

Appendices

Appendix 1: Propensity score matching

The probability of IPS participation was estimated as follows:

$$\Pr(I_i=1 | Z_i) = \Phi(\beta_0 + \beta_1 Z_i)$$

Where $I_i=1$ if the person participated in IPS, and 0 if not; Z_i was a vector of observed characteristics that could predict treatment (IPS participation) and $\Phi(\cdot)$ was the cumulative standard normal distribution function. Using the estimated betas from the first stage, a propensity score for the sample who did not participate in IPS was calculated.

Appendix 2: Derivation of selected matching variables

Demographics

Age (18–24, 25–34, 35–44, 45–54, 55–62 years), gender (male/female) (numbers were too low to include the “another gender” group) and ethnicity were sourced from the personal detail table in the IDI. Ethnicity was recorded in total response format (so an individual can identify with more than one ethnic group) and, for this study, restricted to Level 1 groupings (European, Māori, Pacific peoples, Asian, Middle Eastern, Latin American and African [MELAA] and other). The number of children and age of youngest child were derived from birth records from the Department of Internal Affairs (DIA) and MSD benefit data.

Neighbourhood deprivation

Address notification data were used to identify meshblock of residence and the corresponding New Zealand Index of Deprivation 2018 (NZDep 2018) score.¹ Deprivation scores were collapsed into deciles, with 1 representing the least deprived and 10 the most deprived.

Rural–urban status

Address notification data was also used to identify rural or urban location. Urban areas were further classified by population size (small urban areas with a population of at least 1,000 and up to 10,000, medium to large urban areas with a population of at least 10,000 and up to 100,000 and major urban areas with a population of at least 100,000).

Mental health diagnoses and service use

PRIMHD data were used to flag whether there was a diagnosis recorded in that data source. Diagnosis data in PRIMHD are known to be of varying quality and completeness, with the

proportion of clients with a diagnosis recorded at the time of their activity showing wide variation across health regions and across teams within health regions. Previous analysis showed the likelihood of mental health diagnoses being recorded was positively associated with IPS participation.² To avoid potential for bias that would occur if this relationship was causal, we only considered diagnoses recorded in PRIMHD more than 6 months prior to IPS commencing. The presence or absence of selected diagnoses was derived from International Classification of Disease (ICD) codes (schizophrenia, bipolar affective disorder, other non-organic psychosis, alcohol or drug use, or any mental health diagnosis). In addition, diagnoses recorded on medical certificates completed by medical practitioners for welfare benefit purposes were used to identify the presence or absence of the selected diagnoses.

A count of inpatient bed nights was calculated using PRIMHD data. These included the following activity type codes: T02, T03, T04, T05, T11, T12, T13, T14, T16, T20, T21. A count of months receiving mental health and addiction services (counted as any face-to-face contact) and the number of crisis contacts in the last 3 years was calculated using PRIMHD data, as was the number of days since the most recent face-to-face contact.

Pharmaceutical collection data from the Ministry of Health – Manatū Hauora was used to identify any prescriptions issued in the previous 3 years for anti-depressant or anti-psychotic medications.

Co-occurring health conditions

These were identified using the Elixhauser standards, adapted to include the primary diagnosis. ICD codes for hospital events were used to determine presence or absence of conditions that have been shown to be associated with reduced income and/or employment.³ The number of such conditions were identified for each individual, as was the number of non-mental health-related conditions recorded from medical certificates for benefit purposes.

Other matching variables

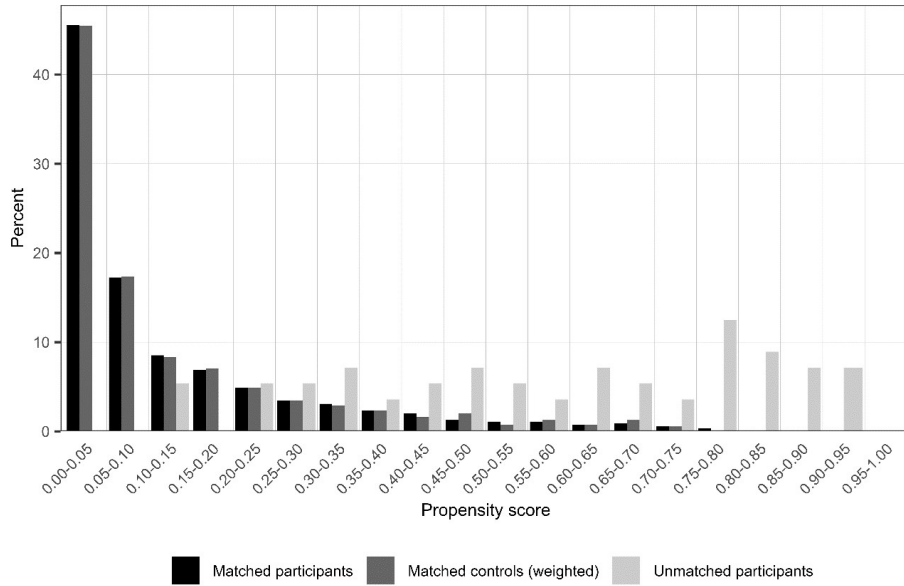
Several other variables were used in the matching, including whether the individual held a private or commercial driver licence, whether the individual had ever participated in IPS before the start of the study period, the type of benefit the person received (if any), the percentage of time since age 18 that the individual had received a benefit and any time spent overseas.

APPENDIX 2 REFERENCES

1. Atkinson J, Salmond C, Crampton P. NZDep2018 Index of Deprivation [Internet]. Wellington (NZ): Department of Public Health, University of Otago; 2020 [cited 2023 Oct]. Available from: <https://www.otago.ac.nz/wellington/otago823833.pdf>
2. Cram F, Jury S, Kokaua J, et al. Individual Placement and Support (IPS) in Aotearoa New Zealand – new insights from linked administrative data [Internet]. Wellington (NZ): Ministry of Social Development; 2020 [cited 2023 Oct]. Available from: <https://www.msd.govt.nz/documents/about-msd-and-our-work/publications-resources/research/individual-placement-and-support/ips-new-findings-report.pdf>
3. Elixhauser A, Steiner C, Harris DR, Coffey RM. Comorbidity measures for use with administrative data. *Med Care*. 1998;36(1):8-27. doi: 10.1097/00005650-199801000-00004.

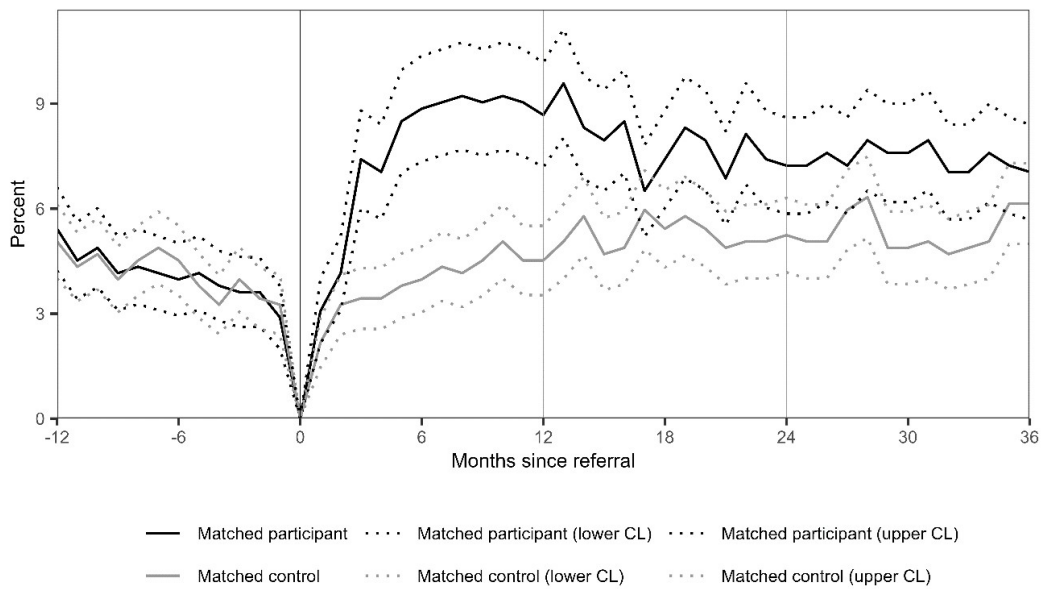
Appendix 3: Other results

Appendix 3 Figure 1: Distribution of propensity scores for matched and un-matched participants, and matched control cohort (weighted to the matched participant population).

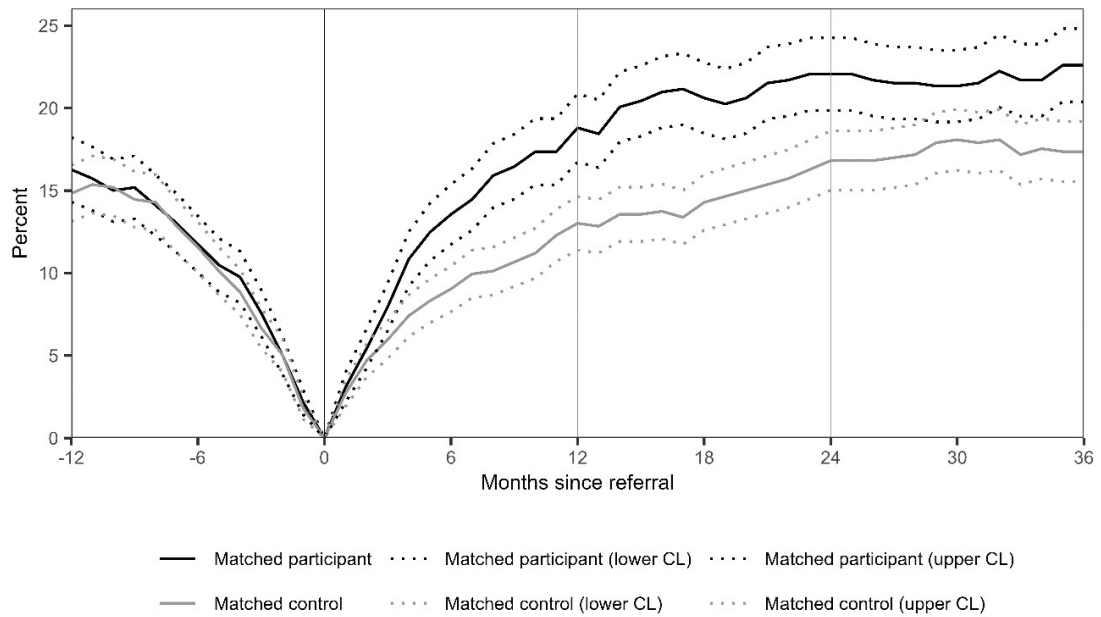


Note: weighting accounts for some non-participants being matched to more than one participant.

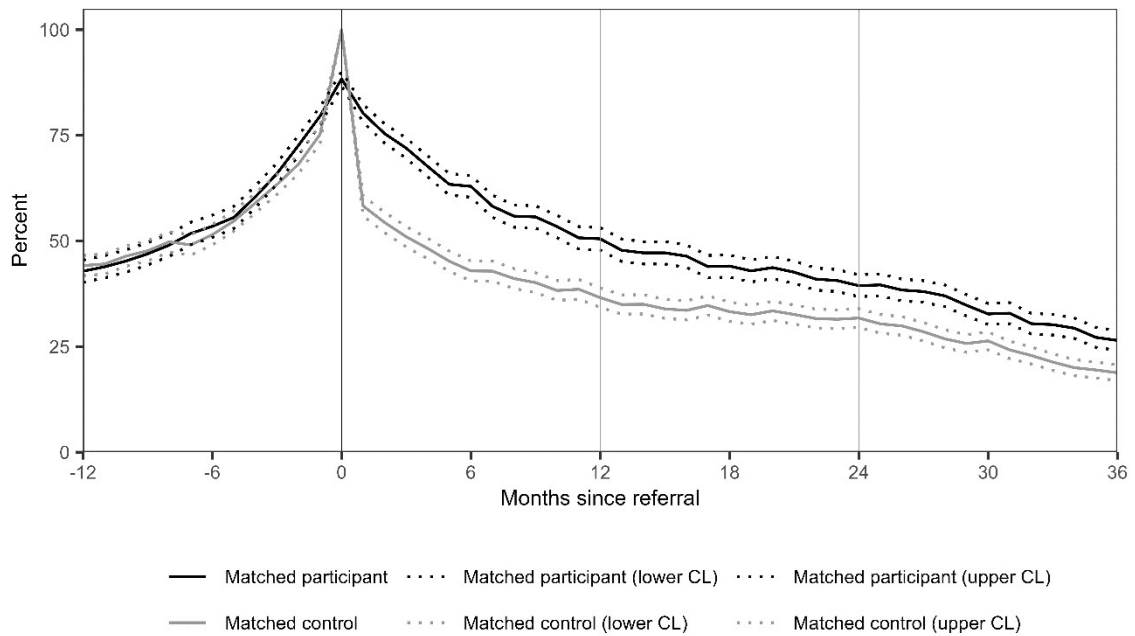
Appendix 3 Figure 2: Percentage in employment and receiving a main benefit before and after participation, matched IPS participant and control cohorts.



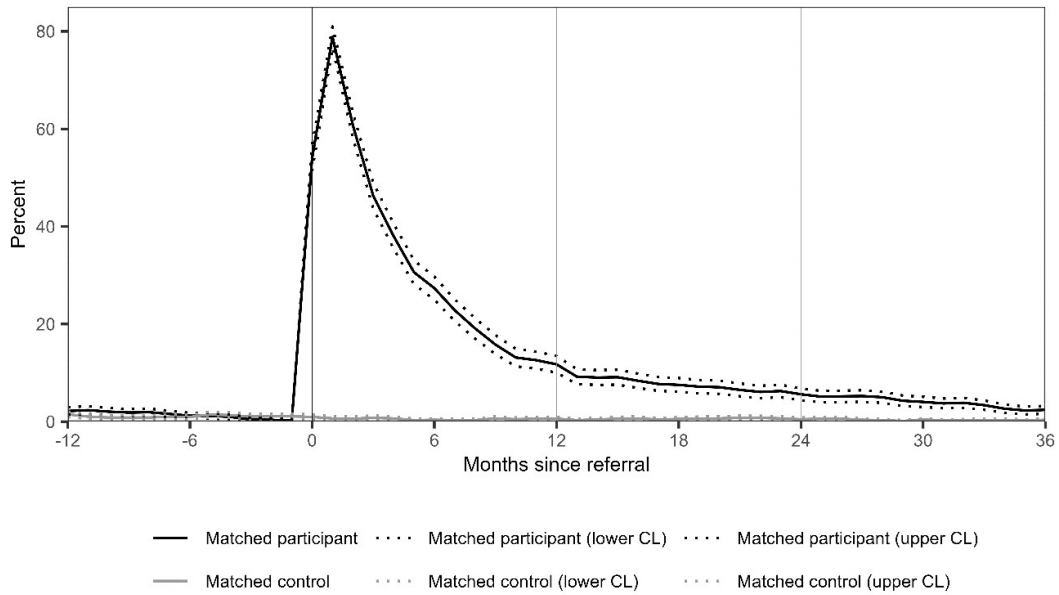
Appendix 3 Figure 3: Percentage in employment and not receiving a main benefit before and after participation, matched IPS participant and control cohorts.



Appendix 3 Figure 4: Percentage with a face-to-face activity with a mental health team before and after participation, matched IPS participant and control cohorts.



Appendix 3 Figure 5: Percentage with a face-to-face activity with an IPS team before and after participation, matched IPS participant and control cohorts.



Note: the very low but non-zero face-to-face activity with an IPS team among the matched control cohort represents cases where a person spent some time in another DHB with IPS (outside of the five IPS DHBs examined here) and had IPS contact in that DHB.

Appendix 3 Table 1: Match rates, total participant population and sub-populations.

	Total participants	Matched participants	Matched controls	Percent of participants matched
All participants	1,839	1,659	1,503	90.2
Māori participants	579	507	468	87.6
Female participants	801	669	621	83.5
Male participants	1,038	876	801	84.4
Matching with non-IPS areas	1,839	1,527	1,398	83.0

Note: matched female and male sub-populations do not sum to the total matched counts because matching was conducted afresh for each of the sub-groups to ensure samples matched on gender.

Appendix 3 Table 2: Socio-demographic profile of IPS cohort and matched control cohort, total cohort.

Characteristic	Matched participant (%)	Matched control, weighted (%)	Unmatched participant (%)
Female	44.4	43.5	38.3
Age at participation			
18–24 years old	24.6	24.3	25.0
25–34 years old	24.3	23.9	28.3
35–44 years old	23.6	24.8	25.0
45–54 years old	19.9	20.3	16.7
55–62 years old	8.0	7.1	5.0
One or more children	25.0	27.4	25.0
Living in Auckland	38.2	38.2	55.0
New Zealand Index of Deprivation (NZDep)			
Deciles 1–2 (least deprived)	6.5	7.1	8.3
Deciles 3–4	10.5	11.2	13.3
Deciles 5–6	15.6	14.3	15.0
Deciles 7–8	25.9	26.1	26.7
Deciles 9–10 (most deprived)	39.1	38.2	38.3
Māori ethnicity	31.0	31.0	40.0
Pacific peoples ethnicity	8.0	8.0	21.7
European ethnicity	73.7	74.6	66.7
Asian ethnicity	8.5	8.9	11.7
MELAA ethnicity	2.9	2.9	0.0
Received a main benefit in past month	80.3	80.6	80.0
Received Supported Living Payment	27.0	26.8	25.0
Received Jobseeker Support—Health and Disability	38.9	38.4	45.0
In education or training in month before participation	7.4	7.8	5.0
Served a community sentence in past 3 years	28.8	29.2	26.7
Served a prison sentence in past 3 years	13.0	14.7	13.3
One or more offences committed in past 3 years	41.5	41.7	55.0

Appendix 3 Table 2 (continued): Socio-demographic profile of IPS cohort and matched control cohort, total cohort.

Services in past 3 years			
Prescribed anti-depressant medication	56.7	58.0	76.7
Prescribed anti-psychotic medication	54.9	55.1	98.3
Schizophrenia diagnosis in PRIMHD	16.1	15.2	45.0
Bipolar disorder diagnosis in PRIMHD	17.2	16.7	28.3
Substance use disorder diagnosis in PRIMHD	7.2	7.1	30.0
Four or more crisis contacts with mental health service	66.7	65.2	90.0
Any mental health diagnosis in PRIMHD	58.0	55.3	95.0
One or more mental health-related hospitalisations	33.2	31.7	65.0
One or more non-mental health-related hospitalisations	33.3	34.2	31.7
One or more self-harm related hospitalisations	8.3	7.6	10.0
One or more emergency department visits	58.9	60.3	68.3
Population (n)	1,656	1,656	180

Note: weighting accounts for some non-participants being matched to more than one participant.

Appendix 3 Table 3: Profile of matched IPS participant and control cohorts, Māori participants.

Characteristic	Matched participant (%)	Matched control (weighted %)
Female gender	41.8	43.8
Age at participation		
18–24 years old	24.7	24.3
25–34 years old	27.6	25.4
35–44 years old	24.1	27.8
45–54 years old	17.6	17.8
55–62 years old	5.9	4.1
One or more children	32.4	33.7
Living in Auckland	28.2	27.8
New Zealand Index of Deprivation (NZDep)		
Deciles 1–2 (least deprived)	2.4	4.1
Deciles 3–4	5.3	4.1
Deciles 5–6	10.0	14.8

Appendix 3 Table 3 (continued): Profile of matched IPS participant and control cohorts, Māori participants.

Deciles 7–8	25.9	26.0
Deciles 9–10 (most deprived)	52.9	46.7
Māori ethnicity	100.0	100.0
Pacific peoples ethnicity	7.6	7.7
European ethnicity	52.9	49.7
Asian ethnicity	1.8	3.6
MELAA ethnicity	2.4	3.6
Received a main benefit in past month	87.6	87.6
Received Supported Living Payment	34.1	34.3
Received Jobseeker Support—Health and Disability	36.5	33.7
In education or training in past month	7.1	5.9
Served a community sentence in past 3 years	42.4	47.3
Served a prison sentence in past 3 years	21.8	23.1
One or more offences committed in past 3 years	55.3	58.6
Services in past 3 years		
Prescribed anti-depressant medication	44.1	43.2
Prescribed anti-psychotic medication	60.6	60.4
Schizophrenia diagnosis in PRIMHD	21.2	26.0
Bipolar disorder diagnosis in PRIMHD	19.4	20.1
Substance use disorder diagnosis in PRIMHD	8.2	8.9
Four or more crisis contacts with mental health service	69.4	70.4
Any mental health diagnosis in PRIMHD	59.4	59.2
One or more mental health-related hospitalisations	38.8	41.4
One or more non-mental health-related hospitalisations	32.9	34.9
One or more self-harm related hospitalisations	8.2	10.1
One or more emergency department visits	62.4	66.9
Population (n)	510	510

Note: weighting accounts for some non-participants being matched to more than one participant.

Appendix 3 Table 4: Profile of matched IPS participant and control cohorts, those identifying as female.

Characteristic	Matched participant (%)	Matched control (weighted %)
Female gender	100.0	100.0
Age at participation		
18–24 years old	22.8	24.2
25–34 years old	22.8	23.8
35–44 years old	22.3	21.5
45–54 years old	22.3	22.9
55–62 years old	8.9	7.6
One or more children	30.4	32.7
Living in Auckland	37.9	37.7
New Zealand Index of Deprivation (NZDep)		
Deciles 1–2 (least deprived)	7.6	9.0
Deciles 3–4	11.2	11.7
Deciles 5–6	15.6	17.0
Deciles 7–8	25.9	28.7
Deciles 9–10 (most deprived)	36.6	32.3
Māori ethnicity	28.6	28.7
Pacific peoples ethnicity	6.7	6.7
European ethnicity	76.3	78.0
Asian ethnicity	9.8	9.9
MELAA ethnicity	1.8	2.2
Received a main benefit in past month	75.9	76.2
Received Supported Living Payment	21.0	21.1
Received Jobseeker Support—Health and Disability	36.2	35.4
In education or training in past month	9.4	10.8
Served a community sentence in past 3 years	16.1	17.5
Served a prison sentence in past 3 years	5.4	5.8
One or more offences committed in past 3 years	30.4	31.4

Appendix 3 Table 4 (continued): Profile of matched IPS participant and control cohorts, those identifying as female.

Services in past 3 years		
Prescribed anti-depressant medication	63.4	63.2
Prescribed anti-psychotic medication	47.3	50.7
Schizophrenia diagnosis in PRIMHD	8.0	9.0
Bipolar disorder diagnosis in PRIMHD	16.5	16.1
Substance use disorder diagnosis in PRIMHD	6.3	5.8
Four or more crisis contacts with mental health service	64.7	64.6
Any mental health diagnosis in PRIMHD	55.8	56.1
One or more mental health-related hospitalisations	31.7	30.5
One or more non-mental health-related hospitalisations	39.7	42.2
One or more self-harm related hospitalisations	11.6	12.1
One or more emergency department visits	61.6	63.2
Population (n)	672	672

Note: weighting accounts for some non-participants being matched to more than one participant.

Appendix 3 Table 5: Profile of matched IPS participant and control cohorts, those identifying as male.

Characteristic	Matched participant (%)	Matched control (weighted %)
Female gender	0.0	0.0
Age at participation		
18–24 years old	26.1	27.1
25–34 years old	25.1	23.7
35–44 years old	23.4	23.0
45–54 years old	18.2	18.6
55–62 years old	7.9	7.6
One or more children	20.6	23.0
Living in Auckland	37.8	37.8
New Zealand Index of Deprivation (NZDep)		
Deciles 1–2 (least deprived)	5.8	4.5
Deciles 3–4	10.3	9.6
Deciles 5–6	14.4	15.1

Appendix 3 Table 5 (continued): Profile of matched IPS participant and control cohorts, those identifying as male.

Deciles 7–8	25.4	26.1
Deciles 9–10 (most deprived)	41.6	40.5
Māori ethnicity	32.0	32.0
Pacific peoples ethnicity	7.9	8.2
European ethnicity	71.1	71.5
Asian ethnicity	6.9	7.2
MELAA ethnicity	3.8	3.1
Received a main benefit in past month	83.5	83.8
Received Supported Living Payment	30.6	30.6
Received Jobseeker Support—Health and Disability	41.2	42.6
In education or training in past month	6.2	5.5
Served a community sentence in past 3 years	39.9	39.5
Served a prison sentence in past 3 years	20.3	19.9
One or more offences committed in past 3 years	51.9	51.2
Services in past 3 years		
Prescribed anti-depressant medication	49.5	50.5
Prescribed anti-psychotic medication	56.0	55.0
Schizophrenia diagnosis in PRIMHD	19.2	21.0
Bipolar disorder diagnosis in PRIMHD	16.5	17.2
Substance use disorder diagnosis in PRIMHD	7.9	7.6
Four or more crisis contacts with mental health service	66.3	63.9
Any mental health diagnosis in PRIMHD	56.4	54.6
One or more mental health-related hospitalisations	32.0	30.6
One or more non-mental health-related hospitalisations	27.1	25.8
One or more self-harm related hospitalisations	6.2	6.2
One or more emergency department visits	55.7	57.7
Population (n)	873	873

Note: weighting accounts for some non-participants being matched to more than one participant.

Appendix 3 Table 6: Outcomes over a 36-month follow-up, those identifying as female.

	Matched participants	Matched controls	Difference in means	Confidence limits
Employment and benefits				
In employment at 12 months (%)	29.15	15.70	13.58**	(8.56, 18.60)
In employment at 24 months (%)	31.39	21.97	9.40**	(3.94, 14.86)
In employment at 36 months (%)	31.84	24.66	7.01*	(1.40, 12.63)
Any employment (months)	10.03	6.59	3.43**	(2.04, 4.83)
Employment on benefit (months)	3.10	1.82	1.28**	(0.69, 1.87)
Employment independent of benefit (months)	6.93	4.77	2.15**	(0.89, 3.41)
Time on main benefit (months)	23.06	24.42	-1.36	(-3.17, 0.46)
Income and transfers (NZ\$ 2021)				
Net income from all sources	68,980	69,331	-351	(-5,669, 4,966)
Net income from employment	21,840	14,783	7,047**	(2,901, 11,192)
Net income from MSD benefits	42,635	47,502	-4,860*	(-8,861, -860)
Net income from other transfer payments	3,564	6,022	-2,454	(-5,212, 303)
Net tax	-8,312	-7,674	-637	(-1,469, 196)
Net government transfers (net tax+net income from transfers)	37,887	45,850	-7,951**	(-13,150, -2,753)
Justice				
Any corrections sentence (months)	0.91	1.12	-0.21	(-0.71, 0.30)
Custodial sentence (months)	0.03	0.06	-0.03	(-0.11, 0.05)
Study and qualifications				
Enrolled (months)	3.90	3.49	0.41	(-0.41, 1.23)
Gained a qualification	8.52	5.83	2.84	(-0.28, 5.95)
Gained at least a level 2 qualification	5.83	3.14	2.54	(0.10, 4.98)
Gained at least a level 3 qualification	5.38	3.59	1.64	(-0.84, 4.12)
Gained at least a level 4 qualification	4.04	3.59	0.30	(-2.08, 2.68)
Health service usage				
Mental health service face-to-face contact (months)	15.69	11.43	4.26**	(2.78, 5.74)
Mental health service face-to-face contacts (count)	87.85	67.57	20.25	(-0.94, 41.45)

Appendix 3 Table 6 (continued): Outcomes over a 36-month follow-up, those identifying as female.

IPS team face-to-face contacts (months)	5.38	0.14	5.23**	(4.80, 5.67)
IPS team face-to-face contacts (count)	11.72	0.30	11.41**	(10.29, 12.53)
Mental health inpatient stay (%)	21.52	15.70	6.27**	(1.46, 11.08)
Mental health inpatient stay (count)	0.61	0.43	0.15**	(-0.05, 0.36)
Non-mental health inpatient stay (%)	35.43	43.95	-8.06*	(-14.24, -1.88)
Non-mental health inpatient stay (count)	1.25	1.51	-0.19	(-0.58, 0.19)
Emergency department visit (%)	58.30	59.64	-1.19	(-7.40, 5.01)
Emergency department visit (count)	3.08	2.74	0.32	(-0.54, 1.17)
Hospital discharge for self-harm (%)	9.42	8.52	0.75	(-2.85, 4.34)
Hospital discharge for self-harm (count)	0.32	0.21	0.11	(-0.08, 0.30)
Mental health service crisis contact (%)	49.33	42.15	7.16	(0.90, 13.42)
Mental health service crisis contacts (count)	7.26	4.65	1.66	(-0.21, 3.54)

Note: significance is based on false discovery rate adjusted q-values (*q<0.05, **q<0.01).

Appendix 3 Table 7: Outcomes over a 36-month follow-up, those identifying as male.

	Matched participants	Matched controls	Difference in means	Confidence limits
Employment and benefits				
In employment at 12 months (%)	26.46	18.90	7.32*	(2.54, 12.11)
In employment at 24 months (%)	28.18	21.31	6.75*	(1.78, 11.72)
In employment at 36 months (%)	27.84	22.34	5.61	(0.60, 10.61)
Any employment (months)	9.11	6.85	2.26**	(0.98, 3.54)
Employment on benefit (months)	2.38	1.45	0.93**	(0.47, 1.39)
Employment independent of benefit (months)	6.73	5.40	1.33	(0.15, 2.50)
Time on main benefit (months)	25.06	23.58	1.47	(-0.14, 3.09)
Income and transfers (NZ\$ 2021)				
Net income from all sources	67,029	61,006	6,016*	(2,048, 9,984)
Net income from employment	23,842	18,928	4,909	(528, 9,289)
Net income from MSD benefits	41,388	39,700	1,686	(-1,305, 4,676)
Net income from other transfer payments	1,477	1,763	-286	(-1,379, 808)
Net tax	-8,778	-7,848	-929	(-1,841, -17)

Appendix 3 Table 7: Outcomes over a 36-month follow-up, those identifying as male.

Net government transfers (net tax+net income from transfers)	34,086	33,614	471	(-2,972, 3,915)
Justice				
Any corrections sentence (months)	2.26	2.92	-0.66	(-1.50, 0.18)
Custodial sentence (months)	0.29	0.65	-0.36	(-0.71, -0.01)
Study and qualifications				
Enrolled (months)	2.07	2.25	-0.18	(-0.79, 0.43)
Gained a qualification	4.81	3.78	1.37	(-0.92, 3.66)
Gained at least a level 2 qualification	3.09	1.37	1.83	(0.21, 3.45)
Gained at least a level 3 qualification	3.09	1.72	0.92	(-0.82, 2.65)
Gained at least a level 4 qualification	2.06	2.41	-0.46	(-2.20, 1.28)
Health service usage				
Mental health service face-to-face contact (months)	16.87	12.73	4.14**	(2.66, 5.61)
Mental health service face-to-face contacts (count)	93.69	77.02	16.66	(-1.97, 35.29)
IPS team face-to-face contacts (months)	5.05	0.19	4.86**	(4.49, 5.22)
IPS team face-to-face contacts (count)	10.82	0.38	10.42**	(9.51, 11.33)
Mental health inpatient stay (%)	23.02	19.93	3.32**	(-1.44, 8.08)
Mental health inpatient stay (count)	0.71	0.53	0.16**	(-0.01, 0.32)
Non-mental health inpatient stay (%)	26.80	27.49	-0.92	(-6.13, 4.30)
Non-mental health inpatient stay (count)	0.66	0.68	-0.02	(-0.21, 0.17)
Emergency department visit (%)	56.36	55.33	0.80	(-5.02, 6.62)
Emergency department visit (count)	2.20	2.05	0.15	(-0.37, 0.67)
Hospital discharge for self-harm (%)	6.87	4.81	1.95	(-0.73, 4.62)
Hospital discharge for self-harm (count)	0.14	0.07	0.06	(0.00, 0.11)
Mental health service crisis contact (%)	47.42	42.61	4.92	(-0.89, 10.73)
Mental health service crisis contacts (count)	5.19	4.45	0.48	(-0.91, 1.87)

Note: significance is based on false discovery rate adjusted q-values (* q<0.05, ** q<0.01).

Appendix 3 Table 8: Outcomes and costs over a 36-month follow-up, matching with non-IPS areas.

	Matched participants	Matched controls	Difference in means	Confidence limits
Employment and benefits				
In employment at 12 months (%)	28.09	19.84	8.31**	(4.64, 11.98)
In employment at 24 months (%)	30.45	23.38	6.94**	(3.09, 10.79)
In employment at 36 months (%)	30.65	23.77	6.68**	(2.81, 10.54)
Any employment (months)	9.78	7.49	2.29**	(1.31, 3.27)
Employment on benefit (months)	2.74	1.92	0.82**	(0.41, 1.22)
Employment independent of benefit (months)	7.04	5.56	1.47**	(0.58, 2.36)
Time on main benefit (months)	23.91	23.97	-0.56	(-1.29, 1.18)
Income and transfers (NZ\$ 2021)				
Net income from all sources	68,213	63,957	4,254*	(914, 7,595)
Net income from employment	23,622	17,992	5,627**	(2,548, 8,705)
Net income from MSD benefits	41,316	42,054	-738	(-3,189, 1,714)
Net income from other transfer payments	2,477	3,206	-729	(-2,162, 704)
Net tax	-8,694	-7,712	-982**	(-1,598, -366)
Net government transfers (net tax+net income from transfers)	35,098	37,549	-2,449	(-5,499, 602)
Justice				
Any corrections sentence (months)	1.66	1.76	-0.10	(-0.60, 0.39)
Custodial sentence (months)	0.18	0.34	-0.16	(-0.35, 0.03)
Study and qualifications				
Enrolled (months)	2.99	2.94	0.05	(-0.50, 0.59)
Gained a qualification	6.68	5.89	0.72	(-1.40, 2.84)
Gained at least a level 2 qualification	4.32	2.16	2.03*	(0.54, 3.52)
Gained at least a level 3 qualification	4.13	2.95	1.11	(-0.48, 2.71)
Gained at least a level 4 qualification	2.95	4.32	-1.44	(-3.13, 0.25)
Health service usage				
Mental health service face-to-face contact (months)	15.95	11.25	4.70**	(3.67, 5.73)

Appendix 3 Table 8: Outcomes and costs over a 36-month follow-up, matching with non-IPS areas.

Mental health service face-to-face contacts (count)	86.42	73.76	12.66	(-4.13, 29.45)
IPS team face-to-face contacts (months)	5.08	0.02	5.06**	(4.79, 5.32)
IPS team face-to-face contacts (count)	10.95	0.04	10.90**	(10.23, 11.57)
Mental health inpatient stay (%)	22.00	18.07	4.06*	(0.58, 7.54)
Mental health inpatient stay (count)	0.65	0.53	0.11	(-0.04, 0.25)
Non-mental health inpatient stay (%)	31.04	32.22	-1.18	(-5.29, 2.94)
Non-mental health inpatient stay (count)	0.94	0.89	0.04	(-0.15, 0.22)
Emergency department visit (%)	57.76	51.28	6.35*	(1.95, 10.75)
Emergency department visit (count)	2.51	2.78	-0.26	(-1.30, 0.78)
Hospital discharge for self-harm (%)	8.25	6.68	1.44	(-0.84, 3.72)
Hospital discharge for self-harm (count)	0.22	0.15	0.07	(-0.04, 0.17)
Mental health service crisis contact (%)	47.94	39.69	8.25**	(3.90, 12.60)
Mental health service crisis contacts (count)	6.26	4.93	0.84	(-0.55, 2.22)

Note: significance is based on false discovery rate adjusted q-values (*q<0.05, **q<0.01).