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Drugs (ISSN 0012-6667) is published by Adis International Limited, 41 Centorian Drive, Private Bag 65901, Mairangi Bay, Auckland 10, New Zealand. Annual 2001 subscription price: \$US1995; Japan ¥332 478. Annual subscription consists of 15 issues. (Further subscription information is given at the back of each issue.)

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Vol. 61, No. 1, 2001



Contents

2.7052.0010		
Current Opinion	Emergence of Methicillin-Resistant Staphylococcus aureus with Intermediate Glycopeptide Resistance: Clinical Significance and Treatment Options MJ Rybak, RL Akins	1-
Leading Articles	The Role of Fluoroquinolones in Tuberculosis Today SE Berning	9-
	The Emerging Roles of Non-Nucleoside Reverse Transcriptase Inhibitors in Antiretroviral Therapy <i>G Moyle</i>	19-
Review Articles	Response to Inhaled Nitric Oxide in Premature and Term Neonates <i>T Hoelin, MF Krause</i>	27-
	Cholinesterase Inhibitors for Alzheimer's Disease J Grutzendler, JC Morris	41-
Therapy in Practice	Treatments for Androgenetic Alopecia and Alopecia Areata: Current Options and Future Prospects VM Meidan, E Touitou	53-
Adis New Drug Profile	Inhaled Budesonide/Formoterol Combination JK McGavin, KL Goa, B Jarvis	71-
,,,,,,,	Inhaled Budesonide/Formoterol Combination: Viewpoints L-P Boulet, BJ Lipworth	79-
Adis Drug Evaluations	Fluoxetine: A Review of its Therapeutic Potential in the Treatment of Depression Associated with Physical Illness SM Cheer, KL Goa	81
	Olanzapine: An Updated Review of its Use in the Management of Schizophrenia N Bhana, RH Foster, R Olney, GL Plosker	111-
Errata		

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Roxane Labs., Inc. Exhibit 1013 Page 003



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Fluoxetine

A Review of its Therapeutic Potential in the Treatment of Depression Associated with Physical Illness

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Adis International Limited, Auckland, New Zealand

Various sections of the manuscript reviewed by:

M. Ansseau, Psychiatric Unit, Liege, Belgium; M. Isaac, Psychopharmacology Evaluation Unit, University Hospital, London, England; M. Lader, Institute of Psychiatry, London, England; S.H. Preskorn, Psychiatry Department, University of Kansas School of Medicine, Wichita, Kansas, USA; J.G. Rabkin, Department of Psychiatry, College of Physicians and Surgeons, Columbia University, New York, New York, USA.

Data Selection

Sources: Medical literature published in any language since 1966 on Fluoxetine, identified using Medline and EMBASE, supplemented by AdisBase (a proprietary database of Adis International, Auckland, New Zealand). Additional references were identified from the reference lists of published articles. Bibliographical information, including contributory unpublished data, was also requested from the company developing the drug.

Search strategy: Medline search terms were 'Fluoxetine' or 'LY 110140' and ('cardiovascular-diseases' or 'neoplasms' or 'HIV' or 'acquired-immunodeficiency-syndrome' or 'diabetes-mellitus' or 'hypotension-orthostatic'). EMBASE search terms were 'Fluoxetine' or 'LY 110140' and ('stroke' or 'cardiovascular-disease' or 'cancer' or 'human-immunodeficiency-virus' or 'acquired-immune-deficiency-syndrome' or 'diabetes-mellitus' or 'heart-infarction' or 'orthostatic-hypotension'). AdisBase search terms were 'Fluoxetine' or 'LY 110140' and ('stroke' or 'cardiovascular-disease' or 'cardiovascular-disorders' or 'cancer' or 'HIV' or 'acquired-immunodeficiency-syndrome' or 'diabetes-mellitus' or 'orthostatic-hypotension'. Searches were last updated 24 Oct 2000.

Selection: Studies in patients with depression and HIV/AIDS, diabetes mellitus, stroke or cancer who received fluoxetine. Inclusion of studies was based mainly on the methods section of the trials. When available, large, well controlled trials with appropriate statistical methodology were preferred. Relevant pharmacodynamic and pharmacokinetic data are also included.

Index terms: fluoxetine, comorbid physical illness, depression, pharmacodynamics, pharmacokinetics, therapeutic use.

Contents

Su	nmary	82	
1.	ntroduction		
2.	2. Pharmacodynamic Properties		
	2.1 General Pharmacodynamic Profile		
	2.2 In Patients with Depression and Comorbid Physical Illness		
	2.2.1 Glucose Control in Patients with Diabetes Mellitus		
	2.2.2 CD4+ Status in Patients with HIV/AIDS		
	2.3 Pharmacodynamic Drug Interactions		
3.	Pharmacokinetic Properties		
	3.1 Absorption and Distribution		
	3.2 Metabolism and Elimination		
	3.3 Special Patient Groups		
	3.4 Pharmacokinetic Drug Interactions		
4	herapeutic Efficacy	93	
9.	1.1 Comparison with Placebo	9:	
	4.1.1 Definite with Depression and HW/AIDS		

Roxane Labs., Inc. Exhibit 1013 Page 004



82 Cheer & Goa

		4.1.2 Patients with Depression and Diabetes Mellitus
		4.1.3 Patients with Post-Stroke Depression
		4.1.4 Patients with Depression and Cancer
	4.2	Comparison with Other Antidepressants
		4.2.1 Comparison with Tricyclic and Heterocyclic Antidepressants
		4.2.2 Comparison with Other Serotonin Reuptake Inhibitors in Patients with
		Depression and HIV/AIDS
	43	Noncomparative Trials
5		erability
0.	5.1	General Tolerability Profile
	5.2	
	0.2	5.2.1 Sexual Dysfunction
		5.2.2 Bodyweight Change
		5.2.3 Suicidal Ideation
	D	5.2.4 Serotonin Syndrome
0.		sage and Administration
7.		ce of Fluoxetine in the Management of Depression in Patients with
		sical Illness
		Patients with Depression and HIV/AIDS
	7.2	Television in the personal and a land of control and a first transfer an
	7.3	Patients with Post-Stroke Depression
	7.4	Patients with Depression and Cancer
	7.5	Overdose
	7.6	Pharmacological Considerations
	7.7	Conclusion

Summary

Abstract

Fluoxetine is a potent and selective inhibitor of neuronal serotonin (5-hydroxytryptamine) reuptake. Fluoxetine reduces food, energy and carbohydrate intake and increases resting energy expenditure, which may account for the moderate and transient bodyweight loss observed with its use. Glucose tolerance and/or hypoglycaemia in patients with type 2 diabetes mellitus improve with fluoxetine therapy.

The ability of fluoxetine to inhibit cytochrome P450 (CYP) isoenzymes (CYP2D6, CYP2C and CYP3A4), is potentially important for patients with physical illness who may be taking multiple concomitant medications.

Fluoxetine was more effective than placebo in 2 double-blind, randomised trials, and according to limited data appears to be equally effective compared with other SSRIs and tricyclic antidepressants (TCAs), in the treatment of depression in patients with HIV/AIDS. The efficacy of fluoxetine is also superior to that of placebo in the treatment of depression in patients with diabetes mellitus and stroke as shown in double-blind randomised trials, although its efficacy relative to that of nortriptyline in stroke is uncertain. Fluoxetine had similar efficacy to that of desipramine in patients with cancer, with improved Hamilton Depression Rating Scale and quality-of-life scores from baseline; however, the drug was not more effective than placebo in a double-blind randomised trial.

Medically healthy individuals tolerate fluoxetine well. Like other SSRIs, fluoxetine lacks the anticholinergic, cardiovascular, sedative and weight-increasing properties of TCAs, and is safer in overdose than TCAs and monoamine

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Drugs 2001: 61 (1)

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