WHO/MSD/MSB 00.1 English only Distr: General

MANAGEMENT OF SUBSTANCE DEPENDENCE REVIEW SERIES

SYSTEMATIC REVIEW OF PHARMACOLOGICAL TREATMENT OF COCAINE DEPENDENCE



World Health Organization
Mental Health and Substance Dependence Department
Noncommunicable Disease and Mental Health Cluster

ABSTRACT

Cocaine dependence is a common and serious condition, associated with severe medical, psychological and social problems, including the spread of infectious diseases. This series of systematic reviews will critically assess the efficacy of pharmacotherapy for treating cocaine dependence. The literature search strategy included: electronic searches of Cochrane Library holdings, EMBASE, MEDLINE, PsycLIT, Biological Abstracts and LILACS; scans of reference lists of relevant articles, personal communications, conference abstracts, unpublished trials from the pharmaceutical industry and book chapters on the treatment of cocaine dependence. Randomised controlled trials focusing on the use of carbamazepine, antidepressants, dopamine agonists, and other drugs used in the treatment of cocaine dependence were included. Trials in which patients had an additional diagnosis such as opiate dependence were also eligible. The reviewers extracted the data independently, and relative risks (RR), and weighted mean differences were estimated. Number needed to treat would be calculated for statistically significant outcomes. Qualitative assessments were carried out using a Cochrane validated checklist. Where possible, analysis was carried out according to the "intention to treat" principles. The reviewers assumed that people who died or dropped out had no improvement in their condition. The results indicate that there is no current evidence supporting the clinical use of CBZ, antidepressants, dopamine agonists mazindol, phenytoin, nimodipine, lithium, and NeuRecover-SA, in the treatment of cocaine dependence. Larger randomised investigation must be considered, while taking into account that these time-consuming efforts should be reserved for medications showing more relevant and promising evidence. Given the high dropout rate among the test population, clinicians may wish to consider adding psychotherapeutic supportive measures aimed at keeping patients in treatment programs.

© World Health Organization 2000

This document is not a formal publication of the World Health Organization (WHO) and all rights are reserved by the Organization. The document may, however, be freely reviewed, abstracted, reproduced and translated, in part or in whole, but not for sale or for use in conjunction with commercial purposes.

The views expressed in this document are solely the responsibility of the authors.

ACKNOWLEDGEMENTS

This work was prepared by Dr. Maurício Silva de Lima, Dr. Anelise Reisser Lima, Dr. Bernardo Garcia de Oliveira Soares (Centro de Medicina Baseada em Evidências – Universidade Federal de Pelotas, Brazil) and Dr. Michael Farrell (National Addiction Center – Institute of Psychiatry, London, UK). Technical revision was provided by Dr. Maristela Monteiro, WHO/MSD/MSB, and by Ms. Annette Verster MA (Cochrane Alcohol and Drugs Collaborative Review Group, Department of Epidemiology, Osservatorio Epidemiologico Regione Lazio, Rome, Italy and Dr. Marina Davoli (Osservatorio Epidemiologico Regione Lazio, Rome, Italy) at protocol stage. Dr. H. Kranzler, Dr. Weddington, Dr. J. Cold and Dr. E. Nunes provided additional data regarding their results on clinical trials on the treatment of cocaine dependence. We would like to thank to Dr Mary Jansen who initiated the work on this publication during her tenure as Director in the Substance Abuse Department of WHO.

TABLE OF CONTENTS

Introduction	5
RATIONALE FOR THIS SERIES OF SYSTEMATIC REVIEWS ON THE	
PHARMACOLOGICAL TREATMENT OF COCAINE DEPENDENCE	7
COCAINE DEPENDENCE.	
OUTLINE OF THIS SERIES OF REVIEWS	
Methods	
Bibliography	
REVIEW 1 - CARBAMAZEPINE FOR COCAINE DEPENDENCE	1 2
SUMMARY	
DESCRIPTION OF STUDIES	
Results Discussion	
Bibliography	25
REVIEW 2 - ANTIDEPRESSANTS FOR COCAINE DEPENDENCE	27
Summary	29
DESCRIPTION OF STUDIES	
Results	
Discussion	
Bibliography	
REVIEW 3 - DOPAMINE AGONISTS FOR COCAINE DEPENDENCE	50
SUMMARY	
DESCRIPTION OF STUDIES	
RESULTS	
DISCUSSION	
Bibliography	
	01
Review 4 - Miscellaneous Treatment for Cocaine Dependence	CE 85
Summary	87
DESCRIPTION OF STUDIES	87
Results	
Discussion	96
Bibliography	97
GENIED AL CONOLLISIONIS	0.0
General Conclusions	99



INTRODUCTION



RATIONALE FOR THIS SERIES OF SYSTEMATIC REVIEWS ON THE PHARMACOLOGICAL TREATMENT OF COCAINE DEPENDENCE

Systematic reviews of scientific research allow for the efficient integration of valid information and provide a basis for rational decision-making. The use of explicit, consistent methods when reviewing can limits bias (systematic errors) and reduces random errors (simple mistakes), thus providing more reliable results upon which to draw conclusions and make decisions. In addition, meta-analysis, or the use of statistical methods to summarise the results of several independent studies provides a more precise estimate of the effects of healthcare than that which can be derived from the individual studies included in a review.

In the 1970s and early 1980s, psychologists and social scientists developed systematic guidelines for minimising bias and random errors in research reviews. However, it was not until the late 1980s that attention was drawn to the poor scientific quality of healthcare review articles. Since the recognition of the need for systematic reviews in this field has grown rapidly. This is reflected by the current number of articles about review methods as well as the number of systematic reviews published in healthcare journals.

The Cochrane Collaboration is an international organisation that prepares, maintains and disseminates systematic reviews concerning the impact of health care or the effects of policy and practises on health. These reviews are designed to encompass every relevant randomised controlled trial, to critically appraise these works, and, if appropriate, to summarise them. A resulting overview is produced that is as free from bias as possible. The reviews focus on randomised controlled trials (RCTs) as they are the best available source of reliable information on the differential effects of different forms of healthcare.

Because of the widespread prevalence of cocaine dependence and its high social, psychological and physical morbidity, there is an urgent need to expand the treatment repertoire for this condition. A range of pharmacological treatments has been proposed. There is, however, a

预览已结束,完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5_30511

