

**THE CLASSIFICATION RECOMMENDED BY THE ORTHOPEDIC ADVISORY
COMMITTEE OF THE WORLD FEDERATION OF HEMOPHILIA**

The clinical evaluation includes patient data, joint evaluation and physical evaluation as detailed below:

I. Patient Data

1. Age
2. Factor deficiency (VIII, IX, etc.)
3. Factor level
4. Inhibitor (Yes or No)
5. Mode of treatment
 - O = No, or minimal transfusion therapy
 - E = Episodic transfusion for most of all bleeding episodes
 - M = Maintenance or prophylactic therapy
 - (H) = Added after E or M indicates that the patient is on a homeself-transfusion program

Example: 16: VIII: <1:NO:E(H)

A 16-year-old patient, factor VIII deficient, with a level of less than 1%. He does not have an inhibitor and treats at home on an episodic basis.

II. Joint Evaluation (of the nonbleeding joint)

- | | |
|--------------------------|------|
| 1. Pain | 0-3 |
| 2. Bleeding | 0-3 |
| 3. Physical examination | 0-12 |
| 4. Radiologic evaluation | 0-13 |

If the limb described requires an aid to ambulation, the following letters should be added at the end of the evaluation:

- B = Brace or orthosis
- C = Cane
- CR = Crutches
- WC = Wheelchair

PAIN

- 0: No pain
 - No functional deficit
 - No analgesic use (except with acute hemarthrosis)
- 1: Mild pain
 - Does not interfere with occupation nor with activities of daily living (ADL)
 - May require occasional non-narcotic analgesic
- 2: Moderate pain
 - Partial or occasional interference with occupation or ADL
 - Use of non-narcotic medications
 - May require occasional narcotics
- 3: Severe pain
 - Interferes with occupation or ADL
 - Requires frequent use of non-narcotic and narcotic medications

BLEEDING

This is measured by the number of minor and major hemarthroses *per year*.

- 0 = None
- 1 = No major, 1-3 minor
- 2 = 1-2 major or 4-6 minor
- 3 = 3 or more major or 7 or more minor

Guidelines

Minor

Mild pain
Minimal swelling
Minimal restrictions of motion
Resolves within 24hrs of treatment

Major

Pain
Effusion
Limitation of motion
Failure to respond within 24hrs

PHYSICAL EXAMINATION

This is based on an additive score of 0-12 with 0 being a normal joint and 12 being most affected. An (S) is added after the number if a chronic synovitis is clinically diagnosed

Swelling	0 or 2+(S)
Muscle atrophy	0-1
Axial deformity	0-2
Crepitus on motion	0-1
Range of motion	0-2
Flexion contracture	0 or 2
Instability	0-2

Guidelines

Swelling:

- 0 = None
- 2 = Present
- (S) = Added after score if chronic synovitis is present

Muscle atrophy:

- 0 = None or minimal (<1cm)
- 1 = Present

Axial deformity (measured only at knee or ankle):

Knee

- 0 = Normal = 0-7° valgus
- 1 = 8-15° valgus or 0-5° varus
- 2 = >15° valgus or >5° varus

Ankle

- 0 = No deformity
- 1 = Up to 10° valgus or up to 5° varus
- 2 = >10° valgus or >5° varus

Crepitus on motion:

- 0 = None
- 1 = Present

Range of motion:

- 0 = Loss of 10% of total full range of motion (FROM)
- 1 = Loss of 10-33 1/3% of total FROM
- 2 = Loss of >33 1/3% of total FROM

Flexion contracture:

- Measured only at hip, knee, or ankle
- 0 = <15° FFC (fixed flexion contracture)
- 2 = 15° or greater FFC at hip or knee or equines at ankle

Instability:

- 0 = None
- 1 = Noted on examination but neither interferes with function nor requires bracing
- 2 = Instability that creates a functional deficit or requires bracing