

**MODULE  
MUSCULOSKELETAL SYSTEM  
JOINT PAIN MODULE**



**DISUSUN OLEH :**

**Dr. dr. Femi Syahriani, Sp.PD - KR**

**MEDICAL SCHOOL  
HASANUDDIN UNIVERSITY  
MAKASSAR  
2023**

## LEARNING STRATEGIES

1. Group Discussion directed by tutor
2. Independent group Discussion without tutors
3. Consultation with expert on the problem meant to obtain a deeper understanding
4. Special lectures in class
5. Individual learning activities in library using textbooks, magazine, slides, tape or videos, and internet
6. Practice Skills in clinical examination of joints And analysis of radiological images
7. Practicum in laboratory

## PROCESS OF PROBLEM SOLVING

In group discussion using the brainstorming method, students are expected to solve problem in this scenario.

Following 7 problem-solving steps below :

1. Clarify term that are not clear in the scenario above, and determine the key words of the scenario
2. Identify the basic problem of the scenario above by making some important questions.
3. Analysis problems by answering answer questions above.
4. Classify the answer.
5. Determine the learning objectives that students want to achieved.
6. Get additional information about the case. Step 6 is done by self study.
7. Report the results of the discussion and synthesis of the newly discovered information. Step 7 done in group discussion with tutors.

### Explanation :

If from the results of the evaluation of the group report it turns out that there is still information needed for final conclusion, then process 6 can be repeated.

The two steps above can be repeated outside the tutorial, and after the information is deemed sufficient, reporting carried out in the final discussion, which is usually carried out in the form of a panel discussion where all the experts sit together to give explanation on matter that are not clear yet.

## SCHEDULE OF ACTIVITIES

Prior to the meeting between student groups and tutors, student were divided into discussion groups consisting from 15-17 people per group.

1. The First meeting in large class for **explanation** . **Purpose** : explained about the module and how to complete the module, and divided the discussion groups. At the first meeting module book were distributed.
2. Second meeting: **tutorial 1 discussion** led by students who were elected as group leaders and writers, and facilitated by tutors . **Objective** :
  - Select the group leader And secretary
  - Brainstorming For process 1 – 5
  - Division of task
3. Third meeting: **tutorial discussion 2** as in tutorial 1. **Purpose** : to report new information obtained from self study And classify, analyze And synthesis all information.

4. Self study. **Purpose** : For look for information new Which necessary,
5. **Independent Discussion**; with the same process as the tutorial discussion. When there is sufficient information, self-discussion is used to prepare presentation reports and written report.
6. Fourth meeting : **panel discussion and expert questioning . Purpose** : to report results analysis and synthesis of information found to solve problem in scenario. If There are unclear problem or missperception they can be resolved by the experts present at these meeting. The presentation report is made by group
7. Final Meeting final : case **report conducted in large** class by each student.

No.	Name	Department
1	Dr. dr. Sitti Rafiah, M. Kes	Anatomy
2	dr. Shelly Salmah, M. Kes	Histology
3	Dr. dr. Batari Todja Umar, Sp.M(K)	Histology
4	dr. Triani Hastuti, Sp.KK	Histology
5	Dr. Ahmad Ashraf, Sp.M	Histology
6	Dr. Dario Nelwan, Sp.Rad	Radiology
7	dr. Andi Ariandy, Ph.D	Physiology
8	Dr. dr. Syahrijuita, Sp.ENT-KL	Biochemistry
9	dr. Djumadi Achmad, Sp.PA	Anatomical Pathology
10	Prof. dr. Muh. Ilyas, Sp.Rad	Radiology
11	dr. Uleng Bahrun, Sp.PK, Ph.D	Clinical Pathology
12	Dr. dr. Tenri Esa, Sp. PK	Clinical Pathology
13	dr. Aristianti, Sp.BS	Pharmacology
14	Dr. dr. Femy Syahriani, Sp.PD, KR	Science of Pen. In
15	dr. Endy Adnan, Sp.PD, Ph.D	Science of Pen. In
16	dr. Abdul Rahman Umar SpPD., KR	Science of Pen. In
17	Dr. dr. Triko's work, Sp.OT(K) Spine	Orthopedics
18	Dr. dr. Muh. Sakti, Sp. OT (K)	Orthopedics
19	dr. Muh. Ihsan kitta, M.Kes, Sp.OT (K)	Orthopedics
20	dr. Jainal Arifin, Sp.OT(K) Spine	Orthopedics
21	dr. Andi Dhedie Prasatia Sam, Sp.OT	Orthopedics
22	dr. Muh. Andry Usman, Sp.OT (K), Ph.D	Orthopedics
23	dr. Muhammad Phetrus Johan, Sp.OT(K), PhD	Orthopedics
24	dr. Dewi Kurniati, Sp.OT	Orthopedics
25	dr. Michael John T, Sp. OT	Orthopedics
26	Dr. dr. Armyn Nurdin, M.Sc	IKM
27	dr. Muh. Ikhsan Madjid, M. Kes	IKM
28	Dr. Rahadi Arie Hartoko, Sp. KFR	Medical Rehab
29	dr. Yose Waluyo, Sp. KFR	Medical Rehab
30	dr. Nuralam Sam, Sp. KFR	Medical Rehab
31	dr. Yasmin Syauki, Sp.GK, Ph,D	Nutrition
32	dr. Agussalim Bukhari, M.Med, Ph.D, Sp.GK	Nutrition
33	dr. Aminuddin, M.nut&Diet, Ph.D	Nutrition

## CASE MODULE

### **SKENARIO – 1 :**

A 62 year old woman came to health center with complaints of left knee pain since 7 days. Complaints accompanied by feeling stiffness especially in the morning. This complaint has been repeated for last 3 years . Complaints arise especially when on the move. On physical examination VAS 3/10, weight 65 kg, height 153 cm dan gait antalgic.

### **SKENARIO – 2 :**

A 40 year old man came to health center with complaints severe pain of his left knee since 9 hours ago. Pain appears suddenly so that the patients awakens from his sleep. Complaints like this were first experienced 3 years ago on big toe of the left foot. On physical examination, vital signs were normal, VAS 6/10, difficulty walking, Genu sinistra dolor (+), rubor (+), color (+) and tenderness (+)