

Systematic review of needs for medical devices for ageing populations

Commissioned to the Australian Safety and Efficacy Register of New Interventional Procedures – Surgical (ASERNIP-S) by the World Health Organization (WHO)



WHO Library Cataloguing-in-Publication Data

Systematic review of needs for medical devices for ageing populations: commissioned to the Australian Safety and Efficacy Register of New Interventional Procedures – Surgical (ASERNIP-S) by the World Health Organization (WHO).

I.Equipment and Supplies – supply and distribution. 2.Health Services for the Aged. 3.Self-Help Devices – supply and distribution. 4.Appropriate Technology. 5.Secondary Prevention. 6.Rehabilitation. 7.Aged. 8.Review. I.World Health Organization.

ISBN 978 92 4 150922 0 (NLM classification: WT 26)

© World Health Organization 2015

All rights reserved. Publications of the World Health Organization are available on the WHO website (www.who.int) or can be purchased from WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland (tel.: +41 22 791 3264; fax: +41 22 791 4857; e-mail: bookorders@who.int).

Requests for permission to reproduce or translate WHO publications –whether for sale or for non-commercial distribution– should be addressed to WHO Press through the WHO website (www.who.int/about/licensing/copyright_form/en/index.html).

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

Printed in Switzerland

Cover photo, bottom left: ©Jessie George/HelpAge International Layout: Inís Communication – www.iniscommunication.com

Systematic review of needs for medical devices for ageing populations

Commissioned to the Australian Safety and Efficacy Register of New Interventional Procedures – Surgical (ASERNIP-S) by the World Health Organization (WHO)

2015



Acknowledgements

This report has been developed as part of a project funded by the World Health Organization (WHO) and was prepared under the primary authorship of the Australian Safety and Efficacy Register of New Interventional Procedures – Surgical (ASERNIP-S) group of the Royal Australasian College of Surgeons.

Funding for this project was provided by the Japanese Ministry of Health, Labour and Welfare. The aim of this project was to produce a report in the form of a systematic review for WHO on needs for medical devices for older people for five main health conditions and 19 specific topics.

This report was produced under the overall direction of Adriana Velazquez-Berumen, and the technical support of Chapal Khasnabis, Francis Moussy, Yukiko Nakatani, WHO, Geneva, Switzerland, and Loic Garçon, Alex Ross, WHO Centre for Health in Development, Kobe, Japan.

The ASERNIP-S review group included: ASERNIP-S Surgical Director, Guy Maddern; ASERNIP-S Director, Wendy Babidge; ASERNIP-S Research Manager, Merrîcc Edgar-Hughes; ASERNIP-S Senior Researcher, Alun Cameron; and ASERNIP-S researchers Robyn Lambert, Meegan Vandepeer, Yasoba Atukorale, Jennifer Chadbourne and Arlene Vogan.

In addition to the review group, ASERNIP-S would like to acknowledge Peter Bardy, Karyn Boundy, Michael Goggin, Harsh Kanhere, Guy Rees, Richard Ruffin, Michael Schultz, Dan Spernat and David Walsh for their guidance in preparing this report.

Table of contents

ABBREVIATIONS
I.INTRODUCTION
I.I THE GLOBAL AND REGIONAL CHALLENGE OF AN AGEING POPULATION
I.2 AGE-RELATED DISEASE IN THE WESTERN PACIFIC REGION 5 Table I Estimates of death by cause, Western Pacific Region, 2008 5 Table 2 Major contributions to projected disability-adjusted life-years (DALYs), Western Pacific Region, 2008 6
I.3 DEFINING OLD AGE
I.4 AGEING AND DISEASE
1.4 AGEING AND DISEASE
2. METHODS
2.I POPULATION
2.2 MEDICAL DEVICES
2.3 INTERVENTION
2.4 COMPARATOR AND OUTCOME
2.5 LITERATURE SEARCH
2.6 SEARCH STRATEGY
2.7 ADDITIONAL SEARCH CRITERIA AND FILTERS
2.8 STUDY INCLUSION CRITERIA AND PRESENTATION OF RESULTS
2.9 CATEGORIES OF MEDICAL DEVICES
2.10 SUPPLEMENTARY RESOURCES
B. CARDIOVASCULAR DISEASES
3.1 INTRODUCTION
3.2 ISCHAEMIC HEART DISEASE
Introduction
Methodology
Results
Table 4 Ischaemic heart disease – key studies
Table 5 Ischaemic heart disease – devices identified for prevention, diagnosis and treatment
3.3 CEREBROVASCULAR DISEASE
Methodology
Results
Table 6 Cerebrovascular disease – key studies
Table 7 Cerebrovascular disease – devices identified for diagnosis and treatment
3.4 HYPERTENSIVE HEART DISEASE
Introduction
Methodology
3.5 CONCLUSION

4. MALIGNAN I NEOPLASMS	. 28
4.1 INTRODUCTION Table 10 Incidence of cancer, worldwide and Western Pacific Region	28
4.2 CANCER OF THE MOUTH AND OROPHARYNX	30
Introduction	
Methodology	
Results	
Table 12 Oropharyngeal and mouth cancer – key studies.	
Table 13 Oropharyngeal and mouth cancer – devices identified for prevention, diagnosis and treatment	
4.3 OESOPHAGEAL CANCER	
Introduction	
Methodology	
Results	
Table 15 Oesophageal cancer – devices identified for diagnosis and treatment	
4.4 CANCER OF THE LUNG, TRACHEA AND BRONCHUS	
Introduction	
Methodology	
Results	37
4.5 STOMACH CANCER	37
Introduction	37
Table 16 Lung, trachea and bronchus cancer – key studies	38
Table 17 Lung, trachea and bronchus cancer – devices identified for diagnosis and treatment	38
Methodology	40
Results	40
Table 18 Stomach cancer – key studies	
Table 19 Stomach cancer – devices identified for prevention, diagnosis and treatment	41
4.6 LIVER CANCER	42
Introduction	42
Methodology	42
Results	43
Table 20 Liver cancer – key studies	44
Table 21 Liver cancer – devices identified for diagnosis and treatment	45
4.7 LYMPHOMA	47
Introduction	
Methodology	
Results	
Table 22 Lymphoma – key studies	
Table 23 Lymphoma – devices identified for diagnosis and treatment.	
4.8 BREAST CANCER	50
Introduction	
Methodology	
Results	
Table 24 Breast cancer – key studies.	
Table 25 Breast cancer – devices identified for diagnosis and treatment	
4.9 COLON AND RECTUM CANCER	
Introduction	
Methodology	
Results	
•	
A LO DEOCTATE CANCED	FC

Introduction	
Methodology	59
Results	59
Table 28 Prostate cancer – key studies	60
Table 29 Prostate cancer – devices identified for diagnosis and treatment	61
4.11 CONCLUSION	62
5. RESPIRATORY DISEASES	. 69
5.I INTRODUCTION	69
5.2 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	69
Introduction	
Methodology	
Results	
Table 30 Chronic obstructive pulmonary disease – key studies	
Table 31 Chronic obstructive pulmonary disease – devices identified for diagnosis and treatment	
5.3 CONCLUSION	/2
6. SENSE ORGAN DISEASES	. 74
6.1 INTRODUCTION	74
6.2 OPHTHALMIC DISEASES	75
6.2.1 Glaucoma	75
Table 32 Glaucoma – key studies	76
Table 33 Glaucoma – devices identified for prevention, diagnosis and treatment	77
6.2.2 Cataracts	
Table 34 Cataracts – key studies	79
Table 35 Cataracts – devices identified for diagnosis and treatment	80
6.2.3 Refractive errors	
Table 36 Refractive errors – key studies	
Table 37 Refractive errors – devices identified for diagnosis and treatment	
6.2.4 Macular degeneration.	
Table 38 Macular degeneration – key studies	
Table 39 Macular degeneration – devices identified for prevention, diagnosis and treatment	85
6.3 OTIC DISEASES	86
6.3.1 Adult-onset hearing loss.	
Table 40 Hearing loss – key studies	88
Table 41 Hearing loss – devices identified for diagnosis and treatment	88
6.4 CONCLUSION	90
U.T CONCLOSION.	70
7. NEUROPSYCHIATRIC CONDITIONS	. 94
7.I INTRODUCTION	94
7.2 ALZHEIMER'S DISEASE AND VASCULAR DEMENTIA	. 94
Introduction	
Methodology	
Results	
Table 42 Alzheimer's disease – key studies	
7.3 CONCLUSION	
Table 15 Mizhenner's disease — devices identified for diagnosis and dieadneme.	70
8. DISCUSSION	. 98
8.I METHODS	98
8.2 USE OF SUPPLEMENTARY RESOURCES	
OLE COL CT COTT ELTIE TO TAKE THE CONCECT OF THE FOREST OF	/ 0

	8.3 OVERALL RESULTS OF INCLUDED MEDICAL DEVICES	99
	8.4 PREVENTIVE DEVICES	00
	8.5 DEVICES ASSOCIATED WITH OLDER PEOPLE	01
	8.6 FUTURE RESEARCH AREAS	02
	8.7 CONCLUSIONS	02
,	ANNEX INDESIGNATIONS OF LEVELS OF EVIDENCE ACCORDING TO TYPE OF RESEARCH OLIESTION	∩4

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_27413



