
F1J-MC- HMCA; 5.3.5.1.5; Complete; Full	Safety and Efficacy	Complete October 2003	blind, placebo- controlled acute therapy study	Duloxetine capsules: 30 mg Placebo capsules Duloxetine: 60 mg BID PO Duloxetine 60 mg QD PO Placebo	Randomized: N = 354 F 49.6 (20.0-79.6)	Female outpatients ≥18 years who met the criteria for primary fibromyalgia as defined by the ACR	12 weeks	BPI- average pain item

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
H8I-MC-HQAC;	Comparison of	May 2003	Multicenter,	Duloxetine capsules:	Randomized:	Male or female	Approx. 4	DTA WSS
5.3.5.1.6;	, ,	Complete	parallel,	20 mg	N = 70	outpatients ≥18 years and	weeks	
Complete;	instruments	June 2004	placebo-	Placebo capsules		≤ 70 years of age with		
Abbreviated			controlled	9000	Mean ages:	DSM-IV non-psychotic		
			method	Duloxetine 60 mg PO	Duloxetine 60mg	major depression of at		
			development	QD;	QD: 42 years	least 4 weeks duration,		
			study	Duloxetine 60 mg PO	Duloxetine 60mg	with a HAMD ₁₇ total		
				BID;	BID: 34 years	score ≥15 and CGI-S		
				Placebo	Placebo: 42 years	score ≥4 at Visit 1		
					Age range: 20-70 years			
F1J-MC-HMAV		October 2002	Multicenter,	Duloxetine capsules:	N = 334	Male or female	12 weeks	Reduction in
(Group A); not	Efficacy	(acute)	parallel,	30 mg	(M = 204 F =	outpatients at least 18	acute	average pain
included (DPNP		Complete	double-blind,	Placebo capsules	130)	years of age with a		severity as
study, MDD		August 2003	randomized,		Acute phase	diagnosis of diabetic	52-week	measured by
patients excluded);			placebo-	Duloxetine:		neuropathic pain (pain	extension	an
		Extension	controlled	60 mg PO QD	Extension phase:	due to bilateral diabetic		11-point
Complete: acute		phase:	study	Duloxetine:	N = 237	neuropathy caused by		Likert scale
phase;		Complete		60 mg PO BID	(M = 145)	Type I or II diabetes		
Full		August 2004		0.00 3.4	F = 92	mellitus) confirmed by a		
				Placebo		score of at least 3 on the		
Extension phase:					60.7	Michigan Neuropathy		
Complete;				Routine care	(27.6-84.3)	Screening Instrument		
Abbreviated CSR	10							

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study								
Identifier;				Test and				
Location;		Enrollment			# Patients (M/F)			
Status;		Start	Design;	Dose, Route,	Mean Age	Diagnosis or	Treatment	Primary
Report Type	Objective(s)	Status and End	Control Type	and Regimen	(Range) years	Inclusion Criteria	Duration	Endpoint
F1J-MC-HMAV		November 2003	Multicenter,		N = 348		12 weeks acute	
	Efficacy	Complete		capsules: 30 mg		outpatients at least 18		average pain
included (DPNP		March 2004	blind,	Placebo capsules		*		severity as
study, MDD		(Acute phase)	randomized,	•	(Acute phase)			measured by
patients			placebo-	Duloxetine:		neuropathic pain (pain due		an
excluded);		Extension	controlled study	60 mg PO QD	N = 296 Eligible	ro bilateral diabetic		11-point
Complete		Ongoing		Duloxetine:	for Extension	neuropathy caused by		Likert scale
(Acute phase)				60 mg PO BID	pháse	Type I or II diabetes		
Abbreviated						mellitus) confirmed by a		
Extension				Placebo	58.8	score of at least 3 on the		
Ongoing					(20.4 - 81.9)	Michigan Neuropathy		
				Routine care		Screening Instrument		
F1J-US-HMCB	Safety and	March 2002	Multicenter,	Duloxetine	Randomized:	Male or female	9 weeks	BPI question
5.3.5.1.1;	Efficacy	Complete		capsules: 30 mg		outpatients ≥18 years of		
Complete;		November 2002	ľ	Placebo capsules	t .	age with a primary		
Abbreviated			controlled study		(Acute phase)	diagnosis of DSM-IV-		
				Duloxetine: 60		defined MDD. Patients		
				mg PO QD	≥18 years	must have a HAMD ₁₇		
				Placebo	5	otal score ≥15, CGI-		
						Severity total score ≥4 at		
						both Visits 1 and 2, and	<	
						BPI average pain score		
						(question 3) of ≥ 2 at Visit		
						2		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- HMCM; Not included (ongoing study); Protocol	Safety and Efficacy		Multicenter, open-label study of patients diagnosed with MDD in both primary care and psychiatric carebased outpatient settings		Planned: approx. 8,000 patients ≥18 years	Outpatients who meet DSM-IV diagnostic criteria for MDD	7 weeks	Outcomes as measured by the following scales: CGI-Severity; SSI; and the QIDS-SR ₁₆
F1J-MC- HMCX; Not included (ongoing) Protocol	Safety and efficacy		Multicenter, open-label	Duloxetine 60 mg QD	8,000 patients	Outpatients ≥ 18 years of age with DSM-IV diagnostic criteria for MDD		Effectiveness in practice-based clinical settings as measured by: CGI-S, SSI, and QIDS-SR ₁₆
F1J-MC- HMCY; Not included (ongoing study) Protocol	Safety and efficacy		Open-label, Phase 4, multicenter study of patients diagnosed with major depressive disorder in both primary care and psychiatric care-based outpatient settings	Duloxetine 60 mg QD	8,000 patients (must be at least	Outpatients who meet DSM-IV diagnostic criteria for major depressive disorder	7 weeks	Outcomes as measured by the CGI-S, SSI, and QIDS-SR ₁₆ scales

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-US-HMCR; Not included	Safety and efficacy		1	Duloxetine 60 mg once daily		Outpatients who meet DSM-IV-	8 months	Onset of antidepressant efficacy (defined as a
(ongoing)	cificacy		multicenter,	once duriy	18 years of age)	defined criteria for		20% decrease from
Protocol				Escitalopram 10 mg once daily		major depressive disorder		baseline in the Maier subscale of the HAMD ₁₇ score throughout acute treatment) for duloxetine 60 mg QD versus escitalopram 10 mg QD
F1J-MC- HMDD; Not included (ongoing) Protocol	Safety and efficacy		Randomized, multicenter study of outpatients with major depressive disorder	120 mg daily	Planned randomization: approx. 940	Outpatients who meet DSM-IV criteria for major depressive disorder	12 weeks	Remission rates, defined as the proportion of patients with a HAMD ₁₇ score ≤7 at endpoint

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End		Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-	Tolerability		<u> </u>		Planned	Male or female	10 weeks	Noninferiority as measured
	and efficacy		randomized,	120 mg daily	randomization:	outpatients at least		by the HAMD ₁₇ total score
Not included	associated		multicenter		approx. 360	18 years of age who		(mean change from baseline
(ongoing)	with		study			meet criteria for		to endpoint)
Protocol	switching					major depressive		
	SSRI non-			3		disorder, according		
	responders or					to diagnostic criteria		
3#0	partial					in DSM-IV		
	responders to							
	duloxetine							
F1J-US-HMDR;	Safety and		Double-blind,	Duloxetine 60 mg	Planned	Male and female	Up to 16	Incidence of treatment-
Not included	efficacy		randomized,			outpatients who	weeks	emergent nausea for patients
(ongoing)			multicenter,	daily for up to 16	Approx. 640	meet criteria for		initially dosed at duloxetine
Protocol			parallel, dose	weeks (initial		major depressive		30 mg QD versus duloxetine
			comparison	dosing following		disorder, as defined		60 mg QD (acute phase).
		8	study	screening will be		by DSM-IV-TR.		Primary objective of the
				at 30 mg QD, 60	lav.			extension phase is a
				ing QD, or 30 mg				comparison of efficacy in
			561	BID doses).				patients not meeting
								response criteria during the
								acute phase (for those dosed
								at duloxetine 60 mg QD
								versus duloxetine 120 mg
								QD).

Table 5.2. Tabula

Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
FIJ-MC- HMBR; Not included (ongoing) Protocol	Safety and efficacy		Double-blind, randomized, parallel, placebo-controlled	Duloxetine 60 or 120 mg QD (or placebo) for approx. 9 weeks in a double-blind, acute therapy phase	Planned randomization: approx. 480 (160 per treatment group)	Male and female	9 weeks (acute	HAMA (mean change from baseline to endpoint in anxiety symptoms)
F1J-MC- HMDT; Not included (ongoing); Abbreviated	Safety and efficacy		controlled	placebo) for approximately 10 weeks	patients (160 per	Male and female outpatients meeting DSM-IV diagnostic criteria for generalized anxiety disorder	blind acute	HAMA (mean change from baseline to endpoint in anxiety symptoms)

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End		Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- HMDU; Not included (ongoing); Abbreviated	Safety and efficacy		Double-blind,	Duloxetine: 60- 120 mg QD	N = approx. 480 (160 per treatment group) Patients must be at least 18 years of age	Male and female outpatients meeting DSM-IV diagnostic criteria for generalized anxiety disorder (and meeting specified disease severity criteria)	10 weeks	HAMA (mean change from baseline to endpoint in anxiety symptoms)
F1J-MC-HMDI; Not included (ongoing)	Safety and efficacy (relapse prevention)		Double-blind, placebo- controlled study	dosing (60 mg to 120 mg) compared with placebo during acute treatment of 4 to 10 weeks and continuation	Planned enrollment: approx. 490 (acute phase), with planned randomization of approx. 257 patients for the maintenance phase	Male or female patients who meet	weeks	Time to recurrence as assessed during 52-54 weeks of maintenance treatment in patients who responded to up to 34 weeks of open-label duloxetine treatment

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End		Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC-SBBU;	-	December		Duloxetine:	Planned: 120		8 weeks	IEF
				80 mg/day, given		20 years of age with a	Weeks	
Complete;		Complete				predominant complaint of		
Full		October		as two 20 mg		SUI; average of at least 1		
		2004	placebo-	capsules		incontinent episode per day		
			controlled,	1	,	on the screening diary;		
			multicenter			urinary diurnal frequency of		
			study of a fixed			eight or less per day;		
			dose of			nocturia of two or less per		
			duloxetine			day; and SUI symptoms for		
			compared with			at least 3 months prior to		
			placebo			study entry.		
F1J- MC-	Safety and	December	Double-blind,	Duloxetine	N = 494 women	SUI Average of at least 7	12 weeks	IEF – percent
SBAT;	Efficacy	2000	stratified,	capsules: 20 mg		incontinent episodes per	(subjects	change from
Original		Complete	randomized,	Placebo capsules		week before enrollment.	completing trial	baseline; percent
submission;		April 2002	parallel,		52.9 years	Positive Cough Stress Test,	are eligible to	change for I-QOI
Complete;			placebo-	Duloxetine:	(24.2-82.6)	positive Stress Pad Test	continue in Study	total score
Full			controlled,	40 mg PO BID		result (>2.0 g); first	SBAU)	
			multicenter	Placebo		sensation of bladder fill		
			study			(urge to void) ≥1 00 mL,		
					E.	bladder capacity >400 mL;		
			Blinded			normal day and night		
			placebo lead-in			urinary frequency		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status;		Enrollment Start Status and	Design;	Test and Control Drug(s) Dose, Route, and	# Patients (M/F) Mean Age	Diagnosis or	Treatment	Primary
Report Type	Objective(s)		Control Type	Regimen	(Range) years		Duration	Endpoint
F1J- MC- SBAV; Original submission; Complete; Full	Safety and	November 2000 Complete February 2002	Double-blind, stratified, randomized, parallel, placebo-controlled, multicenter study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 40 mg PO BID	N = 683 F 52.8 years (22.5-83.8)	SUI Average of at least 7 incontinent episodes per week before enrollment. Positive Cough Stress Test, positive Stress Pad Test result (>2.0 g); first sensation of bladder fill (urge to void) >100 mL,	12 weeks	IEF percent change from baseline; percent change for I- QOL total score
F1J-MC- SBAX; Original submission; Complete; Full	Safety and Efficacy	May 2001 Complete May 2002	Multicenter, double-blind, stratified, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules	N = 458 F 53.2 years (27-79)	normal day and night urinary frequency Female outpatients at least 18 years of age with SUI, defined by a predominant complaint of SUI and all of the following: Average of at least 7 incontinent	Duloxetine: 12 weeks Placebo: 12 weeks	IEF percent change from baseline; percent change for
			controlled study	Duloxetine: 80 mg/day, given as 40 mg BID		episodes per week; positive Cough Stress Test result; positive Stress Pad Test result (>2.0 g); first sensation of bladder fill (urge to void) ≥100 mL; bladder capacity >400 mL		I-QOL total score

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
FIJ-MC-	Safety and	June 1998	Multicenter,	Duloxetine capsules: 10	N = 553	Females 18-65	12 weeks	IEF
SAAW;	efficacy	Complete	double-blind,	mg	women	years of age		
Original		September	randomized,	Duloxetine capsules: 20		with SUI		
submission;		1999	placebo-	mg		reporting ≥4		
Complete;			controlled study	Placebo capsules	49.6 years	incontinent		
Full					(27.1-65.7)	episodes per		
				Duloxetine: 20, 40, or 80		week		
				mg/day PO				0
FILMO	0.0.1	T 1 0001	N. 1.1	Placebo	N 200 E	Б 1	10 1	
F1J-MC-	Safety and	July 2001	Multicenter,	Duloxetine capsules: 20 mg	$N = 306 \mathrm{F}$	Female	12 weeks	Measured
SBBL;	efficacy	Complete	double-blind,	Placebo capsules	54.6	outpatients at		by the
original		September	stratified,	B.1	54.6 years	least 18 years		micturition
submission;		2003	randomized,	Duloxetine:	(21.4-84.6)	of age with		episodes per
Complete;			parallel, placebo-	40-60 mg BID PO		bladder over		24 hours as
Full			controlled pilot	Placebo		activity defined		recorded in
			study	× .		as bothersome		24-hour
						urinary urgency or UUI for a		diary.
						minimum of		
						three		
						consecutive		
						months		

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SBAF; Not included (SUI study); Ongoing; Abbreviated	Safety and efficacy	January 2002 Ongoing (as of November 2003)	Multicenter, double-blind, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 40 mg BID PO plus PFMT Placebo plus PFMT	N = 201 F (as of Nov. 2003) ≥18 - 75 years	Female outpatients between 18 and 75 years of age with symptoms of SUI, including ≥2 accidental urine leaks per day	Active therapy: 12 weeks Open-label period: until duloxetine is commercially available or the sponsor stops the study	IEF
F1J-MC- SBBA; not included; Complete; Synopsis	Safety and efficacy (health outcomes)	November 2001 Complete February 2003	Multicenter, double-blind, and single-blind, randomized, parallel, placebo- controlled study of health outcomes of duloxetine compared with placebo	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 40 mg BID PO Placebo	N = 451 F ≥18 years	Female outpatients at least 18 years of age with SUI for ≥3 months; symptoms included ≥1 accidental urine leak per week	36 wecks	I-QOL improvement

 Table 5.2.
 Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SBAU; Not included (SUI study); Ongoing; Abbreviated	Safety	April 2001 Ongoing	Multicenter, open-label, single-treatment- group extension study (for those who had successfully completed Study F1J-MC-SBAT)	Duloxetine capsules: 20 mg Duloxetine: 40 mg BID PO	N = 363 F (as of October 2003)	Female outpatients with a predominant diagnosis of SUI who successfully completed Study SBAT	Until duloxetine is commercially available for the treatment of UI or sponsor stops the study	Long-term safety data
F1J-MC- SBAW; Not included (SUI study); Ongoing; Abbreviated	Safety	March 2001 Ongoing	Multicenter, open-label, single-treatment- group extension study to Study F1J-MC-SBAV	Duloxetine capsules: 20 mg Duloxetine: 40 mg BID PO	N = 493 F (as of October 2003)	Female outpatients with a predominant diagnosis of SUI who successfully completed Study SBAV	Until duloxetine is commercially available for the treatment of UI or the sponsor stops the study	Long-term safety data
F1J-MC- SBAY; Not included (SUI study); Ongoing; Abbreviated	Safety	March 2001 Ongoing	Multicenter, open-label, single-treatment- group study of the long-term safety of duloxetine	Duloxetine capsules: 20 mg, 40 mg Duloxetine: 40 mg BID PO	N = 663 F (as of Oct. 2003) ≥18 years	Female patients who had symptoms of SUI for ≥3 months prior to study entry	Until duloxetine is commercially available for the treatment of UI or the sponsor stops the study	Long-term safety data

Duloxetine hydrochloride (LY248686)

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SBBM; Not included (SUI study); Ongoing; Abbreviated	Safety	September 2001 Ongoing	Multicenter, open-label, single-treatment- group extension study to Study F1J-MC-SBAX	Duloxetine capsules: 20 mg, 40 mg Duloxetine: 40 mg BID PO	N = 363 F (as of Oct. 2003)	Female outpatients with a predominant clinical diagnosis of SUI who successfully completed SBAX	Until duloxetine is commercially available for the treatment of SUI or the sponsor stops the study	Long- term safety data
F1J-MC- SBAB; Not included (SUI study); Ongoing; Abbreviated	Biomechanical effects of duloxetine	Acute therapy: October 2001 Complete August 2003 Open-label extension: Ongoing	Multicenter, double-blind, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 80 mg/day, given as 40 mg BID PO Placebo	N = 65 F (Acute phase) 51.5 (21.5-72.9 acute phase)	Female outpatients 18-75 years of age with genuine stress incontinence (normal compliance and no detrusor instability) confirmed on urodynamic studies	Active therapy: 4 weeks Open-label extension: duloxetine 40 mg BID until duloxetine is commercially available or the sponsor stops the study	VLPP; urethral pressure measures

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SBAM; Not included (SUI study); Ongoing; Abbreviated	Safety and efficacy	May 2001 Ongoing	Multicenter, double-blind, stratified, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 40-60 mg BID PO Placebo	N = 109 F (as of Oct. 2003)	Female outpatients 18-75 years of age with a diagnosis of pure GSI with at least 2 incontinence episodes per day	Up to 8 weeks Open-label period: until duloxetine is commercially available for the treatment of UI or until the sponsor stops the study	Percent change in IEF from baseline to endpoint
F1J-MC- SBBX Not included (SUI study); Ongoing; Abbreviated	Safety (long-term safety monitoring)	December 2002 Ongoing	Multicenter, open-label, multicountry study of women with bladder overactivity	Duloxetine capsules: 20 mg Duloxetine: 80-120 mg/day given as 40-60 mg BID	N = 72 F (as of Oct. 2003)	Females who met the diagnostic criteria for bladder overactivity (and who had successfully completed Study SBBL)	52 weeks	Long- term safety

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
FlJ-MC-	Safety and	December	Multicenter,	Duloxetine	N = 92	Outpatients (male or	3 weeks	CMG, voiding
SAAA;	efficacy	1993	double-blind,	capsules: 20 mg;	(91 = F)	female 30-80 years		diary, 24-hour pad
Original		Complete	randomized,	Placebo		of age) with stress,		test, stress pad test,
submission;		March 1995	placebo-		Mean age:	urge, or mixed		and social activity
Complete;			controlled study	Duloxetine:	54.5-55.9	incontinence		questionnaire.
Abbreviated				20 mg QD PO Placebo	years			
F1J-MC-	Safety and	August 1995	Multicenter,	Duloxetine	N = 288 F	Female outpatients	6 weeks	Relationship
SAAB;	efficacy	Complete	double-blind,	capsules:	11	18-80 years of age		between doses of
Original		November	parallel,	10 mg, 20 mg	54.8 years	diagnosed with stress		duloxetine and
submission;		1996	randomized,	Placebo capsules	(22.2-78.7)	or mixed (with a		efficacy as
Complete;			stratified,			significant stress		measured by
Abbreviated			placebo-	Duloxetine		component) urinary		change in stress
			controlled study	20, 30, and 40		incontinence		pad test weight
				mg/day QD PO				
				Placebo				

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SAAH; Original submission; Complete; Synopsis	Safety and efficacy	August 1996 Complete June 1997	Singlecenter, double-blind, placebo- controlled, randomized, parallel study	Duloxetine capsules: 10 mg, 20 mg Placebo capsules Duloxetine: 30, 40 mg/day QD PO Placebo	N = 32 (M = 5; F = 27) 50.5 years (21-75.5)	Males and females 18 to 85 years of age with one of the following diagnoses: urge urinary incontinence, urinary urgency (absent infection) without incontinence, or reflex neurogenic bladder	Double-Blind: Duloxetine: 1 week or Placebo: 1 week Open-Label: Duloxetine: 12 weeks	DAI
F1J-MC- SAAI; Original submission; Complete; Synopsis	Safety and efficacy	April 1996 Complete August 1996	Multicenter, double-blind, placebo- controlled, randomized, parallel study	Duloxetine capsules: 10 mg, 20 mg Placebo capsules Duloxetine: 30, 40 mg/day QD PO Placebo	N = 91M 62.5 years (40.5-85.7)	Male outpatients 40 to 85 years of age with a diagnosis of mild to moderate BPH	Duloxetine: 8 weeks Placebo: 9 weeks	AUA Symptom Index score

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SAAL; Not included (original submission); Complete, Abbreviated	Safety and efficacy	May 1996 Complete November 1996	Multicenter, placebo- controlled, double-blind, randomized, crossover study	Duloxetine capsules: 10 mg, 20 mg Oxybutynin capsules: 2.5 mg Placebo capsules Duloxetine: 30/40 mg/day, QD PO Oxybutynin: 7.5/10 mg/day, QD PO Placebo QD PO	N = 68 F 56.9 years (21.9-83.8)	Ambulatory, outpatient females 18 to 85 years of age with urinary frequency, urinary urgency, and nocturia	Total study time: 12 weeks (including two 4- week active treatment periods)	Efficacy as measured by BUS
F1J-MC- SBCC; Not included (SUI study); Ongoing; Abbreviated	Safety and efficacy	July 2003 Study ongoing	Multicenter, double-blind, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine: 40 mg BID PO Placebo BID	N = 86 F (as of Oct. .2003) ≥18 years	Female outpatients at least 18 years of age with predominant SUI symptoms who have an average of at least 7 incontinence episodes per week	6 weeks double blind, then open label until duloxetine becomes commercially available for the treatment of urinary incontinence in the country where the subject resides or until the sponsor, for any reason, stops the study	IEF

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollment Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-US- SBCD; Not included (SUI study); Ongoing; Abbreviated	Safety and efficacy	Study ongoing	Multicenter, open-label study	Duloxetine capsules: 40 mg Duloxetine 40 mg BID PO	Planned: N = 4,000 F	Ambulatory females (White, Hispanic and African-American) at least 18 years of age with incontinence episode frequency ≥7 per week who have SUI or stress- predominant mixed UI	8 weeks of active treatment	IEF
F1J-MC- SBCT; not included (SUI study); Ongoing	Study of the bio-mechanical and electrophysiological effects of duloxetine in the treatment of women with SUI	Study ongoing	Multicenter, open-label study	Duloxetine capsules: 40 mg Duloxetine 40 mg BID PO	Planned: N = 100 F 18 to 75 years	Ambulatory female outpatients 18 to 75 years of age with SUI and a positive VLPP, with discrete episodes of incontinence	Acute therapy: 4 weeks Chronic therapy: 20 weeks Discontinuation. period: 4 weeks	VLPP (change from baseline to endpoint)

Table 5.2. Tabular Listing of Clinical Studies (continued)

Study Identifier; Location; Status; Report Type	Objective(s)	Enrollmen t Start Status and End	Design; Control Type	Test and Control Drug(s) Dose, Route, and Regimen	# Patients (M/F) Mean Age (Range) years	Diagnosis or Inclusion Criteria	Treatment Duration	Primary Endpoint
F1J-MC- SBBO; Not included (SUI study); Complete; Interim full study report	Safety and efficacy	October 2003 Last patient complete: August 2004	Multicenter, double- blind, randomized, parallel, stratified, placebo- controlled study	Duloxetine capsules: 20 mg Placebo capsules Duloxetine 40 mg BID PO Placebo given orally twice daily	N = 588 (300 duloxetine, 288 placebo) Mean 53.7 years (19.6-85.1 years)	Female outpatients at least 18 years of age with symptoms of mixed UI based on the disease diagnostic criteria; average ≥4 incontinence episodes per week on the S/UIQ; and symptoms of UI for a minimum of 3 months prior to study entry	8 weeks	IEF
F1J-MC- SBBT; Not included (SUI study); Complete; Full	Safety and efficacy	July 2003 Complete February 2005	Multicenter, double- blind, stratified, randomized, parallel, placebo- controlled study	Duloxetine capsules: 20 mg Placebo Duloxetine 80 mg/day (given as two 20 mg BID PO) Placebo	N = 121 F Mean 54.4 years (30.4-79.2 years)	Female outpatients ≥20 years of age with SUI based on the disease diagnostic criteria; average at least one incontinent episode per day on the screening diary; and have had symptoms of SUI for a minimum of 3 months prior to study entry	8 weeks	IEF (percent change from baseline to endpoint)

Table 5.2.

Tabular Listing of Clinical Studies (concluded)

Study								
Identifier;								
Location;		Enrollment		Test and Control	2.5	Diagnosis		
Status;		Start		Drug(s)	# Patients (M/F)	or		
Report		Status and	Design;	Dose, Route, and	Mean Age (Range)	Inclusion	Treatment	Primary
Type	Objective(s)	End	Control Type	Regimen	years	Criteria	Duration	Endpoint
FIJ-MC-	Efficacy	Study ongoing	Multicenter,	Duloxetine capsules:	Planned:	Female	12 weeks double-	IEF
SBBR;		(as of October	double-blind,	20 mg	N = 500 F	outpatients	blind, then open-	
Not		2003)	randomized,	Placebo capsules		at least 18	label until	
included			parallel,			years of age	duloxetine becomes	
(SUI			placebo-	Duloxetine 20 mg		with	commercially	
study);			controlled	PO BID escalating		predominant	available for the	
Ongoing;			study	to 40 mg PO BID		symptoms of	treatment of urinary	
Abbreviated				Duloxetine 40 mg		SUI	incontinence in the	
				PO QD escalating to			country where the	
				40 mg BID	*		subject resides or	
				Duloxetine 40 mg			until the sponsor,	
				BID			for any reason, stops	
				Placebo			the study.	

 Table 5.2.
 Tabular Listing of Clinical Pharmacology Studies

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of centcr(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC-	Michael A.	Open-label dose-	N = 12 F	Healthy	Total study	Duloxetine	Bioanalytical – Plasma
SBCH;	Turik, M.D.,	escalation study		females 18	duration: 16-20	capsules:	concentrations of duloxetine were
5.3.3.1.1	Lilly Laboratory		18 to 75	to 75 years	days, depending	20 mg, 30 mg	determined using a validated liquid
Complete;	for Clinical		years	of age	on tolerance to		chromatography with tandem mass
ClinPharm	Research				drug level and		spectrometry method.
Study Report				,	ability to		
(One center				escalate to next		<u>Pharmacokinetic</u> – Plasma
					higher drug level		concentration versus time data for
							duloxetine were analyzed by
					Escalating dose:		noncompartmental methods.
					Duloxetine 60		
					mg BID for 1-3		Safety – Parameters included vital
					days; then		signs, 12-lead ECGs, clinical lab
					duloxetine 120		evaluations, physical exams, and
					mg BID x 1-3 days; duloxetine		adverse event monitoring
					160 mg BID x 4		Statistical – Tabulations and
					days; duloxetine		descriptive statistics were used to
					200 mg BID x		list and summarize AEs.
					3.5 days		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
FIJ-LC-	M. Turik, MD,	Multicenter,	N = 15	Health	23 days:	Duloxetine	Cmax, AUC
HMDS; 5.3.3.4.1;	Lilly Laboratory for Clinical	open-label, multiple-dose	(M = 5/F = 10)	female and male	Duloxetine 40 mg PO BID	capsules: 20 mg	
ClinPharm;	Research,	study		subjects 21	(Days 1-18),		
Complete;	Indianapolis, IN;			through 59	then QD	Fluvoxamine	
Full	B. Laura, MD,		21-59	years of age	(morning) on	tablets: 50 mg	
	West		years		Day 19;		
	Pharmaceutical				Fluvoxaminc		
	Services,				given 50 mg QD		
	Evansville, IN;				(evening) on		
	F. Hoppcner,				Days 5-6, 100		
	MD, Kendle				mg on Days 7-		
	Clinical				20, 50 mg Days		
	Pharmacology				21-22		
	Department, The						
	Netherlands						

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC-	Mark J.	Single-blind,	N = 12 M	Healthy	21 days	Duloxetine	SafetyAdverse events, blood
HMAP;	Goldberg, M.D./	multiple-dose,	(8 males	adult males	Duloxetine 40	capsules:	pressure, heart rate, ECGs,
Original	Lilly Laboratory	placebo-	on		mg (20 mg BID)	10 mg, 20 mg	neurological exams, clinical
submission	for Clinical	controlled study	duloxetine,		for 7 days;		laboratory tests (serum chemistry,
(not	Research,		4 placebo)		duloxetine 60	Placebo	hematology coagulation studies,
included:	Indianapolis, IN				mg (30 mg BID)	capsules	urinalysis)
ClinPharm);	1		Age range:		for 7 days; and		PharmacokineticPlasma trough
Complete;	1 center		22-53		duloxetine 80		concentrations at each dose level
Clinical					mg (40 mg BID)		and standard multiple-dose
Study Main					for 6.5 days		pharmacokinetic parameters for
Report							duloxetine.
<u> </u>				= =	Placebo		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-BD- HMAR;	Jean-Paul Macher, M.D./	Single- blind,	N = 14 $M = 7$	Healthy males or	Duloxetine: 20 days Placebo: 22 days	Duloxetine: 20 mg	SafetyPhysical examination, blood pressure, pulse rate, body
Original submission	Forenap Centre Hospitalier,	randomized placebo-	F = 7	females 18 to 55 years	Dose escalation:	capsules containing	temperature, weight, ECG, clinical laboratory tests (hematology,
(not	Rouffach,	controlled	Mean age:	of age;	Day 1-2: duloxetine	enteric-coated	urinalysis, and liver tests), adverse
included:	France		31 years	BMI 18 to	20 mg or placebo	pellets	events.
ClinPharm)			(23-43)	30	BID;		PharmacokineticStandard
Complete;	1 center				Day 3-8: duloxetine	Placebo	multiple-dose pharmacokinetic
Full		İ			40 mg/placebo BID;	capsules	parameters for duloxetine at each
					Day 9-14: duloxetine		dose level.
					60 mg/ placebo BID;		
					Day 15-19: duloxetine		
					80 mg/ placebo BID;		
					Day 20: duloxetine 80		
					mg/placebo morning,		
					placebo evening; Day 21-22: placebo		
					BID		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
Type FlJ-LC- HMBN; Not included (ClinPharm) Complete; Full	Randall Stoltz, M.D./ West Pharmaceutical Services Evansville, IN 1 center	Open-label study	N = 12 (M = 6 F = 6) Age 23-61	Healthy males or females 18- 65 years; BMI < 35 kg/m ²	Approx. 17 days: duloxetine 60 mg (single dose) for 1 day; duloxetine QD 8 days; duloxetine BID 7.5 days Sequential dosing: Duloxetine 60 mg PO (single dose); duloxetine 60 mg PO QD; duloxetine 60	Duloxetine: 60 mg (free base)	SafetyVital signs, ECGs, clinical laboratory tests, clinical assessment and adverse events. PharmacokineticStandard single- and multiple-dose pharmacokinetic parameters for duloxetine and metabolites.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC- HMAB; Original submission (not included: ClinPharm) Complete; Clinical Study Summary	D.L. Hyslop, M.D./U.S. Schwertschlag, M.D., Ph.D. Lilly Laboratory for Clinical Research Indianapolis, IN/ 1 center	Single-blind, placebo- controlled study	N = 9 M = 9 Ages 26- 55	Healthy males 21-55 years of age; BMI < 35 kg/m ²	Dosage range of 5-80 mg was administered with 150-180 mL water	Duloxetine capsules: 5–80 mg (containing enteric-coated pellets) Placebo	Safety—Clinical laboratory tests, nervous system examination, pupil size, blood pressure measurements, ECGs. PharmacokineticStandard single- and multiple-dose pharmacokinetic parameters for duloxetine and metabolites.
F1J-LC- SAAZ; Original submission (not included: ClinPharm) Complete; Full	Michael Skinner, M.D., PharmD Lilly Laboratory for Clinical Research Indianapolis, IN	Open-label, single-dose metabolic study	N = 4 M = 3 F = 1 Mean 43 years (37-48)	Healthy adults 18 to 60 years of age; within 30% of ideal body weight	Single dose	Duloxetine: 20.2mg containing approx. 100 μCi of [14C]- labeled compound in an enteric- coated tablet	SafetyVital signs, ECGs, routine laboratory tests, clinical assessment, and adverse events. PharmacokineticStandard single-dose pharmacokinetic parameters for duloxetine and total radioactivity. Metabolite identification Elimination pathways

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type F1J-LC- SBAA; Original submission (not included: ClinPharm) Complete; Full	Study investigator/ Coordinating center / Number of center(s) Michael H. Skinner, M.D./ Lilly Laboratory for Clinical Research/ Indianapolis, IN/ 1 center	Design Open-label, randomized, 4-way crossover study	Number of subjects and sex/ Age range N = 14 F (1 subject DC prior to first dose) Mean age: 36 years (18-50)	Diagnosis and criteria for inclusion Healthy females 18 to 50 years of age and within 30% of ideal body weight	Duration of duloxetine treatment/ Regimen Duloxetine: 4 single doses over 4 weeks 40 mg x 4 with 1 week washout between each dose	Duloxetine test product and strength (mg base) Duloxetine: 20-mg (free base) Enteric- coated capsules	Criteria for Evaluation SafetyVital signs, ECGs, routine laboratory tests, and adverse events. PharmacokineticStandard single-dose pharmacokinetic parameters for duloxetine.
F1J-LC- BD-0001; Not included (ClinPharm) Complete	Michel Guillaume, M.D./ Aster-Cephac Paris, France/ 1 center	Randomized, double- blind, 3-period cross-over, placebo- and desipramine- controlled, evaluating 2 regimens of duloxetine	N = 12 M = 12 F = 0/ Age 23-38	Healthy adult males; extensive metabolizers with regard to CYP2D6 phenotype	7 days/ 80 mg QD x 7 days (n=6) 60 mg BID x 6.5 days (n=6); Desipramine 50 mg BID x 6.5 days Placebo x 6.5 days	20-mg capsules containing duloxetine 10% w/w enteric- coated pellets	Safety Electrocardiogram, laboratory tests, recording of symptoms and vital signs. PharmacokineticPlasma concentration measurements of duloxetine and desipramine (No formal PK analyses performed) PharmacodynamicPressor response to IV bolus injection of tyramine; 24 hour urinary catecholamines and metabolites; Whole blood 5-HT; Polygraphic sleep recordings (hypnographic EEG parameters); Leeds sleep questionnaires.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC-	David	Single-blind,	N= 15	Overtly	6 weeks:	Duloxetine	Safety— Safety parameters
SBBN;	Robertson,	randomized,	(M= 5,	healthy	Duloxetine 40	capsules:	included vital signs,
Original	M.D./	outpatient study	F= 10)	male and	mg BID PO for	20 mg free	electrocardiograms, clinical
submission	Vanderbilt			females 18	2 weeks,	base	laboratory values, and adverse
(not	University		Mean age:	to 40 years	increasing by 40		events.
included:	Medical		26 years	of age	mg each week		Pharmacokinetic—No formal
ClinPharm)	Center,		(18-39)		up to 240 mg		pharmacokinetic analysis was
Complete;	Nashville, TN				daily doses (120		performed for duloxetine. Three
Full					mg BID)		concentration measurements of
	1 center						duloxetine were summarized
					Placebo		descriptively and evaluated
					14		graphically.
							Pharmacodynamic—
					-		Pharmacodynamic analyses will
							be presented in the completed
				_			study report.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
FlJ-LC- HMBG; Original submission (not included: ClinPharm) Complete; Full	Michael H. Skinner, M.D./ Lilly Laboratory for Clinical Research Indianapolis, IN One center	Open-label, randomized single-dose, two period, crossover study	N=26 M=6 F=20 Age 22-65	Healthy males or females 18 to 65 years of age; BMI less than 35 kg/m ²	One 60-ing capsule formulation (fasted) and a 60-ing dose (fasted) consisting of 3 x 20-ing (reference material) capsules in a randomized sequence; in minimum 1-week and maximum 3-week washout period between doses	20-mg capsules containing 10% duloxetine enteric-coated pellets (clinical trial formulation) and 60-mg capsules containing 20% duloxetine enteric-coated pellets (market-designated formulation)	SafetyVital signs, ECGs, clinical laboratory tests, clinical assessment and adverse events. PharmacokineticStandard single-dose pharmacokinetic parameters for duloxetine Standard bioequivalence criteria based on C _{max} and AUC.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report	Study investigator/ Coordinating center / Number of		Number of subjects and sex/	Diagnosis and criteria for	Duration of duloxetine treatment/	Duloxetine test product and strength	Criteria for
Туре	center(s)	Design	Age range	inclusion	Regimen	(mg base)	Evaluation
F1J-LC-	Michael A.	Two-part,	N= 10	Overtly	Duloxetine HCl: Single	IV duloxetine	Safety Safety parameters
HMBI;	Turik, M.D./	open-label	(M=5)	healthy	doses, IV and oral, on	HCl equivalent	included vital signs, clinical
Original	Lilly	study with a	F= 5)	male and	two occasions; Part A	to 0.8 mg	laboratory tests, and adverse
submission	Laboratory for	randomized,		female	and B: approx. 30 days	duloxetine (Part	events.
(not	Clinical	two-period,	Age 21-58	subjects		A) or 10 mg	Pharmacokinetic Single-dose
included:	Research/	crossover			IV duloxetine: Part A:	duloxetine (Part	pharmacokinetic parameters
ClinPharm);	Indianapolis,	design in Part			0.8 mg duloxetine single	B)	including maximal plasma
Complete;	IN	B of the			dose given intravenously		concentration (C _{max}), time to
Full		study			over a 30-minute period;	Duloxetine HCl	C_{max} (T_{max}), area under the
	1 center				Part B: 10-mg duloxetine	as encapsulated	curve (AUC), plasma clearance
					single dose given	enteric-coated	(CL or CL/F), volume of
					intravenously over a	pellets (20%)	distribution ($V_{\lambda Z}$ or $V_{\lambda Z}/F$),
					30-minute period	equivalent to	elimination rate constant (λ_z) ,
						60-mg	elimination half-life (11/2), mean
					Oral duloxetine: Parts A	duloxetine	absorption time (MAT), mean
					and B: 60-mg duloxetine		residence time (MRT), and
					single dose given orally		absolute bioavailability (F).
					as 60-mg capsule one		
					week after the IV dose		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC-	Michael H.	Open-	N = 12	Adults 18 to 64	1 day/	Duloxetine:	SafetyVital signs, ECGs, clinical
HMAX;	Skinner, M.D./	label,	(M = 10,	years of age:	20 mg single	20-mg	laboratory tests, clinical
Original	Lilly Laboratory	inpatient	F = 2	Those with	dose, given	capsules	assessment and adverse events.
submission	for Clinical	study		moderate liver	orally in the		
(not	Research		Mean age	cirrhosis (Child-	morning, two		Pharmacokinetic Standard single-
included:	Indianapolis, IN		(healthy	Pugh B score 7-9)	hours before		dose pharmacokinetic parameters
ClinPharm);	USA		subjects):	and healthy	breakfast;		for duloxetine and metabolites.
Complete;			46 years	subjects	subjects fasted		
Full	Robert A. Branch		(24-63)		from midnight		
	M.D/				prior to dosing		
	Univ. of Pittsburgh		Mean age		and for at least 2		
	Medical Center,		(cirrhotic		hours after		
	Pittsburgh, PA/		subjects):		dosing		
	2 centers		44 years		,		
			(20-60)				

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC- HMBJ; Original submission (not included: ClinPharm); Complete; Full	William B. Smith, M.D./ New Orleans Center for Clinical Research and Randall R. Stoltz, M.D./ West Pharmaceutical Services Evansville, IN	Open-label, single dose study	N = 24 (M = 20 F = 4) End-stage renal disease subjects: Mean age: 41 years (26-55) Healthy subjects Mean age: 38.9 years (19-61)	Adults with end stage renal disease (18-70 years) requiring hemodialysis for at least 3 months; and healthy control subjects (18-75 years, age- and gender-matched) with normal renal function	Duloxetine: 60 mg single dose (3 x 20-mg capsules) after min. 3-hour fasting, between dialysis sessions	Duloxetine: 20-mg (free base) capsules	SafetyECGs, orthostatic blood pressure and pulse rate measurements, body weight, vital signs, clinical laboratory testing PharmacokineticStandard single-dose pharmacokinetic parameters for duloxetine and metabolites.
F1J-LC- SAAY; Original submission (not included: ClinPharm); Complete; Full	H. Wayne Hutman, M.D./ South Florida Bioavailability Clinic Miami, FL/ 1 center	Open-label, single-dose, inpatient, parallel group study	N = 24 F Elderly Mean age: 68.6 years (65-77) Healthy Mean age: 41.6 years (32-50)	Elderly females ≥65 years; and healthy females 18 to 50 years; within 30% of ideal body weight	40 mg single dose (2 x 20 mg capsules)	Duloxetine: 20-mg capsules	SafetyVital signs (systolic and diastolic blood pressure, heart rate), ECG, clinical laboratory tests (clinical chemistry, hematology), and adverse events. PharmacokineticStandard single-dose pharmacokinetic parameters for duloxetine.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type F1J-LC- HMAZ; Original submission (not included: ClinPharm); Complete; Full	Study investigator/ Coordinating center / Number of center(s) Michael H. Skinner, M.D./ Lilly Laboratory for Clinical Research Indianapolis, IN / 1 center	Design Open-label, fixed- sequence, crossover study	Number of subjects and sex/ Age range N = 16 M= 7 F = 9 Age range: 21-63 years	Diagnosis and criteria for inclusion Healthy subjects 18-65 years of age with BMI less than 30 kg/m ²	Duration of duloxetine treatment/ Regimen Desipramine: 2 single 50- mg oral doses; Duloxetine 40 mg q12h x 6 days; Duloxetine 60 mg q12h x 15 days desipramine 50 mg alone and then with 60 mg BID duloxetine	Duloxetine test product and strength (mg base) Duloxetine: 20- mg capsules with enteric-coated pellets	Criteria for Evaluation SafetySafety parameters included vital signs, ECGs, clinical laboratory tests, and adverse events
F1J-LC- HMBA; Original submission (not included: ClinPharm); Complete; Clin-Pharm Study Report	Michael Skinner, M.D./ Lilly Laboratory for Clinical Research Indianapolis, IN	Randomized, single-dose, single-blind, three-period crossover study	N = 16 M = 6 F = 10 Age 21-58	Healthy subjects 21-65 years of age with BMI less than 30 kg/m ²	Psychomotor and cognitive function measured under baseline conditions and after three single-dose treatment conditions: Ethanol plus duloxetine placebo; ethanol placebo plus duloxetine 60 mg; and ethanol plus duloxetine 60 mg	Duloxetine: 20-mg capsules	SafetySafety parameters included vital signs, ECGs, clinical laboratory tests, and adverse events. PharmacokineticPlasma duloxetine concentrations and blood ethanol concentrations of ethanol. (No formal PK analyses were performed) PharmacodynamicMeasures included Alcohol Effects Scale questionnaire and Automated Performance Test System

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-FW-	Stephen D.	Open-label,	N = 14 M	Healthy	4 single doses of	Duloxetine	SafetyPhysical examination, vital
HMBB;	Wise, B.Med.	randomized,		males or	40 mg duloxetine	capsules:	signs, ECGs, clinical laboratory
Original	Sci. MB.	4-period	24 years	females 21	(2 x 20 mg) in the	20 mg	evaluations.
submission	ChB.MRCP.	crossover	(21-38)	to 50 years	presence and		PharmacokineticStandard single-dose
(not	MFPM/	study		of age with	absence of		pharmacokinetic parameters for
included:	Lilly-NUS			BMI 19-30	famotidine, an		duloxetine.
ClinPharm);	Centre for			kg/m ²	antacid (Mylanta),		
Complete;	Clinical				and activated		
Full	Pharmacology				charcoal. There		
	Pte. Ltd.,				were four		
	Singapore/				randomiżed		
	1 center				sequences of		
					administration.		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-BD-	J. P. Macher,	Randomized	N = 16	Healthy	8 days/	Placebo and 20-	SafetyVital signs, ECGs, clinical
HMBD; Original	M.D./ Forenap	double- blind,	M = 8 $F = 8$	male and females 18	Duloxetine 60 mg BID x 7.5 days;	mg capsules	laboratory tests, adverse events. Pharmacokinetic—Standard multiple-
submission	Centre	balanced,		to 55 years	Placebo BID x 7.5	Placebo	dose pharmacokinetic parameters for
(not	Hospitalier,	two-period,	Mean age:	of age	days;		duloxetine and lorazepam.
included: ClinPharm); Complete; Full	Rouffach, France/ 1 center	cross-over study	M = 32.3 years (26- 44) F = 32.9 (21- 45)		Lorazepam 2 mg BID given concurrently for last 3.5 days	Lorazepam: 2 mg P.O. BID	PharmacodynamicImmediate and delayed word recall assessing cognitive effects; Critical flicker fusion threshold test assessing cortical alertness/information processing; Multiple choice reaction time assessing psychomotor performance; Digit symbol substitution test assessing psychomotor performance; Bond & Lader visual analog scale and subjective evaluation of vigilance and mood.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type F1J-BD- HMBF; Original submission (not included: ClinPharm); Complete; Full	Study investigator/ Coordinating center/ Number of center(s) Jean-Philippe Decourt, M.D./ Parexel Clinical Pharmacology Poitiers, France/ 1 center	Design Randomized single-blind, two-way balanced cross-over study (at least 10-day washout after each period)	Number of subjects and sex/ Age range N = 11 M = 11 F = 0/ Age 23 - 46	Diagnosis and criteria for inclusion Healthy non- smoker male adults with body mass index 18 to 28	Duration of duloxetine treatment/ Regimen 5 days/ Duloxetine 60 mg BID x 4.5 days; Placebo BID x 4.5 days; Aminophylline 250 mg intravenous solution (197.5 mg theophylline)	Duloxetine test product and strength (mg base) Placebo and 20-mg capsules containing duloxetine 10% w/w enteric- coated pellets	Criteria for Evaluation Safety Safety parameters included vital signs, ECGs, clinical laboratory tests, clinical assessment and adverse events. Pharmacokinetic—Standard single-dose pharmacokinetic parameters for theophylline and urinary excretion of theophylline and the metabolites.
F1J-FW- SBAG; Original submission (not included: ClinPharm); Complete; Full	Dr. Stephen D. Wise, B.Med. Sci. MB. ChB. FRCP. FFPM / Lilly-NUS Centre for Clinical Pharmacology Pte. Ltd., Singapore/ 1 center	Open-label, sequential two-period study (separated by 4-day washout period)	N = 12 M = 12 F = 0 / Age 21-27	Healthy adults with body mass index (BMI) 19- 30 kg/m ²	10 days/ Duloxetine 40 mg QD x 4.5 days; Paroxetine 20 mg QD x 20 days with concomitant duloxetine from days 12 through 16.	20-mg capsules containing duloxetine 10% w/w enteric- coated pellets	Safetyphysical examination, vital signs, ECGs, clinical laboratory evaluations Pharmacokinetic—Standard multipledose pharmacokinetic parameters for duloxetine.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-FW-	Dr. Stephen D.	Double-	N= 16	Healthy	5 days, 80 mg/day,	20 mg	Safety - Physical examination, vital
SBAS;	Wise. B. Med.	blinded,		CYP2D6	given as two	Capsules	signs, 12-lead electrocardiogram
Original	Sci. MB. ChB.	randomized,	M=3	extensive	divided 40-mg	containing	(ECG) and adverse events.
submission	FRCP. FFPM/	2 period	F= 13	metabolizer	doses (2x20 mg	duloxetine	Pharmacokinetics – Steady-state
(not	Lilly-NUS	crossover		males or	capsules)	20% w/w	pharmacokinetic parameters for
included:	Centre for	study.	Age 21-65	females	WED.	enteric-	tolterodine and its 5-hydroxymethyl
ClinPharm);	Clinical				5 days /Duloxetine	coated pellets	metabolite (5-HM) including maximal
Complete;	Pharmacology				Placebo: for one		plasma concentration (C _{max,ss}), time
Abbreviated	Pte. Ltd.,				period		to $C_{\text{max,ss}}$ ($T_{\text{max,ss}}$), area under the
	Singapore/						curve (AUC _{t,ss}), elimination rate
	1 center				5 days		constant (λ_z) and half-life $(t_{1/2})$.
					/Tolterodine: for		Apparent plasma clearance and
					each of the two		volume of distribution were only
					periods		evaluated for tolterodine.
							Predose and 12-hour concentration
							values of duloxetine were used to
							assess steady-state attainment.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
Fl J-LC-	Mark J.	Seven	N = 14	Healthy male	1 day;	Duloxetine	Safety and
HMAO;	Goldberg, M.D.	different	M = 14	subjects	Duloxetine 20-mg enteric-coated tablet PO in	5 mg	Tolerability
Original		single-			the morning (fasting).	20 mg	
submission	Lilly	dose			Duloxetine 20-mg enteric-coated tablet PO at		
(not	Laboratory for	treatment			bedtime (fasting).		
included:	Clinical	regimens			Duloxetine 20-mg capsule containing enteric-		
ClinPharm);	Research				coated pellets PO in the morning (fasting).		
Complete;					Duloxetine 20-mg capsule containing enteric-		
Abbreviated	One				coated pellets PO in the morning (fasting).		
					Duloxetine four 5-mg capsules containing		
					enteric-coated pellets PO in the morning		
					(fasting).		
					Duloxetine 20-mg capsules containing		
					enteric-coated pellets PO in the morning		
					before a standardized breakfast (fed).		
					Duloxetine four 5-mg capsules containing		
					enteric-coated pellets PO in the morning		
					before a standardized breakfast (fed).		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study	Study investigator/		Number of		+		
Identifier;	Coordinating		subjects	Diagnosis		Duloxetine test	
Location;	center		and sex/	and	Duration of duloxetine	product and	
Status;	Number of		Age	criteria for	treatment/	strength	Criteria for
Report Type	center(s)	Design	range	inclusion	Regimen	(mg base)	Evaluation
F1J-LC-	D. Hoelscher,	Randomized,	Enrolled:	Healthy	Total duration for each	Duloxetine 60 mg,	Safety – Vital signs, body
HMCG;	M.D.	double-	117 F	female	study arm was up to 51	120 mg, 160 mg,	weight, 12-lead ECGs, clinical
5.3.4.1.1;	PPD	blind, two-		subjects	days. Following a	and 200 mg given	lab evaluations, physical
Complete;	Development,	way	18-75	18-75 years	baseline day, duloxetine	orally, twice daily	exams, psychiatric evaluation,
Full	Austin, TX	crossover	years		and placebo were	(as 20 mg capsules	and AE monitoring.
	USA	study with			administered twice daily	and 30 mg	
		positive			in two separate periods of	capsules)	Pharmacokinetic – Plasma
	B. Laura,	control			up to 22 days each, and		concentrations of duloxetine
	M.D., West				moxifloxacin was given		and its two major metabolites.
	Pharmaceutical				as a single dose. A		
	Services (GFI),				washout period followed.		Pharmacodynamic – Four
	Evansville, IN				v		replicate 12-lead ECG QT
	USA						interval measurements
							obtained at each of four time
	P. Leese,						points on a baseline day and
	M.D.,						on the fourth day of dosing of
	Quintiles,						both duloxetine and placebo at
	Lenexa, KS						the two highest dose levels,
	USA et al						and 2 and 6 hours after dosing
	G						with moxifloxacin.
	Six study				No.		
	centers						

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC- HMAF;	D.L. Hyslop, M.D.	Open-label metabolic	N = 4 $M = 4$	Healthy subjects	1 day.	Duloxetine 20 mg/day (given one	Safety, including vital signs and clinical lab tests
Not included (ClinPharm); Complete; ClinPharm Study Report	U.S. Schwertschlag, M.D., Ph.D. Lilly Laboratory for Clinical Research	study	IVI — 4	subjects	et e	time)	and chinical lab tests
	One center				9		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-BI- SBCG; Not included (ClinPharm); Complete; Abbreviated	Dr. K. Rathgen Human Pharmacology Centre Boehringer Ingelheim Pharma GmbH & Co. KG D-88397 Biberach / Riss Clinical Research One center	Randomized, placebo controlled, double blind trial	N = 32 (planned): 12 dosed at 40 mg, 12 at 100 mg, and 8 placebo 32 randomiz ed26 completed	Healthy female subjects ≥ 40 years. BMI ≥ 18.5 and ≤ 29.9 kg/m²	7 days Duloxetine 40 mg or 100 mg BID	Duloxetine 20 mg capsules (5 capsules twice daily or 2 capsules twice daily) and 3 capsules placebo twice daily given orally.	Safety: Tolerability (adverse events), ECG, systolic and diastolic blood pressure, routine labs.

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type F1J-LC- HMAD; Original submission (not included: ClinPharm); Complete; Clin-Pharm. Study Report	Study investigator/ Coordinating center Number of center(s) L. Hyslop, M.D. U.S. Schwertschlag, M.D., Ph.D. Lilly Laboratory for Clinical Research One	Design Single-blind, placebo- controlled, parallel design	Number of subjects and sex/ Age range N = 25 M = 25	Diagnosis and criteria for inclusion Healthy male subjects	Duration of duloxetine treatment/ Regimen 14-day courses of placebo or duloxetine (2.5, 5, 10, 20, or 40 mg)	Duloxetine test product and strength (mg base) Duloxetine oral, enteric-coated in the following dose strengths: 2.5 mg/day, 5 mg/day, 10 mg/day, 20 mg/day, 40 mg/day	Criteria for Evaluation Safety (including vital signs, ECG, and clinical lab tests)
F1J-LC- HMAA; Original submission (not included: ClinPharm); Complete; Synopsis	U.S. Schwertschlag, M.D., Ph.D., et al Lilly Laboratory for Clinical Research One	Single-blind, placebo- controlled (dose escalation study)	N = 3 M = 3 21-55 years	Healthy adult males	Single dose	Duloxetine 5-mg capsules 10-mg capsules 25-mg capsules Placebo	Safety, Pharmacokinetics, drug metabolism, and pharmaco- dynamics

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-FW- SBAZ; Not included (PK-SUI) Complete; Full Study Report	Alan G Moskwa, MD CMAX, a Division of Institute of Drug Technology Australia Limited One	A two-part study involving single-dose duloxetine administration, conducted in a randomized, three-period crossover design and a multiple dosing period. Study evaluated 2 ethnic groups of Japanese and Caucasians	Part A Japanese subjects: Male 10, Female 15, Caucasian subjects: Male 12, Female 14, Part B Japanese subjects: Male 14, Female 6, Caucasian subjects: Male 15, Female 6 20-50 Years	Healthy Japanese Caucasian	Part A: Duloxetine HCl: 20 mg, 40 mg and 60 mg were given as 3 single doses to each subject Part B: Duloxetine HCl: 20 mg BID or 40 mg BID	Duloxetine 20 mg	Safety and Pharmacokinetics
F1J-LC- HMCC; Original submission (not included: ClinPharm); Complete; Synopsis	Michael H. Skinner, M.D., Pharm.D. Lilly Laboratory for Clinical Research One	Randomized, open label 4-arm sequential treatment crossover study	N = 16 (all males) 18-65 Years	Healthy male smokers	4 weeks Duloxetine 60 mg orally, single dose (two occasions) Duloxetine: 10 mg intravenous solution, single dose (two occasions)	Duloxetine capsules, 20 mg Duloxetine IV, 10 mg	Drug-Drug Interaction Study

Table 5.2.

Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-LC- HMAE; Original submission (not included: ClinPharm); Complete; Full	D. L. Hyslop, MD U. S. Schwertschlag, MD, PhD Lilly Laboratory for Clinical Research One	Double-blinded, randomized, three-way crossover study	N = 12 M = 12	Healthy male subjects	68 days (duloxetine 5 mg QD for 14 days; duloxetine 20 mg QD for 14 days; placebo for 40 days)	Duloxetine (low dose): 5.0 mg/day, Duloxetine (high dose): 20.0 mg/day, Placebo,	Safety
F1J-MC- SAAN; Not included (ClinPharm); Complete; Abbreviated	Julie E. Turcotte, M.D.; Guy Debonnel, M.D.; Claude de Montigny, M.D., Ph.D.; Chantal Hebert, R.N.; and Pierre Blier, M.D., Ph.D.	Double-blinded (only for duloxetine and placebo arms)	N = 27 M = 27	Healthy male subjects without history of psychiatric disorder	Fourteen (14) days, with assessment conducted at baseline, Day 7 and Day 14	Duloxetine 20 mg/day Duloxetine 60 mg/day (Comparators: clomipramine 100 mg/day, placebo)	Effects of duloxetine on serotonin and norepinephrine reuptake

Duloxetine hydrochloride (LY248686)

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center/ Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
FlJ-LC-	James C. Kisicki,	single-	N = 12	Healthy male	18 days	Duloxetine	Drug-Drug
HMAJ;	MD	blinded,	M = 12	subjects	Treatment 1: One capsule of Restoril _	20 mg	Interaction
Original	Harris	sequential			30 mg and one tablet duloxetine		Study
submission	Laboratories, Inc.	dosing	19-55 years		placebo as a	Restoril	
(not					combination dose with 240 mL water at	30 mg	
included:	One				11:00 PM.		
ClinPharm);					Treatment 2: One tablet duloxetine 20	Placebo	
Complete;					mg and one capsule temazepam		
Clinical					placebo as a		
Study					combination dose with 240 mL water at		
Summary					11:00 PM.		
					Treatment 3: One tablet duloxetine 20		
					mg and one capsule Restoril _ 30 mg		
				1	as a		
					combination dose with 240 mL water at		
					11:00 PM.		

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (continued)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
F1J-FW- HMCE; not included (ClinPharm); Complete;	Dr. Stephen D. Wise Lilly-NUS Centre for Clinical Pharmacology Pte Ltd.	Open-label, randomized, single-dose, two- period, crossover study	N = 24 21-60 years	Healthy men and women within range of	Single dose of the reference and test lots in a randomized sequence, with approximately 1 week	Duloxetine (given orally as single 60 mg capsule)	Bio- equivalence of duloxetine capsules produced at
Clin-Pharm/ Exploratory Study Report	One			Body Mass Index 18.5- 29.9 kg/m ²	between the doses		two sites
F1J-LC- SBCR; Not included (ClinPharm); Complete; Clinical	Michael A. Turik, MD Lilly Laboratory for Clinical Research	Subject-blind, randomized, two- way balanced crossover study	N = 58 F = 58 18-65 years	Healthy, nonsmoking female subjects 18- 65 years	Duloxetine twice daily (BID) for 4-1/2 days	Duloxetine 60 mg BID (given as three 20mg capsules)	Drug-Drug Interaction Study
Pharmacol. Study Report			927				

Table 5.2. Tabular Listing of Clinical Pharmacology Studies (concluded)

Study Identifier; Location; Status; Report Type	Study investigator/ Coordinating center / Number of center(s)	Design	Number of subjects and sex/ Age range	Diagnosis and criteria for inclusion	Duration of duloxetine treatment/ Regimen	Duloxetine test product and strength (mg base)	Criteria for Evaluation
FlJ-LC-	Dr. Chris Mills	Open-label,	N = 6	Lactating women	Duloxetine 40 mg	Duloxetine 40	Pharmaco-
SBCS; Not	Phase 1 Clinical Trials	multiple-dose	(planned)	who are weaning	twice daily (at 12-	mg BID (given	kinetics of
included	Unit, Old Convent of	study		their infants and are	hour intervals) for 3	as two 20 mg	duloxetine in
(ClinPharm);	Notre Dame			willing to	days, followed by a	capsules)	plasma and
ongoing;				discontinue nursing	final dose of		breast milk of
N/A				during and after	duloxetine 40 mg on		lactating
2				study evaluation	Day Four		women
F1J-LC-		Double-blind,	N ≥18 (number	Healthy Chinese	Single dose of	Duloxetine 60	Pharmaco-
HMEE;		randomized,	planned for	subjects	duloxetine 60 mg	mg (two 30 mg	kinetics of
not included		placebo-	duloxetine	or .	(given as two 30 mg	capsules)	duloxetine in
(ClinPharm);		controlled,	completion)		capsules) on Day 1,		healthy
ongoing		single-period			followed by		Chinese
N/A		study			duloxetine 60 mg QD		subjects
					for 6 days		

Table 5.2.

Tabular Listing of Clinical Studies (Studies Conducted by Shionogi & Co.)

Study	Location	Study	Location
F1J-JE-102G	Included in original submission (not included here)	F1J-JE-321G (compassionate use phase)	Original submission
F1J-JE-221G	Original submission	F1J-JE-322G	Original submission
FlJ-JE-301G	Original submission	F1J-JE-323G	Original submission
FlJ-JE-311G	Original submission	F1J-JE-324G	Original submission
F1J-JE-312G	Original submission	F1J-JE-401G (Urge Study)	Original submission
F1J-JE-313G	Original submission	F1J-JE-1008	Original submission
F1J-JE-321G (acute phase)	Original submission	F1J-JE-1009	Original submission