

The impact of employment on mental healthcare use among people with disability: distinguishing between part- and full-time employment¹

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1. Supplementary material
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Table S1. Mental health services item numbers

The following list of Medicare-reimbursed mental health related care is provided directly from the Australian Institute of Health and Welfare (36). This is a complete list of all Medicare-subsidised mental health specific services that were reimbursed at any time on the Medicare Benefits Schedule (MBS) between 2011 to 2022. This complete list therefore includes all MBS item numbers including those that may have been discontinued or added, aggregated, or otherwise amended throughout this observation window. Not all item numbers will be present in our sample. For example, as our analysis runs from 2011 to 2019, COVID-19 related mental health services are not included. Similarly, we have excluded inpatient mental health services.

Provider type	Item group	MBS group & subgroup	MBS item numbers
Psychiatrists	Initial consultation new patient	Group A8	296, 297, 299
	Patient attendances – consulting room	Group A8	291, 293, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 319
	Patient attendances – consulting room- review of eating disorder treatment and management plan	Group A36	90266
	Patient attendances – videoconference - review of eating disorder treatment and management plan	Group A36	90268
	COVID-19 services – Patient attendances – telehealth	Group A40	91827, 91828, 91829, 91830, 91831, 91837, 91838, 91839, 91840, 91841, 92461 ^(b) , 92462 ^(b) , 92463 ^(b) , 92464 ^(b) , 92465 ^(b) , 92501 ^(b) , 92502 ^(b) , 92503 ^(b) , 92504 ^(b) , 92505 ^(b) , 92506 ^(b)
	Patient attendances – hospital	Group A8	320, 322, 324, 326, 328

Provider type	Item group	MBS group & subgroup	MBS item numbers
	Patient attendances – other locations	Group A8	330, 332, 334, 336, 338
	Group psychotherapy	Group A8	154 ^(a) , 155 ^(a) , 156 ^(a) , 342, 344, 346
	COVID-19 services – Group psychotherapy	Group A40	92455, 92456, 92457, 92495, 92496, 92497
	Interview with non-patient	Group A8	157 ^(a) , 158 ^(a) , 159 ^(a) , 348, 350, 352
	COVID-19 services- Interview with non-patient	Group A40	92458, 92459, 92460, 92498, 92499, 92500
	Telepsychiatry	Group A8	288, 353, 355, 356, 357, 358, 359, 361
	Telepsychiatry follow up – face-to-face	Group A8	364, 366, 367, 369, 370
	Case conferencing	Group A15	855, 857, 858, 861, 864, 866
	Electroconvulsive therapy	Group T1, Subgroup 13	14224, 340 ^(a) , 886 ^(a)
	Electroconvulsive therapy	Group T3	153 ^(a)
	Referred consultation for assessment, diagnosis and development of a treatment and management plan for autism or any other pervasive developmental disorder (PDD)	Group A8	289
	Eating Disorders Treatment Plan	Group A36	90260, 90262
	COVID-19 services – Eating Disorders Treatment Plan	Group A40	92162, 92166
	COVID-19 services – telehealth and phone services	Group A40	92172, 92178, 92434, 92435, 92436, 92437, 92466 ^(b) , 92474, 92475, 92476, 92477
General practitioners	GP Mental Health Treatment Plan – accredited	Group A20, Subgroup 1	2710 ^(a) , 2715, 2717
		Group A7	281, 282

Provider type	Item group	MBS group & subgroup	MBS item numbers
	COVID-19 GP Mental Health Treatment Plan – accredited	Group A40	92116, 92117, 92122, 92123, 92128, 92129, 92134, 92135
	COVID-19 GP Mental Health Treatment Plan – accredited (aged care facility)	Group A42	93402, 93406, 93407, 93410, 93411, 93433, 93434, 93437, 93438, 93441, 93442
	GP Mental Health Treatment Plan – non-accredited	Group A20, Subgroup 1	2700, 2701, 2702 ^(a)
		Group A7	272, 276
	GP Mental Health Treatment – other	Group A20, Subgroup 1	2712, 2713, 2719 ^(a)
		Group A7	277, 279, 894, 896, 898
		Group A30	2121, 2150, 2196
	COVID-19 GP Mental Health Treatment Plan – non-accredited	Group A40	92112, 92113, 92114, 92115, 92118, 92119, 92120, 92121, 92124, 92125, 92126, 92127, 92130, 92131, 92132, 92133, 92170, 92171, 92173, 92176, 92177, 92179
		Group A42	93421, 93422, 93423, 93451, 93452, 93453
	COVID-19 GP Mental Health Treatment Plan – non-accredited (aged care facility)	Group A42	93400, 93401, 93403, 93404, 93405, 93408, 93409, 93431, 93432, 93435, 93436, 93439, 93440
	COVID-19 GP Mental Health Treatment Plan – eating disorder services	Group A36	90264, 90267, 90269, 90271, 90272, 90273, 90274, 90275, 90276, 90277, 90278, 90279, 90280, 90281, 90282
	GP Eating Disorders Plan	Group A36	90250, 90251, 90252, 90253, 90254, 90255, 90256, 90257, 90261, 90263
		Group A40	92163, 92167
	COVID-19 GP Eating Disorder Treatment and Management Plan – Telehealth Service	Group A40	92146, 92147, 92148, 92149, 92150, 92151, 92152, 92153, 92154, 92155, 92156, 92157, 92158, 92159, 92160, 92161

Provider type	Item group	MBS group & subgroup	MBS item numbers
	Focussed Psychological Strategies	Group A20, Subgroup 2	2721, 2723, 2725, 2727, 2729, 2731, 2733, 2735
		Group A7	283, 285, 286, 287, 371, 372, 941, 942
	Focussed Psychological strategies – COVID-19 services	Group A40	91818, 91819, 91820, 91821, 91842, 91843, 91844, 91845, 92182, 92184, 92186, 92188, 92194, 92196, 92198, 92200, 93287, 93288, 93291, 93292, 93300, 93301, 93302, 93303, 93304, 93305, 93306, 93307, 93308, 93309, 93310, 93311
	Focussed Psychological Strategies - bushfire affected people	Group A39	91283, 91285, 91286, 91287, 91371, 91372, 91721, 91723, 91725, 91727, 91729, 91731
	Family Group Therapy	Group A6	170, 171, 172, , 996(a), 997(a), 998(a)
	Family Group Therapy	Group A7	221, 222, 223
	Electroconvulsive therapy	Group T10	20104
	3 Step Mental Health Process – general practitioner^(a)	Group A18, Subgroup 4	2574 ^(a) , 2575 ^(a) , 2577 ^(a) , 2578 ^(a)
	3 Step Mental Health Process – other medical professional^(a)	Group A19, Subgroup 4	2704 ^(a) , 2705 ^(a) , 2707 ^(a) , 2708 ^(a)
Clinical psychologists	Psychological Therapy Services	Group M6	80000, 80001, 80005, 80010, 80011, 80015, 80020, 80021
	Eating Disorders Psychological Treatment	Group M16	82352, 82353, 82354, 82355, 82356, 82357, 82358, 82359
		Group M18	93076, 93079, 93110, 93113
	Focussed Psychological Strategies - bushfire affected people	Group M17	91000, 91001, 91005, 91010, 91011, 91015
	COVID-19 Psychological Therapy Services	Group M25	93312, 93313, 93330, 93331, 93332, 93333, 93334, 93335, 93375, 93376
	Enhanced Primary Care	Group M3	10968

Provider type	Item group	MBS group & subgroup	MBS item numbers
Psychologists including clinical psychologists	Focussed Psychological Strategies (Allied Mental Health)	Group M7	80100, 80101, 80105, 80110, 80111, 80115, 80120, 80121, 91169, 91170, 91183, 91184
	Focussed Psychological Strategies - bushfire affected people	Group M17	91100, 91101, 91105, 91110, 91111, 91115
	COVID-19 Additional focussed psychological strategies	Group M26	93316, 93319, 93350, 93351, 93352, 93353, 93354, 93355
	Initial focussed psychological strategies	Group M28	93381, 93382
	COVID-19 Psychology health service – residential aged care facility	Group M29	93512, 93535, 93557
	Assessment and treatment of PDD	Group A10	82000, 82015
	COVID-19 Telehealth Services	Group M18	91166, 91167, 91181, 91182, 93032, 93035, 93040, 93043
	Allied health service for Indigenous Australians who have had a health check	Group M11	81355
	Eating Disorders Psychological Treatment	Group M16	82360, 82361, 82362, 82363, 82364, 82365, 82366, 82367
		Group M18	93084, 93087, 93118, 93121
	Initial services (allied health service for Indigenous Australians)	Group M30	93590
Other allied health providers	Enhanced Primary Care – mental health worker	Group M3	10956
	Focussed Psychological Strategies (Allied Mental Health) – occupational therapist	Group M7	80125, 80126, 80130, 80135, 80136, 80140, 80145, 80146
	Focussed Psychological Strategies (Allied Mental Health) – social worker	Group M7	80150, 80151, 80155, 80160, 80161, 80165, 80170, 80171

Provider type	Item group	MBS group & subgroup	MBS item numbers
	Focussed Psychological Strategies - bushfire affected people (occupational therapist)	Group M17	91125, 91126, 91130, 91135, 91136, 91140
	Focussed Psychological Strategies - bushfire affected people (social worker)	Group M17	91150, 91151, 91155, 91160, 91161, 91165
	Focussed Psychological Strategies - COVID-19 affected people	Group M18	91172, 91173, 91175, 91176, 91185, 91186, 91187, 91188
	COVID-19 Additional focussed psychological strategies	Group M26	93322, 93323, 93326, 93327, 93362, 93363, 93364, 93365, 93366, 93367, 93356, 93357, 93358, 93359, 93360, 93361
	COVID-19 Initial focussed psychological strategies	Group M28	93383, 93384, 93385, 93386
	Initial allied health service – mental health worker	Group M29	93506, 93529
	Initial allied health service for Indigenous Australians – mental health worker	Group M30	93551, 93584
	Follow-up allied health services for Indigenous Australians – mental health worker	Group M11	81325
	Eating Disorders Services	Group M16	82350, 82351, 82368, 82369, 82370, 82371, 82372, 82373, 82374, 82375, 82376, 82377, 82378, 82379, 82380, 82381, 82382, 82383
		Group M18	93074, 93092, 93095, 93100, 93103, 93108, 93126, 93129, 93134, 93137

(a) Item discontinued.

(b) Item introduced in September 2021.

(c) Item numbers have differing implementation and discontinuation dates. Details are available in the Medicare Benefits Schedule books.

Table S2. Long term effects

Estimated mean difference in mental healthcare use per quarter for up to four quarters after exposure for categories of working hours compared to not working

Outcome	Mental healthcare services per quarter	Mental healthcare services per quarter	Mental healthcare services per quarter	Mental healthcare services per quarter
Time period	First quarter after exposure (1) β [95% CI]	First quarter after exposure (2) β [95% CI]	Third quarter after exposure (3) β [95% CI]	Fourth quarter after exposure (4) β [95% CI]
unemployed (0 hours)	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]
(0-15)	-0.00773*** [-0.01153,-0.00392]	-0.00584** [-0.00947,-0.00221]	-0.00046 [-0.00450,0.00357]	-0.00062 [-0.00492,0.00369]
[15-30)	-0.02016*** [-0.02519,-0.01512]	-0.00682** [-0.01161,-0.00202]	-0.00654* [-0.01216,-0.00092]	-0.00649* [-0.01241,-0.00056]
30 +	-0.02351*** [-0.02970,-0.01733]	-0.00540 [-0.01174,0.00094]	-0.00431 [-0.01129,0.00268]	-0.01082** [-0.01833,-0.00331]
<i>No. person-quarter observations</i>	<i>6,669,765</i>	<i>6,495,245</i>	<i>6,320,426</i>	<i>6,145,914</i>

Notes: * Significant at 10%. ** Significant at 5%. *** Significant at 1%. Standard errors are robust clustered at the individual level. Means provided for each outcome at the quarterly level (overall mean for the whole analytic sample across all quarters). All models control for individual effects, age bin, and year fixed effects. In order to show how effects change with reference to pre-exposure use, model (2) additionally controls for outcome in first quarter after exposure, model (3) additionally controls for outcome in first and second quarter after exposure, model (4) additionally controls for outcome in first, second, and third quarter after exposure.

Table S1. Estimated mean difference in mental health prescription use per quarter for up to four quarters after exposure for categories of working hours compared to not working

Outcome	Mental health scripts per quarter	Mental health scripts per quarter	Mental health scripts per quarter	Mental health scripts per quarter
Time period	First quarter after exposure (1) β [95% CI]	First quarter after exposure (2) β [95% CI]	Third quarter after exposure (3) β [95% CI]	Fourth quarter after exposure (4) β [95% CI]
unemployed (0 hours)	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]	0.00000 [0.00000,0.00000]
(0-15)	-0.01721*** [-0.02250,-0.01192]	-0.03079*** [-0.03614,-0.02544]	-0.01934*** [-0.02572,-0.01295]	-0.02716*** [-0.03475,-0.01956]
[15-30)	-0.04188*** [-0.04883,-0.03494]	-0.03170*** [-0.03904,-0.02436]	-0.03977*** [-0.04861,-0.03092]	-0.04706*** [-0.05770,-0.03641]
30 +	-0.05174*** [-0.06136,-0.04212]	-0.04489*** [-0.05511,-0.03468]	-0.05940*** [-0.07233,-0.04647]	-0.08103*** [-0.09657,-0.06549]
<i>No. person-quarter observations</i>	6,669,765	6,495,245	6,320,426	6,145,914

Notes: * Significant at 10%. ** Significant at 5%. *** Significant at 1%. Standard errors are robust clustered at the individual level. Means provided for each outcome at the quarterly level (overall mean for the whole analytic sample across all quarters). All models control for individual effects, age bin, and year fixed effects. In order to show how effects change with reference to pre-exposure use, model (2) additionally controls for outcome in first quarter after exposure, model (3) additionally controls for outcome in first and second quarter after exposure, model (4) additionally controls for outcome in first, second, and third quarter after exposure.