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Playing-related musculoskeletal disorders in Irish traditional musicians: a focus group study

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Background

- Between 32% and 87% of musicians have playing-related musculoskeletal problems (PRMDs)
- Most research has investigated PRMDs in classical musicians
- Conflict in the literature (classical v folk):
 - There are **similar patterns of injury** when comparing classical and folk musicians [1]
 - Previous work found **differences** between classical and folk [2] and PRMDs [3] in Irish traditional musicians
- There has been very little research into Irish traditional musicians
- To date:
 - The pattern of injuries for classical musicians is different to those who play traditional music [2]
 - PRMDs are a significant problem and can cause neurological abnormalities [3]
 - PRMDs are a problem for traditional Irish musicians and there is a culture of silence and stoicism [4]
- This is the first study to explore the Irish traditional musician's perceptions of PRMDs

PRMDs: where they were...

Overarching theme	Themes	Sub-themes
Playing-related disorders are an integral part of being a traditional Irish musician	Fear	Avoidance
		Distrust
		Physical <ul style="list-style-type: none">Playing environmentPostural stressesThe instrumentThe way music is taughtThe music being played Emotional/Psychological

Fear: sub-theme distrust of health professionals

- Several participants commented on the lack of specialist knowledge of health professionals
- Participants believe:
 - Health professionals do not understand the unique needs of a musician, and especially, the traditional musician
 - Health professionals will tell them to stop playing
 - An intervention could do more harm than good
 - There are no clearly identified health professionals that specialise in PRMDs
 - There is a lack of support for musicians with PRMDs

Stresses contributing to PRMDs

Emotional/Psychological

Higher risk of PRMDs if musician is:

- Nervous
- Anxious
- Tense
- Stressed

Management includes trying to relax

Discussion

- In order to be successful, musicians must have:
 - Physical and mental strength
 - Endurance
 - Manual dexterity
 - Technical precision
 - Ability to play repetitively and rapidly, day after day, and year after year [5, 6]

A successful musician and a successful athlete, will each have these same qualities.

Why is there such discrepancy in the management of their injuries?

- All participants either had one or more PRMD or knew of someone with a PRMD
- Irish traditional musicians consider themselves, their music and their musical culture as very different to other musicians e.g. classical
- Despite being aware of problems such as seating etc., participating in music was more important than their pain and discomfort

WHY?

Because being a musician requires dedication, desire and discipline [6], and encompasses a sense of identity, a place in the musical community as well as an income and way of life.

Take home messages

- Musicians have a high prevalence of PRMDs
- Irish traditional musicians identified specific issues and stresses within their culture that were associated with PRMDs
- Not all musicians are the same – there are different musical cultures as well as different instruments, music and playing environments
- Health professionals must understand the musculoskeletal and performance demands of each musician, in order to provide help

Methods

- Focus groups (n = 4) in 2011 and 2012
- Derry and Limerick
- Ethical approval from the Research Ethics Committee, University of Ulster
- Inclusion criteria:
 - Males or females aged 18 and above
 - Who taught or played Irish traditional music on any instrument
- Analysis
 - Interpretative approach
 - Independent analysis by two researchers
 - Same themes emerged

PRMDs are an integral part of being a traditional musician

- All participants believed there was a link between playing music and musculoskeletal problems
- Although problems are commonplace, traditional musicians do not treat PRMDs seriously
- “Because it’s music maybe it’s not taken as seriously as a person who’s into sports or even classical music”* (Participant 7)
- Only 5 of the 22 participants did **not** currently have a PRMD
- PRMDs were considered **less** important than the music and the whole musical experience

Fear

‘I think there is this massive fear of having to give it up, and maybe that’s what it is, there’s a block there where you know that – you know you go to somebody that they might tell you to stop playing for 3 or 4 months and for people who are playing professionally a lot of time they can’t afford to do that because they’re either teaching or playing. And people who are doing it as a past-time a lot of the time don’t want to give it up for some reason either because I suppose a lot of them it’s their outlet for enjoyment and I think that that could be something to do with it. I know it’s just that they don’t want to be actually told that they have to stop.’

(Participant 11)

Stresses contributing to PRMDs

Physical

- Playing environment**
 - Setting is not designed for performance (often pubs, bars)
 - Playing often happens at night, and can last for several hours (especially sessions)
 - Although the setting may be unsuitable, there is a reluctance to disturb the session or draw attention to themselves (and thus away from the music) by asking for more space or bringing the issue to everyone’s attention

“You could be crammed into a corner of a pub and you do find that it is strenuous across the back” (Participant 11)

- Postural issues**

- Primarily unsuitable seating, and insufficient space
- Postural problems are recognised, but not acted upon during the session
- Some musicians found the Alexander technique very useful
- Identity of being an Irish traditional musician does not include warm-ups and other exercises

“you’re just sitting in weird positions and in weird chairs” (Participant 13)

because if you say ‘oh this is injury prevention for musicians’, people would laugh at you” (Participant 2)

- The instrument**

- Quality and physical size of the instrument was relevant to PRMDs
- Lesser quality and heavier instruments were more likely to cause PRMDs
- Musicians alter their instruments to reduce PRMDs

- The way music is taught**

Traditional music is taught differently to classical
Features that relate to PRMDs are:

- Class sizes (classical is often 1:1, traditional can be up to 30 students)
- Copying the teacher’s posture and technique
- Lack of emphasis on posture when learning, and the difficulty of teaching this in a large class
- Many musicians are self-taught
- Little agreement on the ‘right’ or ‘wrong’ way to play an instrument
- Pressure for students to leave the lesson having learned a tune (classical musicians may work on one piece for weeks)

[the teacher just said] “put the fiddle up there – there’s your bow, work away”

(Participant 8)

- The way music is taught**

‘Yeah I do [agree that speed is an issue]. ... the faster it [the music] is, the more pressure that you are trying to get like your ornaments in ..., I think you just automatically tense up to try and get everything in there. Whereas if you go slower, it wouldn’t be as hard’.*

(Participant 3)

*Ornaments are musical embellishments, often quite complex, that are added to the basic melodic line.

Results

- Participants: (n = 22)
 - Students
 - Teachers
 - Performers
 - University lecturer
 - Nine engaged in more than one way (performing, teaching, writing, music therapy)
 - From: Ireland (n = 16), Newfoundland (n = 2), Sweden (n = 2), Shetland Islands (n = 1), Glasgow (n = 1)
- Played: 8 to 40 years

Instruments played by participants

PRMDs: how they are described...

PAIN
WEAKNESS
NUMBNESS
TINGLING
STIFFNESS
ACHING
CRAMPING
TENSION
TIREDNESS
TIGHTNESS
TWINGES
PINS and NEEDLES

Consequences of PRMDS

PAIN
DISABILITY
IMPAIRED PLAYING
CHANGED WAY OF PLAYING
LACK OF CONTROL
DIFFICULTY WITH DAILY ACTIVITIES
FINANCIAL PROBLEMS
STRESS
DIFFICULTY SLEEPING

Management of PRMDs in Irish traditional musicians

Fear: sub-theme avoidance

“I think people will look for help only when they are really in such a state that they can’t play any more. Most people will go into denial – at least, that is my experience – and will say “I am tough. I can play through this” and then of course it gets worse. Finally when they can’t do anything else, that is when they will go and seek help, when they have to either seek help or stop playing.”

(Participant 17)

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