

# Post-Meeting Notes: Q&A with Dr Sarah Gosling, PhD Physiotherapist – Fabry and Physical Activity

We were delighted to host Dr Sarah Gosling, physiotherapist and researcher, to discuss her work on Fabry disease and physical activity. The session offered practical, evidence-informed advice while recognising the very individual nature of Fabry symptoms and how these can impact exercise and movement. Below is a summary of the key themes.

## 1. Exercise during or after pain crises (acroparesthesias)

- Pain is highly individual – there is no single approach that works for everyone.
- Aim for a continuum of activity rather than an “all-or-nothing” approach, which can lead to frustration and a sense of failure.
- Reducing sedentary time – breaking up long periods of sitting may make symptoms more tolerable.
- Hands: gentle stretching and movement exercises.
- Stretching: hold for around 10 seconds; avoid pushing past a 6/10 on the pain scale.
- Feet: rolling, circles, and seated movements can be useful.
- Heat therapy: may help by dilating blood vessels and improving circulation.
- **Overall goal:** increase blood flow, supporting nerves and maintaining range of motion.

## 2. Managing heat intolerance and activity in hot conditions

- Many people with Fabry experience difficulties regulating temperature.
- Even small reductions in sedentary behaviour (for example, moving during TV advert breaks) can make a difference.
- Begin with seated exercises to build tolerance gradually.
- The psychological benefit of achievable movements should not be underestimated.

## 3. Fatigue management and pacing

- Plan activities in manageable chunks – remembering that “manageable” will look different for each individual.
- Prioritise lower-intensity or seated exercises when fatigued.
- Use pacing strategies: start gently and increase slowly.
- Incorporate breathing techniques to regulate heart rate and manage exertion.

## 4. Balance and fall prevention

- Neuropathy can reduce sensation in the feet, leading to instability.
- Work on lower limb stretches and movements to stimulate circulation and neural pathways.

- Train balance safely through replicated movements, resistance band work, or single-leg activities.
- Adapt sessions to avoid overheating, which may exacerbate symptoms.

## **5. Exercise with cardiac involvement**

- Always seek consultant approval before making exercise changes.
- Physiotherapy programmes typically address:
  - Balance
  - Flexibility
  - Strength (including seated options)
  - Aerobic fitness (for example, walking)
- Patients are encouraged to advocate for themselves – keeping notes, setting goals, and highlighting gaps in current clinical guidance to their medical team.

## **6. Everyday stretches and joint comfort**

- Regular, gentle stretching can help reduce stiffness and maintain mobility.

## **7. Physical activity and disease progression**

- At present, no direct evidence shows physical activity prevents organ complications in Fabry.
- However, strong evidence from other conditions shows exercise supports cardiac, renal, and respiratory health.

## **8. Flare-ups after activity**

- Pacing is essential – begin with seated, light exercises and increase slowly.
- Current research in Fabry is limited to those with moderate symptoms, for safety reasons. Over time, it is hoped that future studies will include people with more severe symptom profiles.

## **9. Adapted exercise programmes**

- No formal Fabry-specific exercise programme currently exists.
- Tailoring to the individual is key. Options that may be helpful include:
  - Hydrotherapy: supportive environment, helps with circulation and neuropathy.
  - Pilates or Tai Chi: gentle strengthening and balance, available in group or online formats.

## **10. Tracking progress**

- Progress is highly personal – define what it means for you.
- Possible measures include:
  - Step count and aerobic capacity

- Weekly or daily activity logs
- Symptom diaries
- Smartwatch data (for example, heart rate, VO<sub>2</sub> max)
- Goals should be realistic, achievable, and flexible to account for symptom variation.

## 11. Mental health benefits

- Exercise supports mental wellbeing and quality of life through the release of endorphins.
- Activities outdoors or with a social element (for example, walking groups or classes) are especially valuable.

## Ongoing research with Dr Gosling

Dr Gosling's current project is exploring a structured programme incorporating:

1. Individual consultations and goal-setting.
2. Regular progress check-ins.
3. A website with accessible, evidence-based resources.
4. Smartwatch integration to monitor activity.
5. Peer support groups for motivation and shared learning.

Breathing and heart rate management are also emerging as important techniques – helping individuals pace themselves and regulate exertion safely.

**These insights are intended as general guidance. All exercise should be adapted to the individual, and medical advice should always be sought before making significant changes to activity levels.**