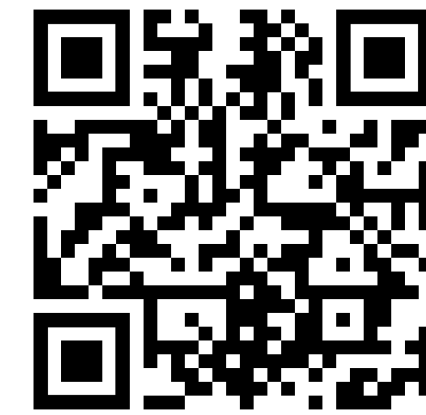


Paediatric Project ECHO[®] for Complex Care: Acceptance and impact of a virtual medical education program for Canadian healthcare providers

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Background

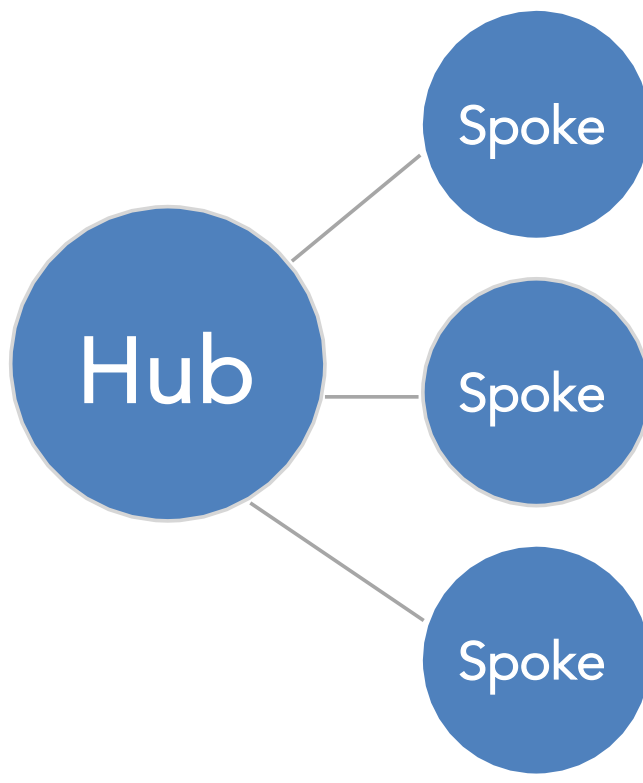
What is Project ECHO[®]?

“*Extensions for Community Healthcare Outcomes*”

Innovative model for medical education that expands **access** and **capacity** to provide evidence-informed care to remote and underserved communities.

How does the ECHO[®] model work?

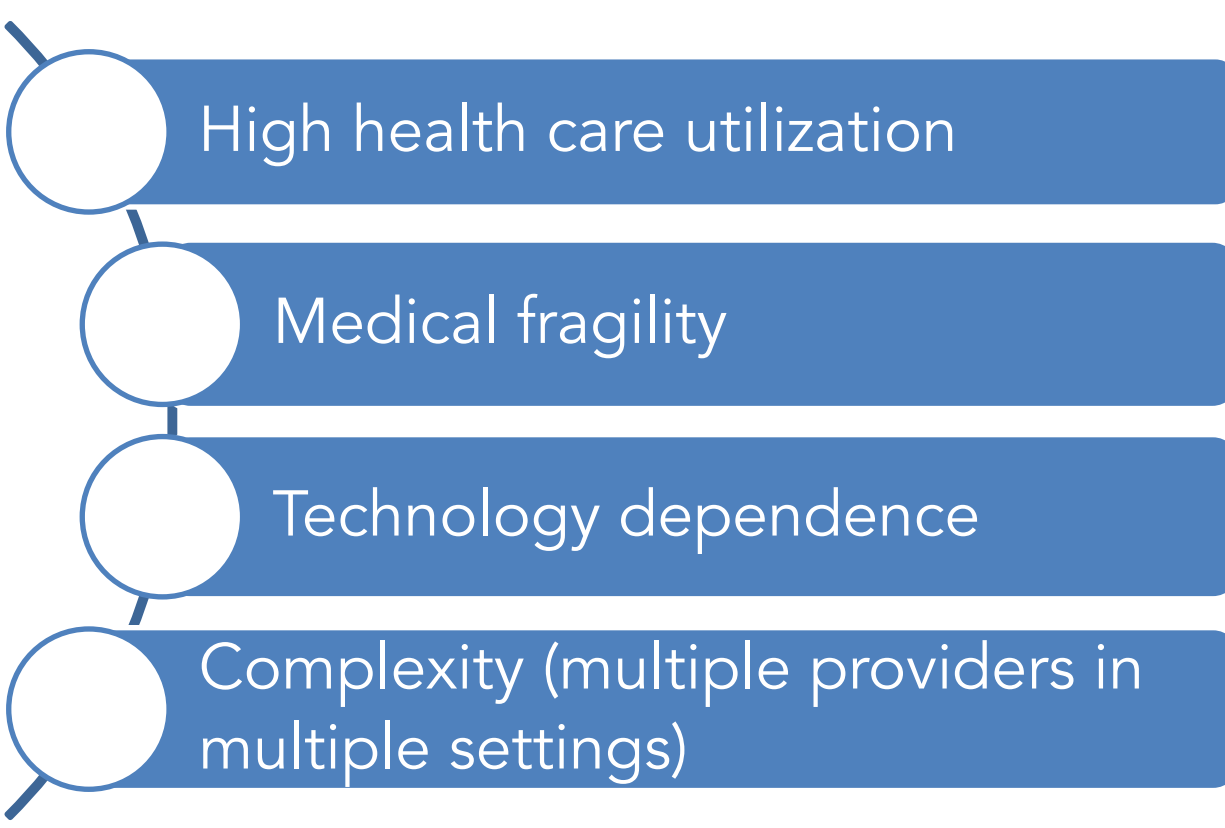
Virtually connects an interprofessional team of specialists at an academic “Hub” to community healthcare providers called “Spokes”.



Paediatric Project ECHO[®] for Complex Care



Focus on management of **children with medical complexity (CMC)**



Program Structure

TeleECHO Clinics (monthly)
Didactic + Patient case + Best practice recommendations

Objective

- To evaluate **performance-related outcomes** of Paediatric Project ECHO[®] for Complex Care:
- **Acceptability** and **satisfaction**;
 - Changes in provider **knowledge** and **self-efficacy**; and
 - **Practice impact** related to managing complex cases.

Methods

- Study approved by local Research Ethics Board.
- Prospective, mixed-method study with repeated measures at baseline and 6-months (6M).
- Data collection managed via REDCap.
- Participants provided with \$5 gift card for 6M survey.

Results

Participants

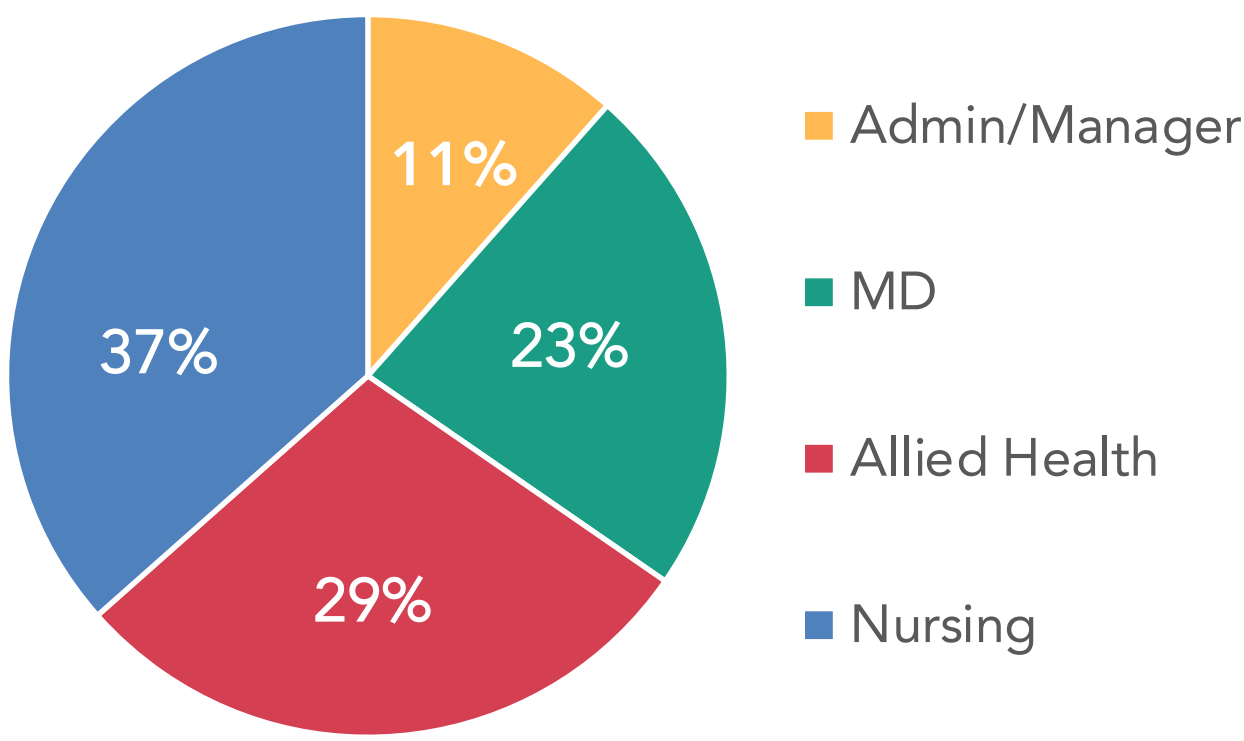


Figure 1. Professional breakdown of participants, n = 52

| Years of Practice | n (%) |
|--------------------|----------|
| Less than 1 year | 6 (12%) |
| 1-4 years | 12 (23%) |
| 5-10 years | 5 (9%) |
| More than 10 years | 28 (54%) |
| Not applicable | 1 (2%) |

Table 1. Years of practice, n = 52

Acceptability and Satisfaction at 6M

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|--------------------------------------------------------------------------------------------------|----------|-------------------|---------|----------------|-------|----------------|
| | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| # | Item | | | | | | |
| | Mean | | | | | | |
| | SD | | | | | | |
| | Min, Max | | | | | | |
| 1 | Involvement in Paediatric Project ECHO [®] is a worthwhile experience for me. | | | | | | |
| | 6.2 | | | | | | |
| | 0.7 | | | | | | |
| | 5, 7 | | | | | | |
| 2 | I would recommend the program to my colleagues. | | | | | | |
| | 6.3 | | | | | | |
| | 0.6 | | | | | | |
| | 5, 7 | | | | | | |
| 3 | The program has connected me with peers and diminished my professional isolation . | | | | | | |
| | 5.0 | | | | | | |
| | 1.1 | | | | | | |
| | 3, 7 | | | | | | |
| 4 | Paediatric Project ECHO [®] has created a supportive community of practice . | | | | | | |
| | 5.7 | | | | | | |
| | 0.9 | | | | | | |
| | 4, 7 | | | | | | |
| 5 | The program is an effective way for me to learn. | | | | | | |
| | 5.8 | | | | | | |
| | 0.6 | | | | | | |
| | 5, 7 | | | | | | |
| 6 | I have learned new information through the program. | | | | | | |
| | 6.1 | | | | | | |
| | 0.6 | | | | | | |
| | 5, 7 | | | | | | |
| 7 | I have learned best practice care through the program. | | | | | | |
| | 5.7 | | | | | | |
| | 0.7 | | | | | | |
| | 4, 7 | | | | | | |
| 8 | I respect the knowledge of the program facilitators . | | | | | | |
| | 6.4 | | | | | | |
| | 0.6 | | | | | | |
| | 5, 7 | | | | | | |

Table 2. Acceptability and satisfaction with TeleECHO Clinics, n=26

Results (Continued)

Knowledge Changes at 6M

For my scope of practice, I currently have an appropriate level of knowledge about...

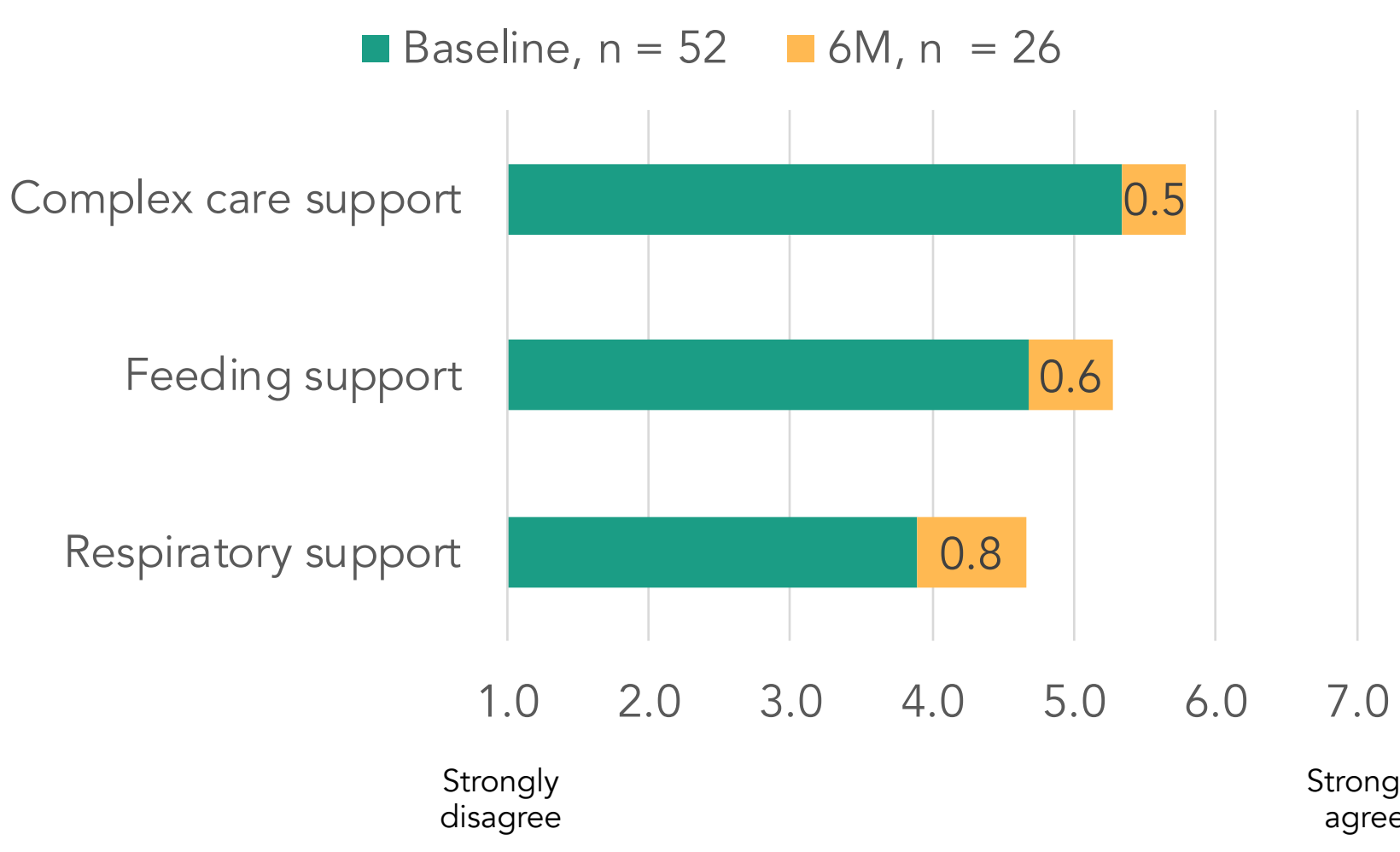


Figure 2. Knowledge change from baseline to 6 months, n=26

Self-efficacy Changes at 6M

For my scope of practice, I feel confident in my ability to provide...

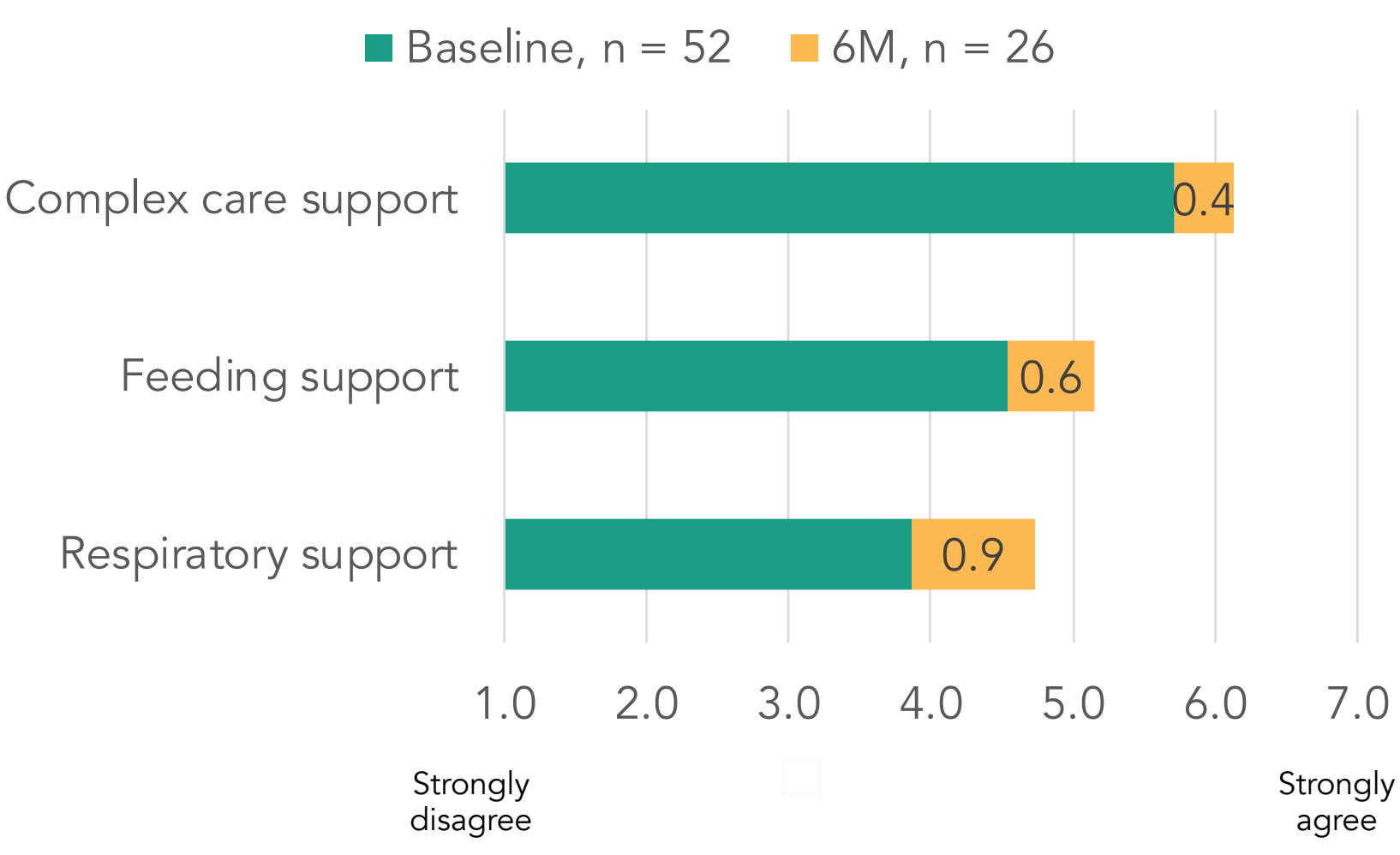


Figure 3. Self-efficacy change from baseline to 6 months, n=26

“Locally, it is difficult to gather together to **discuss complex issues** with other service agencies. This provided me with the **opportunity to do so**. The extra bonus was that sessions were recorded for me to **view at a later date/time**.”

Practice Level Impact at 6M

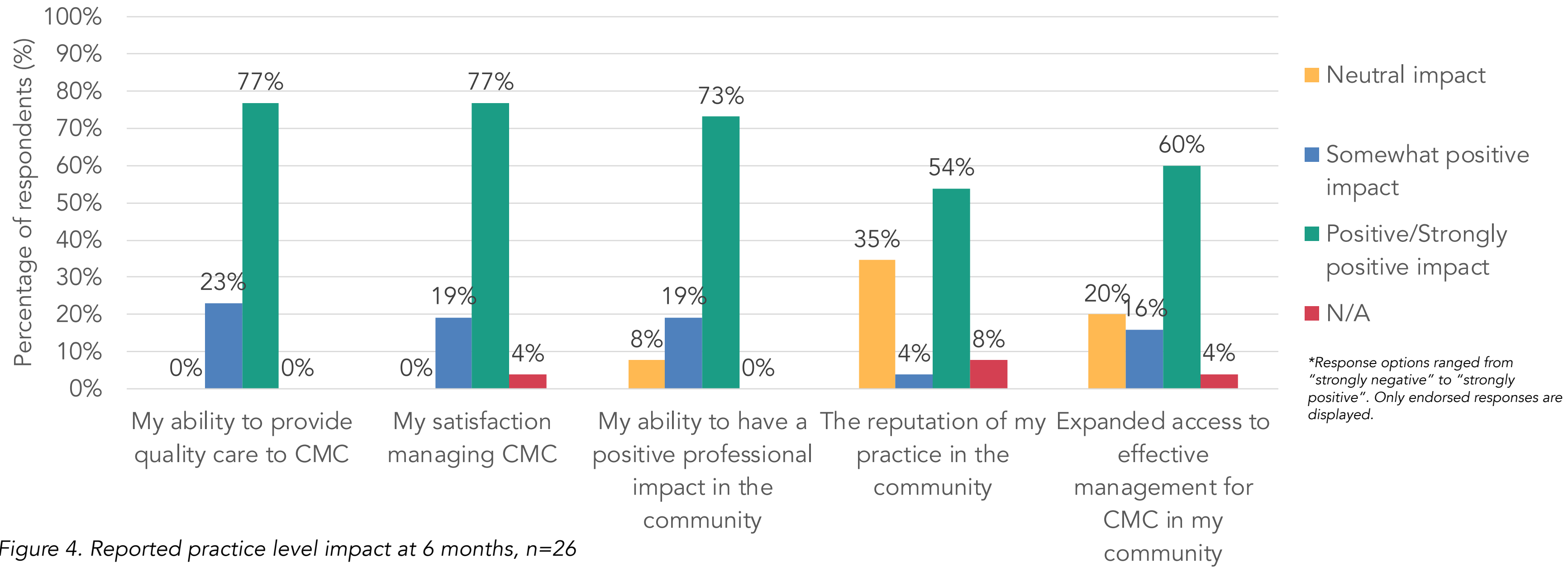


Figure 4. Reported practice level impact at 6 months, n=26

Conclusion

- Paediatric Project ECHO[®] for Complex Care participants report high acceptability and satisfaction.
- Increases in knowledge and self-efficacy observed at 6M.
- Impact at 12-month follow-up is currently being assessed.

Acknowledgements

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 - Thank you to Paediatric Project ECHO[®] participants!
- Ontario
MINISTRY OF HEALTH AND LONG-TERM CARE