QLL 19

Improving Percentage of Knee Osteoarthritis Patients with **Improvement of Pain Scores After Receiving Physiotherapy** Intervention at Kangar Health Clinic, Perlis

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1.SELECTION OF OPPORTUNITIES FOR IMPROVEMENT

In 2020, Perlis had the second-highest elderly population in Malaysia (13.8%). The estimated prevalence of knee osteoarthritis (OA) in Perlis and Kangar was 6880 and 1248, respectively (20% of the elderly).

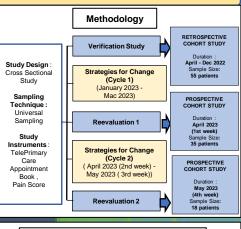
The verification study conducted from April to December 2022 showed only 45.5% of knee OA patients completed their planned physiotherapy sessions. Among these, only 38.2% of patients with grade 1 or 2 knee OA showed pain score improvement of at least 1 after receiving physiotherapy.

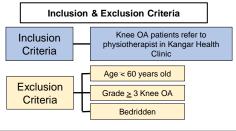
2. KEY MEASURES FOR IMPROVEMENT

The indicator measured was the percentage of knee OA patients showing an improvement of pain score by 1 or more after receiving planned physiotherapy over 3 months.

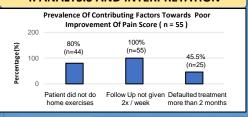
A standard of 50% was set based on an international observational study.

3. PROCESS OF GATHERING INFORMATION





4. ANALYSIS AND INTERPRETATION



5. STRATEGIES FOR CHANGE

First Cycle

Proper Monitoring and Patient Empowerment using:





Pamplet

Home Based Diary

Home Exercise Checklist



Second Cycle

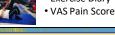
Community Support Group - 'Buddy System'





- Tera Band
- Hot Pack
- Cold Pack
- Bicycle Paddle
- Exercise Diary





6. EFFECT OF CHANGE

ACHIEVABLE BENEFIT NOT ACHIEVED (ABNA)

Percentage of knee OA patient with improvement of pain score >1 after receiving physiotherapy intervention 120 100 100 11.8% 1.4% Cycle 2

7. THE NEXT STEP

The Buddy System's training module will strengthened and these initiatives will expanded to other health clinics, supported by further sustainability plans.

8. ACKNOWLEDGMENT

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- 1) Advisory Panel, Kangar Health Clinic
- 2) Physiotherapy Unit, Kangar Health Clinic
- 3) All Participants
- 4) Kangar District Health Office

9.REFERENCES

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