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ORIGINAL ARTICLE

How long and how much? Wait times and costs for initial private child mental health appointments

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Aim: To determine: (i) wait times and out-of-pocket costs for children attending private specialists for initial mental health appointments; and (ii) whether these differed between specialists working in metropolitan versus rural areas and in low, medium and high socio-economic areas.

Methods: Prospective secret shopper study whereby a researcher posed as a parent seeking an appointment for her child with anxiety or attention-deficit/hyperactivity disorder. We contacted 317 private paediatrician, psychiatrist and psychologist practices in Victoria and South Australia between 12 March and 5 May 2019.

Results: One third (29.8%) of private practices were closed to new referrals. The average wait times for paediatricians, psychiatrists, and psychologists were 44, 41 and 34 days, respectively. Average out-of-pocket costs quoted were AU\$120 for paediatricians, AU\$176 for psychiatrists and AU\$85 for psychologists.

Conclusion: Parents face extensive wait times and substantial out-of-pocket costs when seeking private mental health services for their child.

Key words: child; cost; health service; mental health; wait time.

What is already known on this topic

- 1 Only 56% of children and adolescents with a mental health disorder had accessed mental health care in 2013–2014.
- 2 Long wait times and high costs are the most common reasons given by parents for not accessing services with mental health professionals for their child.

What this paper adds

- 1 We provide the first objective Australian data on wait times and costs incurred by families seeking care for their child with mental health problems.
- 2 Families face long wait times and substantial out-of-pocket costs when seeking an appointment with a paediatrician, psychiatrist or psychologist in the community.

One in seven (14%) Australian children aged 4–17 years met criteria for a mental health disorder in 2013–2014.¹ In Australia, approximately 3% of children and adolescents with mental health problems are managed by the public health system¹ and these are typically the most complex cases. As such, most care is delivered privately. However, only 56% of children with a mental health disorder had accessed mental health services in 2013–2014.² A systematic review of the literature identified a range of key barriers to parents accessing services for their child, including mental health literacy, stigma, familial circumstances and accessibility of services.³ In the most recent

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epidemiological survey of youth mental health in Australia, long wait times and high costs for appointments with mental health professionals were the two most common reasons given by parents for not accessing services.³ Despite this, the actual wait times and costs for child and adolescent mental health services in the private sector in Australia have not been quantified. An accurate understanding of these is essential for policy makers to ensure children and young people receive timely and affordable care.^{4,5} Further, given that mental health disorders are more prevalent in rural than metropolitan regions¹ and in lower socio-economic status (SES) than high SES areas,^{6,7} and that there are fewer public services in rural versus metropolitan areas, understanding barriers to care in these areas is essential.

Children and adolescents with mental health problems most commonly attend general practitioners (GPs) (35%) followed by private specialists including psychologists (24%), paediatricians (21%) and child and adolescent psychiatrists (7%) for assessment and treatment of mental health problems. Given that GPs tend

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to see children for one visit only, most likely to organise a referral to a specialist, in this paper, we specifically consider services to specialists working in child mental health, that is paediatricians, child and adolescent psychiatrists and child and adolescent psychologists. In Australia, public services have no fee to the patient whereas private health-care providers charge a fee which is subsidised by the federal government. In many cases the subsidy does not cover the total fee and thus patients will incur out-of-pocket costs (upfront cost minus the government rebate amount).

There is a scarcity of Australian data on wait times and costs for children to see a private mental health specialist. Kunin, Allen⁹ found the average wait time for a general paediatric appointment in metropolitan Melbourne was 33 days with an out-of-pocket cost of \$128. However, in Kunin *et al.*'s study the appointments were for physical health complaints (i.e. a 3-year-old child with asthma, or an 8-month-old with eczema). Wait times to see a paediatrician for a mental health problem are typically reported to be longer than those for physical health problems.¹⁰ A number of studies¹¹⁻¹⁴ have reported wait times for child and adolescents mental health services, with wait times for child psychiatric consultations ranging from 8¹² to 46 days.¹¹ However, these studies report on countries with substantially different health-care systems to Australia's.

We therefore aimed to determine the wait times and outof-pocket costs for initial consultations with Australian private paediatricians, child and adolescent psychiatrists and psychologists for mental health services. Given that child mental health problems are more prevalent in rural Australia and in low SES areas¹ and that most psychiatrists and psychologists practice in major cities across Australia,¹⁵ we also aimed to compare costs and wait times between specialists working in rural versus metropolitan areas and across low, middle and high SES areas.

Methods

Sample

Lists of currently practising paediatricians, child and adolescent psychiatrists (hereafter referred to as psychiatrists) and child and adolescent psychologists (hereafter referred to psychologists) in Victoria and South Australia were generated. These specialist details were originally sourced from the Australian Paediatric Research Network,¹⁶ publicly available specialty directory sites (for psychiatrists¹⁷ and psychologists¹⁸) and online Google searches. These lists were used to generate a purposeful sample of paediatricians, psychiatrists and psychologists from both states with a range of remoteness and SES levels based on practice postcode. Specialists were excluded if online search details suggested they were subspecialists in a non-mental health field of paediatrics (e.g. paediatric allergists) or did not provide services to children. The population of Victoria is 6.7 million with 5.1 million people living in greater Melbourne. 19,20 Whilst the population of South Australia is 1.8 million with approximately 1.4 million people living in Adelaide. 19,20

Data collection

A 'secret shopper' method was used; a well-known and commonly used technique to determine the actual availability and patient cost of services. A member of the study team (CL) made telephone calls to the private practices of the specialists posing as a parent seeking treatment for her child with a mental health problem. A mobile phone was used to make all calls so that the receptionists did not see the area code from where the call was being made. Telephone calls were made between 12th March 2019 and 5th May 2019. One of two randomly assigned clinical vignettes (see Appendix S1, Supporting Information) were utilised to guide the telephone interaction. The vignettes were:

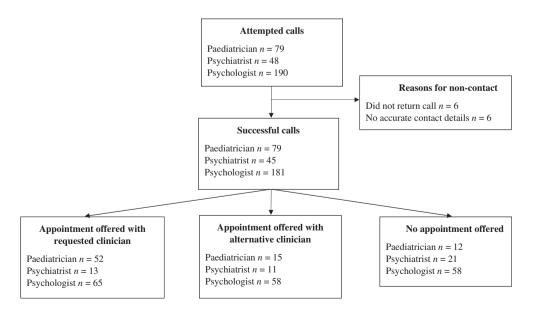


Fig 1 Phone calls conducted and appointment availability.

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- 1 An 11-year-old girl with likely anxiety
- 2 A boy in grade 2 with likely attention deficit hyperactivity disorder (ADHD)

These clinical vignettes were developed in consultation with practising paediatricians, psychologists and psychiatrists. The vignettes were deliberately designed to reflect core symptoms of anxiety and ADHD (the two most common mental health problems in childhood1) and to be 'average' referrals (i.e. were not designed to elicit responses to an urgent mental health problem). An attempt was made to book an appointment with a specific specialist from the list, informing clerical staff that there was a referral from a GP. Each call lasted approximately 4 min. The length of call varied as many receptionists requested additional details in which case the caller provided basic demographic information that matched the scenario in the vignette (e.g. male/ female name of child and date of birth consistent with the child's age). If more detailed information was requested the caller deferred from answering citing a wish not to provide personal information until they had made a decision about booking an appointment.

The number of days (wait time) until the next available appointment time was obtained. For providers in group practices,

Table 1 Clinician reasons for unavailability

Specialist type	Paediatrician, $n = 27, \%$	Psychiatrist, $n = 32, \%$	Psychologist, n = 116, %
Too many patients	25.9	25.0	31.0
Does not treat age range	3.7	28.1	22.4
Sub-specialist	11.1	9.4	2.6
Other†	33.3	9.4	21.6
No reason given	25.9	25.0	20.7

†Includes: no longer working at practice, personal reasons, retired/retiring, on leave.

if an appointment with the specified specialist was unable to be scheduled, the reason was noted and the time of the first available appointment with any other specialist at the practice was obtained. The out-of-pocket costs for an initial appointment were also recorded.

When an appointment time was offered, we deferred from accepting the appointment and stated that we would call back if the appointment was needed. No appointments were actually booked with any provider. There were no differences in wait times or costs according to which vignette was used and as such results are presented as a whole.

This study received ethics approval from the Human Research Ethics Committee at The Royal Children's Hospital, Melbourne.

Statistical analysis

Descriptive measurements of the wait times and costs were determined using the statistical software package Stata Statistical Software Release 15. Using the postcode of private practices and the Australian Bureau of Statistics' indexing tools,²³ practice remoteness (Accessibility/Remoteness Index of Australia) and SES (Index of Relative Socioeconomic Disadvantage) were determined. Analyses of variance and t-tests were used to examine differences between the subsets of samples with the exception of paediatrician wait times where we present non-parametric test (Mann–Whitney and Kruskal–Wallis) results due to skewed data.

Results

Based on workforce proportions of specialists we aimed to survey 200 psychologists, 100 paediatricians and 50 psychiatrists. Overall, 198 psychologists, 81 paediatricians and 48 psychiatrists were contacted from Victoria and South Australia (see Fig. 1). Thirty-two per cent of psychologists, 46.7% of psychiatrists and 15.2% of paediatricians were unable to offer an appointment, with a further 32.0, 24.4 and 19.0%, respectively, offering an appointment with an alternate specialist at the practice. The main reasons why the requested specialists (all three specialist types) were unable to offer an appointment were having too many

Table 2 Clinic locations

		Socio-economic status (SES)†,	%	Location‡	Location‡, %	
Specialist type	Low	Medium	High	Metropolitan	Rural	
Paediatrician						
Victoria (n = 49)	22.9	18.8	58.3	83.3	16.7	
South Australia ($n = 32$)	16.1	32.3	51.6	87.1	12.9	
Psychiatrist						
Victoria (n = 31)	9.7	25.8	64.5	80.7	19.4	
South Australia ($n = 14$)	0.0	21.4	78.6	100.0	0.0	
Psychologist						
Victoria (n = 97)	7.4	33.7	59.0	71.6	28.4	
South Australia ($n = 91$)	19.8	17.4	62.8	88.2	11.8	

†SES determined by Socio-Economic Indexes for Areas decile rank. Low = 1-4, medium = 5-7, high = 8-10.

#Location based on Accessibility/Remoteness Index of Australia where: metropolitan = major cities, rural = inner regional, outer regional, remote.

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Table 3 Wait time (days)

	n (%)	Median (IQR)	Range	t/F†	df	P value
Paediatrician						
Overall	67	44 (23-94)	1-550			
Location‡				-0.51		0.61
Metropolitan	58 (87)	46 (23-81)	1-550			
Rural	9 (13)	31 (28-111)	21-229			
SES§				0.60	2	0.74
Low	12 (18)	32 (23-81)	21-550			
Medium	16 (24)	36 (6-105)	1–191			
High	39 (58)	49 (27-94)	1–366			
Psychiatrist						
Overall	22	41 (17–75)	3-170			
Location				-0.40	20	0.69
Metropolitan	18 (82)	30 (14-82)	3-170			
Rural	4 (18)	66 (49-68)	35-68			
SES				0.36	2, 19	0.70
Low	2 (9)	34 (4-63)	4-63			
Medium	6 (27)	41 (24–68)	21-68			
High	14 (64)	44 (14-91)	3-170			
Psychologist						
Overall	123	34 (8-56)	0-201			
Location				-0.92	121	0.36
Metropolitan	99 (80)	31 (6-54)	0-153			
Rural	24 (20)	51 (21-58)	0-201			
SES				0.27	2, 120	0.76
Low	12 (10)	32 (8-63)	0–86			
Medium	33 (27)	35 (13–54)	0-201			
High	78 (63)	33 (7–63)	0-153			

†t-values are reported for location t-tests, F-values are reported for SES ANOVA.

‡SES determined by Socio-Economic Indexes for Areas decile rank. Low = 1−4, medium = 5−7, high = 8−10.

§Location based on Accessibility/Remoteness Index of Australia where: metropolitan = major cities, rural = inner regional, outer regional, remote.

ANOVA, analysis of variance; df, degrees of freedom; IQR, interquartile range; SES, socio-economic status.

current patients (25–31%) and for psychologists and psychiatrists because they do not provide services to children of the age presented in the vignettes (22–28%) (Table 1). The location (SES, rural/metropolitan) of participating clinics is reported in Table 2.

The median wait time was 44 days for paediatricians, 41 days for psychiatrists and 34 days for psychologists (Table 3). Although average wait times were longer in rural compared to metropolitan areas for psychologists and psychiatrists, these associations were non-significant. There were no associations between SES and wait times.

The median out-of-pocket fees quoted for an initial appointment were AU\$120, \$176 and \$85 for paediatricians, psychiatrists and psychologists, respectively (Table 4). Paediatrician and psychologist fees increased with an increasing SES gradient (P < 0.001). Additionally, metropolitan psychologists were more likely to report higher fees than rural psychologists (P < 0.001).

Discussion

The key finding from this study is the substantial number of clinicians for whom access was not possible at the time contact was made by the secret shopper, and the long wait times required to

access child mental health specialists. One third (30%) of private practices were closed to new referrals, and only 43% were able to offer an appointment with the requested clinician. The ability to offer an appointment was often limited because all three specialists types had reached their patient capacity or, for psychologists and psychiatrists, because they did not accept patients under the age of 12 years. This finding highlights the difficulties in accessing child mental health services and the inadequate workforce for younger children, particularly in rural areas.¹⁵

Our data also highlight the substantial financial burden that parents of children with mental health problems experience. Depending on the specialist type, parents can expect to pay an out-of-pocket average of \$85–\$176 for an initial appointment. These estimated costs may differ to the actual costs incurred on the day of the appointment. The latter depends on the amount of time required to assess the child, the number of morbidities identified, and the requirement for follow-up consultations.

Our results show that the out-of-pocket costs for paediatricians and psychologists increase with an increasing SES gradient. This may be due to increased demand – higher-income households are more likely to access care for their children¹ – and/or due to higher practice overhead expenses, such as rent which may drive

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Table 4 Out-of-pocket costs (AU\$) to families for initial appointment

	n (%)†	Median (IQR)	Range	t/F‡	df	P value
Paediatrician						
Overall	71	120 (98-162)	0-253			
Location§				1.91	69	0.06
Metropolitan	60 (85)	120 (98-165)	0-253			
Rural	11 (15)	100 (75-140)	0-141			
SES¶				9.70	2, 68	< 0.001
Low	14 (20)	84 (60-130)	0-148			
Medium	16 (22)	100 (73-115)	0-190			
High	41 (58)	132 (100-183)	57-253			
Psychiatrist						
Overall	25	176 (155-200)	0-415			
Location				-0.36	23	0.72
Metropolitan	20 (80)	176 (126–218)	0-415			
Rural	5 (20)	192 (180-200)	175-246			
SES				1.17	2, 22	0.33
Low	3 (12)	192 (175–275)	175-275			
Medium	6 (24)	190 (155-246)	155-415			
High	16 (64)	176 (100-198)	0-405			
Psychologist						
Overall	124	85 (65–96)	0-171			
Location				4.38	122	< 0.001
Metropolitan	100 (81)	90 (71–100)	0-171			
Rural	24 (19)	58 (50-73)	0-126			
SES				9.01	2, 121	< 0.001
Low	12 (10)	61 (56–70)	0–90			
Medium	32 (26)	70 (53–98)	30-156			
High	80 (64)	91 (76–100)	0-171			

 \dagger Some clinicians were able to provide details about costs but not wait times. Hence, n is different to Table 3.

ANOVA, analysis of variance; df, degrees of freedom; IQR, interquartile range; SES, socio-economic status.

up consultation costs. Whilst lower out-of-pocket costs charged by specialists practising in lower SES areas might facilitate access to care for low-income families, the costs are such that they are likely to preclude access to ongoing care for these children.

Within the last 10 years, only one other secret shopper study has investigated wait times for private paediatricians in Australia. This study reported a 33-day average wait time for a child with a medical condition. However, consistent with our finding of a 44-day average wait time, paediatricians report that they usually see children with medical conditions sooner than children with developmental and behavioural conditions. The out-of-pocket costs for metropolitan private paediatricians do not appear to have increased in recent years.

This is the first study of its kind in Australia and our data collection covered two states in Australia and specialists practising in a range of remoteness and SES areas. Consequently, our findings are likely to generalise to the wider population of parents seeking help for their child's mental health problems. The study also has several limitations. Due to the nature of our secret shopper methodology, we could not take into account earlier appointment times that may be offered due to cancellations. Hence, the time

to the next available appointment may be an overestimate. Despite this, the secret shopper method permits collection of realtime data from a consumer's perspective. We did not collect data on the length of offered appointment which is likely to vary between professionals. Typically, psychologists and psychiatrists would have 50-60 min for an initial appointment, whereas for paediatricians this would usually be 30-45 min. Another limitation is that data were collected at only one point in time. It is not known whether there are seasonal changes in wait times to appointment. Anecdotally, clinicians report an increased demand for specialist child health services during the second half of the year when school submissions to the state education departments are due to apply for funding for additional learning support in the following year. We deliberately used non-urgent clinical vignettes so our findings may not generalise to urgent clinical referrals. Finally, we had fewer respondents from low SES and rural areas reflecting low numbers of specialists practising in these areas.

Our study has important clinical implications. First, obtaining publicly available, accurate information on specialists' costs and scope of practice proved difficult as indicated by the number of

^{#-}values are reported for location t-tests, F-values are reported for SES ANOVA.

SES determined by Socio-Economic Indexes for Areas decile rank. Low = 1-4, medium = 5-7, high = 8-10.

Location based on Accessibility/Remoteness Index of Australia where: metropolitan = major cities, rural = inner regional, outer regional, remote.

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clinicians we contacted who did not treat children below the age of 12. This is a common barrier reported by parents aiming to seek or receive professional help for their child. Ensuring specialists provide *accessible and accurate* details about their practice contact and scope of practice (e.g. on professional body websites such as the RANZCP 'Find a psychiatrist' website) would be useful for parents. In addition, transparency of specialists' fees would benefit parents and referring GPs. Parents could then make informed decisions about their willingness to pay for services.

Our findings can also inform policy makers in relation to Australian child and adolescent mental health systems. There is a dearth of child mental health specialists, especially for children under 12 years of age. Efforts to encourage training in the child mental health workforce are needed. This may include raising quotas and adding incentives for students to complete specialist training in child psychiatry. Additionally, enhanced mental health training for paediatricians, both in training and currently practicing, would be beneficial. Financial incentives and employment security for positions in areas of low supply should also be considered to tackle the likely undersupply in services in rural and low SES regions. Removing the 'named clinician' requirement for Medicare referrals may lead to families being able to access care in a more timely manner.

Another consideration is the influence of public child and adolescent/youth mental health services on private services. Although there is a high volume of work conducted in the public child and adolescent/youth mental health services there is still a backlog of patients in the public system.²⁴ This may be forcing families to seek help from the private sector. Thus, increased funding for public services could in turn improve the availability of private mental health services. Additionally, if families are successful in receiving timely access to public services, they would avoid paying the substantial private out-of-pocket service costs.

This study focused on quantifying the wait times and costs for private child mental health specialists. Whilst there are no family out-of-pocket costs involved for accessing public child mental health services, future research should determine the wait times in the public sector for child mental health services. Additionally, variations in wait times across a full calendar year should be investigated to determine whether demand changes during the periods of school funding applications. Finally, in order to reduce out-of-pocket costs and wait times, consideration should be given to shared care models whereby GPs work with child mental health specialists to co-manage children with mental health problems. Such a model is used internationally and is being piloted in Queensland for the most common child mental health problem, ADHD, with initial promising results.²⁵

Conclusion

Families face long wait times and substantial out-of-pocket costs when seeking an appointment with a paediatrician, psychiatrist or psychologist in the community regardless of whether they live in rural or metropolitan areas. Whilst costs increased in line with SES of practice location the out-of-pocket costs in low SES areas are likely to be prohibitive for low-income families. A larger and more equitably distributed child mental health workforce as well as increased patient Medicare reimbursement for child mental health services may be required to ensure timely, appropriate

and affordable care for all. Developing and testing new models of care that increase accessibility and affordability is a priority.

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Supporting Information

Additional Supporting Information may be found in the online version of this article at the publisher's web-site:

Appendix S1. Secret shopper vignettes.



The Fish Eater by Dusty Plum (6) from Operation Art 2020