A Complimentary Relationship: Psychotherapy and Medication for Anxiety and Depressive Disorders

By Jack M. Gorman, MD

When an internist diagnoses type 2 diabetes mellitus or essential hypertension in a patient, it is very likely that the initial recommendation for therapy will not include a prescription for medication. Unless the situation is severe or emergent, the physician is most likely to recommend a regimen of diet, exercise, and stress management and ask the patient to return for a reevaluation in several weeks. Only if the attempt at behavioral change is not successful will medication likely become part of the regimen. Even so, the attempt at lifestyle management will be reinforced as part of the ongoing management of the illness.

This does not mean that physicians believe that diabetes and hypertension are purely "psychological" issues. Rather, they understand that emotion and behavior have a profound impacts on somatic function, that the sensitivity of cells to insulin or the caliber of blood vessels is determined by many factors, some of which are controlled by the central nervous system.

It is ironic, then, that many psychiatrists seem to lost faith in these essential truths. Not that long ago, psychotherapy reigned as the champion of first-line interventions in psychiatry and medications were looked upon with suspicion. Today, of course, we know that psychiatric medications are safe and effective, often necessary to manage serious illnesses, and sometimes life-saving. Somehow, however, the fact that psychotherapies are also safe and effective and sometimes superior to medication management is insufficiently acknowledged.

Nowhere is this more evident than in the treatment of anxiety disorders. I am constantly asked to lecture on the treatment of anxiety and depression, but the expectation is always that I will review what is known about the pharmacologic management of these common conditions and perhaps give clinicians and patients hope by describing what is in the pipeline of the pharmaceutical companies. I am always glad to do this, because the pharmacologic management of anxiety disorders is effective and there are fascinating molecules now in development that promise even better outcomes.

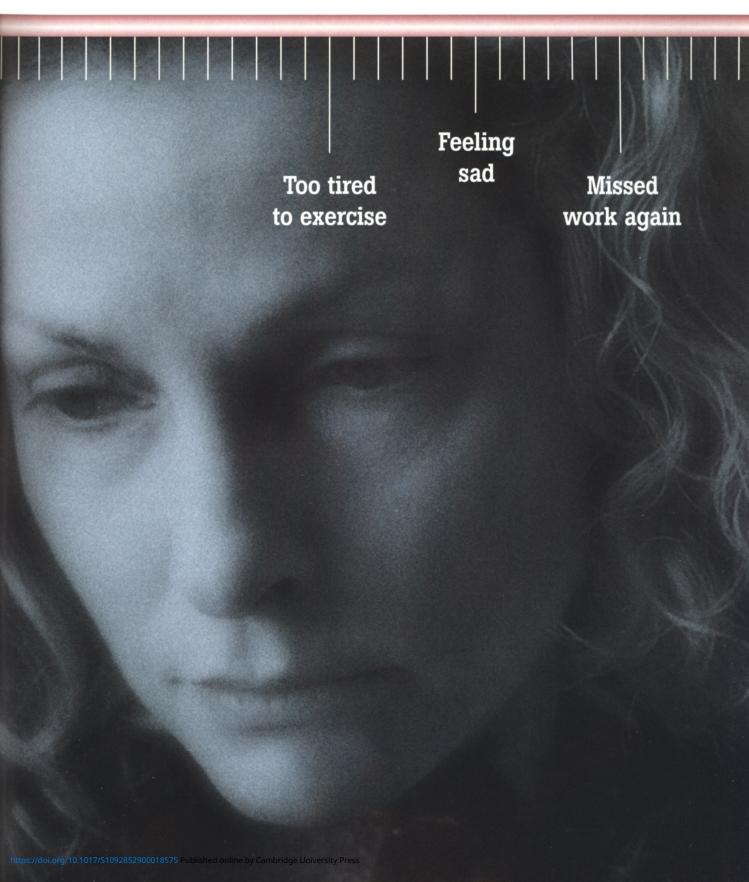
I am also astonished to realize that psychiatrists do not have the same enthusiasm to learn about psychosocial interventions. The simple fact is that for every anxiety disorder and for depression as well—there is now empirical evidence that at least one form of psychotherapy is at least as effective for most cases as medication. Furthermore, psychotherapy research has consistently shown that in some situations psychotherapy is more durable than medication management, leading to longer duration of symptom-free status.

We are delighted that Edna Foa, PhD, and Martin Franklin, PhD, along with their colleagues at the University of Pennsylvania in Philadelphia, have collected the data that make the aforementioned assertions undeniable. It is my opinion that every patient with an anxiety disorder should be told that both cognitive-behavioral psychotherapy and medication have been proven to work in rigorously controlled research studies; that there is no evidence upon which to decide which is better; that cognitive-behavioral psychotherapy has fewer adverse side effects; and that after treatment completion patient treated with psychotherapy tend to stay well longer than those who have been treated with medication. The patient should be given a choice of which modality to accept, or to have both. One model that our group and others is currently studying is to offer cognitive-behavioral therapy to all patients first, reserving medication for those who do not derive adequate benefit. It seems that we may have learned something about psychotherapy and behavior from our internal medicine colleagues.

I would also like to mention that CNS Spectrums is now receiving many very good, unsolicited research and review articles from authors around the world. This is a welcome development we wish to encourage. We are particularly interested in receiving articles from both psychiatrists and neurologists and we will work with authors for whom English is not their first language. In this way, we hope to continue to be the forum in which both disciplines learn about the best in each other's work and that brings to our attention the fine work being done all around the world.

We want to take this opportunity to alert our readers to a new feature in *CNS Spectrums*—letters to the editor will now be accepted. All letters will be peer-reviewed and edited, so that acceptance of a letter is not guaranteed, but we very much want to hear from you and will make every effort to publish as many letters as possible. We will entertain letters that comment on articles already published in *CNS Spectrums*, interesting case reports, and new ideas. In all cases, letters should not exceed 500 words in length and should not include figures or tables.

How to measure your patients' depression





How to measure Well-tolerated therapy in a powerful SSRI

LEXAPRO 10 mg/day demonstrated comparable efficacy to CELEXA 40 mg/day¹

Significantly improved depression for many patients beginning at week 1 or 2*1

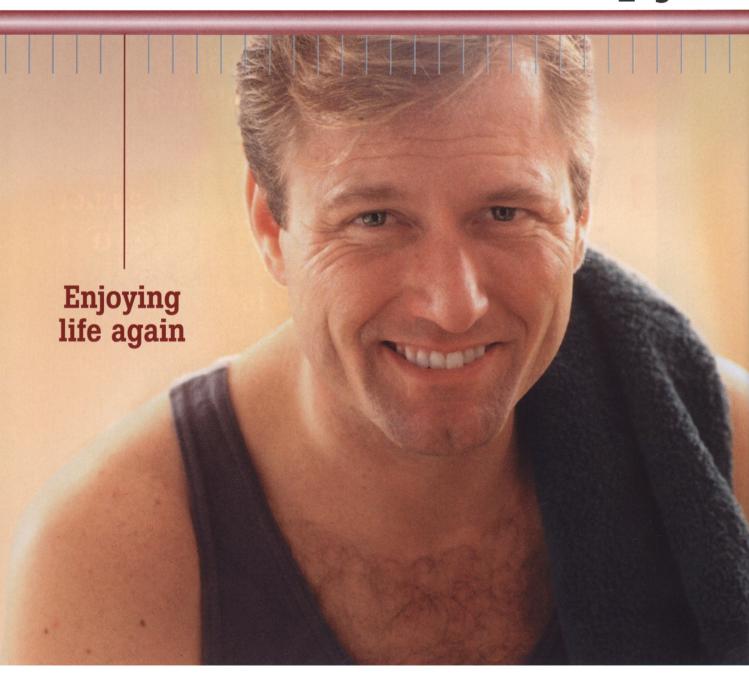
Effectively treats anxiety symptoms associated with depression¹

Introducing
the isomer of CELEXA[™]
(citalopram HBr)



How to measure

Powerful SSRI therapy



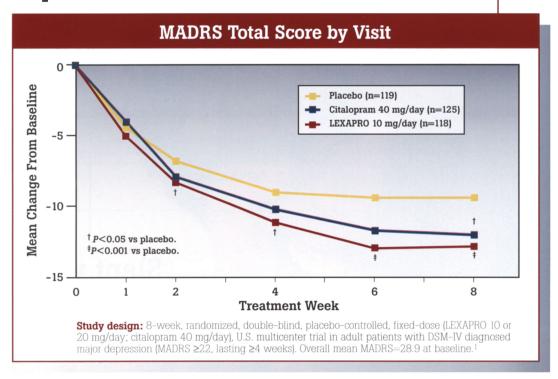
*Full antidepressant effect may take 4 to 6 weeks.

LEXAPRO is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs) or in patients with a hypersensitivity to escitalopram oxalate or any of the ingredients in LEXAPRO. As with other SSRIs, caution is indicated in the coadministration of tricyclic antidepressants (TCAs) with LEXAPRO.

Please see brief summaries of prescribing information for LEXAPRO and CELEXA at end of advertisement.

In the treatment of major depression

LEXAPRO 10 mg/day significantly improved depression*1,2



LEXAPRO 10 mg/day demonstrated comparable efficacy to CELEXA™ (citalopram HBr) 40 mg/day¹



How to measure

Well-tolerated therapy

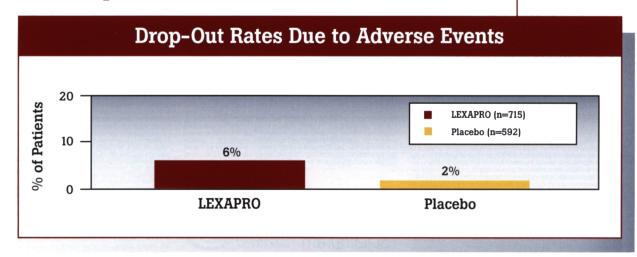


The most common adverse events reported with LEXAPRO vs placebo (approximately 5% or greater and approximately 2X placebo) were nausea, insomnia, ejaculation disorder, somnolence, increased sweating, and fatigue.

Please see brief summaries of prescribing information for LEXAPRO and CELEXA" (citalopram HBr) at end of advertisement.

References: I. Burke WJ, Gergel I, Bose A. Fixed-dose trial of the single isomer SSRI escitalopram in depressed outpatients. *J Clin Psychiatry*. 2002;63:331-336. **2.** Data on file, Forest Laboratories, Inc. **3.** LEXAPRO [package insert]. St. Louis, Mo: Forest Pharmaceuticals, Inc: 2002. In the comprehensive safety database*

Low drop-out rates due to adverse events³



• LEXAPRO 10 mg/day had drop-out rates due to adverse events comparable to placebo³

Favorable side-effect profile

- Only one adverse event occurred at a rate above 10%3
- LEXAPRO patients experienced no clinically important change in body weight³

Simple 10 mg/day starting dose for all patients³

• 10 mg/day starting and maintenance dose for most patients

*Includes patients treated with 10 to 20 mg/day.





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LEXAPRO™ (escitalopram oxalate) TABLETS

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LEXAPROTM

(escitalopram oxalate) TABLETS

Category C in a rat embyro/fetal development study, oral administration of escitalopram (56, 112 or 150 mg/kg/day) to pregnant animals during the period of organogenesis resulted in decreased fetal body weight and associated delays in ossification at the two higher doses (approximate) y 5.55 times the maximum recommended human dose [NRH10] ot 20 mg/day on a body surface area [mg/mr] basis. Maternal toxicity (clinical signs and decreased body weight gain and food consumption), mid at 55 mg/kg/day, was present at all dose levels. The developmental no effect dose of 56 mg/kg/day; sapproximately, 28 times the MRH10 on a mg/m² basis. No teratopenicity was observed any of the doses setseted (as high as 75 times the MRH10 on a mg/m² basis. No teratopenicity development and through wasing, slightly increased offspring mortality and growth retardation were noted at 48 mg/kg/day which is approximately 24 times the MRH10 on a mg/m² basis. Slight maternal toxicity (clinical signs and decreased body weight gain and food consumption) was seen at 1this dose. Slightly increased offspring mortality was seen at 24 mg/kg/day. The no effect dose was 12 mg/kg/day which is approximately 50 times the MRH10 on a mg/m² basis. In animial reproduction studies, actemic citalogram has been shown to have adverse effects on embryo/fetal and post-natal development, including tertogenic effects, when administered dtoses greater than human therapeutic doses. In the control of the production of the production and the production of the productio

Lexapro escitalopram oxalate

without first grouping similar types of events into a smaller number of standardized event categories. In the tables and tabulations that follow, standard World Health Organization (WHO) terminology has been used to classify reported adverse events. The stated frequencies of adverse events has been used to classify reported adverse events. The stated forequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type itself. An event was considered treatment-regent if il occurred for the first time or worsened while receiving thereopy following baseline evaluation. Adverse Events Associated with Biosontinustion of Treatment Among the 715 depressed platents who received LEVAPRO™ in piacebo-controlled trials. 6% discontinued treatment due to an adverse event experience of the standard of

TABLE 1 Treatment-Emergent Adverse Events: Incidence in Placebo-Controlled Clinical Trials (Percentage of Patients Reporting Event) LEXAPRO™ Placebo (N=715) (N=592) Body System / Adverse Event Autonomic Nervous System Disorders Dry Mouth Sweating Increased Central & Peripheral Nervous System Disorders 5% 2% 5% 3% Dizziness Gastrointestinal Disorders Nausea Diarrhea Constipation 8% 3% 3% 2% Constitution Indigestion Abdominal Pain General Indigestion Abdominal Pain General Indigestion Psychiatric Disorders Insonnia Somnolence Appetite Decreased Libido Decreased Respiratory System Disorders Rhinitis Sinusitis 5% 5% 9% 6% 3% 3% 4% 2% 1% 1% 5% 3% 4% 2% 9% 3% 2%

"Events reported by at least 2% of patients treated with LEXAPRO™ are reported, except for the

LEXAPRO™

LEXAPRO**

(escilalopram trailate) TABLETS

following events which had an incidence on placebo ₂ LEXAPRO** headache, upper respiratory trad infection, back pain, pharyingtis, inflicted mury, anxiety. Primarily ejaculatory delay 'Denominator used was for males only (the 25 LEXAPRO***). ** 185 placebo, Devenmantor used was for females with (the 490 LEXAPRO****). ** 185 placebo, Devenmantor used the sate for females with (the 490 LEXAPRO****). ** 185 placebo, Devenmantor used the sate of the common of the sate of the common of the sate of the common of the sate of the sate of the common of the sate of the sate of the common of the sate of the common of the sate of the sa

TABLE 2 Incidence of Sexual Side Effects in Placebo-Controlled Clinical Trials				
Adverse Event	LEXAPRO™	Placebo		
·	In Males Only			
	(N=225)	(N=188)		
Ejaculation Disorder (primarily ejaculatory delay)	9%	<1%		
Decreased Libido	4%	2%		
Impotence	3%	<1%		
	In Females Only			
	(N=490)	(N=404)		
Decreased Libido	2%	<1%		
Anorgasmia	2%	<1%		

In Females Only

(Na-490)

Ry Only

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FOREST PHARMACEUTICALS, INC St. Louis, Missouri 63045



Rx only

Brief Summary: For complete details, please see full prescribing information for Celexa. INDICATIONS AND USAGE Celexa (citalopram HBr) is indicated for the treatment of depresson. The efficacy of Celexa in the treatment of depression was established in 4-6 week controlled trails of outpatients whose diagnoses corresponded most Cosely to the DSM-III and DSM-III-R category of major depressive disorder. A major depressive episode (DSM-IV) implies a prominent and relatively persistent nearly every day for at least 2 weeks depressed or dependence of the company of t patients were excluded from clinical studies during the product's premarketing testing. In clinical trials of Celeva, seizures occurred in 0.3% of patients treated with Celeva is rate of one patient per 89 years of exposure) and 0.5% of patients treated with Celeva is rate of one patient per 80 years of exposure). Like of patients treated with placebo (a rate of one patient per 90 years of exposure) and 0.5% of patients treated with placebo (a rate of one patient per 90 years of exposure). Evolved residents placed in the prossibility of a suicide attempt is interent in depression and may persist until significant remission occurs. Close supervision of high-risk planters should accompany initial from therapy. Prescriptions for Celevas should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. Interference With Coprilive and Morto Performance in studies in normal volunteers. Celeva in doses of 40 mg/day did not produce impairment of intellectual function or psychomotro performance. Because any psychoactive drug may impair judgement, thinking, or motor skills, however, patients should be cautioned about operating hazeradous machinery, including automobiles, until they are reasonably orethin that Celeva therapy does not affect their ability to engage in such activities. Use in Patients With Concomitant Illiness Clinical experience with Celeva in patients with other systemic lineses is limited. Caution is advisable in using Celeva in patients with diseases or conditions that produce aftered metabolism or hemodynamic responses. Celeva has not been systematically evaluated in patients with other control of control or unstable heard disease. Patients with these diagnoses were generally excluded from clinical studies during the products pre-marketing testing. However, the electrocardiograms of 1116 patients who received Celeva in clinical trials were evaluated, and the data indicate that Celeva is not associated with the development of clinica plasma lithlum levels should be monitored with appropriate adjustment to the lithium dose in accordance with standard clinical practice. Because lithium may enhance the serrotovergic effects of citalogram, caution should be exercised when Celeva and lithium are coadminist treed. Theographical properties of celeval (40 mg/dx) for 21 days) and the CYP1A2 substrate theophyline isingle dose of 300 mg) did not affect the pharmacokinetics of incligoram was not evalu-ated. Sumatinglam — There have been rare postmarketing reports describing patients with weakness, hypertelexia, and incoordination following the use of a selective serotoxin reciplake inhibitor (SSR) and sumatinglam. It concomitant treatment with sumatinglam and an SSRI (ap. Higwetter furnowance provides servation considerants) is directly wearrant of anomodate. weakness, hypereflexia, and incoordination following the use of a selective serotion reuptake inhibitor (SSR) and sumariptan. If concomitant treatment with sumariptan and an SSRI (eg.) flowether, flowcommine, providence, serbaline, chalopram) is clinically warranted, appropriate observation of the patient is advised <u>Warfarin</u>. Administration of 40 mydday Celeza for 21 days did not administration of 40 mydday for days did not administration of 40 mydday for days and continuation of 40 mydday for 35 days id not significantly affect the pharmacokinetics of warfarin. a CPF344 substate. Prothrombin time was increased by 5%, the clinical significance of which is unknown. Carbamazepine of the 400 mydday for 35 days id not significantly affect the pharmacokinetics of carbamazepine and CPF344 substrate haltough trough clasporam plasma levels were unaffected, given the enzyme-inducing properties of carbamazepine, the possibility that carbamazepine mydrificances the declarance of citaloparam should be considered if the two drugs are coardinnistered. Irrazolam.—Combined administration of Celeza (140 mg) and for days and carbamazepine mydrificances the declarance of citaloparam should be considered if the two drugs are coardinnistered. Irrazolam.—Combined administration of Celeza (140 mg) and ketoconazole (200 mg) decreased the C_{max} and AUC of ketoconazole to ethic citaloparam. (27934 aud (17921) inhibitors — In vitro studies indicated that CPF344 and CPF2C19 inhibitors—In vitro studies indicated that CPF344 and CPF2C19 inhibitors—In

(citalogram HBr) Tablets/Oral Solution

CELEXA**

(citalopram HBr)

Tablets/Cral Solution

Nevertheless, caution is indicated in the coadministration of TCAs with Celexa. Electroconvulsive Therapy (ECT) — There are no clinical studies of the combined use of electroconvulsive therapy (ECT) and Celexa. Pregnancy Pregnancy Category C—There are no adeliver in human to the controlled studies in pregnant women: therefore, calcalopram should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery The effect of Celexa on labor and delivery in humans is unknown. Nursing Mothers As has been found to occur with many other drugs, citalopram is excreted in human breast milk. The decision whether to continue or discontinue either nursing or Celexa therapy should also into account the nisks of cridappram exposure for the infant and the benefits of Celexa treatment for the mother. Pediatric Use Safety and effectiveness in pediatric patients have not been established Gerlarbic Use of 1422 patients in clinical studies of Celexa, 1375 were 60 and over, 1034 were 65 and over, and 457 were 75 and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Most elderly patients between the studies, citalopram AUC was increased by 23% and 30%, respectively, in elderly subjects as compared to younger subjects, and its half-life was increased by 30% and 50%, respectively. 20 mg/day is the recommended dose for most elevity patients. AUPTSE EECTIONS The premarketing development program for Celexa included citalopram exposures in patients and/or normal subjects form 3 different groups distudies. Alexa posures in patients and/or normal subjects from 3 different groups distudies. Alexa posures from mostly open-label, European postmarketing studies. The conditions and durati

Percentage of Patients Discontinuing Due to Adverse E				
Body System/Adverse Event	Celexa (N=1063)	Placebo (N=446)		
General				
Asthenia	1%	<1%		
Gastrointestinal Disorders				
Nausea	4%	0%		
Dry Mouth	1%	<1%		
Vomiting	1%	0%		
Central and Peripheral Nervous System Disorde	ers			
Dizziness	2%	<1%		
Psychiatric Disorders				
Ínsomnia	3%	1%		
Somnolence	2%	1%		
Agitation	1%	<1%		

Somitioneries — 27% — 17

	Percentage of Patients Reporting Even		
	Celexa	Placebo	
Body System/Adverse Event	(N=1063)	(N=446)	
Autonomic Nervous System Disorders			
Ory Mouth	20%	14%	
Sweating Increased	11%	9%	
Central & Peripheral Nervous System Disorders			
Tremor	8%	6%	
Gastrointestinal Disorders		•	
Nausea	21%	14%	
Diarrhea	8%	5%	
Dyspepsia	5%	4%	
Vomitina	4%	3%	
Abdominal Pain	3%	2%	
General		=::	
Fatique	5%	3%	
Fever	2%	<1%	
Musculoskeletal System Disorders			
Arthralgia	2%	1%	
Mvalgia	2%	1%	
Psychiatric Disorders			
Somnolence	18%	10%	
Insomnia	15%	14%	
Anxiety	4%	3%	
Anorexia	4%	2%	
Agitation	3%	1%	
Dysmenorrhea!	3%	2%	
Libido Decreased	2%	<1%	
Yawning	2%	<1%	
Respiratory System Disorders			
Upper Respiratory Tract Infection	5%	4%	
Rhinitis	5%	3%	
Sinusitis	3%	<1%	
Urogenital			
Ejaculation Disorder ^{2,3}	6%	1%	
Impotence ³	3%	<1%	

* Events reported by at least 2% of patients treated with Celexa are reported, except for the following events which had an incidence in placebo > Celexa: headache, asthenia, dizziness,

CELEXA™ (citalopram HBr) Tablets/Oral Solution

Tablets/Oral Solution

Tablets/Oral Solution

Tablets/Oral Solution

George, pack pain. Denominator used was for females only (N=538 Celeva; N=252 placebo). Přimarily ejaculatory delay. Denominator used was for females only (N=425 Celeva;
N=194 placebo). Dose Denendency of Adverse Events. The potential relationship between the
dose of Celeva administered and the incidence of adverse events was examined in a fixed
oses study in depressed patents receiving placebo or Celeva 10, 20, 40, and 80 flow

Jonochkeer's trend test revaied a positive diose response (p< 15) for the following adverse
events: fatigue, importence, isonomis, severating increased, somonence, and yavaning
and Female Sexual Distinction With SSPI's Although changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of a psychietric bisorder, they
any also be a consequence of pharmacologic treatment. In particular, some evidence suggests
that selective serotionin re-uptake inhibitors (SSRIs); can cause such untoward saxual experiences. Relable estimates of the incidence and seventy of untoward experiences involving sexual desire, performance and satisfaction are difficult to obtain, however, in part because
patients and physicians may be reductant to discoss, them. Accordingly, estimates of the inciual users, performance and subsection are unusual users. Performed performance patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling are likely to underestimate their actual incidence. The table below displays the incidence of sexual side effects reported by at least 2% of patients taking Celexa in a pool of placebo-controlled clinical trials in patients with depression.

Treatment	Celexa (425 males)	Placebo (194 males)	
Abnormal Ejaculation (mostly ejaculatory delay)	6.1% (males only)	1% (males only)	
Decreased Libido	3.8% (males only)	<1% (males only)	
Impotence	2.8% (males only)	<1% (males only)	

Impotence
2.8% (males only)
1.5% (males only)
1.6% (males)
1.6%



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