



Objectives

- At the end of February 2022, the elderly people over 65 years old in Taiwan accounted for 17.01% of the total population. It is estimated that it will enter a "super-aged society" in 2025. With the increase of age, it is often accompanied with degenerative arthritis, which causes physical discomfort. After the initial painkillers, hyaluronic acid or other conservative treatment modalities are ineffective, it is recommended to enter the surgical treatment. According to the data from the Central Health Insurance Administration, among the top 20 medical expenses of national health insurance, including 38,000 joint replacements per year.
- A total of 500 joint replacement surgeries were performed in our hospital in 2020, accounting for 10% of the orthopedic surgery. In order to provide better medical quality and prognosis for joint replacement patients, the Orthopedics Department of our hospital has obtained the double qualification of Joint Commission International (JCI) and the Joint Commission of Taiwan (JCT). Combined the double certification in clinical care for joint replacement surgery, providing patient-centered cross-team care, and establishing a comprehensive, whole-person, inter-professional high-quality medical care team.



Methods

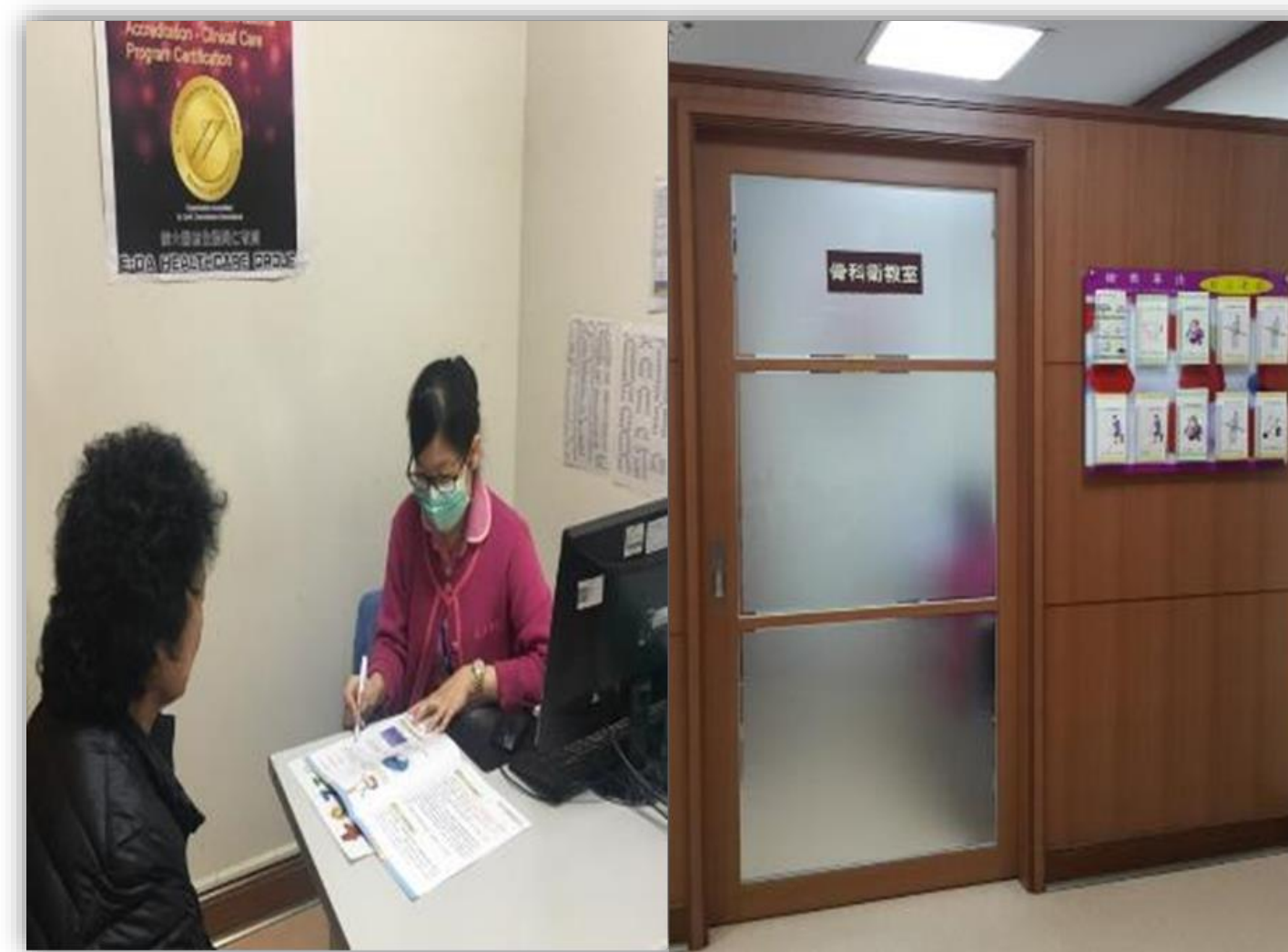
Knowledge Translation

With reference AAOS and Taiwan Medical Guidelines, we formulate our hospital's joint replacement clinical care guidelines.



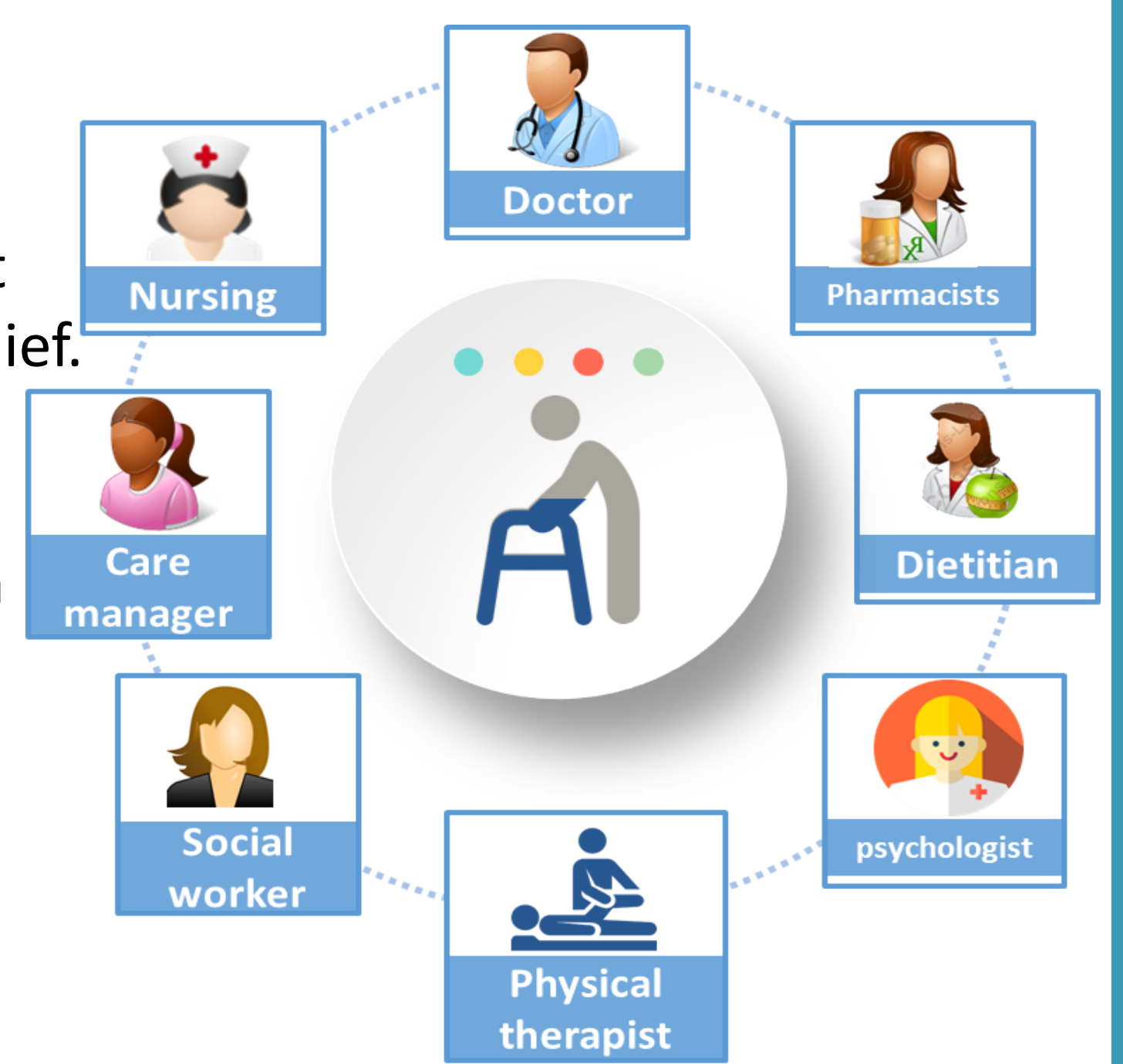
Case Management

1. preoperative health education assessment.
2. Perform WOMAC, TDQ and Mini-cog assessments.

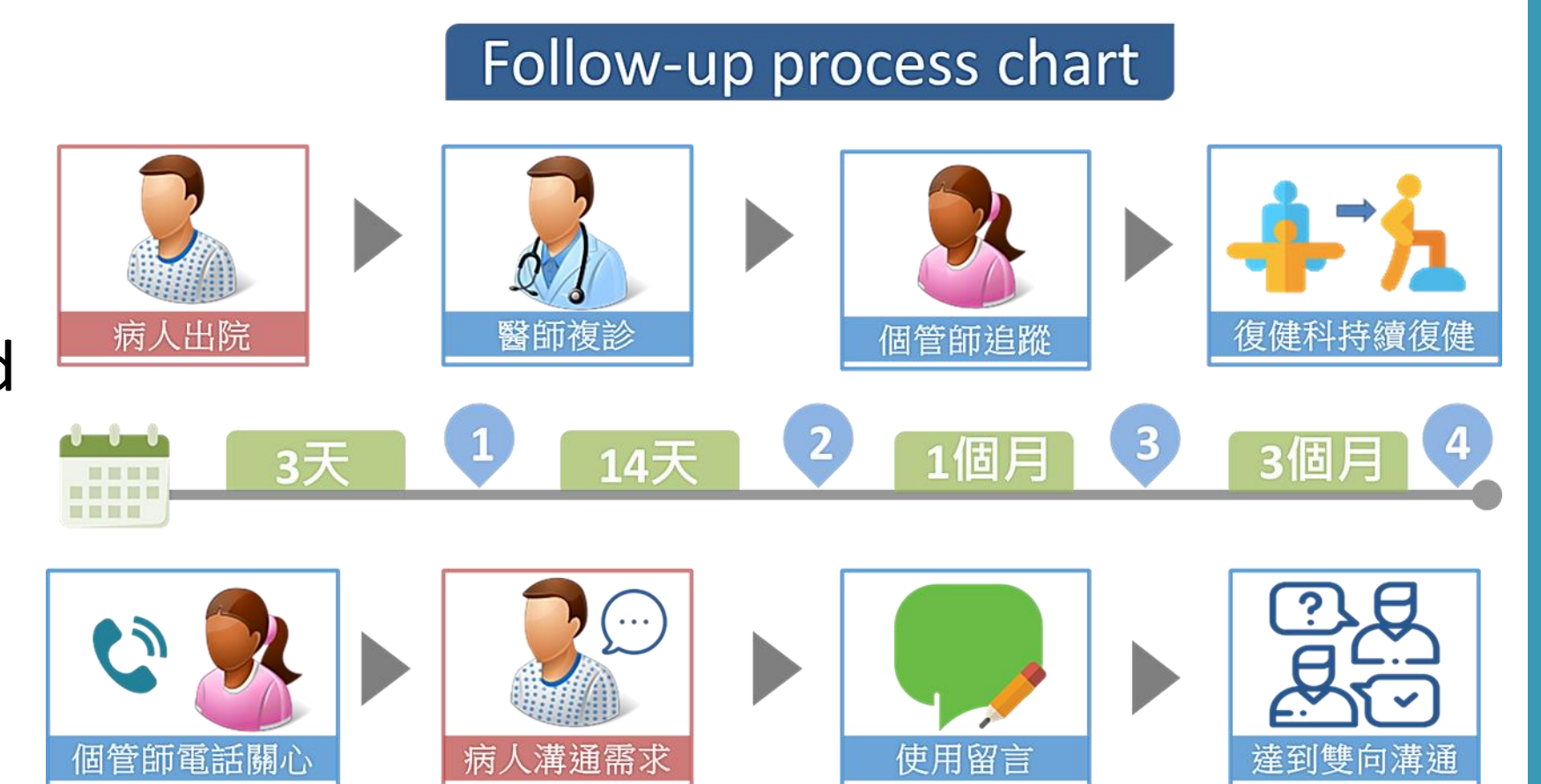


Care Features

1. Emphasis on anesthesia assessment and promoting multi-modal pain relief.
2. Rehabilitation intervention started before surgery.
3. Implementing team communication with information platform including
4. Individualized care .
5. Combined two ways approach to prevent postoperative thrombosis.

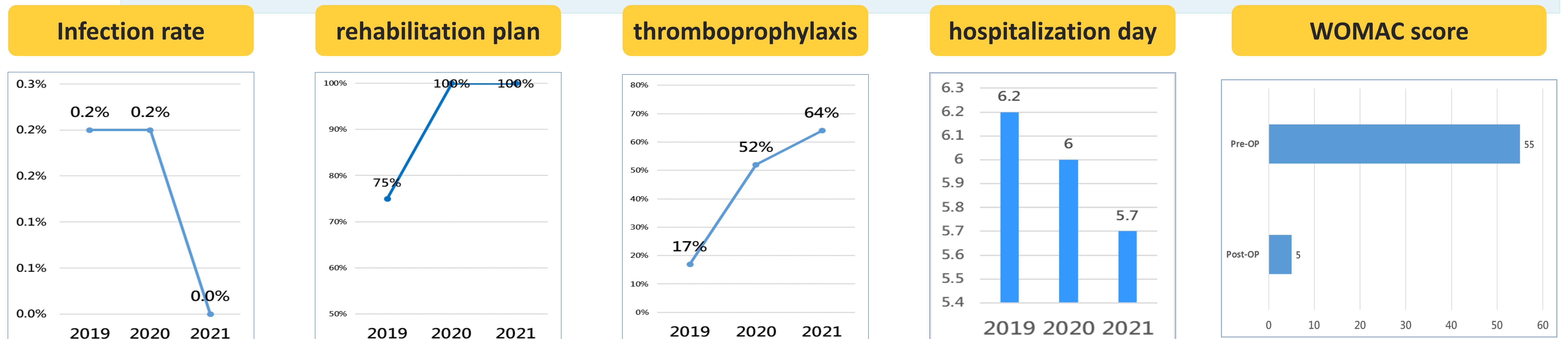
 Discharge follow-up care

1. Telephone Care Tracking.
2. Assess the wound condition, pain degree and joint range of motion when returning to the clinic.



Results

- A total of 392 cases were accepted in 2021, Infection rate within 90 days of joint replacement was 0.2% in 2019, 0.2% in 2020 and 0% in 2021; patients undergoing joint replacement surgery had a rehabilitation plan during hospitalization was 75% in 2019, 100% in 2020 and 100% in 2021;Percentage of thromboprophylaxis usage during hospitalization after joint replacement surgery was 17% in 2019, 52% in 2020, and 64% in 2021;Percentage of mechanical thromboprophylaxis during hospitalization after joint replacement surgery was 0% in 2019, 66% in 2020, and 74% in 2021. From 2019 to 2021, the average length of hospitalization had dropped from 6.2 days to 5.7 days.
- In 2021, the average preoperative WOMAC score was 55 points, and the average score decreased 6 points at the end of three months. This will greatly improve the overall quality of medical care and the quality of life of patients.



Conclusion

- Joints bear most of the body weight and are also responsible for the important functions of human activities. When joints degenerate to the status where joint replacement surgery must be performed, not only have to take care the pre-operative anxiety, but also concern about a temporary decline in life functions after returning home.
- Our hospital uses the clinical care plan combined with professional team cooperation to provide the quality of care of the whole person, designed individualized health education guidance, provide a professional consultation platform, and also combine the Taiwan's long-term care 2.0 multi-recovery referral system, to reduce the patient's ,pre-op anxiety and post-operative recovery anxiety which can improve the quality of life after surgery, increase the self-care ability of the elderly, and achieve the purpose of alleviating disability.