

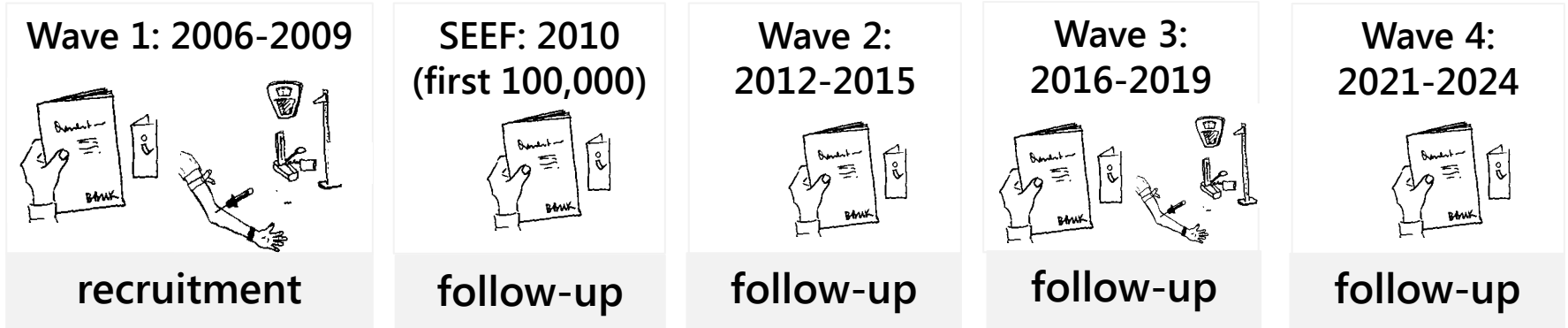
# The 45 and Up Study - current and potential uses for service development

Margo Barr, Study Director

# Cover

- Study recruitment and follow-up
- Use of the Study
  - Questionnaires data
  - Data linkage
  - Sub-studies
- Service use/development research studies
  - Questionnaire data only
  - Cancer linkage studies
  - Primary Health Care linkage studies
  - Other linkage studies

# Study Design



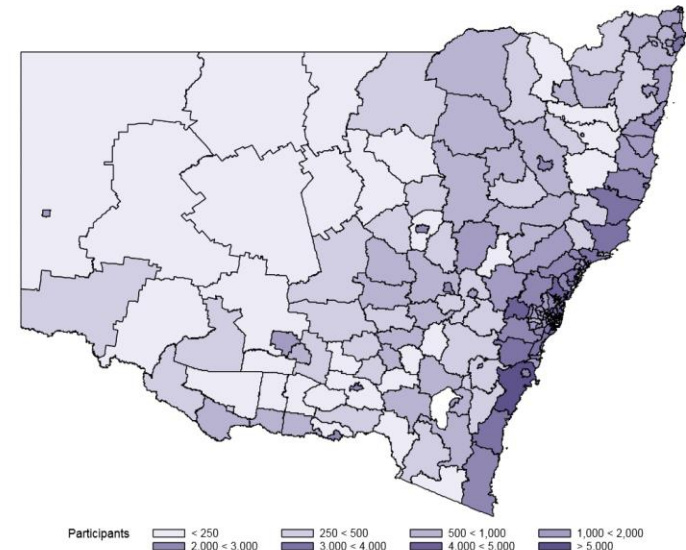
DATA LINKAGE TO ROUTINE COLLECTIONS



NESTED STUDIES

# Study Recruitment

- Participants were recruited through Medicare
- 267,153 men and women aged 45 years and over completed questionnaire about their life and health in 2006–2009
- Consented to:
  - Linkage of their questionnaire information to their health and vital records
  - Further research: Follow-up and sub-studies

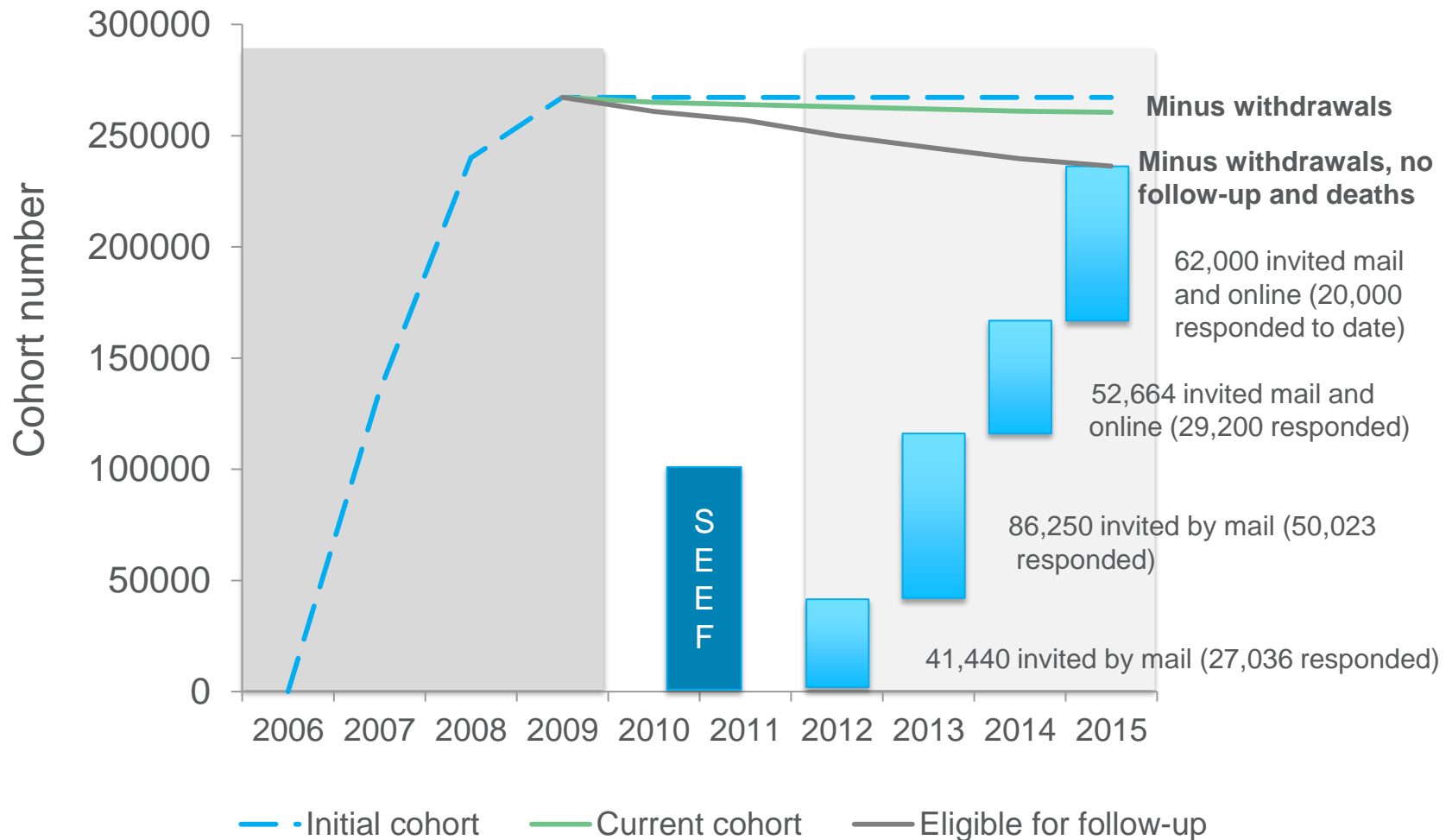


# Study Profile

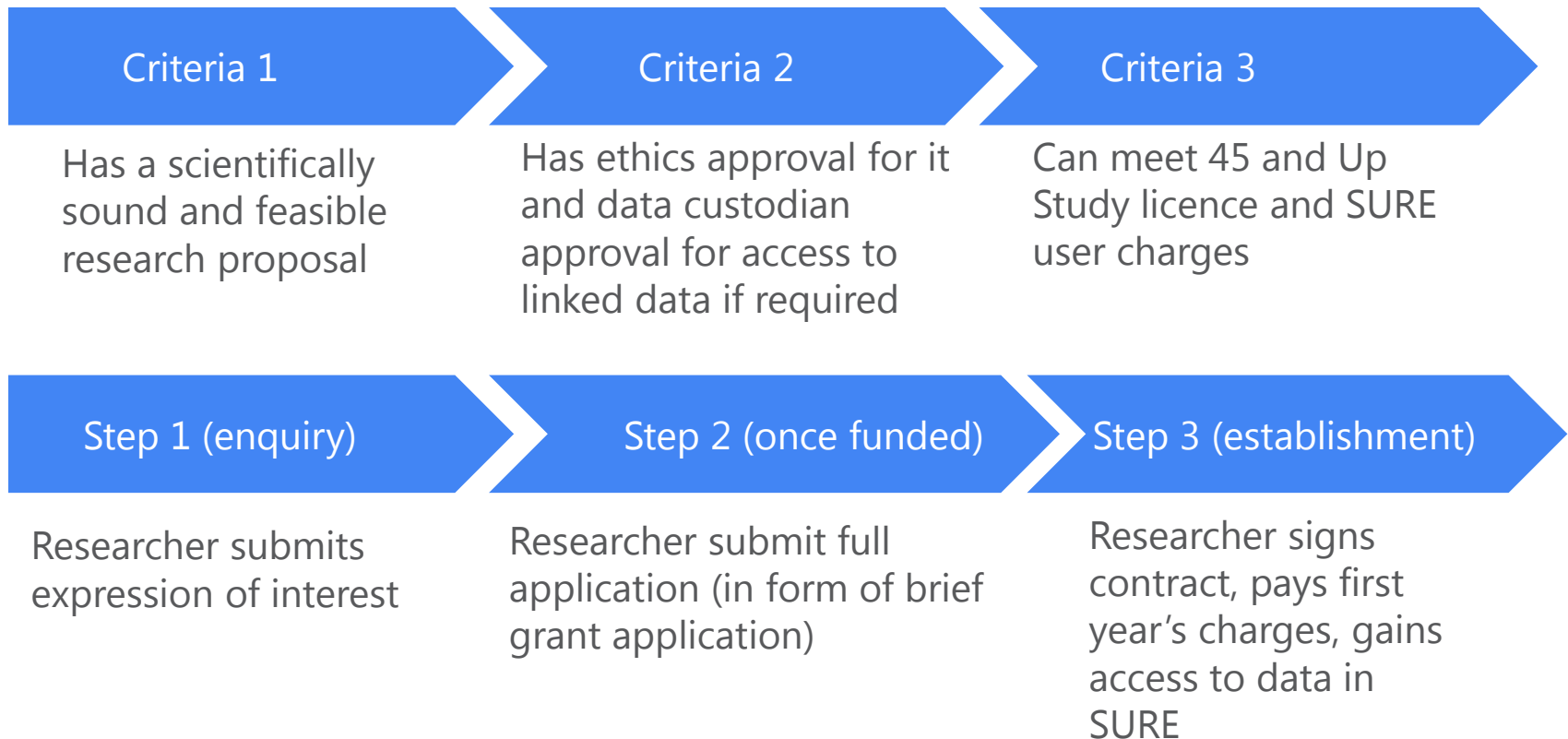
	Categories	n	%
Sex	Male	123,921	46.4
	Female	143,232	53.6
Aboriginality	Aboriginal	2,149	0.9
	Non-Aboriginal	260,235	97.4
Region	Major City	120,295	45.0
	Inner Regional	93,934	35.2
	Outer Regional	47,533	17.8
	Remote/Very Remote	532	2.0
BMI	Underweight	10,264	3.8
	Healthy weight	84,053	31.5
	Overweight	97,563	36.5
	Obese	57,585	21.6
Smoking	Non-smoker	148,602	55.6
	Ex-smoker	98,413	36.8
	Smoker	19,328	7.2
Blood pressure	High	94,950	35.5
	Not high	172,130	64.4

	Categories	n	%
Conditions	Skin cancer	68,169	25.5
	Melanoma	14,595	5.5
	Prostate cancer	7,833	2.9
	Breast cancer	7,735	2.9
	Heart disease	3,1780	11.9
	High blood pres	94,991	17.6
	Stroke	8,446	18.0
	Diabetes	23,955	10.3
	Asthma	33,672	3.2
	Depression	34,639	12.9
	Anxiety	22,408	13.0
Parkinson's	1,677	8.4	
Family history	High blood pres	134,172	50.2
	Severe arthritis	57,018	21.3
	Osteoporosis	38,826	14.5
	Parkinson's	12,448	4.7
	Diabetes	61,148	22.9
	Heart disease	121,337	45.4
	Stroke	69,307	25.9
	Cancer	81,868	30.6
	Alzheimer's	43,215	16.2
	Depression	32,900	12.3

# Study Cohort



# Study Data Access Process



# Study Questionnaire Items

## Core questionnaire items

- Demographics
- Ancestry
- Smoking status
- Height and Weight
- Alcohol consumption
- Health screening
- Diet and nutrition
- Family disease history
- Medical conditions
- Treatments,
- Operations
- Medications
- Health ratings
- Social capital
- Geographic variables

## Sponsored questionnaire items:

- Life experiences
- Veterans
- Usual Health care use and satisfaction
- Adverse health events and future healthcare planning
- Plans to move
- Prescription drug use and cases of shingles

## Agencies sponsoring questions:

- NSW Kid and Families
- Department of Veterans Affairs
- Bureau of Health Information
- Australian Commission on Safety and Health Care (ACQSHC)
- NSW Department Planning and Environment
- Commonwealth of Australia, Department of Health



# Data Linkage

Type of dataset	Relevant datasets	Availability
<b>Questionnaire dataset</b>	Cohort of the 45 and Up Study with a disability	Held by Sax Institute and so available on approval of the project
<b>Health administrative datasets</b>	Medicare Benefits Schedule (MBS)	
	Pharmaceutical Benefits Scheme (PBS)	
	<u>NSW Emergency Department Data Collection (EDDC)</u>	Available on request to data custodians, subject to ethics approval. Linkage facilitated by CHeReL
	NSW Admitted Patient Data Collection (APDC)	
	<u>NSW Mental Health Ambulatory Data Collection</u>	
	<u>NSW Central Cancer Registry (CCR)</u>	
	<u>NSW Notifiable Conditions Information Management System (NCIMS)</u>	
<u>NSW mortality data</u>		
<b>Welfare administrative datasets</b>	Home and Community Care (HACC)	Availability for linkage to cohort studies currently being explored
	Aged Care Assessment Program (ACAP)	
	Department of Social Security (DSS)	
	Department of Veterans Affairs (DVA)	

Between 2000 and 2014: 41.8 million medical and pharmaceutical benefits records (to 2012); 1.9 million hospitalisations; 595,000 emergency department presentations; 21,000 deaths; 33,000 cancer registrations.

# Sub-studies

2009

- Link-Up Project - 762 participants
- Housing and Independent Living (HAIL) – 202 participants

2010

- Social, Economic and Environmental Factors (SEEF) Project – 60,404 participants
- Cardiovascular Risk, E-couch Depression Outcome (CREDO) Project – 562 participants
- Diabetes Risk Factor Survey – 1,210 participants
- Skin Health Study – 3,808 participants

2011

- Life Histories and Health Project (LHH) – 1,559 participants
- Successful Transition to a Healthy Retirement Project – 2,711 participants

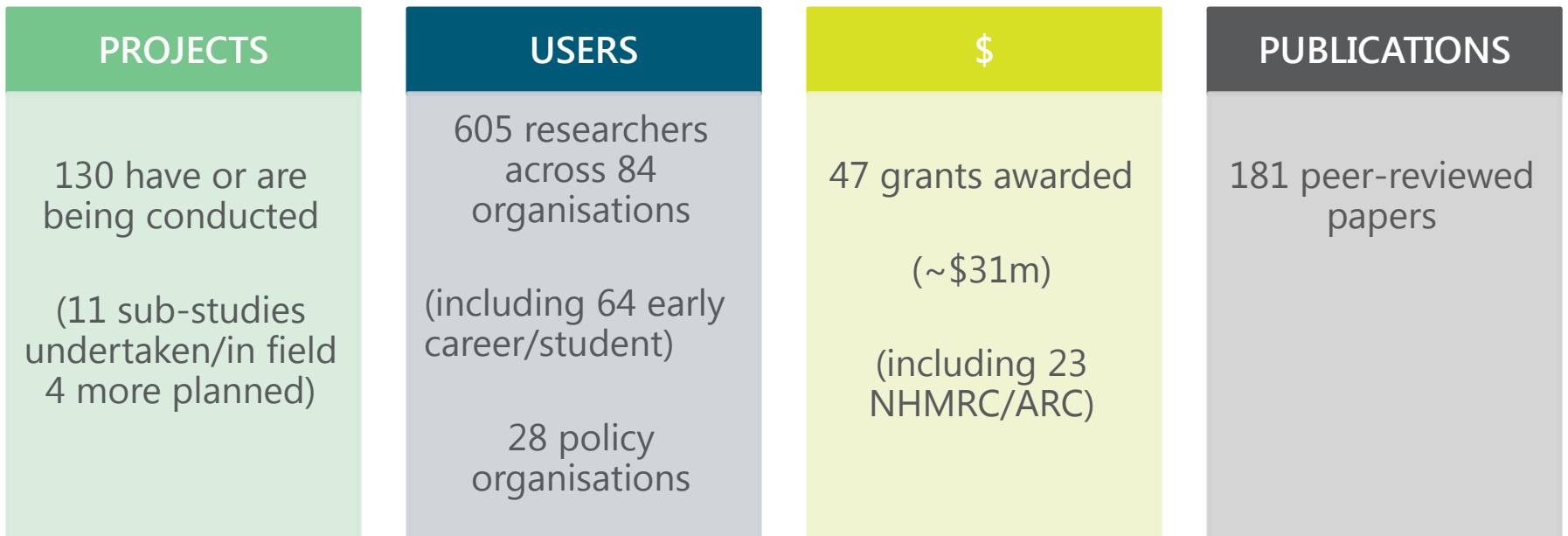
2014

- Sexual Wellbeing and Quality of Life after Prostate Cancer – 116 participants

2015

- Patients' Experiences Project – 7,686 participants
- Men's Perspectives on Falls and Preventing Falls – 20 participants

# Use of Cohort and Data



# Service use/development studies

https://www.saxinstitute.org.au/our-work/45-up-study/research-underway/

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Publications

Published Research

## 45 and Up Study publications

See: <https://www.saxinstitute.org.au/our-work/45-up-study/research-underway/>

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# Questionnaire studies

- Economic impacts of disease on older workers: Costs to government and individuals and ***opportunities for intervention***
- Mental health and social disadvantage, chronic disease and ***use of specific mental health care services***
- The health ***needs and service use*** of older men
- Patterns of ***complementary medicine use*** in patients with osteoarthritis
- Outcome and process indicators for enhanced reporting of the ***performance of the NSW public healthcare system***

# Cancer linkage studies

- Selective estrogen receptor modulators (SERMs) for early breast cancer: **utilisation** and outcomes in Australian practice
- Investigation of the **costs of treatment** of non-melanoma skin cancer
- Referral pathways in colorectal cancer: general practitioners' **patterns of referral** and factors that influence referral
- The cost effectiveness of managing individuals at high risk of melanoma in a '**high risk clinic**' **compared with standard care**
- **Health care utilisation** and risk factors for cancer of unknown primary
- **Health service utilisation** before and after a diagnosis of cancer

# PHC linkage studies

- The influence of socio-economic factors on the pattern of ***access of primary health care services***
- Exploring ***met and unmet needs*** for home care in NSW
- Regional level modelling of patient catchment areas-defining and analysing variation in ***primary health care need, utilisation and cost***
- Investigating ***best practice primary care*** for older Australians with diabetes
- Severe Chronic Disease ***Management Program***
- Use of primary care, health events, health ***service use and costs***
- Exploring the relationship between social care, primary & secondary ***health service use*** and adverse health outcomes

# Other linkage studies

- Fall-related and other **health service use** in Stepping-On participants and other older adults
- Obesity, overweight and hospitalisation: Identifying **targets for interventions** to prevent adverse health outcomes
- **Health service use** among NSW workers with chronic illness and lifestyle risks
- **Waiting times** for elective surgery and the demand for private care
- Determinants of **health disparities** in women with chronic heart failure: An investigation of risk characteristics, hospital admission and outcomes
- Chronic disease **management plans**: Who receives them and do they make a difference to use of health care services and health outcomes?



'The future depends on us having resources that can facilitate currently unknown needs'

The 45 and Up Study <https://www.saxinstitute.org.au/our-work/45-up-study/>