

### Project Title

An interdisciplinary approach to Improving quality of life of the residents in the community

### **Project Lead and Members**

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Project members: Lee Hee Hoon, Carol Leung, Jesslyn Chong, Zeng Hui Hui, Ho Bee Hong, Chew Tee Kit, Dr Esther Tan, Dr Kwek Thiam Soo, Katherine Tan, Christine Wu, Francis Phng

### **Organisation(s) Involved**

Ng Teng Fong General Hospital

### Healthcare Family Group Involved in this Project

Allied Health

### **Applicable Specialty or Discipline**

**Community Operations** 

### Aims

Community Operations aims to improve the average EQ-5D-3L index score of the residents by 10% (index score = 0.84) within 1 - 1.5 year of engagement.

### Background

See poster appended/ below

### Methods

See poster appended/ below

### Results

See poster appended/ below



### Lessons Learnt

QoL extends beyond the physical health aspects; psychological and social health affects one's QoL too. During this COVID-19 pandemic, it is important to pay attention to residents' overall wellbeing, especially for residents who may be living alone or isolated.

### Conclusion

See poster appended/ below

### **Project Category**

Care & Process Redesign, Value Based Care, Patient Reported Outcome Measures

Care Continuum, Population Health, Mental Health, Physical Health

### Keywords

Care Connector Service, Quality of Life

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## [Restricted, Non-sensitive]

## **AN INTERDISCIPLINARY APPROACH TO IMPROVING QUALITY OF LIFE OF THE RESIDENTS IN THE COMMUNITY**

MEMBERS: LEE HEE HOON, CAROL LEUNG, JESSLYN CHONG, ZENG HUI HUI, HO BEE HONG, CHEW TEE KIT, DR ESTHER TAN, DR KWEK THIAM SOO, CHEE JIA YI, KATHERINE TAN, **CHRISTINE WU, FRANCIS PHNG** 

# **Define Problem, Set Aim**

The Care Connector (CC) service was initiated by NTFGH Community Operations in a community in Western Singapore. Through this initiative, the residents will be provided appropriate health-related support (e.g. linkup to relevant care services) during the engagement with the CCs at various Senior Activity Centers.

The quality of life (QoL) of 87 residents, aged  $\geq$ 40, was assessed using the

SAFETY PRODUCTIVITY QUALITY COST PATIENT

EXPERIENCE

# **Select Changes**

Root Causes	Potential Solutions	
Residents were unfamiliar of the functions of video call	Residents to be taught basic video call functions	
Video call has not been the mode of communication for residents	CCs to initiate video calls with the residents during COVID-19 safe distancing measures	
CCs were not trained to manage complex cases	CCs to work in an Interdisciplinary Group to manage complex needs	
No validated tool was adopted, and no process was established to identify needs of the residents	CCs to be trained to use validated screening tool to assess resident's overall wellbeing	

EuroQol-5Dimension-3Level (EQ-5D-3L)<sup>1,</sup> where the level of problems faced was reported for each of the 5 dimensions: mobility, self-care, usual activities, pain and anxiety. The QoL of the residents was assessed before the start of CC service (baseline).

In June 2019, the average EQ-5D-3L index score at baseline was 0.76 (n = 87). This is lower than the Singapore population norm  $(0.95)^2$ .

## Aim:

Community Operations aims to improve the average EQ-5D-3L index score of the residents by 10% (index score = 0.84) within 1 - 1.5 year of engagement.

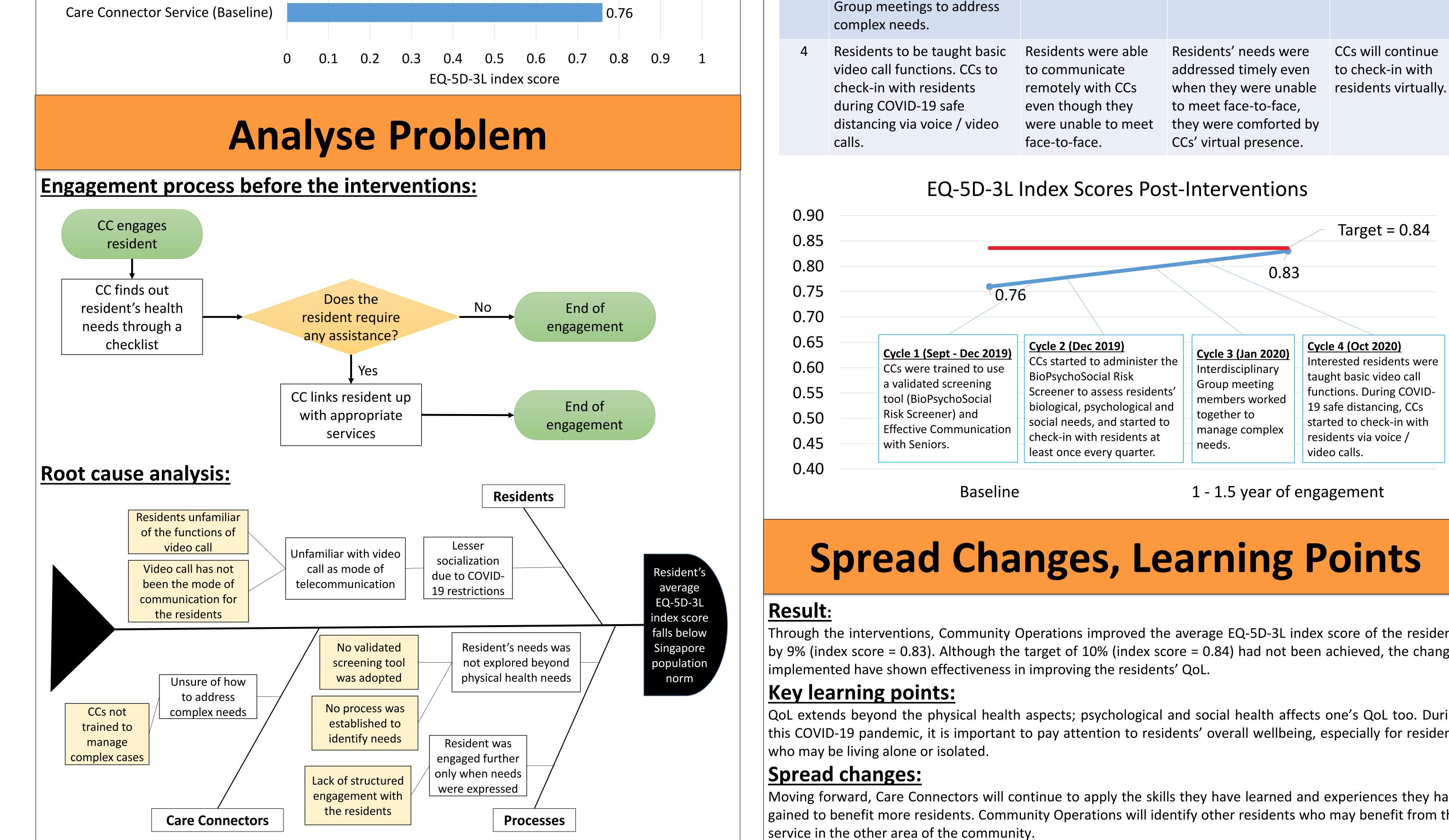
# **Establish Measures**

**Outcome measure:** the QoL of the residents, assessed using the EQ-5D-3L index scores.

Singapore EQ-5D-3L index score vs Care Connector Service Singapore Population Norm 0.95 Lack of structured engagement with the residents CCs to build rapport and trust with residents by checkingin with them at least once every quarter

# **Test & Implement Changes**

CYCLE	PLAN	DO	STUDY	ACT
1	CCs to be trained to use a validated screening tool (BioPsychoSocial Risk Screener <sup>3</sup> ) and Effective Communication with Seniors.	CCs were trained to identify residents' needs beyond physical health needs, such as psychological wellbeing.	The trainings were good opportunities for CCs to improve their skills, they are more confident in carrying out their role in the community.	CCs will apply what they have learned when they are on the ground.
2	CCs to administer the BioPsychoSocial Risk Screener to assess residents' biological, psychological and social needs, and checking-in with residents at least once every quarter.	CCs have identified residents' needs beyond physical health, such as psychological wellbeing. Residents started confiding in the CCs.	CCs addressed residents' concerns directly or by connecting them to appropriate health and social services. However, CCs were not able to address complex needs.	CCs will work in an interdisciplinary group to address residents' complex needs.
3	CCs to work with Allied Health Professionals (Medical Social Workers), Clinicians, General Practitioners (GPs) and community partners (Senior Activity Centers) through Interdisciplinary	Interdisciplinary Group meeting members worked together to manage complex needs.	Residents' complex needs were addressed directly or by connecting them to appropriate health and social services.	The Interdisciplinary Group meeting will be carried out at least once every quarter.





Through the interventions, Community Operations improved the average EQ-5D-3L index score of the residents by 9% (index score = 0.83). Although the target of 10% (index score = 0.84) had not been achieved, the changes

QoL extends beyond the physical health aspects; psychological and social health affects one's QoL too. During this COVID-19 pandemic, it is important to pay attention to residents' overall wellbeing, especially for residents

Moving forward, Care Connectors will continue to apply the skills they have learned and experiences they have gained to benefit more residents. Community Operations will identify other residents who may benefit from this

## **References:**

- The EuroQol Group *EQ-5D*. Available at: https://euroqol.org/
- Abdin, E., Subramaniam, M., Vaingankar, J., Luo, N. and Chong, S., 2013. Measuring health-related quality of life among adults in Singapore: population norms for the EQ-5D. *Quality of Life Research*, 22(10), pp.2983-2991.
- 3. Hildon, Z., Tan, C., Shiraz, F., Ng, W., Deng, X., Koh, G., Tan, K., Philp, I., Wiggins, D., Aw, S., Wu, T. and Vrijhoef, H., 2018. The theoretical and empirical basis of a BioPsychoSocial (BPS) risk screener for detection of older people's health related needs, planning of community programs, and targeted care interventions. BMC Geriatrics, 18(1).