Factors influencing early presentation to general practitioners for non-screen detected breast cancer

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Background and objective

Women living in rural Australia have worse survival rates for breast cancer compared with their urban counterparts. Identifying factors that contribute to delayed presentation could help to reduce this disparity. This study aimed to identify and explore the differences in help-seeking behaviours between rural and urban women with non-screen-detected breast cancer.

Methods

We conducted a qualitative study consisting of semistructured interviews with 20 women from New South Wales with non-screen detected breast cancer that was diagnosed within the past five years.

Results

There was little difference between rural and urban groups in terms of symptom appraisal and monitoring, social interactions, and personal and environmental factors. However, the presence of stoicism as a barrier was unique to rural women. Rural women also faced significant barriers in accessing general practice services that pertained to availability, cost and distance.

Discussion

GPs play a critical role in facilitating earlier presentation, and more research into rural stoicism is required. Continued investment in the rural primary care workforce will be key to improving access issues. **DISPARITIES IN CANCER OUTCOMES** between rural and urban populations remain a global problem.¹ Australia is not excepted to such ruralurban inequities.² For breast cancer, women living in rural New South Wales (NSW) have worse survival rates compared with their urban counterparts.^{3,4} They are also more likely to have late-stage breast cancer upon diagnosis, longer diagnostic interval and higher risk of death.⁵⁻⁷ Improved cancer control to reduce rural-urban disparities rightly remains an important health priority.

Despite the high uptake of screening mammography in Australia, the majority of diagnoses are still made in women with non-screen detected breast cancers.⁸ For these women, the point of symptom detection up until their first clinical presentation represents the earliest time interval in the breast cancer pathway. This is defined as the 'patient interval' based on the framework proposed in the Aarhus statement – which is an international consensus statement to facilitate the standardised and uniform definition and reporting of studies on early cancer diagnosis.⁹ Identifying factors that prolong the patient interval is closely intertwined with what influences women to seek help for their symptoms once discovered, and a qualitative approach is well suited to explore this.

Numerous qualitative studies have investigated what influences help-seeking behaviour for such women across various international settings.¹⁰⁻¹⁸ A meta-ethnographic synthesis of these studies revealed eight common concepts that affected help-seeking behaviour: symptom detection, initial symptom interpretation, symptom monitoring, social interactions, emotional interactions, priority of seeking medical help, appraisal of health services and personal–environmental factors.¹⁹ However, these qualitative findings must be interpreted within the contexts that they were conducted in, considering related social and cultural issues for that sample group.

In the Australian healthcare system, the point of first presentation is most likely to be to a general practitioner (GP). There are few studies examining differences in help-seeking behaviours in patients with cancer across rural–urban Australia, with studies in rural Western Australia (WA) and Victoria presenting conflicting themes in terms of the presence of stoical responses for patients with cancer living in rural areas.^{20,21} A study examining the help-seeking behaviours of breast cancer patients in NSW had not been conducted.

The relationship between prolonged breast cancer pathways and poorer survival is well established,²² and identifying factors that prolong the patient interval and determining whether these factors are more common in rural areas could help facilitate the identification of targeted interventions to address the gaps in service delivery and reduce the disparity in breast cancer outcomes for people living in rural Australia.

Methods

Aims

The aim of this study was to identify and explore the differences in help-seeking behaviours between rural and urban women with non-screen detected breast cancer.

Design

We conducted a qualitative study consisting of semi-structured interviews with 20 women from NSW with nonscreen detected breast cancer that was diagnosed within the past five years.

Setting and sample

A purposeful sampling frame was used to ensure representation from rural and urban NSW locations and from different age groups. Interviews were stopped once theoretical data saturation was perceived to be reached. Residential location at time of diagnosis was classified as rural or urban using the Modified Monash Model.²³ Locations in Modified Monash (MM) categories 1 and 2 were classified as urban, and locations in MM categories 3–7 were classified as rural.

Inclusion criteria

Eligible participants were those living in NSW at the time of diagnosis and were diagnosed with non-screen detected breast cancer within the last five years. Those who were not able to provide informed consent or could not communicate in English were excluded

Recruitment

Participants were recruited via social media advertisements. Interested participants were directed to an online form that acted as an initial eligibility screening tool. They were then contacted by telephone to determine final eligibility and scheduling of an interview. A total of 42 women responded to the advertisements over the period of April to June 2021. Of these, 27 met the eligibility criteria and a total of 20 participants were interviewed. The main reasons for ineligibility were being diagnosed more than five years ago or not residing in NSW at the time of diagnosis.

Data collection

Semi-structured interviews were conducted by DF over a videoconference platform and averaged 20 minutes in length. Interviewing via videoconference was chosen due to restrictions across NSW because of the COVID-19 pandemic. DF is a GP registrar in regional NSW and an early career researcher undertaking this research as part of a formal academic training post under the supervision of JR. JR is a specialist GP with extensive experience in qualitative research, and research in healthcare decision making in people with serious illnesses.

Participants had no prior relationship with the interviewer. Interviews were guided by an interview schedule that began with an open question regarding the participant's experience when the initial symptom was detected, followed by questions tracing the participant's thoughts and actions leading up to their first presentation to their GP. Questions were informed by similar previous studies but not pilot tested.^{20,21} Field notes were made during and after each interview, with new points of interest being explored in subsequent interviews. This included prompts to clarify and confirm emerging themes as a form of member-checking. No repeat interviews were conducted.

Data analysis

All interviews were recorded to be transcribed verbatim via a professional

transcription service. Transcripts were de-identified and double-checked for accuracy by DF. A qualitative descriptive approach, as articulated by Sandelowski,24 was chosen to identify and investigate key factors that influenced participants' decisions to seek help for their symptoms. Transcripts were analysed line by line, and their content was examined and compared to assign codes that described what was interpreted in the passage as important. Codes were then grouped into categories that shared a commonality. Based on these emerging categories, themes and subthemes were generated through shared threads of meaning across categories. The data analysis process was iterative and occurred simultaneously with data collection. DF analysed all 20 transcripts, with JR independently reviewing two randomly selected transcripts. Any discrepancies were discussed and resolved during regular meetings to enhance study rigour and improve reflexivity. All data were managed using the NVivo 12 Plus software.

Ethics

Ethics approval was obtained from the Health and Medical Human Research Ethics Committee at the University of Wollongong (2021/069) and participants provided both written and verbal informed consent.

Results

Participant characteristics

All participants were interviewed between April and June 2021. All participants were women. The mean age of participants was 51.5 years, ranging 37–72 years (standard deviation: 11.5; Table 1). Eleven participants were residing in a rural location at time of diagnosis and nine were residing in an urban location. Median time from diagnosis to interview was 18.5 months, ranging 3–48 months.

Overview of themes

Six key themes emerged from the data analysis, each encompassing a range of facilitators and barriers to help-seeking: 1) Initial symptom appraisal; 2) symptom monitoring processes; 3) emotions and attitudes towards symptoms; 4) social interactions; 5) personal or environmental factors; and 6) accessing GP services. These are further described below.

Theme 1: Initial symptom appraisal

Participants reported a period of initial symptom appraisal upon symptom detection. Women who perceived their symptoms to be something potentially serious were less likely to delay help-seeking, while women who perceived their symptoms to be benign in nature were more likely to self-manage and undergo a period of symptom monitoring. For both rural and urban groups, the outcome of this appraisal process was based on several common factors such as their perception of risk for breast cancer, previous history of benign breast conditions, having other plausible explanations for their symptoms, and their knowledge of potential breast cancer symptoms.

Perception of breast cancer risk

The perception of being high risk for breast cancer facilitated help-seeking behaviour.

Table 1. Participant characteristics			
Characteristic	n (%)*		
Age in years			
Mean (standard deviation)	51.5 (11.5)		
36-40	5 (25%)		
41-45	2 (10%)		
46-50	2 (10%)		
51-55	5 (25%)		
56-60	1 (5%)		
61-65	2 (10%)		
≥66	3 (15%)		
Residence at time of diagnosis			
Urban	11 (55%)		

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Rural	9 (45%)
Time from diagnosis to interview: Median months	18.5 (3–48)
(range)	

*Data presented as n (%) except for mean age and time from diagnosis to interview Most commonly, this perception stemmed from having a family history of breast cancer (Table 2, Quote [Q]1).

Women who perceived themselves as low risk for breast cancer tended to attribute a lower severity to their symptoms. This stemmed from being of a younger age, having no family history of breast cancer, a sense of being generally healthy, or having normal regular screening mammograms (Table 2, Q3–Q5).

History of benign breast conditions

Having a previous history of benign breast conditions resulted in a lower severity appraisal of detected symptoms, which acted as a barrier to help-seeking. A rural woman described how having a breast lump previously investigated influenced her decision to seek help as the symptom persisted (Table 2, Q6).

Other plausible cause to explain symptom

Some women attributed their symptoms to other plausible causes such as musculoskeletal strain or breastfeeding; these were described by both rural and urban women (Table 2, Q7–Q8).

Matching of knowledge to breast cancer symptoms

Detecting a breast lump was the most common initial symptom reported in this study. For women whose symptoms matched up with their knowledge of potential breast cancer symptoms, this prompted urgent action (Table 2, Q9).

Having a mismatch of symptoms with a woman's knowledge was both a facilitator and barrier, depending on the symptom. A rural woman who experienced a painful breast lump had a preconceived notion that the presence of pain meant that it was not likely to be cancer. However, the pain itself prompted presentation to a GP for further assessment of other potential causes (Table 2, Q10).

Theme 2: Symptom monitoring processes

Once initial symptom appraisal was completed, women who had elected to self-manage underwent a period of symptom monitoring. Any change in the initial symptom or persistence of the symptom beyond a self-imposed time frame facilitated help-seeking (Table 2, Q11–Q12).

In contrast, women who perceived their symptoms as stable or had fluctuating symptoms tended to delay help-seeking further and continued an iterative process of symptom appraisal and monitoring (Table 2, Q13–14).

Theme 3: Emotions and attitudes toward symptoms

Women also reported that their emotions and attitudes toward their symptoms factored in their decision to seek help. Most women felt a general sense of urgency toward their symptoms, which prompted help-seeking. This sense of urgency was multifactorial in nature and was associated with how a woman felt about her initial appraisal of the symptom, personality traits and knowledge of having a better prognosis with earlier diagnosis (Table 3, Q15–Q17).

Attitudes such as feeling stigmatised, denial and stoicism acted as barriers to help-seeking. Denial and stigma featured in both rural and urban groups (Table 3, Q18–Q19).

The presence of stoicism was unique to the rural group. These rural women described a very high threshold for what would warrant a presentation to a GP (Table 3, Q20–Q21).

Theme 4: Social interactions

Social interactions played an important role in influencing help-seeking behaviour. Both rural and urban women reported receiving encouragement from their friends, family or colleagues to see their GP once they had shared their symptoms with that person or people (Table 3, Q22).

Having a social awareness about breast cancer also facilitated help-seeking. Women reported this in various forms, including having had a friend or family member experience cancer or through public health campaigns and local community events (Table 3, Q23–Q24).

Theme 5: Personal or environmental factors Overarching personal or environmental factors had a significant impact on help-seeking behaviour. These factors mostly acted as a barrier to help-seeking. Many women reported having competing family or work commitments taking precedence over going to a GP about their symptoms (Table 3, Q25–Q26).

Women who detected symptoms during a holiday period were more likely to delay

help-seeking. For urban women this was due to being away from home, and for rural women this was due to services being closed (Table 3, Q27–Q28).

Restrictions due to the COVID-19 pandemic had also acted as a barrier to

help-seeking. A rural woman described becoming 'despondent' after being told she was not able to have a telehealth appointment at a practice she had previously been to more than 12 months ago (Table 3, Q29).

Theme Initial symptom appraisal	Subtheme Perception of breast cancer risk	Exemplar quotes		
		Q1	'l actually went to the doctors then to have it looked at, because of our family history.' [Participant (P)4, 53 years, urban]	
		Q2	'l'd always sort of thought I wasn't in that age bracket. So I wasn't really thinking it was anything sinister I thought it was 50 and over really.' [P16, 47 years, urban]	
		Q3	'Because I was physically — you know, I was pretty fit Like general health, I was well I didn't feel that there was an urgency for it.' [P2, 65 years, rural]	
		Q4	'l probably always thought that there was nothing wrong because I'd been quite well anyway I don't think there's much cancer in our family at all. So it was probably like, oh, it shouldn't be anything too bad.' [P5, 37 years, urban]	
		Q5	'You hear about that you need to have your mammogram, which I do, every two years I didn't think anything serious about it because I had this mammogram done 10 months ago, and I was thinking that if it would have been anything serious it would have popped up.' [P10, 55 years, urban]	
	History of benign breast conditions	Q6	'Well, I actually wasn't that worried about it because I had already had it checked out I did almost cancel that appointment then because I just thought I was wasting my money.' [P19, 38 years, rural]	
	Other plausible cause to explain symptom	Q7	'I don't think I thought of breast cancer I was breastfeeding at the time, my boobs were always kind of lumpy, so I just didn't put two and two together I just put it down as your boobs are lumpy when you're breastfeeding.' [P13, 38 years, urban]	
		Q8	'I had soreness underneath my arm for quite a while but seeing that I had been doing farm work with fencing and cows and what have you, I just put it down to strain So, you just put it down to your doing heavy physical stuff all the time so you're bound to get a bit of soreness somewhere along the line.' [P18, 64 years, rural	
	Matching of knowledge to breast cancer	Q9	'There is a lump in my breast, it's got to be something I knew I had to get on top of it. It's something that I couldn't ignore.' [P11, 52 years, urban]	
	symptoms	Q10	'And it was quite sore, and I had heard that if you have a lump in your breast and it's sore then that's a good, you know, like it's not always a bad lump for me, the lump was actually quite painful it was probably one of the reasons why I ended going to the doctor.' [P12, 38 years, rural]	
Symptom monitoring processes	Change in initial symptom	Q11	'So I felt that it had changed – was getting bigger. It was sort of aching, changed the way the lump felt and that was probably August–September '17 and that's when I went to my GP.' [P4, 53 years, urban]	
	Persistence of symptom	Q12	'I've kind of got a rule with myself that if I have symptoms for more than two weeks I'II make an appointment and just get it checked out. So that's my own, sort of, rule that if I have, yeah.' [P3, 49 years, rural]	
	Perceived stability of symptoms	Q13	'I thought, I'll keep examining myself, if it enlarges or it changed shape, in any shape or form, I'll go and see the doctor. But, yeah, it just took a bit of time before it actually did that. But meanwhile, as I was examining myself, the lump always felt the same size.' [P10, 55 years, urban]	
	Fluctuating symptoms	Q14	'It would come and go it was just a pain on and off four months later I continued to get the pain on and off and I wasn't at all concerned. I just thought, okay, nothing there, it's just hormonal.' [P7, 44 years, rural]	

Table 2. Exemplar guotes for themes 1 and 2

Theme 6: Accessing GP services

How women interacted and accessed GP services was a vital factor in the decisionmaking process to seek help. There were significant differences between rural and urban women on their attitudes towards accessing GP services and the practical issues that they faced in the process.

Attitudes to accessing GP services

Both rural and urban women reported that having an established relationship with their GP was a major facilitator during their help-seeking process. Developing trust and having a GP that actively listens were key factors in building a good therapeutic relationship with their GP (Table 4, Q30–Q31).

Conversely, having a previous negative experience with a GP created distrust and acted as a barrier to help-seeking, either as a direct result of that experience or due to concerns about presenting unnecessarily. This was only reported by urban women (Table 4, Q32–Q33).

Many women had specific GP preferences, and both urban and rural women preferred to see a female GP for their breast symptoms. An urban woman described how she had to ring three practices before being able to get an appointment with a female GP (Table 4, Q34).

Some rural women described being reluctant to see a new GP or a bulk-billing GP. These attitudes were not represented in the urban group (Table 4, Q35–Q36).

Practical issues accessing GP services

Rural women reported significantly more practical issues with accessing GP services. In fact, no urban women reported having any practical issues with accessing such services. The majority of these issues acted as barriers to help-seeking. One rural woman described how her GP was doing telehealth appointments even prior to the COVID-19 pandemic, which facilitated her access to her GP despite living a significant distance away (Table 4, Q37).

Many rural women were frustrated at the lack of availability of their regular GP and having to choose between a longer waiting period or having to see a GP who was unfamiliar to them (Table 4, Q38–Q39). The cost of seeing a GP and having to travel long distances were also significant barriers for some rural women (Table 4, Q40–Q41).

Discussion

This study adds to the existing evidence on the help-seeking behaviour of women with breast cancer. We focused on the differences between rural and urban women within NSW, and how this impacted on early presentation to a GP. Our study indicates that the decision-making process to seek help once a symptom was detected is a complex, iterative and non-linear process affected by overarching personal and environmental factors eventually leading to a decision to present to a GP. This is illustrated in Figure 1.

Both rural and urban women described similar concepts within the themes of symptom appraisal, symptom monitoring, social interactions and personal and environmental factors. This similarity between the two groups is consistent with previous Australian studies of rural women in WA and Victoria.^{20,21} Ensuring that women have up-to-date knowledge of their personal risk, the potential symptoms of breast cancer, and encouraging early presentation especially if a symptom is ambiguous, are key to addressing the barriers within the symptom appraisal and monitoring processes.

Stigma and denial were prominent barriers that featured across both rural and urban groups. Many women reported that having an increased social awareness from social interactions and exposure to public health or local community awareness campaigns were helpful in addressing these barriers. Our findings also indicate that having an established and trusted relationship with a GP creates an environment where women do not feel stigmatised or concerned about unnecessary presentations. This had strong influence on facilitating early presentation and reflects the importance of the longitudinal relationships that GPs develop with their patients and how maintaining continuity of care plays a key role in preventive medicine.

GPs are in prime position to fill in potential knowledge gaps, address common misconceptions and normalise help-seeking for potential breast cancer symptoms. This in turn could help shift priorities for women who have many competing family and work commitments as well.

Our study found that stoicism was a barrier to help-seeking unique to the rural group. This contrasts with research in rural Victoria²¹ and supports findings from rural WA²⁰ that a distinct set of rural attitudes may well contribute to delay in the help-seeking process. 'Rural stoicism' is thought to be a quintessential characteristic of the rural Australian character²⁵ and it has been postulated that such stoicism contributes to poorer cancer outcomes for rural Australians.26 Our study adds further evidence to support this line of inquiry. How best to address this barrier remains to be determined; a randomised controlled trial in rural WA found that both community-based symptom awareness programs and general practice-based educational interventions had little impact on reducing time to diagnosis.27 Future research will be required to determine the strength of this effect and identify effective interventions to improve time to diagnosis and cancer outcomes for rural Australians.

There were significant issues regarding access to GP services for rural women pertaining to availability, cost and distance. This is in keeping with national data from the Australian Bureau of Statistics²⁸ and is likely a reflection of the skewed distribution of the primary care workforce towards metropolitan areas.²⁹ In addition to the current measures in place to increase the primary care workforce in rural Australia, 'continued substantial investment coupled with ongoing evaluation and enhancement of rural and remote training programs' will be critical to address this rural–urban disparity.³⁰

Limitations

This was a qualitative study with a relatively small sample size and findings from this study may not be generalisable to other communities across Australia. We also acknowledge that rural communities are not homogenous in

Theme	Subtheme	Exem	olar quotes
Emotions and attitudes toward	Sense of urgency	Q15	'l knew instinctively that I needed to get it looked at Like I'm not someone that would put things off if I think they're an issue.' [Participant (P)13, 38 years, urban]
symptoms		Q16	'I think being a nurse, I've always been hyper-vigilant with any kind of symptom and I've gone to the GP with lots of little ailments, thinking that I was trying to get on to things early.' [P20, 40 years, rural]
		Q17	' from being like a health teacher, in a schooling environment, I pretty much knew that early detection is the best.' [P8, 46 years, rural]
	Denial	Q18	'I think a lot of people, probably like me, just don't believe it's going to happen to you.' [P1, 59 years, urban]
	Stigma	Q19	'You realise how many people in our area go through this quite silently, and you don't even know that it's happening. So I think it normalises it, but it also then, once you feel a symptom, would make you act on it quite quickly, yeah.' [P12, 38 years, rural]
	Stoicism	Q20	'I never saw a doctor really unless it was – I don't know – if anything was gushing or bleeding bad So something like that? No. For me? Nup I don't think I would have made such a big deal out of it. I just would have been – yeah, all right, whenever.' [P14, 43 years, rural]
		Q21	'I certainly wasn't thinking, you know, oh gosh, something is really wrong here So I just put up with it and go, oh, once it's gone, it's the back of your mind And that's the same for everyone in my family. Like the kids have got to be pretty sick before I'll go to the doctors.' [P7, 44 years, rural]
Social interactions	Encouragement from friends or family	Q22	'I did tell [my partner] when I found it initially we were both on the same page, that it was really important to go to the doctor and get it checked I do wonder if I didn't say anything to [him], whether I would have actually done it or not. Definitely not as fast as I did' [P5, 37 years, urban]
	Social awareness	Q23	'I actually lost a good girlfriend of mine and I had been through the process with her over the last four or five years – [otherwise] I possibly would have even shrugged it off even longer.' [P12, 38 years, rural]
		Q24	'I just think with all the campaigning you hear, you hear a lot about breast cancer. I know the symptoms are a lump and I also felt a little bit of a lump under my arm I just thought I'd just go and get some tests done anyway.' [P16, 47 years, urban]
Personal or environmental	Competing personal commitments	Q25	'As a mum, you put yourself last, everything else comes first life was real busy. So a lot of my own health was not at the forefront.' [P8, 46 years, rural]
factors		Q26	'I knew I should have gone immediately but as I said, I was really busy at work because I'd been away for three weeks It was always just on the back-burner I wasn't in denial or putting it off or frightened or anything like that. I just couldn't find the damned time to get there.' [P17, 71 years, urban]
	Holiday period	Q27	'I was actually going to England the very next day I was on a holiday I wasn't concentrating on it. That was something to deal with when I got back.' [P17, 71 years, urban]
		Q28	'Like, all over Christmas and New Year. I'm walking around with this breast cancer and everyone's shut, everything's closed.' [P15, 66 years, rural]
	COVID-19	Q29	'I reached out then to try and go to a GP that I had been to – I probably hadn't been to that GP for 18 months during COVID[-19], his receptionist had said, "Look, you're not really classed as a patient here anymore because you haven't been for this long", and I was a bit despondent after that phone call. So I, kind of, then was annoyed and didn't do anything about it probably for another week. [P12, 38 years, rural]

Table 3. Exemplar quotes for themes 3, 4 and 5

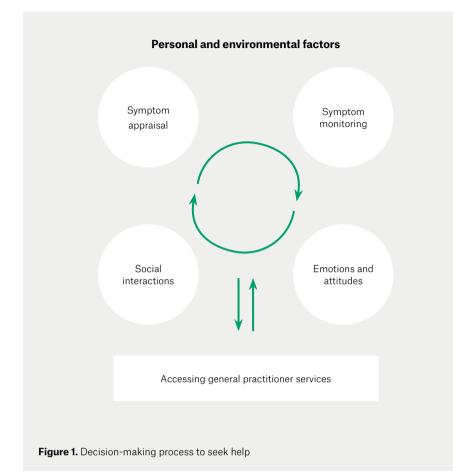
Theme Accessing GP services	Subtheme Established relationship with general practitioner (GP)	Exem	Exemplar quotes			
		Q30	'I trust my doctors and I feel I have that relationship with them I think that that's part of it, is the relationship that you've built with your doctor, that you feel that you're going to be listened to I'm a bit frightened of going to the doctor, but I trusted them and I knew that good, bad or ugly, that they'd be there and give me the appropriate support, that they'd take my concerns seriously.' [Participant (P)4, 53 years, urban]			
		Q31	'I have a really good relationship with my GP and I don't know what made me say it. Usually I, probably, wouldn't have thought about it. But I just thought — I think she probably prompted, "Oh, is there anything else?"" [P3, 49 years, rural]			
	Previous negative experience	Q32	'I was a bit concerned because of what happened 12 months before, that the doctor just shoved it aside. So I didn't want to see that doctor again, and I hadn't had a regular GP at that point in time.' [P5, 37 years, urban]			
	Concerns about unnecessary presentation	Q33	'So that when it is normal, or they think that there's something wrong, that they act promptly, but then, to be reassured that when they go to the doctor as a 20-year- old, that the doctor is actually going to take them seriously and not fob them off.' [P4, 53 years, urban]			
	Preference for female GP	Q34	'I tried another practice and there was no women on So, because the third practice that I tried, and as I said, yeah, just got on to — the only lady I could get in to see I've seen male doctors in my life, but I think because it was breast cancer, I just really thought I needed to see a woman for that.' [P1, 59 years, urban]			
	Reluctance to see new GP	Q35	'I probably didn't feel comfortable just going to any doctor somewhere else, because they didn't have my history.' [P6, 52 years, rural]			
	Reluctance to see bulk-billing GP	Q36	'I don't go to them [bulk-billing medical centres]. I've got a doctor that I like. I think she's really good. So I don't mind paying for her services when I need to go.' [P7, 44 years, rural]			
	Telehealth	Q37	'Because I've known him for a long time and he knows us quite well, he's been our family doctor for over 20 years so he will do it [appointments] over the phone. That was even before COVID[-19] hit. Because he understood where we lived, which was great.' [P6, 52 years, rural]			
	Lack of availability of regular GP	Q38	'Well, that's quite common here in rural. The shortage of doctors in rural is – and if you doctor gets sick or has to have their own family's need, it's quite often that you'll have to either wait for a month or so or maybe two months or see a locum that might have an available position. But most of the time it's like six weeks with just normal, general healthcare. Even with my husband with a long history of medical illnesses, it's six to eight weeks before he can get an appointment with his GP. So that's the sad part of it. [P18, 64 years, rural]			
		Q39	'Definitely availability and that is a little bit of an issue in our area where with some doctors having that availability to a constant doctor is tricky in our area.' [P12, 38 years, rural]			
	Cost to see GP	Q40	'And that, basically, comes down to the cost I need to make sure I've got \$80 and then you get whatever back But if it's a long consult, I think it's like, 100 or something I mean, we're not poor, but I just don't have an extra 100 bucks a week to waste on doctor visits.' [P7, 44 years, rural]			
	Distance to GP	Q41	'Then you've the cost. You've got the transport cost as well as the gap fees and everything that you do. That's huge in that, you know, can I afford it at the moment?' [P18, 64 years, rural]			

Table 4. Exemplar quotes for theme 6

nature although they were represented as a single unit in this study. DF interviewed all participants; being a male with no lived experience of breast cancer, we acknowledge that this may affect participants' responses given that breast cancer mainly affects women. It is also acknowledged that interviews over videoconference removes the ability to pick up on certain social cues and has significantly different dynamics to that of face-to-face interviews.

Conclusion

The decision-making process to seek help once a symptom was detected was a complex, iterative and non-linear process affected by overarching personal and environmental factors eventually leading



to a decision to present to a GP. There was

little difference between rural and urban groups in terms of symptom appraisal, symptom monitoring, social interactions and personal and environmental factors. The presence of stoicism was unique to rural women as a barrier to help-seeking. Rural women also faced significant barriers regarding accessing GP services pertaining to availability, cost and distance.

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References

- Afshar N, English DR, Milne RL. Rural-urban residence and cancer survival in high-income countries: A systematic review. Cancer 2019;125(13):2172–84. doi: 10.1002/cncr.32073.
- Coory MD, Ho T, Jordan SJ. Australia is continuing to make progress against cancer, but the regional and remote disadvantage remains. Med J Aust 2013;199(9):605–08. doi: 10.5694/mja13.10055.
- Chen TY, Morrell S, Thomson W, et al. Survival from breast, colon, lung, ovarian and rectal cancer by geographical remoteness in New South Wales, Australia, 2000-2008. Aust J Rural Health 2015;23(1):49–56. doi: 10.1111/ajr.12172.
- Cancer Institute NSW. Cancer statistics NSW 2017. St Leonards, NSW: NSW Government Cancer Institute, [date unknown]. Available at www.cancer.nsw.gov.au/research-and-data/ cancer-data-and-statistics/cancer-statistics-nsw [Accessed 21 October 2021].
- 5. Baade PD, Turrell G, Aitken JF. Geographic remoteness, area-level socio-economic

disadvantage and advanced breast cancer: A cross-sectional, multilevel study. J Epidemiol Community Health 2011;65(11):1037-43. doi: 10.1136/jech.2010.114777.

- Youl PH, Aitken JF, Turrell G, et al. The impact of rurality and disadvantage on the diagnostic interval for breast cancer in a large populationbased study of 3202 women in Queensland, Australia. Int J Environ Res Public Health 2016;13(11):1156. doi: 10.3390/ijerph13111156.
- Cramb SM, Mengersen KL, Turrell G, Baade PD. Spatial inequalities in colorectal and breast cancer survival: Premature deaths and associated factors. Health Place 2012;18(6):1412–21. doi: 10.1016/j. healthplace.2012.07.006.
- Australian Institute of Health and Welfare. Analysis of breast cancer outcomes and screening behaviour for BreastScreen Australia. Canberra, ACT: AIHW, 2018.
- Weller D, Vedsted P, Rubin G, et al. The Aarhus statement: Improving design and reporting of studies on early cancer diagnosis. Br J Cancer 2012;106(7):1262–67. doi: 10.1038/bjc.2012.68.
- Burgess C, Hunter MS, Ramirez AJ. A qualitative study of delay among women reporting symptoms of breast cancer. Br J Gen Pract 2001;51(473):967–71.
- Unger-Saldaña K, Infante-Castañeda CB. Breast cancer delay: A grounded model of help-seeking behaviour. Soc Sci Med 2011;72(7):1096-104. doi: 10.1016/i.socscimed.2011.01.022.
- Lam WW, Tsuchiya M, Chan M, Chan SW, Or A, Fielding R. Help-seeking patterns in Chinese women with symptoms of breast disease: A qualitative study. J Public Health (Oxf) 2009;31(1):59–68. doi: 10.1093/pubmed/fdn088.
- Rastad H, Khanjani N, Khandani BK. Causes of delay in seeking treatment in patients with breast cancer in Iran: A qualitative content analysis study. Asian Pac J Cancer Prev 2012;13(9):4511-15. doi: 10.7314/apjcp.2012.13.9.4511.
- Dye TD, Bogale S, Hobden C, Tilahun Y, Deressa T, Reeler A. Experience of initial symptoms of breast cancer and triggers for action in Ethiopia. Int J Breast Cancer 2012;2012:908547. doi: 10.1155/2012/908547.
- Taib NA, Yip CH, Low WY. Recognising symptoms of breast cancer as a reason for delayed presentation in Asian women – The psycho-sociocultural model for breast symptom appraisal: Opportunities for intervention. Asian Pac J Cancer Prev 2011;12(6):1601–08.
- Mwaka AD, Walter FM, Scott S, Harries J, Wabinga H, Moodley J. Symptom appraisal, helpseeking and perceived barriers to healthcare seeking in Uganda: An exploratory study among women with potential symptoms of breast and cervical cancer. BMJ Open 2021;11(2):e041365. doi: 10.1136/bmjopen-2020-041365.
- Harries J, Scott SE, Walter FM, Mwaka AD, Moodley J. Women's appraisal, interpretation and help-seeking for possible symptoms of breast and cervical cancer in South Africa: A qualitative study. BMC Womens Health 2020;20(1):251. doi: 10.1186/ s12905-020-01120-4.
- Moodley J, Cairncross L, Naiker T, Momberg M. Understanding pathways to breast cancer diagnosis among women in the Western Cape Province, South Africa: A qualitative study. BMJ Open 2016;6(1):e009905. doi: 10.1136/bmjopen-2015-009905.
- Khakbazan Z, Taghipour A, Latifnejad Roudsari R, Mohammadi E. Help seeking behavior of women with self-discovered breast cancer symptoms: A meta-ethnographic synthesis of patient delay. PLoS One 2014;9(12):e110262. doi: 10.1371/journal. pone.0110262.

- Emery JD, Walter FM, Gray V, et al. Diagnosing cancer in the bush: A mixed-methods study of symptom appraisal and help-seeking behaviour in people with cancer from rural Western Australia. Fam Pract 2013;30(3):294–301. doi: 10.1093/ fampra/cms087.
- Bergin RJ, Emery JD, Bollard R, White V. Comparing pathways to diagnosis and treatment for rural and urban patients with colorectal or breast cancer: A qualitative study. J Rural Health 2020;36(4):517–35. doi: 10.1111/jrh.12437.
- 22. Neal RD, Tharmanathan P, France B, et al. Is increased time to diagnosis and treatment in symptomatic cancer associated with poorer outcomes? Systematic review. Br J Cancer 2015;112 Suppl 1(Suppl 1):S92–107. doi: 10.1038/ bjc.2015.48.
- Australian Government Department of Health. Modified Monash Model. Canberra, ACT: DoH, 2019. Available at www.health.gov.au/ health-topics/health-workforce/health-workforceclassifications/modified-monash-model [Accessed 21 October 2021].
- Sandelowski M. Whatever happened to qualitative description? Res Nurs Health 2000;23(4):334–40. doi: 10.1002/1098-240x(200008)23:4<334::aidnur9>3.0.co;2-g.

- 25. Smith JD. Australia's rural and remote health: A social justice perspective. Croydon, Vic: Tertiary Press, 2004; p. 178
- Howat A, Veitch C, Cairns W. A descriptive study comparing health attitudes of urban and rural oncology patients. Rural Remote Health 2006;6(4):563.
- 27. Emery JD, Gray V, Walter FM, et al. The Improving Rural Cancer Outcomes (IRCO) trial: A factorial cluster-randomised controlled trial of a complex intervention to reduce time to diagnosis in rural patients with cancer in Western Australia: A study protocol. BMJ Open 2014;4(9):e006156. doi: 10.1136/bmjopen-2014-006156.
- 28. Australian Bureau of Statistics. Patient experiences in Australia: Summary of findings, 2019–2020. Canberra, ACT: ABS, 2020.
- 29. The Royal Australian College of General Practitioners. General Practice: Health of the Nation. East Melbourne, Vic: RACGP, 2019. Available at www.racgp.org.au/getmedia/ bacc0983-cc7d-4810-b34a-25e12043a53e/ Health-of-the-Nation-2019-report.pdf.aspx [Accessed 21 October 2021].
- O'Toole RF, Wright J. Growing the pool of rural general practitioners. Rural Remote Health 2020;20(4):5769. doi: 10.22605/RRH5769.

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