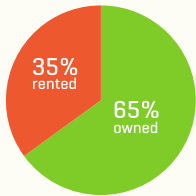


560

NZ HOUSES

assessed from September 2015 to June 2016



HEATING HABITS



46% of households did not heat bedrooms in winter

51% of children's bedrooms were not heated in winter

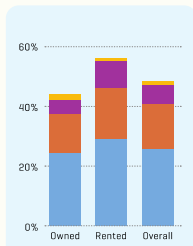


MOULD was visible in 49% of all houses

44% owned > **56%** rented

Mould was most commonly found in bathrooms.

mould in bedrooms almost **30%** > **18%** of rentals owner-occupied



Managing mould

Mould was more commonly observed in houses lacking effective heating, ventilation and insulation

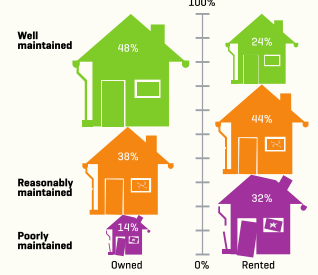
VENTILATION



Only around **HALF** had an extractor fan in the bathroom venting to outside

Only around **HALF** had an extractor fan in the kitchen extracting to outside

HOUSE MAINTENANCE Owned vs rented property



INSULATION

53% could benefit from retrofitted insulation in the roof space and/or subfloor

47% had less than 120mm or insufficient coverage of insulation in the roof space

19% had insufficient coverage of insulation in the subfloor



HEATING APPLIANCES

Heat pumps 40% of owner-occupied houses > 25% of rentals

Wood burners 39% of owner-occupied houses > 23% of rentals

Electric heaters 25% of owner-occupied houses < 33% of rentals

Portable unflued gas heaters 4% of owner-occupied houses < 15% of rentals

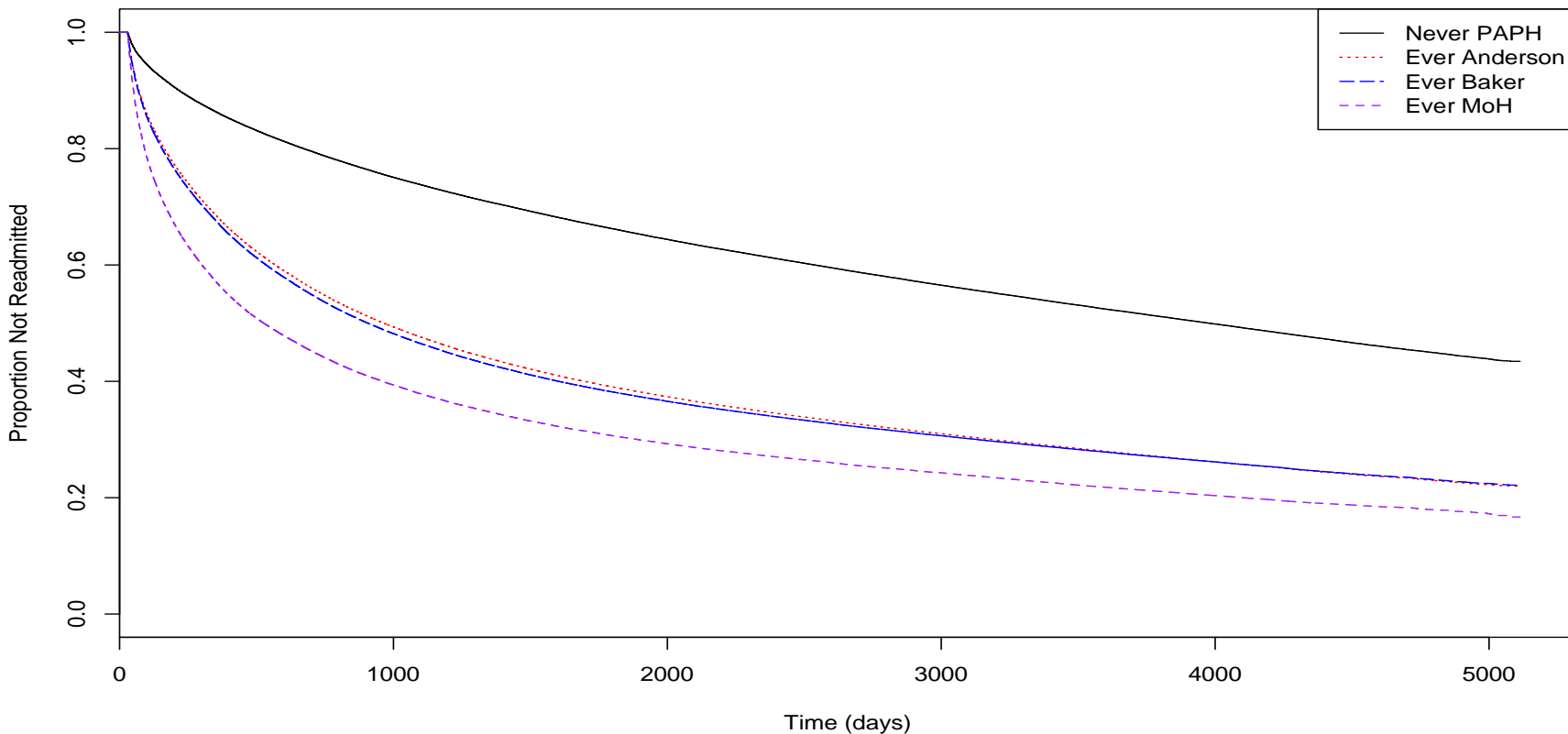


Potentially avoidable hospitalisation (PAH)	PAHHE Criteria (housing & physical environment)	Crowding Criteria	MoH Criteria	ICD codes
Acute bronchiolitis	Yes	Yes	Yes	J21
Acute rheumatic fever	Yes	Yes	Yes	I00-I02
Bacterial meningitis	Yes	Yes	Yes	G00,G01
Bacterial/ Unspecified pneumonia	Yes	Yes	Yes	J13-J16, J18
Bronchiectasis	Yes	Yes	Yes	J47
GAS sepsis	No	Yes	Yes	A400
Meningococcal disease (includes meningococcal meningitis)	Yes	Yes	Yes	A39
Viral / other / unspecified meningitis	No	Yes	Yes	A87,G02,G03
Viral pneumonia	Yes	Yes	Yes	J12, J100,J110
Urinary tract infection ¹	No	No	Yes	N10, N12,N300,N390,N136,309
Acute upper respiratory tract infection excluding croup	Yes	Yes	No	J00-J03, J06
Asthma	Yes	Yes	No	J45,J46
Croup, acute laryngitis, tracheitis	No	Yes	No	J04 J050
Dermatitis/eczema	No	No	No	L20-L30
Febrile convulsions	No	No	No	R560
Gastroenteritis	No	Yes	No	A00-A09,R11, K529
Nutritional deficiency	No	No	No	E40-E64, D50-D53
Otitis media	Yes	Yes	No	H65-H67
Skin infection	Yes	No	No	L00-L05,L08,L980,J340,H010,H000
Tuberculosis	Yes	Yes	No	A15-A19
Vaccine preventable diseases (tetanus neonatorum, congenital rubella, tetanus, diphtheria, pertussis, polio, hepatitis B ,measles, rubella, mumps)	No	No	No	P350,A33,A34,A35,A36, A37,A80, B16,B180,B181,B05,B06,B26, M014
Viral infection of unspecified site	Yes	No	No	B34
Constipation	No	No	No	K590
Dental (dental caries, pulp, periodontal)	No	No	No	K02,K04,K05
Gastro oesophageal reflux	No	No	No	K21
Osteomyelitis	No	No	No	M86
Rheumatic heart disease	No	No	No	I05-I099

Criteria	Effectiveness measure	Result
PAHHE	Sensitivity	27.0%
	Specificity	88.5%
	PPV	0.001
	NPV	> 0.99
Crowding	Sensitivity	21.9%
	Specificity	89.3%
	PPV	0.001
	NPV	> 0.99
MoH	Sensitivity	4.7%
	Specificity	98.3%
	PPV	0.002
	NPV	> 0.99



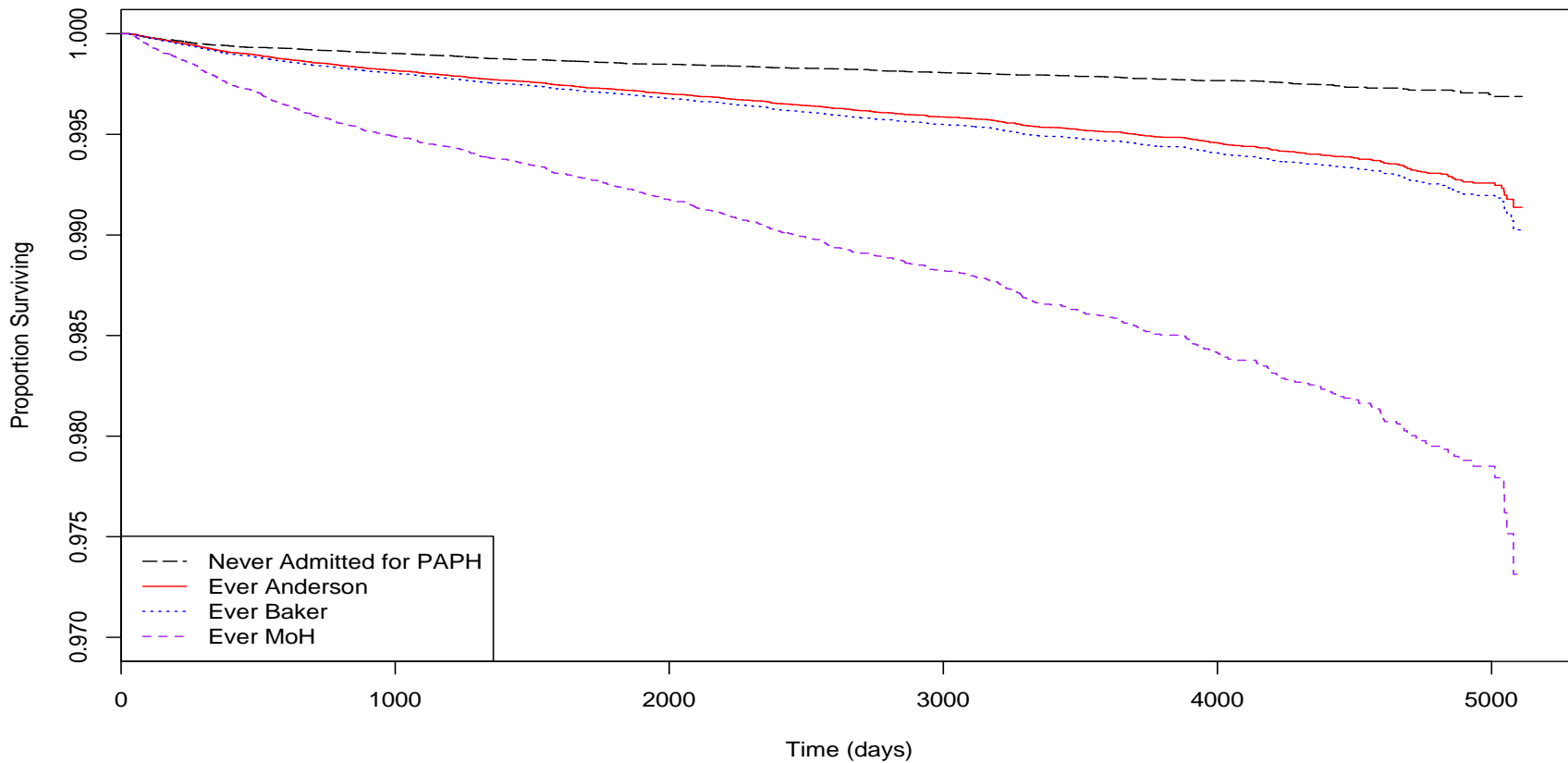
Preventing Hospitalisations



H E K A I N G A O R A N G A



Deaths



Well Homes is a free service that may be able to help your whānau with:



BEDS & BEDDING



CARPET



CURTAINS



HEATING



INSULATION



MINOR REPAIRS



MOULD CLEANING KITS



MSD/WORK & INCOME ASSISTANCE



OTHER - I.E. HEALTH OR SOCIAL REFERRALS



SOCIAL HOUSING RELOCATION



VENTILATION

Please phone us on 0800 675 675

Intervention area	Need identified count & percentage of referrals (n=1033)	Delivered intervention	Intervention delivered (out of those with a referral)	Average number delivered
Mould	880 (85.2%)	Mould kit	99.8%	1.00
Beds	265 (25.7%)	Bed, bunk and cot sets; mattresses.	81.89%	1.86
Bedding	449 (43.5%)	Blankets, sheets, mattress protectors.	94.2%	2.76
Insulation	541 (52.4%)	Ceiling and/or underfloor insulation	40.51%	1.00
Floor coverings	130 (12.6%)	Carpets	40.42%	1.00
Curtains	466 (45.1%)	Curtains	75.23%	2.60
Heating	891 (86.3%)	Portable electric heaters	90.22%	1.21