

# Comparing different diagnostic tools to identify joint hypermobility syndrome in dancers

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|----------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Submission date</b><br>11/06/2018   | <b>Recruitment status</b><br>No longer recruiting     | <input type="checkbox"/> Prospectively registered<br><input checked="" type="checkbox"/> Protocol |
| <b>Registration date</b><br>23/06/2018 | <b>Overall study status</b><br>Completed              | <input type="checkbox"/> Statistical analysis plan<br><input checked="" type="checkbox"/> Results |
| <b>Last Edited</b><br>14/07/2023       | <b>Condition category</b><br>Musculoskeletal Diseases | <input type="checkbox"/> Individual participant data                                              |

## Plain English summary of protocol

### Background and study aims

Hypermobility is not well understood. The aim of this study was to identify how common joint hypermobility syndrome (JHS) is within jazz dancers, to test different ways of identifying JHS and to assess potential risk factors for joint hypermobility in jazz dancers.

### Who can participate?

Jazz dancers aged 18-25 years from the Polish Dance Theater

### What does the study involve?

The participants were assessed for JHS symptoms using the following diagnostic tools: a structured interview, Beighton score (a physical test of joint flexibility), Grahame & Hakim questionnaire, and Sachse's criteria, in the modified version proposed by Kapandji.

### What are the possible benefits and risks of participating?

The benefit of the study for participants is the diagnosis or exclusion of JHS. This study demonstrated a significant prevalence of joint hypermobility in jazz dancers and corroborates the findings of other researchers, indicating the need for unified diagnostic criteria for JHS in dancers. Participants do not bear any risk by taking part in the study.

### Where is the study run from?

Kielce Dance Theater.

### When is the study starting and how long is it expected to run for?

January 2013 to January 2014.

### Who is funding the study?

The study was funded by the principal investigator.

### Who is the main contact?

Marlena Skwiot, [marlena.skwiot@gmail.com](mailto:marlena.skwiot@gmail.com)

## Contact information

**Type(s)**

Public

**Contact name**

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**Additional identifiers****Protocol serial number**

01/2018

**Study information****Scientific Title**

Comparing prevalence of joint hypermobility syndrome in jazz dancers using a structured interview, Beighton score, Grahame & Hakim questionnaire, and Kapandji-modified Sachse's criteria

**Study objectives**

To assess the prevalence of joint hypermobility syndrome (JHS) amongst a cohort of jazz dancers, by analyzing its presence in accordance with a number of diagnostic criteria, and to verify potential risk factors for joint hypermobility in jazz dancers.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Bioethics Commission of the Faculty of Health Sciences of the University of Jan Kochanowski in Kielce, 11/03/2013, 01/2013

**Primary study design**

Observational

**Study design**

Cross-sectional cohort study

**Study type(s)**

Diagnostic

**Health condition(s) or problem(s) studied**

Joint hypermobility syndrome (JHS)

## **Interventions**

Data on the participants, including dance history and current dance performance, and the JHS symptoms they experienced was collected through a structured interview. Specific questions were asked about injuries, symptoms typical for the hypermobility syndrome such as chronic spinal pain, temporomandibular joint disorders and out-of-joint symptoms such as possible skin lesions, myopia, varicose veins. Interviews were carried out by the same physiotherapist. All subjects underwent anthropometric assessment with measures taken of standing height, using a stadiometer, and weight, using a standard set of scales. The presence of joint hypermobility syndrome was evaluated using the following diagnostic tools: Beighton score, Grahame & Hakim questionnaire, and Sachse's criteria, in the version modified by Kapandji.

## **Intervention Type**

Not Specified

## **Primary outcome(s)**

Prevalence of JHS

## **Key secondary outcome(s)**

N/A

## **Completion date**

10/01/2014

## **Eligibility**

### **Key inclusion criteria**

1. Aged between 18 and 25 years
2. At least 3 years of dancing experience
3. Jazz dance as the dominant dance style

### **Participant type(s)**

Other

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Lower age limit**

18 Years

### **Sex**

All

### **Total final enrolment**

77

### **Key exclusion criteria**

Injuries preventing dancing

**Date of first enrolment**

12/02/2013

**Date of final enrolment**

12/03/2013

## **Locations**

**Countries of recruitment**

Poland

**Study participating centre**

Kielce Dance Theatre

Moniuszki Place 2B

Kielce

Poland

25-334

## **Sponsor information**

**Organisation**

Marlena Skwiot

## **Funder(s)**

**Funder type**

University/education

**Funder Name**

Uniwersytet Jana Kochanowskiego w Kielcach

**Alternative Name(s)**

Jan Kochanowski University, Jan Kochanowski University in Kielce

**Funding Body Type**

Private sector organisation

**Funding Body Subtype**

Universities (academic only)

**Location**

# Results and Publications

## Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during the current study during this study will be included in the subsequent results publication.

## IPD sharing plan summary

Data sharing statement to be made available at a later date

## Study outputs

| Output type                      | Details | Date created | Date added | Peer reviewed? | Patient-facing? |
|----------------------------------|---------|--------------|------------|----------------|-----------------|
| <a href="#">Results article</a>  | results | 22/02/2019   | 08/11/2019 | Yes            | No              |
| <a href="#">Protocol (other)</a> |         |              | 14/07/2023 | No             | No              |