University of Wollongong

Research Online

Australian Health Services Research Institute

Faculty of Business and Law

2010

The NSW AIDS resource distribution formula: 2008 review: consultation report

Janette Green University of Wollongong, janette@uow.edu.au

Gary Eckstein

Christopher Magee
University of Wollongong, cmagee@uow.edu.au

Joseph Carolan jcarolan@uow.edu.au

Follow this and additional works at: https://ro.uow.edu.au/ahsri

Recommended Citation

Green, Janette; Eckstein, Gary; Magee, Christopher; and Carolan, Joseph, "The NSW AIDS resource distribution formula: 2008 review: consultation report" (2010). *Australian Health Services Research Institute*. 453.

https://ro.uow.edu.au/ahsri/453

Research Online is the open access institutional repository for the University of Wollongong. For further information contact the UOW Library: research-pubs@uow.edu.au

The NSW AIDS resource distribution formula: 2008 review: consultation report

Keywords

formula, distribution, report, consultation, 2008, resource, aids, nsw, review

Publication Details

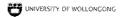
J. Green, G. Eckstein, C. A. Magee & J. G. Carolan, The NSW AIDS resource distribution formula: 2008 review: consultation report (Centre for Health Service Development, University of Wollongong, 2010).

The NSW AIDS Resource Distribution Formula: 2008 Review

Consultation Report

A CONTROL OF THE STATE OF THE S

Centre for Health Service Development



March, 2010

lanette Green

Gary Eckstein

Christopher Magee

Joe Carolan

Acknowledgements

The Centre for Health Service Development would like to gratefully acknowledge the numerous individuals and groups who contributed to this study. We would particularly like to thank the following for their support and guidance:

- The AIDS-RDF 2008 Review Advisory Committee (ARRAC)
- The Ministerial Advisory Committee on HIV and Sexually Transmissible Infections (CAS)
- The NSW HIV/AIDS & Related Program Managers' Network (HARPM)
- The Ministerial Advisory Committee on Hepatitis (MACH)
- AIDS/ Infectious Diseases Branch, NSW Department of Health also provided assistance to the project team in the interpretation of the data received and understanding the context for the AIDS-RDF
- The NSW Department of Health and Caradata staff who were so helpful in extracting data according to our specifications
- Mr John Ward, Senior Policy Analyst AIDS/Infectious Diseases Branch, NSW Department of Health

Suggested citation

Green et al (2010) The NSW AIDS Resource Distribution Formula: 2008 Review – Consultation Report. Centre for Health Service Development, University of Wollongong

University of Wollongong

Combined results for 24 RDF clusters ---



Table of Contents

EXECUTIVE SUMMARY				
1	INTRODUCTION	4		
2	BACKGROUND	5		
2.1	The Resource Distribution Formula in NSW	5		
2.2	International applications of a Resource Distribution Formula	5		
2.3	The NSW AIDS-RDF	6		
3	METHODOLOGY	7		
3.1	Overview of the project methodology	7		
3.2	Data sources investigated	7		
3.2.	I Issues in sourcing and preparing data for analysis	8		
3.2.	2 Variables estimating population need	9		
3.2.	Measures of service activity	. 11		
3.2.	Data sources selected for testing	. 12		
3.3	Developing the models	- 13		
3.4	Combining the population elements	- 14		
3.5	Specific issues addressed during the modelling process	- 14		
3.5.	Health service areas	. 14		
3.5.2	2 Unit of counting	. 15		
3.5.3	Session type to count	. 16		
3.5.4	Testing and screening	. 17		
3.5.5	GP s100 prescriber activity	. 19		
3.5.6		. 19		
3.5.7	Cross-Area Health Service flows	. 19		
3.5.8	,,,,,,,,,			
3.5.9	9 Amphetamines	. 22		
4	RESULTS	. 24		
4.1	Notifications	- 24		
4.2	The HIV population element of the AIDS-RDF	- 25		
4.3	The STI population element of the AIDS-RDF	27		
4.4	The NSP population element of the AIDS-RDF	29		
4.5	The Hepatitis C population element of the AIDS-RDF	31		
4.6	Combined population elements for the AIDS-RDF	32		
5	DISCUSSION AND RECOMMENDATIONS	. 33		
5.1	Data for the RDF models	33		
5.2	Specific components	34		

5.3	Implementation of the results	-34
5.4	RDF or episode funding?	-34
5.5	Recommendations	-35
BIBLIC	GRAPHY AND REFERENCES	.36
APPEN	IDIX 1 - MEMBERSHIP OF THE AIDS-RDF 2008 REVIEW ADVISORY COMMITTEE (ARRAC)	.38
APPEN	IDIX 2 DOCUMENTS WITH POTENTIALLY USEFUL DATA	. 39
APPEN	IDIX 3 – RESULTS FOR THE 24 RDF CLUSTERS	.41
HIV Re	sults	-42
STI Re	sults	-43
NSP R	esults	-44
Hepatit	is C Results	-44



List of Tables

Table 5 Percentage of client days for screening/testing/results (17 AHS) Table 6 Percentage of client days for screening/testing/results (8 AHS) Table 7 HIV/AIDS cross area flows for the 17 AHS Table 8 HIV/AIDS cross area flow for the 8 AHS Table 9 Distribution of needle and syringe units in NSW former AHSs Table 10 Distribution of needle and syringe units in NSW current AHSs Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS - three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS Table 17 Distribution of age and sex weights for STI. STI pre-flow results Table 18 STI pre-flow results Table 20 Distribution of age and sex weights for NSP Table 21 Proposed NSP funding allocations by current AHS Table 22 Proposed NSP funding allocations by current AHS Table 23 Proposed hepatitis C funding allocation by current AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS Table 26 The 24 RDF clusters Table 27 Thurding allocations for the 24 RDF clusters Table 28 Tif funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 29 Combined results for the 24 RDF clusters Table 31 Combined results for the 24 clusters	Table 1	Counting units for HIV activity - AHS of residence (former AHS boundaries)	16
Table 3 Client days by session type for HIV/AIDS by former AHS. Table 4 Client days by session type for HIV/AIDS by current AHS. Table 5 Percentage of client days for screening/testing/results (17 AHS). Table 6 Percentage of client days for screening/testing/results (18 AHS). Table 7 HIV/AIDS cross area flows for the 17 AHS. Table 8 HIV/AIDS cross area flow for the 8 AHS. Table 9 Distribution of needle and syringe units in NSW former AHSs. Table 10 Distribution of needle and syringe units in NSW current AHSs. Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS - three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by current AHS. Table 22 Proposed NSP funding allocations by current AHS. Table 23 Proposed NSP funding allocations by current AHS. Table 24 Proposed hepatitis C funding allocation by current AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 The 24 RDF clusters. Table 29 STI funding allocations for the 24 RDF clusters. Table 29 Combined results for the 24 RDF clusters. Table 20 Combined results for the 24 clusters. List of Figures	Table 2	Counting units for HIV activity -AHS of residence (current AHS boundaries)	16
Table 4 Client days by session type for HIV/AIDS by current AHS. Table 5 Percentage of client days for screening/testing/results (17 AHS). Table 6 Percentage of client days for screening/testing/results (8 AHS). Table 7 HIV/AIDS cross area flow for the 17 AHS. Table 8 HIV/AIDS cross area flow for the 8 AHS. Table 9 Distribution of needle and syringe units in NSW former AHSs. Table 10 Distribution of needle and syringe units in NSW current AHSs. Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS - three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS. Distribution of age and sex weights for NSP. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by current AHS. Table 22 Proposed NSP funding allocations by current AHS. Table 23 Proposed hepatitis C funding allocation by former AHS. Table 24 Proposed hepatitis C funding allocation by current AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 30 Combined results for the 24 clusters. List of Figures	Table 3	Client days by session type for HIV/AIDS by former AHS	.17
Table 6 Percentage of client days for screening/testing/results (8 AHS) Table 7 HIV/AIDS cross area flows for the 17 AHS Table 8 HIV/AIDS cross area flow for the 8 AHS Table 10 Distribution of needle and syringe units in NSW former AHSs. Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS - three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS Table 17 Distribution of age and sex weights for STI Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS Table 20 Distribution of age and sex weights for NSP Table 21 Proposed NSP funding allocations by current AHS Table 22 Proposed NSP funding allocations by current AHS Table 23 Proposed hepatitis C funding allocation by former AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures	Table 4	Client days by session type for HIV/AIDS by current AHS	
Table 7 HIV/AIDS cross area flows for the 17 AHS Table 8 HIV/AIDS cross area flow for the 8 AHS Table 9 Distribution of needle and syringe units in NSW former AHSs	Table 5	Percentage of client days for screening/testing/results (17 AHS)	
Table 7 HIV/AIDS cross area flows for the 17 AHS Table 8 HIV/AIDS cross area flow for the 8 AHS Table 9 Distribution of needle and syringe units in NSW former AHSs	Table 6	Percentage of client days for screening/testing/results (8 AHS)	18
Table 9 Distribution of needle and syringe units in NSW former AHSs. Table 10 Distribution of needle and syringe units in NSW current AHSs. Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS - three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by former AHS. Table 22 Proposed NSP funding allocations by current AHS. Table 23 Proposed hepatitis C funding allocation by current AHS. Table 24 Proposed hepatitis C funding allocation by current AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 31 Combined results for the 24 clusters. List of Figures	Table 7	HIV/AIDS cross area flows for the 17 AHS	.20
Table 10 Distribution of needle and syringe units in NSW current AHSs. Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007). Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by former AHS. Table 22 Proposed NSP funding allocations by current AHS. Table 23 Proposed hepatitis C funding allocation by former AHS. Table 24 Proposed hepatitis C funding allocation by current AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 31 Combined results for the 24 clusters. List of Figures	Table 8	HIV/AIDS cross area flow for the 8 AHS	.21
Table 11 Notifications by disease - 17 AHS (annual average 2005 - 2007)	Table 9	Distribution of needle and syringe units in NSW former AHSs	.21
Table 12 Notifications by disease - 8 AHS (annual average 2005 - 2007). Table 13 HIV notifications by AHS three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. Table 18 STI pre-flow results. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed STI funding allocations by current AHS. Table 22 Proposed NSP funding allocations by former AHS. Table 23 Proposed NSP funding allocations by current AHS. Table 24 Proposed hepatitis C funding allocation by former AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 30 Hepatitis C funding allocations for the 24 RDF clusters. Table 31 Combined results for the 24 clusters. List of Figures	Table 10	Distribution of needle and syringe units in NSW current AHSs	
Table 13 HIV notifications by AHS — three-year averages. Table 14 Distribution of age and sex weights for HIV/AIDS. Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS. Table 17 Distribution of age and sex weights for STI. Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS. Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by former AHS. Table 22 Proposed NSP funding allocations by current AHS. Table 23 Proposed hepatitis C funding allocation by former AHS. Table 24 Proposed hepatitis C funding allocation by current AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 31 Combined results for the 24 clusters. List of Figures	Table 11	Notifications by disease - 17 AHS (annual average 2005 - 2007)	24
Table 14 Distribution of age and sex weights for HIV/AIDS Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/AIDS funding allocations by current AHS Table 17 STI pre-flow results. Table 18 STI pre-flow results. Table 19 Proposed STI funding allocations by current AHS Table 20 Distribution of age and sex weights for NSP Table 21 Proposed NSP funding allocations by former AHS Table 22 Proposed NSP funding allocations by current AHS Table 23 Proposed hepatitis C funding allocation by current AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS. Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters. List of Figures		Notifications by disease - 8 AHS (annual average 2005 - 2007)	24
Table 15 HIV/AIDS pre-flow results. Table 16 Proposed HIV/IAIDS funding allocations by current AHS Table 17 Distribution of age and sex weights for STI		HIV notifications by AHS three-year averages	.25
Table 16 Proposed HIV/AIDS funding allocations by current AHS Table 17 Distribution of age and sex weights for STI Table 18 STI pre-flow results		Distribution of age and sex weights for HIV/AIDS	26
Table 17 Distribution of age and sex weights for STI		HIV/AIDS pre-flow results	
Table 18 STI pre-flow results Table 19 Proposed STI funding allocations by current AHS Table 20 Distribution of age and sex weights for NSP Table 21 Proposed NSP funding allocations by former AHS Table 22 Proposed NSP funding allocations by current AHS Table 23 Proposed hepatitis C funding allocation by former AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS. Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures			
Table 19 Proposed STI funding allocations by current AHS			
Table 20 Distribution of age and sex weights for NSP. Table 21 Proposed NSP funding allocations by former AHS. Table 22 Proposed hepatitis C funding allocation by former AHS. Table 24 Proposed hepatitis C funding allocation by former AHS. Table 25 Final results by current AHS. Table 26 The 24 RDF clusters. Table 27 HIV funding allocations for the 24 RDF clusters. Table 28 STI funding allocations for the 24 RDF clusters. Table 29 NSP funding allocations for the 24 RDF clusters. Table 30 Hepatitis C funding allocations for the 24 RDF clusters. Table 31 Combined results for the 24 clusters. List of Figures			
Table 21 Proposed NSP funding allocations by former AHS Table 22 Proposed hepatitis C funding allocation by current AHS Table 23 Proposed hepatitis C funding allocation by former AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures			
Table 22 Proposed NSP funding allocations by current AHS Table 23 Proposed hepatitis C funding allocation by former AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures		Distribution of age and sex weights for NSP	29
Table 23 Proposed hepatitis C funding allocation by former AHS Table 24 Proposed hepatitis C funding allocation by current AHS Table 25 Final results by current AHS Table 26 The 24 RDF clusters Table 27 HIV funding allocations for the 24 RDF clusters Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures			
Table 24 Proposed hepatitis C funding allocation by current AHS			
Table 25 Final results by current AHS		Proposed hepatitis C funding allocation by former AHS	.32
Table 26 The 24 RDF clusters		Proposed hepatitis C funding allocation by current AHS	32
Table 27 HIV funding allocations for the 24 RDF clusters			
Table 28 STI funding allocations for the 24 RDF clusters Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures			
Table 29 NSP funding allocations for the 24 RDF clusters Table 30 Hepatitis C funding allocations for the 24 RDF clusters Table 31 Combined results for the 24 clusters List of Figures			
Table 30 Hepatitis C funding allocations for the 24 RDF clusters			
Table 31 Combined results for the 24 clusters List of Figures			
List of Figures			
			45
	List of I	Figures	
Figure 1 LIV notifications 1009 2007 by AUC	Figure 1	HIV notifications 1009 2007 by ALIC	25



Guide to Abbreviations

ABS	Australian Bureau of Statistics
AHS	Area Health Service of NSW Department of Health
AIDB	AIDS and Infectious Diseases Branch of the NSW Department of Health
AIDS	Acquired Immunodeficiency Syndrome
ARIA	Accessibility and Remoteness Index for Australia
ARRAC	AIDS-RDF 2008 Review Advisory Committee
ATSI	Aboriginal or Torres Strait Islander
CAS	Ministerial Advisory Committee on HIV and Sexually Transmissible Infections
DRG	Diagnosis Related Group
EDOCC	ABS index of Education and Occupation
GP	General Practitioner
GSAHS	Greater Southern Area Health Service
GWAHS	Greater Western Area Health Service
HARPM	NSW HIV/AIDS & Related Program Managers' Network
HIV	Human Immunodeficiency Virus
HNEAHS	Hunter New England Area Health Service
HNI	Health Needs Index
IDU	Intravenous Drug Users
LGA	Local Government Area
MACH	Ministerial Advisory Committee on Hepatitis
MDS	Minimum Data Set
MSIC	Medically Supervised Injecting Centre
NCAHS	North Coast Area Health Service
NGO	Non-Government Organisation
NSCCAHS	North Sydney Central Coast Area Health Service
NSP	Needle and Syringe Program
RDF	Resource Distribution Formula
SEIFA	ABS Socio-economic Indices for Areas
SESIAHS	South Eastern Sydney Illawarra Area Health Service
SLA	Statistical Local Area
SMR	Standardised Mortality Ratio
SSWAHS	Sydney South West Area Health Service
STI	Sexually Transmissible Infections
SWAHS	Sydney West Area Health Service
	L