

KKH@Home- Home Phototherapy Program

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Introduction

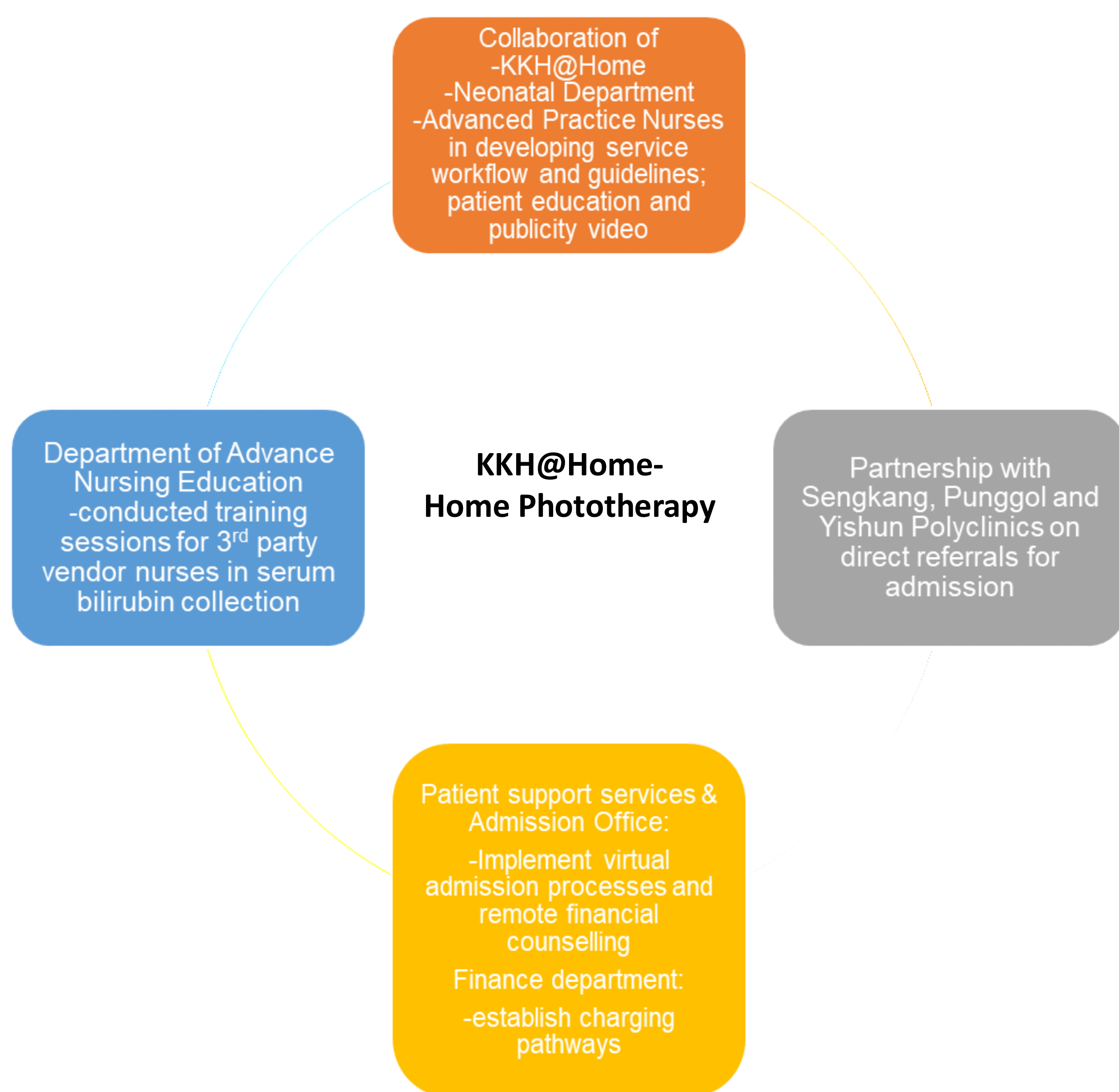
Neonatal jaundice (NNJ) is a prevalent condition affecting newborns, particularly within the first fortnight of life. While phototherapy, the standard treatment for NNJ, is typically administered safely in hospitals, it can also be effectively conducted in the comfort of one's home.

KKH@Home offers parents of newborns with jaundice an alternative method of receiving phototherapy. Eligible babies can receive treatment in the comfort of their own home.

Aim

To enhance convenience and flexibility in treatment scheduling while reducing hospital bed occupancy and manpower; enhancing parental empowerment and bonding opportunities.

Method



Development of KKH@Home- Home Phototherapy Program

This comprehensive approach streamlined service implementation, enhanced accessibility and efficiency for patients and healthcare providers, while ensuring quality and safety in home-based care delivery.

Results

➤ Pre-implementation of practice:

All NNJ were admitted to the inpatient wards with an average of 125 cases per month referred from polyclinic for direct admission to KKH. The average length of stay was 2.06 days.

Results

➤ Post-implementation of practice:

Pilot Phase (14th June 2023 to 30th March 2024)

- Number of patients recruited: 22 patients
- Total length of stay/ total inpatient bed days saved: 40 days
- Average length of stay in KKH@Home: 1.8 days
- Manpower saved*: 16.25 days

Mainstream Phase (1st April 2024 till 31st Dec 2024)

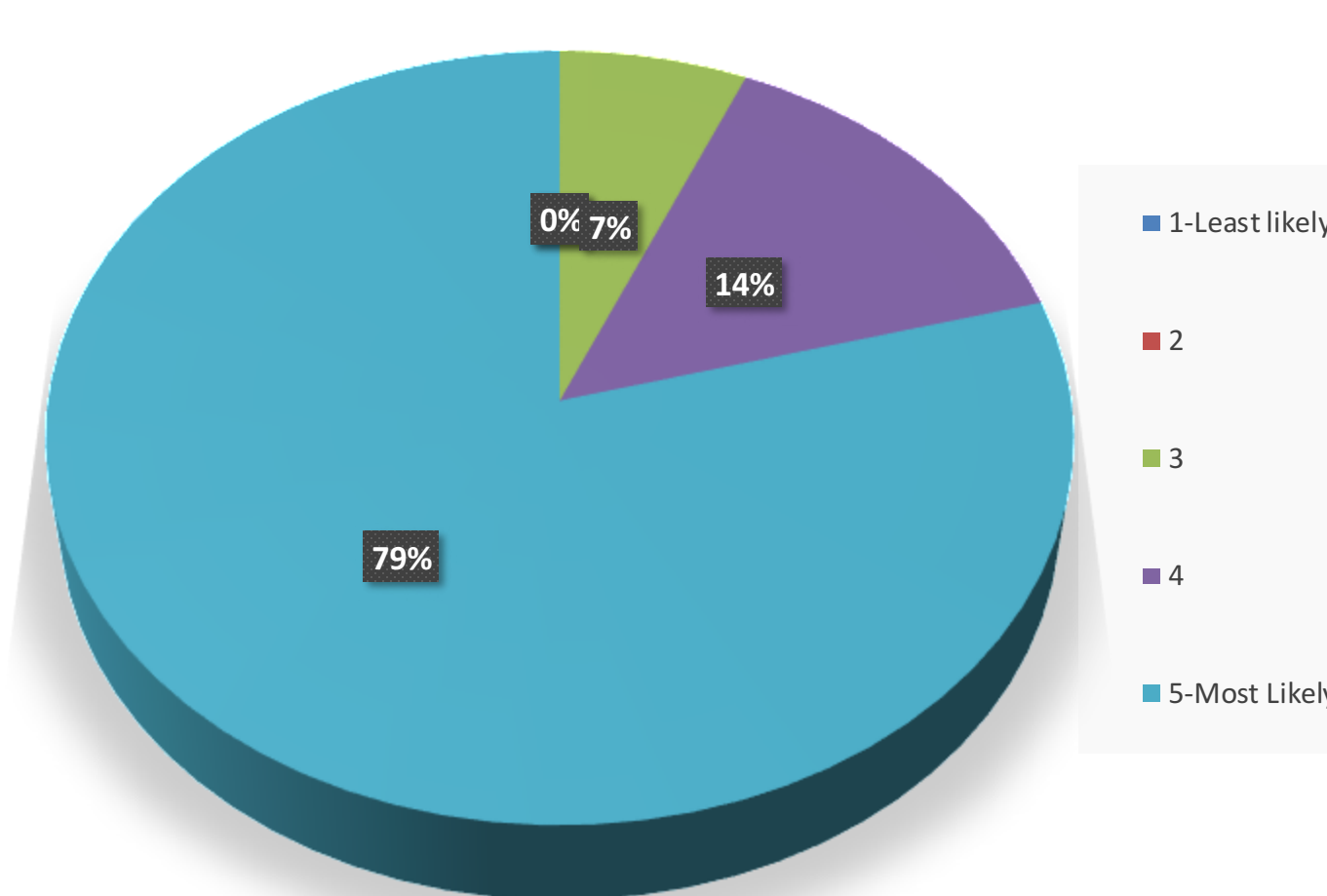
- Number of patients recruited: 134 patients
- Total length of stay/ total inpatient bed days saved: 200 days
- Average length of stay in KKH@Home: 1.5 days
- Manpower saved*: 81.25 days

Current Challenges	Benefit of MIC	Pilot Recruitment	Post Mainstream
Bed Crunch	Number of bed- day saved	40	200
High workload	Number of man-hour saved	130	650
	Number of man-day saved	16.25	81.25

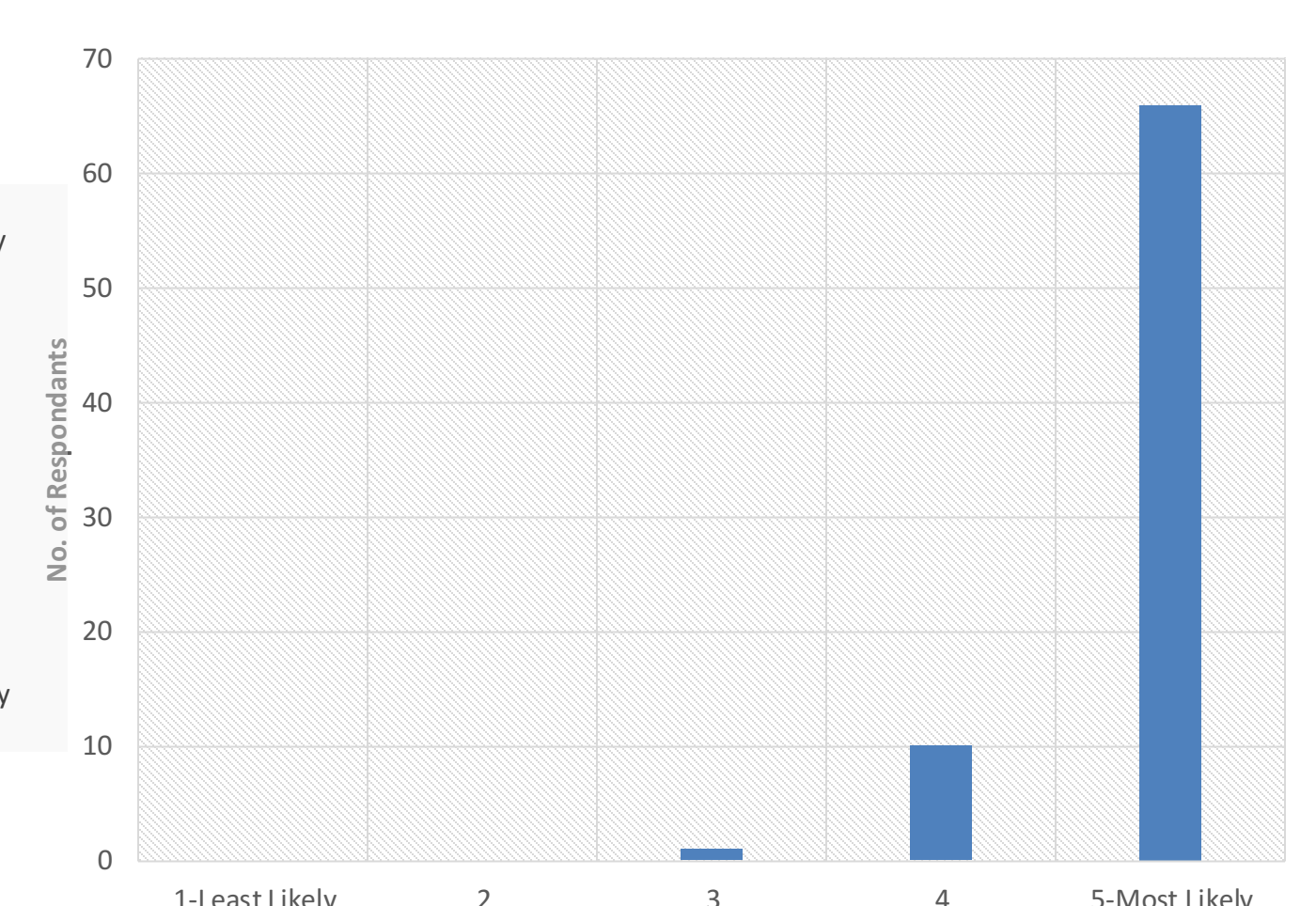
*Manpower saved estimate is based on the following assumptions:

1. Routine tasks include vital signs monitoring, feeding, diaper changing, and intake/output monitoring.
2. These tasks are performed every 3 hours (8 times per day).
3. Each session takes an average of 30 minutes.
4. Nurses/care assistants work 8-hour shifts.
5. Nursing time used per patient per day to transcribe the reported vital signs, provide patient education and advice to parents as 45mins

Mode of Care-Home Phototherapy Preferred



Recommendation of service to others



Conclusion

KKH@Home- Home Phototherapy Program for neonates were well-received by parents. This model of care was favored as it is time-saving and enhances parental comfort when caring for their neonates at home. Meanwhile, we gained valuable insights into the challenges parents face when caring for their newborns at home as our experience with the program grew. Hence, resolutions were formed to tackle these potential challenges for the expansion of the program.