

# WP1 Synovial Fluid Obtainment, Preparation and Preservation

## Technical Flowchart

### WP1.1. Synovial Fluid Obtainment from Patients Knees

#### Swollen Knees (\*Synovial fluid samples that contain blood will be excluded.)

##### Cleansing

- for 10', 10 % povidone iodine will be applied to the knee joint.
- single-use medical cover with an aperture will be placed to the lateral supra-patellar aperture.

##### Local Anesthesia

- surface anesthesia of the skin will be obtained by applying 10% lidocaine spraying.
- after 5 min, the joint capsule and the subcutaneous tissues will be anesthetized by injecting 1.5 ml 2% Prilocaine Hydrochloride.

##### Synovial Fluid Obtainment

- after 5 min, the joint-space will be approached by a 1.2x38 mm 18G needle and the synovial fluid will be collected to a 50 ml injector.
- The obtained synovial fluid will be allocated into 2.0 ml storage tubes to be stored at -20°C.

### WP1.2. Synovial Fluid Preparation for Analyses

#### on the day of the analysis

Synovial fluid samples will be thawed to room temperature in an hour.

##### Centrifugation

- 10 min at 1.200g (2.700 rpm)

Plasma and sediments will be evaluated separately.

### WP1.3. Synovial Fluid Preservation

Synovial fluid samples and sediments will be allocated in 2.0 ml. storage tubes and preserved at -80°C for further analysis.