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The impact of polymyalgia rheumatica on intimate sexual relationships: findings from the PMR Cohort Study

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Abstract

Objectives: To determine the impact of polymyalgia rheumatica (PMR) on intimate and sexual relationships over time.

Methods: The PMR Cohort study (UKCRN ID16477) is a longitudinal study of patients with incident PMR in English primary care. Participants were sent questions about their PMR symptoms, treatments and overall health, including an item about how their PMR symptoms affected intimate and sexual relationships. The proportion reporting the relevance of intimate and sexual relationships, the effect of PMR on these relationships and the associations with PMR symptoms and general health were explored.

Results: 652/739 patients (response 90.1%) completed the baseline survey, with 446/576 (78.0%) responding at two years. Mean age of responders was 72.4 years. 62.2% were female. 363/640 (56.7%) participants reported that intimate and sexual relationships were not relevant to them at baseline. 113/277 (40.8%) reported that PMR had a large effect on intimate relationships. This proportion decreased over time in those responding to 12- and 24-month surveys, but continued to be associated with younger age, male gender, worse PMR symptoms, poorer physical function and worse mental health.

Conclusion: Intimate and sexual relationships are increasingly recognised as important for healthy ageing and health professionals should consider this as part of a holistic approach to the management of PMR.

Keywords: Polymyalgia rheumatica; Primary Health Care; Cohort study; Sexual relationships

Key points

- PMR impacts the sexual and intimate relationships of 40% of people wanting these relationships.
- PMR-intimate and sexual relationships association was stronger in those with poorer physical and mental health.
- Clinicians should be aware of the potential effect of PMR on intimate and sexual relationships.

Lay summary

What does this mean for patients?

Polymyalgia rheumatica (PMR) is a condition that affects older people. It causes pain and stiffness in the hips and shoulders, as well as making people feel very tired. It can stop people from doing routine things that they previously did with no problem (e.g. walking upstairs, getting out of a car). We know very little about how PMR affects people’s personal lives. Therefore, we sent a questionnaire to 652 people in England with newly diagnosed PMR. One question asked people whether their PMR affected their “intimate and sexual relationships”. We asked the same question again 1 and 2 years later. Just over half of people said this wasn’t relevant for them. For people where it mattered to them, 4 in 10 said PMR had a large effect on their relationships. Men, people who were younger, those with worse PMR symptoms and worse mental health were more likely to report a negative effect of PMR on their relationships. The proportion of people reporting a problem reduced over time, as people’s PMR symptoms improved. We suggest that doctors should consider people’s intimate and sexual relationships as part of their care for people with PMR.

Introduction

Polymyalgia rheumatica (PMR) is the most common inflammatory rheumatological disorder of older people. It classically affects people over the age of 50 years and is characterised by pain and stiffness in the shoulders and hips (1). Onset can be sudden and can have a dramatic effect on activities of daily living. Whilst many patients respond well to treatment with glucocorticoids, PMR is a long-term condition, with treatment typically continuing for at least two years.

The importance of intimate and sexual relationships is increasingly being recognised as a key component of healthy ageing. Living with any long term illness can have a significant impact on these relationships(2), with research demonstrating that intimate and sexual relationships represent an important component of quality of life and are associated with both mental and physical wellbeing(2,3).

There is evidence for the impact of other rheumatological disorders on intimate and sexual relationships. Fatigue and ageing have specifically been associated with impact on these relationships in people with rheumatoid arthritis(4) and, ankylosing spondylitis (AS) where 40% of people reported moderate/extreme problems with their sexual relationships (4–6). However, there is no published evidence on the impact of PMR on intimate and sexual relationships. The aim of this study is to determine whether intimate and sexual relationships are affected by PMR symptoms in the first two years of the disease course and whether specific subgroups of patients are most at risk of this occurring.

Materials and methods

Study design

The PMR Study is an inception cohort of people diagnosed with PMR in general practice. The study has been described in detail elsewhere(7–9). Briefly, 739 participants were referred (June 2012 - June 2014) to the study team by their general practitioner when a new diagnosis of PMR was made. Potential participants were sent a baseline questionnaire. Those who did not respond within three weeks were sent a reminder questionnaire. Response to the baseline questionnaire indicated consent to be followed up via postal survey at six further time points over two years (1, 4, 8, 12, 18, 24 months), regardless of response to other follow-ups. Ethical approval for the study was received from the Staffordshire Research Ethics Committee (REC reference number: 12/WM/0021). All participants provided written informed consent.

Data collection

The baseline survey collected information on PMR symptoms at the time of diagnosis, treatments received for PMR, general health, lifestyle, function and socio-demographics(8). The follow-up surveys asked similar questions at six further time points over the next two years. Specific questionnaires in the surveys included numerical rating scales for pain and stiffness, EQ5D(10), mHAQ(11,12), FACIT-Fatigue(13), Insomnia Severity Index(14), PHQ8(15) and GAD7(16).

The impact of PMR on intimate and sexual relationships

Based on a question developed to assess impact of AS on intimate and sexual relationships(6) participants were asked. “In the last **2 weeks**, how much did your PMR

symptoms affect your intimate or sexual relationships?”. Response options were “Does not apply to me”; “Not at all”, “A little bit”; “Moderately”, “Quite a bit” and “Extremely”. This question was asked at baseline and at 12- and 24-month follow-ups.

Statistical analyses

Simple descriptive statistics, including means, medians and percentages, as appropriate to the distribution of the data, were used to summarise patient characteristics as at each time point. These statistics were then plotted and compared across responses to the intimate and sexual relationships item. All analyses were carried out in Stata 16.2(17) and Microsoft Excel.

Results

Study response

The baseline questionnaire was completed by 652 people (90.1% adjusted response) and 446 (78.0% adjusted response) people completed the 24-month follow-up. Comparison of responders to non-responders has been presented previously, but in summary, responders were of higher socioeconomic status, had lower levels of pain and higher levels of general health than non-responders and those lost to follow-up(7,8). The mean age of respondents at baseline was 72.4 years and 62.2% were female.

The impact and relevance of PMR on intimate and sexual relationships at diagnosis

The item regarding intimate and sexual relationships were not considered to be relevant by more than half of the cohort at baseline (n=363, 56.7%). This questionnaire item was not completed by 14 people.

Older age, female gender, living alone, not being married or cohabiting were associated with reporting that intimate and sexual relationships were not relevant to an individual (Figure 1).

Factors associated with reporting a larger impact of PMR on intimate and sexual relationships at the time of diagnosis included lower quality of life, worse physical functioning, higher levels of fatigue, insomnia, anxiety and depression. There was much less of an association with pain and with stiffness severity and and duration.

The impact and relevance of PMR on intimate and sexual relationships over time

Of the 221 people reporting that intimate and sexual relationships were not relevant to them at diagnosis and responding to this question at 12- and 24-month follow-up, 177 (80%) continued to report it not to be relevant. Of the 185 to whom it was relevant at diagnosis, 20 (11%) reported it was no longer relevant at 12 and 24 months.

Association of PMR symptoms and health characteristics with intimate and sexual relationships at 12 and 24 months follow-up

In those people who reported that intimate and sexual relationships were relevant to them at each time point, the impact of PMR on these relationships was associated with higher levels of pain and stiffness severity and duration, poorer quality of life and physical functioning, higher levels of fatigue, and with the presence of insomnia, anxiety and depression (Figure 2). These findings were similar across time points in the study, and although improvements were seen in reported pain and stiffness at follow-ups compared to

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comparable. In those reporting being sexually active or that sexual relationships were relevant, the proportions reporting an impact were higher in the current study than in the general population in men (46% vs 31%), but lower in women (35% vs 43%), although again definitions were not directly comparable.

The frequency of PMR related impact on intimate and sexual relationships is lower than reported estimates in RA patients (e.g. 54% of men and 46% of women (20)). This may be expected, due to the life-long, chronic nature of RA, along with RA presenting more frequently in younger people, who are more likely to be sexually active.

A strength of this study was in recruiting participants from primary care with incident PMR and following them prospectively. This reduces the potential for recall bias and mean they are more likely to be representative of the general PMR population than cohorts recruited from specialist settings. In asking about the impact of PMR on relationships over time, we were able to better understand how PMR is associated with intimate and sexual relationships throughout the disease course. Finally, by asking participants to report the effect of PMR on intimate and sexual relationships rather than to report sexual satisfaction, avoided subjectivity, as people’s expectations and response to sex can vary significantly (21). However, the item used to ask about this was taken from a previous study of people with ankylosing spondylitis(6) but has not undergone specific psychometric testing and we allowed the study participant to define “intimate or sexual relationships” as they chose. This may have introduced heterogeneity in the way participants responded and in future studies, as more rigorously tested method of assessing impact could be used.

Whilst a GP diagnosis of PMR could be seen as a limitation, the sample has similar age and gender distributions to those seen in other PMR cohorts in secondary care, giving credence to GPs' diagnoses. Regardless of potential misdiagnosis, this sample can be seen to represent those diagnosed with and treated for PMR in real world primary care settings. Some participants may have been referred to specialist services either at diagnosis or during treatment.

It remains unclear exactly how PMR symptoms, physical functioning and mental health are related to intimate and sexual relationships in PMR and it is likely that, particularly for mental health, there is a bidirectional relationship. In the context of continuing PMR symptoms for many people beyond their initial diagnosis and treatment the value in delineating these relationships further is questionable. It may be more prudent to ensure individuals with PMR are offered a holistic approach to disease management considering all aspects of life they consider relevant.

In conclusion, a sizable proportion of participants reported that PMR symptoms had a significant impact on their intimate and sexual relationships, which in turn may have effects on physical and mental wellbeing and vice versa. The association of intimate and sexual relationships with pain and stiffness was similar to that observed in other inflammatory conditions. The continued association with symptoms and measures of function over time suggests that control of underlying disease activity could improve patients' relationships. Our findings suggest that considering the impact on intimate and sexual relationships could form part of a broader management plan and that problems in this important area of life are likely to be related to poor symptom control, physical functioning and/or mental health.

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Data availability statement: Keele University is a member of the UK Reproducibility Network and committed to the principles of the UK Concordat on Open Research Data. The School of Medicine and Keele Clinical Trials Unit have a longstanding commitment to sharing data from our studies to improve research reproducibility and to maximise benefits for

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patients, the wider public, and the health and care system. We encourage collaboration with those who collected the data, to recognise and credit their contributions.

The School of Medicine and Keele Clinical Trials Unit make data available to bona-fide researchers upon reasonable request via open or restricted access through a strictly controlled access procedure. The release of data may be subject to a data use agreement (DUA) between the Sponsor and the third party requesting the data. In the first instance, data requests and enquiries should be directed to medicine.datasharing@keele.ac.uk.

Figure 1: Associations between patient characteristics and reported effect of PMR intimate and sexual relationships at diagnosis.

Figure 2: Association between concurrent patient characteristics and reported impact on intimate and sexual relationships over time.

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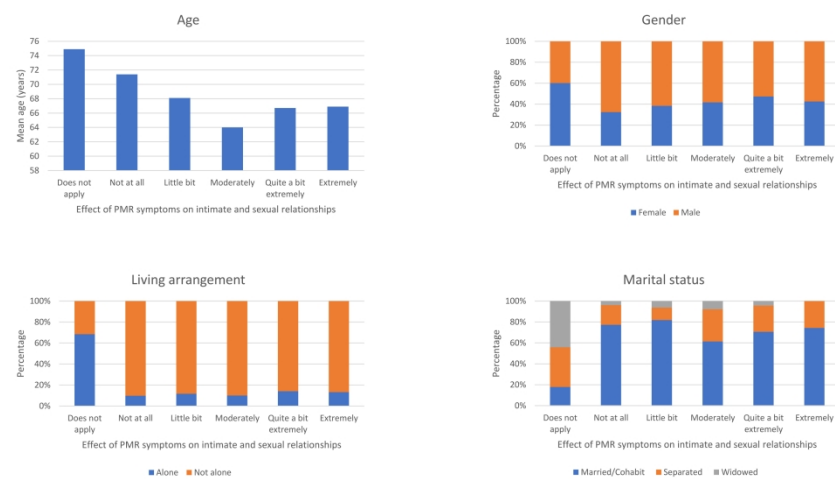
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Associations between patient characteristics and reported effect of PMR intimate and sexual relationships at diagnosis

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Association between concurrent patient characteristics and reported impact on intimate and sexual relationships over time

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is not responding to antimicrobial therapy, until infection is controlled. There is a higher incidence of serious infections in the elderly aged 75 years and older, caution should be used when treating this population. **Tuberculosis:** Patients should be screened for TB before initiating filgotinib, and filgotinib should not be administered to patients with active TB. **Viral reactivation:** Cases of herpes virus reactivation (e.g., herpes zoster), were reported in clinical studies (see SmPC). If a patient develops herpes zoster, filgotinib treatment should be temporarily interrupted until the episode resolves. Screening for viral hepatitis and monitoring for reactivation should be performed. **Malignancy:** Immunomodulatory medicinal products may increase the risk of malignancies. Malignancies were observed in clinical studies (see SmPC). **Fertility:** In animal studies, decreased fertility, impaired spermatogenesis, and histopathological effects on male reproductive organs were observed (see SmPC). The potential effect of filgotinib on sperm production and male fertility in humans is currently unknown. **Haematological abnormalities:** Do not start therapy, or temporarily stop, if Absolute Neutrophil Count (ANC) $< 1 \times 10^9$ cells/L, ALC $< 0.5 \times 10^9$ cells/L or haemoglobin < 8 g/dL. Temporarily stop therapy if these values are observed during routine patient management. **Vaccinations:** Use of live vaccines during, or immediately prior to, filgotinib treatment is not recommended. **Lipids:** Treatment with filgotinib was associated with dose dependent increases in lipid parameters, including total cholesterol, and high-density lipoprotein (HDL) levels, while low density lipoprotein (LDL) levels were slightly increased (see SmPC). **Cardiovascular risk:** Rheumatoid arthritis patients have an increased risk for cardiovascular disorders. Patients should have risk factors (e.g., hypertension, hyperlipidaemia) managed as part of usual standard of care. **Venous thromboembolism:** Events of deep venous thrombosis (DVT) and pulmonary embolism (PE) have been reported in patients receiving JAK inhibitors including filgotinib. Caution should be used in patients with risk factors for DVT/PE, such as older age, obesity, a medical history of DVT/PE, or patients undergoing surgery, and prolonged

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