Patient and parent perspectives on transition from paediatric to adult healthcare in rheumatic diseases: an interview study

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ABSTRACT

Objectives To describe the experiences, priorities, and needs of patients with rheumatic disease and their parents during transition from paediatric to adult healthcare.

Setting Face-to-face and telephone semistructured interviews were conducted from December 2018 to September 2019 recruited from five hospital centres in Australia.

Participants Fourteen young people and 16 parents were interviewed. Young people were included if they were English speaking, aged 14–25 years, diagnosed with an inflammatory rheumatic disease (eg, juvenile idiopathic arthritis, juvenile dermatomyositis, systemic lupus erythematosus, panniculitis, familial Mediterranean fever) before 18 years of age. Young people were not included if they were diagnosed in the adult setting.

Results We identified four themes with respective subthemes: avoid repeat of past disruption (maintain disease stability, preserve adjusted personal goals, protect social inclusion); encounter a daunting adult environment (serious and sombre mood, discredited and isolated identity, fear of a rigid system); establish therapeutic alliances with adult rheumatology providers (relinquish a trusting relationship, seek person-focused care, redefine personal–professional boundaries, reassurance of alternative medical supports, transferred trust to adult doctor) and negotiate patient autonomy (confidence in formerly gained independence, alleviate burden on patients, mediate parental anxiety).

Conclusions During transition, patients want to maintain disease stability, develop a relationship with their adult provider centralised on personal goals and access support networks. Strategies to comprehensively communicate information between providers, support self-management, and negotiate individualised goals for independence during transition planning may improve satisfaction, and health and treatment outcomes.

BACKGROUND

Young people diagnosed during childhood with rheumatic disease have an increased risk of mortality and morbidities, including early-onset cardiovascular disease, low bone mineral density and infertility compared with the general population. Adolescents are at a greater risk of active disease flares and have higher rates of hospital readmissions. They report high levels of pain intensity, functional disability, and rates of psychiatric disorders such as depression and anxiety. Despite the ongoing impacts through to adulthood, up to half of patients who transition to adult care are lost to follow-up within 2 years after transfer.

Transition care is the active, planned process of addressing medical, psychosocial, educational and vocational needs of young people preparing for the adult healthcare system. However, transition remains a clinical challenge because the specific requirements for adolescents and young adults may remain under-recognised, such as reported low confidence in self-advocacy and reluc-
changes in the young people’s needs for independence and autonomy. Unmet training needs in both paediatrics and adult specialists perpetuates the clinical challenge of transitional care. Forty-five per cent of adult rheumatologists reported no transitional care training in recent data from the USA.

The Bridges Transitions Framework assists individuals and organisations in managing change. The theory delineates between the term ‘change’, describing the event-based, external situation, and ‘transition’ considered as the individual’s emotional or internal process in response to that change. The three phases of transition described were (1) endings—to identify what must be relinquished; (2) neutral-zone—the in-between period of accepting endings but discomfort with the new, possibly associated with confusion and distress; and (3) new beginnings—focus on the progress and growth towards new values or attitudes, but with possible underlying anxiety about regressing to past phases. Successful coping in the context of transitional care in rheumatology can therefore be facilitated by addressing each of these theoretical phases when targeting patient needs before, during and after the transfer of care.

Previous studies extensively examined the transition perspectives of young people, either in specific rheumatological diseases such as juvenile idiopathic arthritis (JIA) or a broad range of long-term physical or psychological health conditions. However, few studies focus on rheumatological diseases as a key area, in regard to the needs and perspectives of young people. Parent priorities described are similar across a range of health conditions; as needing clarification and support for their roles by transition services and feeling supported by well-coordinated communication between teams. Whether there are slight nuances in transition needs for parents of young people with rheumatological disease across the transfer continuum remains uncertain. This study aims to describe the experiences, priorities, and needs of young people with rheumatic disease and their primary carers on transition from paediatric to adult care. The insights gained will inform ways to optimise transition for improved patient and caregiver satisfaction, access to care and life-participation outcomes.

METHODS
We applied the Consolidated criteria for Reporting Qualitative research to report this study (see Research Checklist).

Participant selection and setting
Patients were eligible if they were English speaking, aged 14–25 years, diagnosed with an inflammatory rheumatic disease (eg, JIA, juvenile dermatomyositis, systemic lupus erythematosus (SLE), panniculitis, familial Mediterranean fever) before 18 years of age and their parents. Young people were included only if they had experience with paediatric rheumatology in the public or private setting and were not included if they were diagnosed in the adult setting. Participants were purposively sampled to include a broad range of demographics including, age, sex and type of rheumatic disease. I recruited participants from patient databases of five centres (two paediatric and three adult hospitals) which encompass regional and metropolitan areas in New South Wales, Australia. One of the three adult hospitals had a dedicated age-based transition clinic. Participants were approached by their treating physicians and nurses and provided informed consent to be contacted by IJ via telephone.

Data collection
The question guide was semistructured and informed by a qualitative systematic review of patients’ attitudes and experiences of transition in rheumatology and discussion among the research team (online supplemental file 1). Questions pursued areas relating to self-management, available and future support networks, current or recent experiences of transition and suggestions for improved transition. Interviews were initially conducted with two researchers present (IJ or DJT) to pilot the interview guide and train IJ (medical student) in interview techniques. DJT (PhD) had prior experience with qualitative research. The interview guide was subsequently revised to include further questions about medication adherence and residential location as a possible barrier.

IJ and DJT conducted face-to-face and telephone interviews from December 2018 to September 2019. Face-to-face interviews were conducted in the home, the clinic or the community (eg, library, café) based on the participant’s preference. Before initiating each interview, IJ and DJT introduced their role in the study and the research aims to participants as there were no prior relationships established between the investigator and participants prior to study commencement. Written consent was then obtained from participants or their parents if the patient was under 16 years old. Young people and parents were interviewed separately with the exception of one interview conducted with both patient and guardian based on the participant’s choice. Recruitment continued until data saturation, when few or no new concepts emerged was achieved. Field notes were not made and repeat interviews were not undertaken. Interviews were audio-recorded and transcribed verbatim by IJ and CT. The average interview time was 42 min and 36 min for patients and caregivers, respectively.

Analysis
The transcripts were imported into HyperRESEARCH V.4.0.3 (Researchware, USA) to facilitate coding and storage of data. IJ, DJT, AK, AT, CT and KM used thematic analysis to analyse the qualitative data, which is a method that is beneficial in clinical settings as it provides critical insight that is actionable for healthcare professionals. Investigators IJ and DJT read and coded all transcripts line by line and conceptualised all sections to inductively identify and compare concepts relating to patient and
parent perspectives on transition. They grouped similar and recurring concepts into themes and subthemes. The coding framework was discussed among members of the research team (IJ, DJT, AK, DS-G, GM, AT, KM) to ensure the full depth and breadth of data were reflected in the analysis. An analytical framework was developed through a process of analysis and comparisons of concepts to identify conceptual links to create a thematic schema.

Patient and public involvement
Patients assisted to recruit their parents and vice versa if patients were under 18 years old. Patients did not design, conduct, report or disseminate the study results and were therefore not included as authors.

RESULTS
In total, 14 young people and 16 parents participated. The participant characteristics are shown in tables 1 and 2. The age of patients ranged from 15 to 23 years, with a mean of 18.5 years (SD 2.1). Eight patients and 12 parents were women and 3 patients (21%) lived in rural areas. The participants had JIA (n=8), SLE (n=3), panniculitis (n=1), familial Mediterranean fever (n=1) and sterile multifocal osteomyelitis (n=1). The average age at diagnosis was 8 years and ranged from 2 to 15 years old. Two had not commenced the transition process, three were undergoing transition and seven had transferred to adult care. Two patients were lost to follow-up at specialty rheumatology services. All interviews were conducted face-to-face except for one that was conducted by telephone. Two participating parents were interviewed independently without participation of their child. Fourteen patients contacted did not participate due to family, work or other commitments, and the majority (71%) were 18 years or over.

We identified four themes: avoid repeat of past disruptions, encounter a daunting adult environment, establish therapeutic alliances with adult rheumatology providers and negotiate patient autonomy. The themes and subthemes are described below. Illustrative quotations are provided as online supplemental table. A thematic schema illustrating the conceptual relationships between themes is shown in figure 1. The description of the themes in the following section applies to both patients and parents unless otherwise specified.

Avoid repeat of past disruptions
Maintain disease stability—patients experienced periods of medical instability during the initial stages of disease manifestation and diagnosis. Patients who had not commenced transition feared that clinicians in the
adult setting would alter their management, which they expected could lead to a repeat of medical instabilities or increased risk of disease flares. During transition, some young adults were confronted by the realisation of long-term nature of their disease, as “[the doctors] always said I would grow out of my arthritis” and felt disconcerted about their ‘reliance’ on lifelong medications. 

Preserve adjusted personal goals—before transition, symptoms of fatigue, low concentration, and absence from school or work impacted patients’ ability to pursue educational or vocational goals successfully. This made them feel ‘frustrated’ and ‘demolished’. Some patients reported being too ‘overwhelmed’ to continue pursuing ‘dreams that (were) crushed’. Other participants learnt to accept the limitations on daily life imposed by their disease, found ways to ‘manage and deal’ with their bodies’ constraints and thereafter, reshaped their ambitions. Patients valued transition timed during periods of disease and personal stability to avoid another disruption having readjusted their career ambitions.

Protect social inclusion—disease stability enabled young people to have ‘more time to see friends’. Through transition, they valued support by friends who saw them ‘as someone separate from (the disease)’ and hence did not feel the need for patient support groups. Parents thought that friends enabled young participants ‘to forget what (they were) going through’. However, patients and parents in regional areas, as well as some younger adolescent participants, wanted support groups during transition. They perceived their friends could not ‘really understand’ them and reported being subtly excluded from social events because friends believed their disease was activity-limiting.

### Encounter a daunting adult environment

Serious and sombre mood—the adult hospital was described as ‘gloomy’ and dismal, where the warmth and liveliness of the paediatric hospital enabled patients to feel “like I wasn’t a patient”. Participants perceived ‘the white, the windows, people looking around’ and physical ‘maze-like layout in adult hospitals to be ‘stressful’. The quiet atmosphere and lack of ward activities to entertain patients meant that they had no distractions and felt ‘put down’ from dwelling on their disease symptoms.

Discredited and isolated identity—participants observed that clinicians in the adult healthcare setting were not as ‘bubbly’ or personable compared with clinicians in the paediatric hospital. In the adult hospital, some reported their ‘invisible’ symptoms, such as pain, were ignored by healthcare workers. Patients also experienced isolation when surrounded by elderly patients who appeared withdrawn and reluctant to talk with others. From clinicians, being asked about their medical history repeatedly made patients feel insignificant: “It’d be nice if the stuff knew [my history] already, and they’re just asking [me] to confirm.” To protect young people from feeling isolated, some parents believed their involvement was more necessary in the adult environment where they thought patients received less attentive care than in paediatrics. Parents themselves reported feeling like ‘outsider(s)’ when they were unable to answer questions by adult clinicians who had higher expectations of parental disease knowledge.

Fear of a rigid system—young people anticipated that restricted doctor availability and reduced capacity to reschedule appointments in the adult system would limit their ability to adapt medical appointments around other life priorities. Around the time of transition, parents wanted to be informed beyond medical issues, such as specific requirements needed to attain financial government support, especially when young people were leaving home for tertiary study or vocation.

### Establish therapeutic alliances with adult rheumatology providers

Relinquish a trusting relationship—young participants trusted their paediatric rheumatologist who they described as ‘someone who knows you so well’ and was like ‘a second (parent)’. Patients reported their rheumatic condition was a source of insecurity and valued the comfort their paediatric rheumatologist provided them: “I’m quite a confident person but [my disease is] quite a vulnerable side.” To leave the care of the paediatric rheumatology was one of the most ‘upsetting’ aspects of transition.
Seek person-focused care—young people reported feeling reassured when ‘important aspects of (their) life’ such as psychological and social concerns were addressed during consultations. They could ‘warm up faster’ to the adult rheumatologist if they demonstrated interest in personal goals. However, some young adults felt too intimidated to raise medical concerns because they perceived adult rheumatologists to be constantly ‘busy’. Given the invisibility of patients’ symptoms, such as pain, parents emphasised that clinicians should enquire specifically into patients’ well-being. They believed personal issues were often inter-related with presenting medical concerns: “You need a doctor that’s interested in the whole picture for [their background] to be helpful… to connect the dots to symptoms coming up” and therefore appreciated continuity of care that was whole-person-focused, not just clinical.

Redefine personal-professional boundaries—participants struggled to redefine subtle social-professional boundaries with their adult rheumatologists such as the clinician’s flexibility to fill administrative forms between appointments, and leniency towards poor medication adherence. Parents and young people appreciated the accessibility of paediatric rheumatologists to promptly act during flares or answer questions by phone or email and were afraid they would not experience the same level of support from adult rheumatologists.

Reassurance of alternative medical supports—young adults felt ‘less trapped’ through transition when they had ongoing support from their paediatric rheumatologist and other familiar doctors. A meeting with the adult rheumatologist prior to transfer made transition less ‘daunting’ and less like ‘being thrown into fire’. Transition specialist nurses were also valued in preparing young people and parents for expectations of medication adherence, and expectations of the adult rheumatologist.

Transferred trust to adult doctor—participants were confident in their paediatrician’s choices to tailor individualised transition plans and therefore described an automatic confidence in their adult rheumatologist as: “[My paediatrician] would put me in good hands… with someone he knows I’d like.” They looked forward to developing a similarly trusting relationship with their new adult rheumatologist. A well-communicated transfer of medical and psychosocial history between rheumatologists hence provided major ‘security’ and ‘comfort’ for parents and young people.

Negotiate patient autonomy
Confidence in formerly gained independence—young people found transition was easy when they had developed independent self-care in the past. Previous experiences such as non-English or minimal English-speaking parents, previous changes in care providers or prior admission to adult wards required greater responsibility from patients to interpret medical information themselves. Some young people compared transition to ‘going from school to university’. They were not concerned with medication adherence following transition and in fact, experienced more stress when they did not regularly take their medications. Parents believed that during the period of transition, their child increasingly matured and could react more negatively to parental advice, which they believed warranted less parental care. Parents expected their children to be more independent in medicine taking and honest when they felt unwell.

Alleviate burden on patient—parents believed they had a duty to protect their child from the burden of disease and found it difficult to ‘just walk away’ from involvement in their child’s care. Parents supported their child in other aspects of life such as transportation, housing and costs of treatment: “you might not pay the mortgage this week, but [they’ll] get [their] medications.” As such, parents continued to be invested in care, despite confidence in their child’s ability to manage their health. Some young people appreciated their parents’ presence during consultations as they believed they did not ‘fully understand’ their medical history and struggled with the increased need to ‘bring up (their) own concerns’.

Mediate parental anxiety—young people were acutely aware that their parents were anxious about their disease and believed that disease diagnoses and flares were ‘more stressful for their parents than it was for (themselves)’. Parents likewise expressed that their main concern was their child’s health, such as the inability to identify or predict flare severity and the long-term disease impacts on life expectancy. Hence, young participants, sensitive to their parental anxiety, desired either more or less autonomy during transition. Some patients reported more motivation to manage themselves independently and were less likely to disclose feeling unwell to prevent parental worries. Other patients felt obligated to forfeit their independence so that their parents could feel more reassured through continuing their caregiver role of their child.

DISCUSSION
Young people perceived that the transition process was an unstable period which could potentially jeopardise their disease stability and personal ambitions. Young people feared that their complex health information would not be comprehensively transferred or communicated between the paediatric and adult healthcare providers. Young people were concerned that adult healthcare providers would not discuss or consider their personal recreational and vocational goals. They perceived the adult healthcare system to be rigid and confronting, and were uncertain that the trust they had with their paediatrician to care for them as a whole person would be developed with their new adult rheumatologist. However, young people felt more confident to maintain their disease stability when they experienced prior independence and had other health professionals, such as their general practitioner, transition nurse or other specialists, available for support. To protect their child’s personal and social stability,
parents wanted to stay involved in their child’s care after transition and help alleviate their disease burden. Some young people struggled with the tensions of desiring greater independence and enabling ongoing caregiver involvement to avoid additional parental worry.

There were some differences noted in patient perspectives based on geographical location and age. Young people and families who lived in non-metropolitan areas tended to feel isolated and expected that this could be addressed with the opportunity to join support groups during the transition period. Younger adolescents felt misunderstood and excluded by peers while young adults had been able to form strong relationships with friends, providing a feeling of acceptance and less need for social support groups. Our study included patients with different rheumatic diseases and we found that young people and parent perspectives of transition were consistent across different conditions.

Similar patient perspectives of transition are shown in studies in rheumatology and other life-long conditions such as diabetes mellitus and mental health disorders. It is well established that while young people with life-long conditions accept transition as an inevitable process, they report a hostile adult environment and distress in severing relationships with their trusted paediatric clinician, which are consistent with both our findings and the theoretical Bridges Transitions Framework. A recent systematic review noted that young people with diabetes mellitus expected their paediatrician to be a ‘bridge’ to their adult provider, to discuss expectations in the adult system and to guide them on how to ask questions to their new clinician without feeling like a burden. We found that patients felt prepared for transition when they had experience in self-management prior to transition and could access other supportive health clinicians including primary care physicians, transition nurses and other specialists.

The need to balance autonomy and dependence on support from family has also been previously identified. A study in the area of mental health services found that while patients perceived transition as a chance to gain greater independence from parents, they valued continued parental involvement as they lacked knowledge of their own disease diagnoses. While this has also been recognised in rheumatology-specific conditions, our findings highlight some tensions. Young people were sensitive that their parents would be anxious if they were uninformed or uninvolved in their child’s health. To protect and minimise parental stress, some young people wanted to involve parents in clinical appointments, despite having to forego some level of independence. Different degrees of autonomy sought by young people call for a negotiation in the strategies used to support independent self-management.

We included participants with a range of experiences of transition, and from regional and urban areas to strengthen our purposive sampling, despite relatively small subgroup numbers. We recruited participants until data saturation was achieved and used investigator triangulation (JJ, DJT, AT) to ensure that the findings reflect the full range and depth of the data collected. Triangulation was performed throughout the duration of the study, which allowed for an inductive process of theme analysis and refinement to occur.

However, there are some potential limitations. Inclusion in this study required participants to be English speaking and in Australia, which may therefore limit the transferability of the findings beyond this setting. In addition, the majority of individuals who declined to participate were over 18 years of age, suggesting a possible selection bias. However, we note that similar themes in studies conducted in other populations and settings have been identified. The lack of patient involvement in the study design may limit the clinical relevance and transferability of these findings. However, this study was undertaken to inform a model of transitional care at a tertiary adult and children’s hospital in Australia. Furthermore, different pathologies, disease severity and patient stages of transfer may limit the transferability of our findings to other settings, as varied clinical courses and disease manifestations may lead to differing perceptions of transitional support from patients and caregivers. Finally, structured parameters to measure patient outcomes such as the Visual Analogue Scale-global and Health Assessment Questionnaire (HAQ)/Childhood HAQ parameters were not collected during this study.

To improve transition, our findings suggest the need for paediatric rheumatologist-led planning; supporting a consistent management approach; ensuring that patients can readily access medical support from trusted healthcare workers such as primary care physicians, previous paediatric rheumatologists, outpatient rheumatology services and pharmacists when needed; addressing personal and social goals and expectations when building rapport. Given that young people have often built trust with their paediatric rheumatologist, we suggest that paediatricians support gradual transition by referring and introducing young people to the adult healthcare provider and discuss the differences in expectations in adult care with patients and families prior to meeting the adult provider. Maintaining a consistent approach to medical management (ie, avoiding changes to treatment) initially after transfer to adult healthcare may reduce the anxiety of parents regarding disease instability and increase young people’s comfort in developing rapport with their adult rheumatologist. Age-specific transition clinics are consistently suggested to reduce the perceived differences between paediatric and adult care cultures for young people with life-long conditions.

Patient support groups have been previously shown to improve social well-being and optimism in transitioning patients. While patients in our study agreed that peer groups could be desirable in periods of disease instability or uncertain diagnoses, patients wanted to be more informed about medical support services (eg, general practitioners, allied health, transition nurses)
and transition-related information sources they could access (eg, websites, apps). Training clinicians involved in the care of patients transitioning to adult rheumatology services is needed to ensure that their priorities and needs are met. This reflects findings from a Delphi study, conducted to develop a set of minimum training requirements for adult rheumatologists, which identified high priority areas for rapport building: training in issues unique to transition and adolescence, and relevant referral services that can be readily accessed by patients. Suggestions for caring for patients with rheumatological conditions undergoing transition are outlined in box 1, and are organised sequentially by stages of transfer to reflect the continuum of phases in the Bridges Transitions Framework.

While patient perspectives are used to evaluate existing models of care, few inform the design of transition interventions. A transition model that is co-designed can help to ensure that the patient needs are considered and addressed. For example, patient navigator programmes may have potential in the context of transition. Patient navigators are trained non-governing programmes may have potential in the context of the Bridges Transitions Framework. Studies suggest that navigator programmes may help to ensure that the patient needs are considered and addressed. For example, patient navigators can help to ensure that the patient needs are met. This reflects findings from a Delphi study, conducted to develop a set of minimum training requirements for adult rheumatologists, which identified high priority areas for rapport building: training in issues unique to transition and adolescence, and relevant referral services that can be readily accessed by patients. Suggestions for caring for patients with rheumatological conditions undergoing transition are outlined in box 1, and are organised sequentially by stages of transfer to reflect the continuum of phases in the Bridges Transitions Framework.

CONCLUSIONS

Patients and parents perceive transition as a challenging and vulnerable period which may threaten medical, educational or psychosocial goals. Young people with rheumatological conditions in particular want stability, given the unpredictable disease activity. The unique set of patient symptoms can often be under-recognised in rheumatic diseases, heightening parental worries in being able to recognise flares, and inhibiting therapeutic alliances being formed with healthcare workers in the adult setting. Transition interventions that involve ongoing paediatrician support, negotiate autonomy in self-management including accessing care, and consistent management approaches between providers are needed, to improve life-participation and quality-of-life outcomes in young people with inflammatory rheumatic diseases.

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AK, KM and SB analysed, interpreted the data and revised the manuscript. AT and DJT were involved in the conception, design, analysis, drafting and revision of the manuscript. All authors read and approved the final manuscript and agree to be accountable for all aspects of the work related to the accuracy and integrity.

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