



Serving the **RIGHT** nutritional feed, at the **RIGHT** time, to the **RIGHT** patient: Granting prescription rights to **Dietitians** and enhancing **Electronic Nutritional Feed Orderset (ENFO)**

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Background

Previously, Dietitians would recommend nutritional feeds for patients as required after conducting a nutritional assessment. The feed regime was then transcribed, printed and attached to the patient's casenotes for nurses to refer to.

The casenotes were kept at the nursing counter or sub-station, but as nursing notes and flowsheets are electronic, nurses did not have a visual reminder which patients were on nutritional feeds. This led to increased risk of patients not being served the feed at the right time.

The doctors also had to order the feed regime into the ENFO, which led to increased risk of transcription errors.

New Process

Dietitian's prescription rights to the ENFO was obtained from Sengkang General Hospital (SKH) Medical Board in 2017.

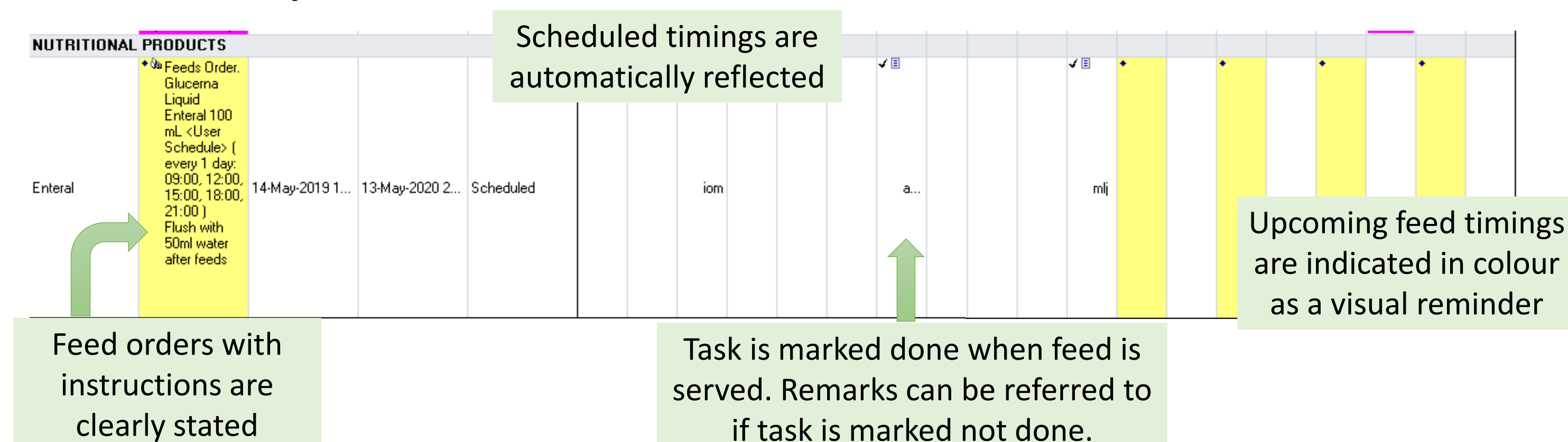
SKH Dietitians then worked with Integrated Health Information Systems (iHIS) to update the ENFO with the following enhancements:

Updating nutritional feed list to reflect the accurate name and flavours available in SKH in an easy to find alphabetical order.

| Feeds | Start Date | Order Priority | Route | Dose | UOM | Frequency | Order Details/Instruction |
|--|------------|----------------|-------|------|-----|-----------|---------------------------|
| <input type="checkbox"/> Diben Liquid (Capuccino) | T | Routine | PO | | mL | | |
| <input type="checkbox"/> Diben Liquid (Vanilla) | T | Routine | PO | | mL | | |
| <input type="checkbox"/> Ensure Liquid (Vanilla) | T | Routine | PO | | mL | | |
| <input type="checkbox"/> Ensure Plus Liquid (Chocolate) | T | Routine | PO | | mL | | |
| <input type="checkbox"/> Ensure Plus Liquid (Strawberry) | T | Routine | PO | | mL | | |
| <input type="checkbox"/> Ensure Plus Liquid (Vanilla) | T | Routine | PO | | mL | | |

Automatic reflection of the type, timing and amount of nutritional feeds upon ordering via ENFO in the electronic Nursing worklist.

- ✓ Feed orders appear on the same screen with medication orders and allows the nurses to view all orders in one setting instead of referring to a paper feeding regime.
- ✓ Nurses mark task done once feeds are administered and remarks can be entered for accurate recording. This helps the dietitians to review patients more effectively and efficiently.

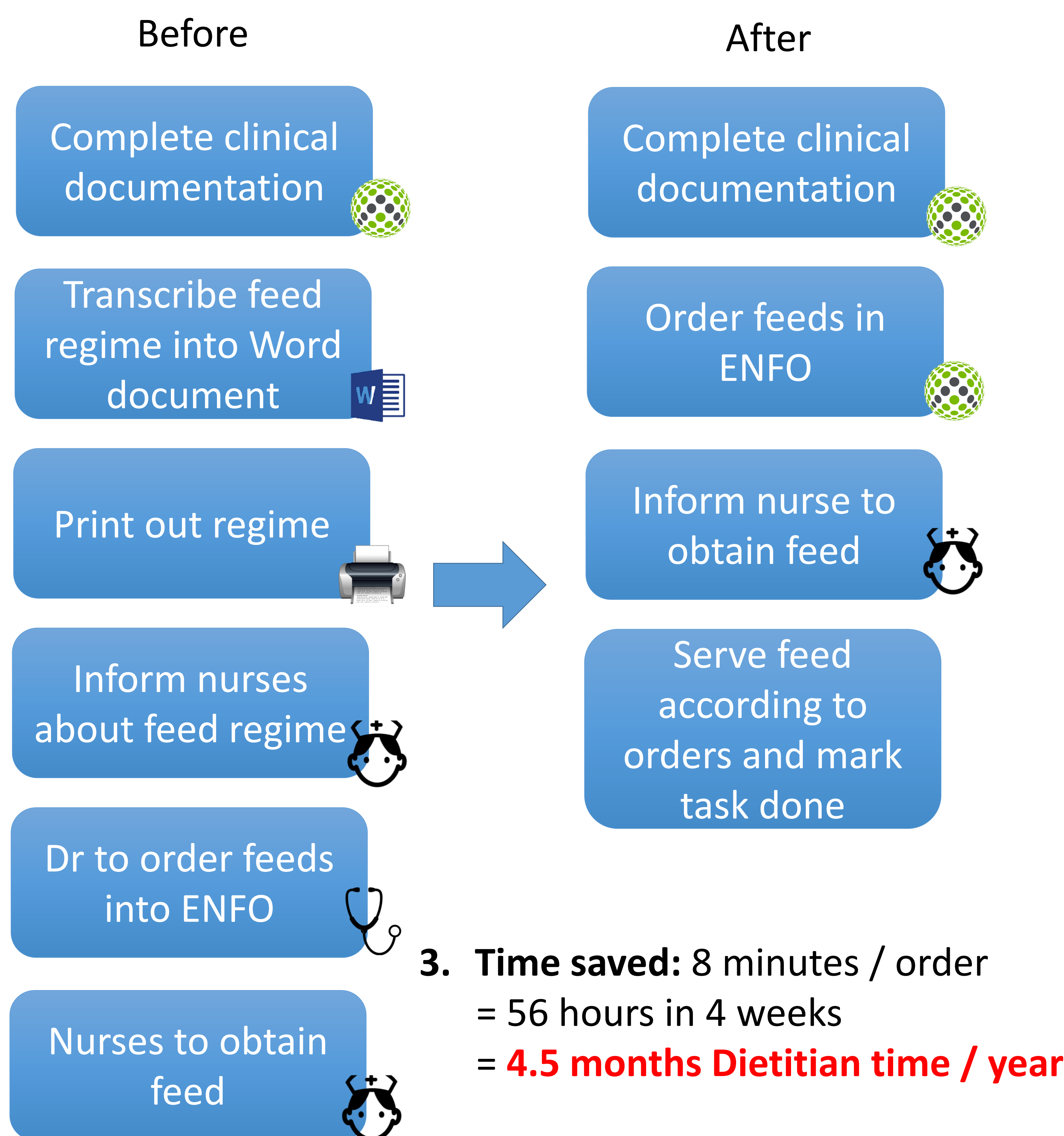


Acknowledgement to Kristen Nang and Hu Jinhao from iHIS for their assistance in updating the ENFO.

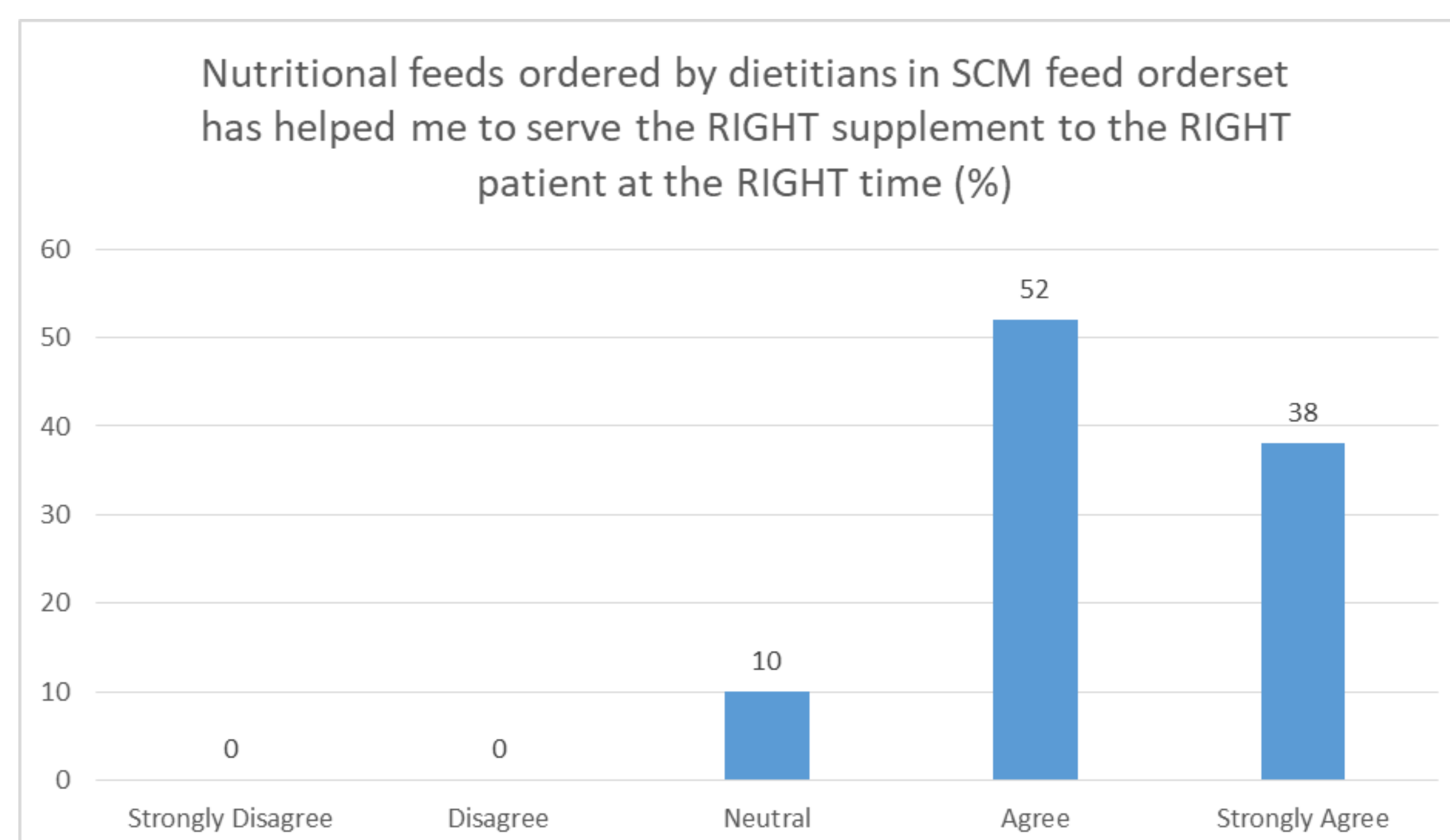
Evaluation

A 4 weeks evaluation on 422 nutritional feed orders by Dietitians using ENFO was carried out from 29 October to 25 November 2018.

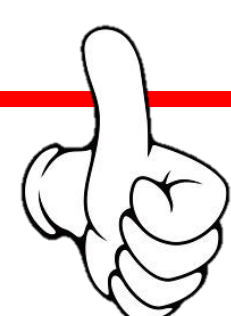
1. **Transcription error: 0**
2. **Number of steps to order nutritional feed: 6 reduced to 4**



4. **Reduction in paper printing: 592 pieces/4 weeks = 7696 pieces/year and \$115 savings/year**



5. **A survey conducted on 48 nurses also showed high satisfaction after implementation of ENFO due to easy access, time savings and improved patient care.**



Conclusion

By granting **Dietitians** prescription rights and enhancing the functionality of **ENFO**, patient safety is ensured and the time saved can be used to improve patient care. This functionality can be extended to other institutions.