

# Infographic. Consensus recommendations on the classification, definition and diagnostic criteria of hip-related pain in young and middle-aged active adults from the International Hip-related Pain Research Network, Zurich 2018

## Review Article

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### Publication date:

2021-01

**Permanent link:**

<https://doi.org/10.3929/ethz-b-000460400>

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**Originally published in:**

British Journal of Sports Medicine 55(2), <https://doi.org/10.1136/bjsports-2020-102219>


# Infographic. Consensus recommendations on the classification, definition and diagnostic criteria of hip-related pain in young and middle-aged active adults from the International Hip-related Pain Research Network, Zurich 2018

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Young and middle-aged active adults with hip and groin pain often present with a confusing overlap of signs and symptoms. There is no consensus on how to define or classify hip disease with different and overlapping intra-articular and extra-articular contributors to symptoms in an anatomically complex region. Several researchers and consensus groups have previously


attempted to define aspects of hip and groin pain.<sup>1-4</sup> In 2017, the International Hip Pain Research Network (IHiPRN) was established to facilitate collaboration across research groups and disciplines and to improve knowledge dissemination of hip-related pain to clinicians. In this paper,<sup>5</sup> published in the *British Journal of Sports Medicine*, we first describe the

general consensus process applied to all topics in this series. We then make recommendations on the first topic on how to classify, define and diagnose hip disease in young and middle-aged active adults, with hip-related pain as the main symptom. Other papers in this series used this classification of hip-related pain in the assessment of (1) patient-reported outcome



Reference: Reiman et al., 2020. BJSM


## Consensus Recommendations on the Classification, Definition and Diagnostic Criteria of Hip-related Pain in Young and Middle-aged Active Adults (Zurich, 2018)



Created by: @AdamVirgile

### Summary of Final Consensus Recommendations

Recommendation Level



#### Expert Backgrounds

The 38 experts included:

- ✓ Physiotherapists
- ✓ Orthopaedic surgeons
- ✓ Sports and exercise medicine physicians and scientists
- ✓ Biomechanists
- ✓ Radiologists

#### Research Driven



Evidence summaries from literature searches and syntheses of included articles were the basis of the Zurich consensus meeting discussions. These informed the consensus recommendations for clinicians and researchers.

#### Reaching Agreement

The group discussed, revised and then voted on the appropriateness of the recommendations using a 10-point Likert scale.



#### For Clinicians

**1** A negative flexion adduction internal rotation (FADIR) test helps to rule out hip disease.

**2** Diagnostic utility of imaging for hip disease in people with hip-related pain is limited; imaging should always be combined with the patient's symptoms and clinical signs.

**3** Anteroposterior (AP) pelvis and lateral femoral head-neck radiographs should be requested to assist diagnosing hip-conditions associated with hip-related pain.

Cross-sectional imaging is recommended when further morphological assessment or evaluation of intra-articular structures is indicated.

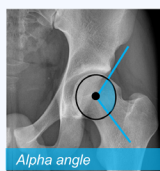
#### For Clinicians & Researchers

After imaging, hip-related pain may be further categorized into:

1. Femoroacetabular impingement (FAI) syndrome.
2. Acetabular dysplasia and/or hip instability.
3. Other conditions causing hip-related pain, including soft-tissue conditions (labrum, cartilage, and ligamentum teres) without a specific bony morphology.

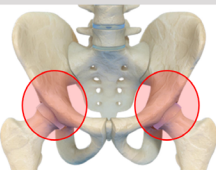
#### For Researchers

**1** Bony morphology outcome measures (e.g. alpha angle or centre-edge angle) should be clearly defined, measured and reported.



An example of an alpha angle measurement on an anteroposterior (AP) pelvis radiograph.

**2** Future research should include large-scale, interdisciplinary research on aetiology and prognosis for FAI syndrome, acetabular dysplasia, and other conditions causing hip-related pain.



measures,<sup>6</sup> (2) standardised measurement of physical capacity<sup>7</sup> and (3) physiotherapist-led treatment.<sup>8</sup>

For this paper, the working group used a scoping review framework to search the literature for systematic reviews, intervention and observational studies (prospective or retrospective) with a study population of at least 10 young and middle-aged active adults and published in English language, peer-reviewed journals. Evidence summaries and consensus recommendations were then presented to and discussed by the whole group of IHiPRN participants. We reached consensus on three clinical recommendations, one clinical and research recommendation, and two research recommendations (infographic), all of which were an amalgamation of best available evidence and expert opinion. Following discussion, each participant was asked to perform a blinded vote on the recommendation (infographic). Both non-musculoskeletal and serious hip pathology conditions (eg, tumours, infections, slipped capital femoral epiphysis), as well as competing musculoskeletal conditions (eg, lumbar spine) should first be excluded before categorising hip disease in young and middle-aged active adults presenting with hip-related pain. Once these are excluded, hip-related pain should be categorised into (1) femoroacetabular impingement syndrome, (2) acetabular dysplasia and/or hip instability and (3) other conditions without bony morphology causing hip-related pain, such as chondral, labral and ligamentum teres conditions.

The diagnostic clinical utility for the various clinical and radiological measures was stratified according to magnitude of the pretest to post-test probability shift, precision (repeatability of the results), and study quality. Each of these values were represented on a 2×2 quadrant (magnitude×precision) as *not recommended* (red quadrant), *cautiously recommended* (yellow quadrants) or *recommended* (green quadrant) if the study quality was high.

We determined that the diagnostic utility of clinical examination and diagnostic imaging in isolation are limited and recommend a comprehensive diagnostic approach of patient symptoms, clinical signs and diagnostic imaging. We recognise that the diagnostic capability of matching symptoms, clinical signs and diagnostic imaging is unknown for patients with hip-related pain and recommend that future studies be considered in determining such diagnostic utilities.

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**Contributors** AV, RA, MPR and HPD contributed to the conception of the work. All authors contributed to the interpretation, drafting and revision of the infographic and gave their final approval.

**Funding** The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

**Competing interests** None declared.

**Patient consent for publication** Not required.

**Provenance and peer review** Not commissioned; externally peer reviewed.



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**To cite** Reiman MP, Agricola R, Kemp JL, *et al.*  
*Br J Sports Med* 2021;**55**:115–117.

Accepted 27 July 2020

Published Online First 31 August 2020

*Br J Sports Med* 2021;**55**:115–117.

doi:10.1136/bjsports-2020-102219

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