# BMJ Open 'Food for Life and Palliation (FLiP)': a qualitative study for understanding and empowering dignity and identity for terminally ill patients in Asia

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#### **ABSTRACT**

**Objectives** With 'eating' posited as Singapore's domestic pastime, food experiences for Singaporeans constitute national, social, ethnic and personal identities. However, though they form significant parts of Singaporean existence across the lifespan, studies and observations about food experiences for individuals at the end of life remain noticeably absent. Extant literature continues to focus on nutritional practice during illness and the active dying process, forgoing the rich lived experiences of food in the lives of patients and their families. The current work sought to qualitatively extricate through a constructivist phenomenological approach, the 'food voices' of Singaporean palliative care patients and their families. It also simultaneously aimed to assess the role of food in bolstering their subjective feelings of dignity and identity, while also considering resultant clinical implications. **Setting** Homes of patients within the Singaporean palliative care setting.

**Participants** A subset of qualitative data (n=25) in the form of dyadic interviews with terminally ill patients and a family caregiver was generated from a larger family dignity intervention study that explored the experience of living and dying among Asian palliative care patients and their families.

Results Framework analysis with both inductive and deductive approaches informed by the a priori domain of food resulted in the generation of four major themes. each with three subthemes. These were organised into the Food for Life and Palliation model. They include: (1) feeding identity and familial bonds, (2) liminal subsistence in illness transition, (3) food becoming lineage, and (4) compassionate nourishment.

**Conclusions** Clinical implications are considered: including food-focused interventions that enhance dignity, promote meaning-making and facilitate legacy construction. Developmental suggestions are also directed at industry partners producing end-of-life nutrition products.

#### INTRODUCTION

Nutritional assimilation is unarguably an intrinsic aspect of the human condition. Unlike the automatic, continuous and unconscious process of breathing, eating develops

# Strengths and limitations of this study

- Novel, first-of-its-kind study that considers the multifaceted food experiences of individuals at the end
- Practices a rigorous methodology and upholds the highest standards of qualitative research.
- Showcases a robust qualitative model that can easily be applied to clinical interventions for holistic care of patients at the end of life.
- Lack of directed query considering the domain of food towards participants.
- Not all racial demographics in Singapore's cohesive multicultural society were represented due to sampling issues.

from compulsory communal dependence.<sup>1</sup> From initial nursing to meal preparation in childhood, we require the constant presence and action of others to initiate these food experiences at regular intervals. Such intimacy, that is, teat to mouth, spoonfeeding interactions and being present tableside, lays the groundwork for the development of strong feelings about food and drink.<sup>1</sup> Researchers have observed how food represents far more than mere sustenance to most.<sup>2</sup> Lupton<sup>3</sup> extensively considered the role of food in our emotional lives; describing how anger, anxiety, caring, disappointment, disgust, embarrassment, frustration, guilt, happiness, hate, love, nostalgia, resentment, revulsion, security and comfort associate with food-based experiences. She perhaps most eloquently observed that 'appetite is an emotionally flavoured hunger... (that) humans' relationship with food and eating are subject to the most powerful emotions experienced in any context'. Food also constitutes to the formation of family identity and domestic life, with familial food experiences socialising moral values, duties



and valued experiences.<sup>4</sup> Home-made foods and shared consumption practices construct 'the home' and even connect families to duties of care.<sup>5</sup> So fundamental is the relationship between food, culture, tradition and personal identity that the interdisciplinary field of 'foodways research' evolved to offer a means for academic investigation of this phenomenal process.

Within the larger sociological perspective of symbolic interactionism, food is seen to be a crucial social product that allows for the provision of meaning through interpretation, with people practising selection, sourcing and agency when eating.<sup>7</sup> It is seen as a nexus of social interaction, serving as a means of identification and value formation within individuals and groups.<sup>8</sup> Food is also observed to colour one's everyday cultural and psychological lives through the formation of eating preferences, meal habits and rituals. Often, the medium connects participants of these food rituals to cultural norms and values. 10 Hauck-Lawson coined the term 'food voice' to encapsulate this powerful channel for the expression of numerous subjective, cultural and personal meanings; how food experiences are thought about and expressed. The author discusses how when a person chooses (or does not choose) what to procure, prepare and eat, they make commanding statements about their identity and culture. Long<sup>11</sup> further elaborated that akin to fashion, hairstyles or music, these food forms through food voice are an accepted identity-centred medium of communication. The choice to remain vegetarian in the presence of those eating meat, for example, demonstrates a particular food voice entrenched in a value-based system. 11 Researchers have navigated various psychosociocultural phenomena by attending to food voices, including ethnicity and heritage, 11 gender dynamics, 12 faith and spirituality 13 and even issues of institutionalised power.<sup>14</sup> Food voices, as such, can provide a holistic representation of the human experience when considered in tandem with the spoken or written voice.

# Food identity in Singapore: a uniquely local experience

Singapore is a small South-East Asian city state that gained independence from British colonial rule in 1965. A busy port of call during its colonial trading years, early arrivals into Singapore brought from their respective mainland their own local cuisines. Tossed into the veritable melting pot of the fledgling country were the native vegetables and seafood favoured by Indian settlers, the strict, codified diets of Malay Muslims from the surrounding archipelago, the myriad cooking styles of the various Chinese clans as well as numerous Western influences. The iconic Peranakan dish of laksa, a spicy seafood noodle dish in rich coconut gravy, is seen to draw from Chinese, Malay, South Indian and Eurasian influences.

Eating in Singapore is, unsurprisingly, seen as a national passion, with a former Minister of Trade and Industry stating that we 'spend a lot of time eating and thinking about food. Even when we are eating, we are already thinking about the next meal. It is an inseparable

part of our culture'. <sup>17</sup> Strong opinions of food exist in the Singaporean psyche, with citizens being fiercely protective of iconic Singaporean dishes. Social media exchanges in recent years, for example, have seen Singaporeans in heated online arguments with citizens from other South-East Asian countries about the origin or preparation of their favourite foods. <sup>18</sup> The antiquated habit of asking if one has eaten remains a polite and appreciated greeting, even in contemporary society. <sup>15</sup>

Perhaps the complexities of Singaporean national identity are best expressed on a plate. Other than being a unifying force with regard to nationhood, food experiences additionally provide a marker for ethnic identity within the country's mixed-race society. <sup>19</sup> Suen<sup>20</sup> emphasises that food remains 'one of the strongest ways' in which ethnic groups 'articulate their memories', with the cooking and consumption of certain traditional dishes being a means to sustain an affiliation even through weak or weakening ties. Though the cuisine of ancestral cultures tends to transform over time, mostly due to convenience, <sup>15</sup> the value of their origin and linkages to deeprooted feelings of heritage are evident and celebrated.

Food experiences remain an integral and encompassing facet in the daily lives of Singaporeans; forming personal, familial, cultural and shared national identities. Though this coalescent 'food identity' is persistent across an individual's development and lifespan, little is observed or understood with regard to its expression within the end-of-life context.

#### Dying and the silencing of food voice

Extant local literature, research and academic inquiry seem to parallel international trends; in that studies on nutritional assimilation at the end of life focus on practical feeding during illness trajectories and the active dying process, ethical decision-making about nutritional withdrawal during dying, anorexia and medicalised nutritional goals. 21-24 Rarely do studies consider the accrued meaning of food experiences, and when they do, it is usually within similar acute contexts.<sup>25</sup> 26 Though Wong and Krishna<sup>25</sup> posit several important primary themes in their Singaporean case observations (reassurance, filial piety, balancing competing goals and maintaining normalcy), their small sample (n=4) and chosen methodology make it difficult to generalise assumptions. As such, the rich, lived and continuing experience of food in the lives of patients and their families is forgone within current academic efforts. Kaplan<sup>27</sup> observes that the complexity of food activities yields information about creativity, function, traditionality, variation, change and continuity. These are all empowering conceptions and practice that are especially salient for dying individuals, allowing them a measure of dignity in their final days.

From the development of the empirical model of dignity-conserving care, <sup>28</sup> Chochinov <sup>28</sup> observed that undermining dignity is strongly associated with depression, hopelessness, instances of anxiety, loss of will to live, a desire for death, feeling of being a burden on others

and an overall poorer quality of life. Studies have shown that a loss of dignity, meaning and feelings of being a burden unto others link to requests for a hastened death, with the eventual ramifications of these feelings leading to increased rates of suicide.<sup>29</sup> Spiritual peace, relieving burden and strengthening relationships with loved ones, however, are among the most imperative facets of death with dignity.<sup>30</sup>

Within the Asian context, Ho et  $al^{31}$  forward the patient family model of dignified care, constructed after investigating the perspectives terminally ill older Asian Chinese patients and their family members had about the constitution of dignity. The researchers enunciated the need for (1) spiritual plasticity; helping patients find meaning in their pain, letting go of attachments, attaining moral transcendence with the love and support of their family caregiver, (2) family connectedness via creation of a platform for expressing appreciation, achieving reconciliation, fulfilling family obligations and establishing continuing bonds with their descendants, (3) family integrity, as well as (4) filial compassion that involves the mutual support, reciprocal relationship, emotional connection and altruistic reverence gained through open communications and exchanges with their loved ones. 31 There is much potential for the empowering 'food voice' of Hauck-Lawson<sup>8</sup> to create meaning, establish a platform for communication and provide the support needed for Asian palliative care patients in increasing their dignity at such a critical juncture, as per the work of Ho et al. Hauck-Lawson 8 enunciates that the food voice can reveal aspects of one's life not commonly seen, lending pragmatic information and insight for clinical practice. However, this food voice, nourished over the course of a lifetime and laden with multifaceted significance, is reduced to a barely audible whisper in the palliative care context. To the best knowledge of the author, there currently exists no study that maps the food-related identity, continuing role of food and food experiences or memories of dying individuals and their families. The current work addresses this research gap and sought to qualitatively extricate through a constructivist phenomenological approach, the food voices of Singaporean palliative care patients and their families. It also simultaneously aimed to assess the role of food in bolstering their speakers' subjective feelings of dignity and identity, and consider the resultant clinical implications.

#### **METHODS**

The following study draws a subset of qualitative dyadic interview data (n=25) from a larger randomised controlled trial for a novel family dignity intervention (FDI) for Asian palliative care patients and their families (n=50). Table 1 showcases participant demographic data for the current sample. The complete sampling methods, inclusion criteria, interview procedure and comprehensive study protocol are described in greater detail within a separate publication. 32 Briefly, the FDI was conceptualised

Table 1	Demographic information of study participan	ts
Dyad co	de Age (years)	Sex
P1/FC1	64/55	F/F
P2/FC2	70/38	F/F
P3/FC3	60/58	M/F
P4/FC4	69/35	F/F
P5/FC5	85/52	F/M
P6/FC6	77/69	M/F
P7/FC7	79/79	M/F
P8/FC8	80/75	M/F
P9/FC9	86/63	M/F
P10/FC1	0 91/57	F/M
P11/FC1	1 81/45	M/F
P12/FC1	2 55/20	M/M
P13/FC1	3 74/70	M/F
P14/FC1	4 63/68	F/M
P15/FC1	5 88/82	M/F
P16/FC1	6 58/44	M/F
P17/FC1	7 64/61	M/F
P18/FC1	8 58/29	F/F
P19/FC1	9 80/47	M/F
P20/FC2	0 55/23	F/F
P21/FC2	1 65/45	M/F
P22/FC2	2 83/53	M/F
P23/FC2	3 58/48	M/F
P24/FC2	4 60/59	M/F
P25/FC2	5 73/51	M/F

F, female; FC, family caregiver participants; M, male; P, patient participants.

from empirical findings surrounding the subjective experience of dignity in Asian and Western contexts. 28 31 The intervention integrates narrative life review, reminiscence and logotherapeutic methods to provide psychosociospiritual support to patients facing the end of life as well as their families. It was piloted for acceptability and feasibility before being fully adapted into the larger intervention study. The FDI itself comprises an audio-recorded dyadic semistructured interview with a patient and a family caregiver conducted in their homes. The family caregivers were commonly spouses, children or siblings of the patient. Dyads were recruited through the local inpatient, day care and homecare hospice service units of HCA Hospice Care, Dover Park Hospice, Tan Tock Seng Hospital, Singapore Cancer Society and Methodist Welfare Services. Patients were included in the larger study if they were above 50 years of age with a prognosis of less than 12 months due to a life-limiting illness, receiving palliative care and in good cognitive health. Family caregivers were included if they were identified by patients to

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be their main caregivers, were above 21 years of age and had no major mental health issues.

In conducting the intervention, the FDI therapist uses a guided question framework to facilitate joint conversation on shared memories and living wisdoms that lead to meaning-making and the expression of appreciation and reconciliation. Questions centred on favourite memories, life lessons learnt, appreciation for their loved ones and hopes and dreams for the future. This is done with the ultimate goal of creating a legacy document that tells the life story of the patient; and is bestowed to the rest of the family through an open reading exercise. Each interview lasted between 60 and 90 min and was conducted in English, Malay, Mandarin or a Chinese dialect (Hokkien, Teochew or Cantonese). These recorded interviews were transcribed verbatim, translated into English by a native language speaker where applicable and edited into legacy documents. Transcripts and legacy documents were reviewed and finalised by patients and caregivers to ensure accuracy and authenticity. The Standards for Reporting Qualitative Research guidelines<sup>33</sup> were duly followed in the reporting of this study.

# Research design and procedure

The study adopted a constructivist phenomenological research paradigm, which enabled co-construction of participant dyads' food voices and experiences into a holistic perspective. The co-constructive paradigm of this study ensured transferability, whereby findings may apply to other settings, especially those of shared cultural norms, values and have similarity of physical experiences. With Singapore being the defining confluence point of a multicultural Asia, 15 the country can be a key representative reference for other Asian societies. Two members of the research team thoroughly went through all 50 transcripts of the larger FDI study and selected 25 that were the richest with food-based information, allowing for inter-rater concordance and research rigour.

# **Patient and public involvement**

The current study employed a patient-centred approach to identify the food experiences, and capture the food voices of terminally ill Singaporean patients. However, patients were not involved in the design, conduct, reporting or dissemination plans of this study, acting only as participants. Likewise, the public were not involved in the mentioned processes.

#### **Data analysis**

All audio recordings were transcribed with the aid of the Express Scribe software and imported into QSR NVivo V.12 for analysis. Under the lens of the identified larger domain of food, framework analysis employing inductive and deductive approaches was conducted through open, selective and axial coding, with a focus on the generation of common themes among the transcripts. At every step, codes were methodologically assessed and reassessed for importance and accuracy by the research

team. This allowed for the identification, analysis and reporting of patterns and themes which emerged within the data.<sup>34</sup> These themes represent a patterned response or meaning within the data set, capturing an important aspect of the data in relation to the research objectives. The themes were then organised into a thematic framework, which allowed the classification and observance of interactions and thematic relationships, resulting in a working model. Research rigour and trustworthiness of findings were ensured by adopting stringent methodological approaches including maintenance of an audit trail, peer debriefing, checking preliminary themes and interpretations against data obtained in subsequent interviews, inter-researcher consensus in finalising of themes, achievement of data saturation and theory triangulation. Researcher reflexivity was also developed through maintenance of a shared team journal and affordances for open and honest dialogue between members throughout the study timeframe. 35 36

#### **RESULTS**

Figure 1 showcases the four major themes and 12 subthemes generated from the data, organised into the Food for Life and Palliation (FLiP) model. These themes include food experiences and memories surrounding the self and family during a life of normalcy (feeding identity and familial bonds), the changing nature of food roles and occurrences from the onset of terminal illness and through the illness trajectory (liminal subsistence in illness transition), the continuing transmutation of food identity and its coalescence into social and personal legacy (food becoming lineage) and the enduring nature of food as an expression of care (compassionate nourishment). The themes are described in greater detail below and illustrated with direct quotes from participants.

# Feeding identity and familial bonds (number of transcripts theme has appeared in; n=24)

Participants stressed the role of food in the formation of their identity and sense of personhood, as well as a primary means of familial bonding during the course of their lives before illness onset. These included finding their food voice, as well as significant positive and negative food-related memories, seen within the subthemes of (1) food and self-definition, (2) fond food memories, and

#### (3) hardship, going hungry and feeding resilience.

# Food and self-definition (n=12)

In true Singaporean fashion, participants regarded food as a major aspect of their personhood and identity, with a resonant food voice emerging from a young age.

I love to eat. I love mee kuah [Southeast Asian noodle soup]. I can eat two bowls. When children finish the first bowl last time, they would not dare to ask for another, choosing to sit quietly. Then, my mother would say, 'Ah, this one, (I'm) sure she wants another bowl!' I will always go for a second bowl. I'm the only one in

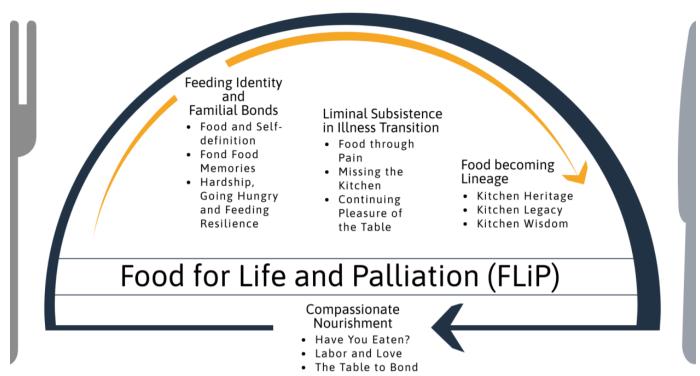


Figure 1 : The Food for Life and Palliation qualitative model.

the family who, you know, loves to eat... *kuat makan ah*! [Malay: Being a big eater]. People would take one bowl, I (would) take two. (Female patient in her 50s)

Similarly, this food-centric self-definition would also extend to the formation of familial identity; what defined the home and those who lived in it.

We love to eat. There's so much to eat, (one minute) we're eating glass noodles, the next we're eating tapioca noodles and whatnot. It's just a variety (for us) ...(even) the helper said, 'This family of yours is always cooking, cooking, cooking, and eating, eating, eating.' (Female patient in her 50s)

# Fond food memories (n=18)

Participant dialogue was rich with joyful food-related memories, many of which were defining points in different aspects of their lives. The following participant expressed this sentiment with regard to his food experiences during his vocation.

(Participant on his work within a busy international port) '[They would say] Take whatever you want, put it in a plastic bag, take it away.' It's fresh food you know! Fruits...chicken legs, some cold cuts; ham? And the food was really like from a hotel. So, we looked forward to that. Some of the food we didn't understand how to eat. The first time I ate, what do they call it, 'caviar'? I didn't like it. Didn't understand it, didn't like it. Later on, after years, I got used to it. As I got older, I got more comfortable eating these things. I learned how to eat...oysters? Very nice time I had, beautiful. (Male patient in his 70s)

Food experiences during festivals and ethnic celebrations also feature prominently as positive and memorable life events often spent with family and the wider community.

During Hari Raya [Islamic Festive Season], even though we didn't know how to tie the wrapping for the *ketupat* [traditional Malay ricecake dish], we would just [haphazardly] do it. Even up till now, we are still talking about the peanuts. We would buy many kilograms of them, and would have to peel the skin off each peanut individually by popping them between our fingers. Being children, we would play with them; 'pop, pop, pop-ing!' them at each other. We would get scolded, but it was so much fun. (Female caregiver in her 50s)

#### Hardship, going hungry and feeding resilience (n=17)

Many older participants had lived through Singapore's occupation of foreign powers during World War II. Poverty, hardship and difficulty at simply securing a meal made for tough but vital lessons in building resilience and adaptability enough to weather life's harsh conditions.

During that period, each household would cordon off a portion in front of their house and say, 'Okay, this is my plot of land.' And so, each family, would try their best to plant whatever food that we could for daily consumption. We had tapioca, sweet potato, chillies...these 'food' trees. So...we had to make do like that. Sometimes, we got ration cards. So, we got a little bit of rations...and that was how we survived during those times. Some families, the more

resourceful ones maybe? They turned to hawkering. For my family that time, I have no idea of how we managed to get an income really... (Male patient in his 80s)

These commonplace scenarios were also used as lessons in appreciating the ease and convenience of modern times.

I climb the coconut trees often to pick coconuts. The coconuts didn't belong to us, they belonged to the landowner. We were actually stealing the coconuts for our consumption, because we couldn't afford much food. It was a normal occurrence. You are very lucky that you never had to go through these experiences. You have been well fed and well clothed since you were born. (Male caregiver in his 50s)

#### **Liminal subsistence in illness transition (n=19)**

The following themes highlight the changing nature of participants' relationship with food at the onset of terminal illness. Rich food experiences are seen to fall to the wayside, with nutritional assimilation generally becoming a means of subsistence and survival, but on some occasions, serving as the smallest possible means of pleasure during a state of betweenness. These are observed in the subthemes of (4) food through pain, (5) missing the kitchen, and the (6) continuing pleasure of the table.

#### Food through pain (n=15)

The formerly variegated and flavourful food experiences that patients experienced during their healthy life course begin to dull and grey, with nutritional requirements and restrictions due to illness curtailing their experiences.

[In the past], I used to like to eat all the different types of hot, spicy, curried food and all that. But now because of this particular cancer problem, I can't quite eat those foods, and I can't eat the amount I used to eat before. At one point, it was just porridge, porridge, porridge, (Male patient in his 70s)

This transitory food state that patient participants now live in also places pressure on family members, forcing them to reorganise perspectives, habits and formerly shared experiences.

To be honest, I'm still buying junk food too. Prior to my father falling sick, I would often drink Coca Cola; he would join me and we would drink Coca Cola together. However, we have stopped doing that ever since he was diagnosed with his illness... his stomach has become acidic as a result of his smoking habit as well, and he constantly craves for something sweet. My father is struggling to quit drinking Coca Cola as he is constantly thirsty. (Female caregiver in her 20s)

# Missing the kitchen (n=4)

This subtheme holds a level of specificity and was not observed in many participant dialogues. However, it remains especially significant for patients who consider the practice of culinary skills an important facet of their autonomy.

Now I don't cook, I can't. Unless it's something simple, otherwise I can't stand for too long, I'll get tired. I can't stand for long, as my legs are weak, so cooking in the kitchen is not good for me. (Male patient in his 70s)

Not being able to practise their craft is observed to cause additional psychosocial distress, above the physical demands and worsening of their illness.

'What has happened to me? What am I like this now? Why am I no longer as capable as I used to be? Why am I so slow when I want to bake or cook?' I know I was capable of doing many things when I was younger, but now, I'm slowing down in everything that I do. (Female patient in her 60s)

#### Continuing pleasure of the table (n=12)

In days filled with exhausting patient role-related routines (such as trips to the hospital), uncertainty and declining health, the simple pleasure of a favourite meal can be an empowering source of dignity, comfort and normalcy.

I like to eat, until now. That's why, even this morning I went to Geylang [Singaporean suburb] to *makan* [Malay: To eat]. Despite not feeling too good, my appetite not so good as well, but I try to eat. (Female patient in her 50s)

The establishing of this smallest unit of attainable pleasure also aids family members in achieving a sense of ordinariness and care expression. Family members who accompany patients for their treatments and hospital appointments often turn them into food events.

...then after his medical check-up we always tend to think where we want to go *makan* because he loves food. I would prefer to go out with him now; whatever he wants to eat, when we are still able to walk...we take a cab then we go and *makan*. And we will hold hands; like this! (Female caregiver in her 70s)

#### Food becoming lineage (n=17)

The current major theme enunciates the continuing transformation of participants' food identity; when considered holistically, alchemises into social and personal legacies and wisdom extending both into the past as well as the future. The subthemes of (7) kitchen heritage, (8) kitchen legacy, and (9) kitchen wisdom observe this.

# Kitchen heritage (n=10)

Participants forwarded their deep-rooted food identities within their larger cultural backgrounds. This process

often elicited pride and feelings of generational continuity, tying in closely with tradition and ancestry.

My husband is Jawanese too; Padangese Indonesian. His mother used to sell Padangese rice. Her restaurant used to be packed during lunchtime. I learned from her and her recipes...ayam balado [Indonesian Spicy Fried Chicken]. He loves ikan balado [Indonesian Spicy Fried Fish], terong balado [Spicy Eggplant] and such. (Female patient in her 60s)

The ethnic identity of participants was celebrated in this manner, often converging closely to periods of traditional festivities that allowed them to reconnect to their heritage and ancestry.

My maternal grandmother was an amazing woman and she sold different pastries throughout the year; she sold sesame balls in March where people would offer them to their late ancestors [during Qingming festival (Tomb-Sweeping day)], followed by food offering to the Gods in April, rice dumplings in May [in commemoration of the Dragon Boat Festival], mooncakes in July and August, and finally roasted pork in October. (Male patient in his 80s)

# Kitchen legacy (n=9)

Participants were also cognisant of their personal food legacies; what they had carefully and dutifully constructed over the course of a lifetime in and around the kitchen.

I don't make them [referring to her traditional pastries] anymore. In the past, I would make them by myself using good ingredients and they were delicious. The dishes and snacks that you buy from shops these days do not taste good. Homemade food is especially flavorful and fragrant. You have never tried it, hence you do not know how (good) it tastes. Food tastes better when it is homemade. There's a special taste to it (which resembles) the familiarity of grandma's cooking. (Male patient in his 60s)

Other than a source of personal pride and distinction, participants' legacies were also social celebrations; with families intimately involved as patrons, witnesses and guardians.

She's known for quite a lot of dishes... The entire family loves to eat popiah [savory spring roll]. When she cooks it, we ask everyone to come home to have it. It's not the usual Hakka version, it's the Hokkien version [Chinese dialect groups]. It's really tasty. She'd always complain that it's a lot of work, and that she's not going to cook it the next time, but she still does it. (Female caregiver in her 20s)

# Kitchen wisdom (n=14)

Participants viewed food experiences as valuable mediums for imparting lessons and wisdom, both within the kitchen and without. Family members can directly benefit from the knowledge handed down to them.

Culinary arts is not just the act of cooking and eating what you have cooked. It also involves grocery shopping, where you have to choose suitable ingredients such as a particular part of the fish or meat. It is not an easy as it sounds, especially for me as I am new to it. You have to learn from someone, by following them and observing what they choose to buy. It also involves planning a menu! (Female caregiver in her

Food is often used as a metaphor to eloquently instruct, inform and muse about life with all its intricacies and peculiarities.

Ah, but sometimes, we have to compromise and make a dish that everyone can eat...then it all comes down to whether you eat more or eat less of it. (Female patient in her 70s)

#### Compassionate nourishment (n=21)

The final major theme in the study does not run linear to the chronos time observed among the others, instead weaving between all other themes and being present at every juncture of participants' lives. Food within the collectivistic Asian context is parallel to care provision, holding symbolic and practical meaning. The subthemes of (10) have you eaten?, (11) labour and love, and (12) the table to bond highlight this.

# Have you eaten? (n=17)

The query of having had a meal is observed in various languages and dialects. It is perhaps the most conventional expression of empathic concern for well-being in Singapore, holding much nuance and undertones. This is often seen as a means of providing practical and symbolic care.

What do I like most about him (referring to patient)? I like when he would talk about wanting to bring us out to eat. He loves talking about where to eat. 'Where should we go? What would you like to eat?', he would ask. What I like the most is that he cares for the family. (Female caregiver in her 50s)

The expression is not seen as merely a polite or flippant greeting. A negative response to the query often begins a series of food-related activities that leads to providing for the individual who hasn't had a meal.

The memory with the deepest impression? My mum always worries that we will be hungry. During my growing years, she would always give me two dollars, saying, 'Hey, quickly go and eat something. During your growing years you shouldn't go hungry.' When I was a student, there were times when it would be late in the evening, and I would not have had a meal yet. I would call my mother and ask her if there was any food ready to eat at home. She would say, 'Yes, there



is a lot of food! Hurry home so you can eat!' When I got home, I realized, 'But Mum, there is no food on the table. Why did you say there was food ready?' She replied, 'There will be food once I cook!' (Male caregiver in his 50s)

#### Labour and love (n=17)

Food preparation is rarely an easy process. It is often time consuming and physically demanding. Participants enunciate this aspect of cooking as a true labour of love.

When my children were younger and staying with me, I could cook all day long in the kitchen and not feel tired at all. I wanted to feed them well, feed them with delicious food; and that makes me happy. People often say, 'When we cook, we must cook with a loving heart, but never with an angry mind.' (Female patient in her 60s)

With the onset of illness, patient participants also showed appreciation for the continuing effort that family members made with regard to food preparation, which often required some innovation due to nutritional limitations.

Everyday, she tries to have a different menu, especially when I'm sick. She's thinking of different food, and everyday she's asking me, just to be able to satisfy my palate. I'm slowly beginning to enjoy and taste those food. Coming back to it. She can cook all the different type of food. She also likes to make certain type of drinks. A mixture of drinks with avocado and all that, in a concoction...she likes to experiment on me! (Male patient in his 70s)

#### The table to bond (n=18)

The final subtheme captures the multifaceted social component of food experiences within the lives of participants. These events showcase the authority of food as a means of bonding and a platform of familial continuity.

I do not ask for anything, and they (daughters) don't need to eat sumptuous meals; as long as we are eating together, we are very happy. Abalone will fill your stomach, just as salted vegetable will, right? I do not ask for much, just enough to fill the stomach, as long as we are happy together, I am content. (Male patient in his 60s)

Participants also enunciated how stressful issues fell away when families bonded over a meal, showcasing the table to be a place of quiet dignity, solace and restfulness in times of turmoil and instability.

Sometimes we go to Changi Beach. Just sit down, buy some food and eat...that time when the children were small. Sometimes they see an ice-cream seller, I would just tell them; 'Take the money and go and buy.' We'll sit down, eat and be happy. I don't want to

think about the stressors that I have. (Male patient in his 50s)

#### DISCUSSION

To the knowledge of the author, this is the first study that addresses the food-related identity, food's continuing role and food experiences (past, present and future) of dying individuals and their families within the Singaporean context. Though no specific food-centric queries were included in the FDI battery of questions, rich food-based responses occurred organically in response to various probes into participants' lives; emphasising, once again, the fundamental significance of nutritional assimilation within the culture. Findings indicate that the food voice of individuals at the end of life is resonant with vibrancy and tenor; alluding to such themes as personhood, survival, lineage and compassionate care. The FLiP model showcases the complex interplay of these themes and observes the linearity and changing nature of food at the end of life, for patients as well as familial caregivers. It was observed that the onset of terminal illness seemed to act as a prism with regard to patient participants' relationship to food, allowing multifaceted nuances to now come to light. Food identities became more solidified; memories both positive and negative were now appreciated with greater watchfulness through food-based reminiscences. The current place of food in their lives was also enunciated, allowing participants a psychosocial anchor in a period of turmoil and liminality. Musings on ancestral traditions and heritage as well sanctioned the creation of a curated platform for continuing food legacies and collated wisdom. These effects also extended in part to the family caregivers present during the dyadic interview process, allowing them to also consider their food voices, and how it harmonised with those of their charges. As seen by the responses of family caregiver participants, one's food voice is socially learnt as well as independently developed through personal experiences. Moreover, these food voices are also observed to facilitate some key constitutions of dignity, such as those alluded by Ho et al,<sup>31</sup> especially in the thematic forms of 'Family Connectedness' and 'Filial Compassion' posited by the authors. This is perhaps best paralleled by the current study's major theme of 'Compassionate Nourishment', which encompasses these concepts.

Though the FLiP model was constructed with the responses of Singaporean participants, it is expected to demonstrate generalisability to other Asian communities and diasporas. This is in no small part due to the unique cultural overture that Singaporeans exhibit, showcasing ties and roots extending not merely into a collective national identity, but also into respective ethnic mainlands.

# **Clinical implications**

Chapman and Maclean<sup>37</sup> posit how the roles and meanings of food can foster insight and understanding to



enhance practice effectiveness. In this vein, there are numerous clinical implications for the application of the findings presented in this work, both at institutional and industry levels.

As observed, the FLiP model showcased the often silenced and ignored food voice of dying patients and their family members. Employing the model as a frame of reference, empirical food-based clinical interventions can be developed to address a range of psychosociospiritual issues for these populations. Incorporation of the model into processes of narrative, reminiscence and logotherapeutic facilitation can aid focus on larger objectives, such as enhancing dignity, encouraging meaning-making and legacy creation as well as promoting continuing bonds through a food-based platform of open social communication.

Running parallel to the enunciated aims of the FDI developed by Ho et al, 32 possible iterations can incorporate the FLiP model. The familial cocreation of a legacy cookbook (a 'FLiP Book', perhaps) can be one such example. Legacy activities have been demonstrated to improve social interaction and communication between patients in palliation and their families as well as reduce end-of-life distress.<sup>38</sup> Such an intervention can borrow from the FLiP model to develop a set of protocol questions that elicit the various aspects of participants' food voice. Patients and families may come together to coauthor a record filled with curated recipes; closely guarded heritage secrets, favourite family meals, modern gastronomic discoveries, and so forth. The project can be documented with pictures, photographs, quotes and nuggets of crystallised kitchen wisdom, and bequeathed to families as a symbolic gesture continuation. After bereavement, this culinary journal will play the part of an heirloom; providing an endearing means of continuing bonds for immediate family, and an informative sociohistoric manuscript for later generation kin. This and similar culinary grief interventions may be informed by the study's results.

The current findings also hold important implications for industry providers of end-of-life nutritional supplements and options. The objective of nutritional support for palliation should always be increasing quality of life through comfort, symptom relief and enjoyment of food.<sup>39</sup> However, taste is often the first variable to fall to the wayside in attempts to ensure complete nutritional care. Routine ingestion of such products often leads to boredom and taste aversion, making food events a chore rather than ones looked forward to. Singaporean nursing homes are beginning to import gourmet meals for seniors from countries with standing nutritional research and preparation technologies such as Japan<sup>40</sup>; though this might pave the way for start-ups and local manufacturers to consider entering the market, breaking into palliative nutrition might be a daunting task, in part due to death aversion and superstitious taboo within the country.

The current flavoured supplements in the industry are often dismally monochrome when compared with the colourful taste experiences patients have been used to. As such, industry partners may diversify existing flavours, which themselves are not often employed in Asian cooking (such as vanilla, strawberry and chocolate), to include the nuances seen in traditional and multicultural cuisine. Some examples might be 'Bandung' (rose milk), 'Kaya' (coconut jam) or 'Gula Melaka' (palm sugar); simple flavours but nonetheless rich in nostalgic meaning for many Singaporeans. Family caregivers as well might be comforted with the thought that nutritional assimilation at this juncture might still be a source of pleasure for their loved one.

#### **Limitations and future directions**

Though the current study is a novel undertaking with the generated FLiP model enunciating the role of food experiences for palliative patients and their families in the country, several limitations are observed. The first is that though the nature of the original study's semistructured interview process allowed for much leeway in addressing food-related concerns, such queries were not part of the standardised protocol, which focused on achieving other primary objectives. The research team, as such, did not have the opportunity to hear the food voices of all participants. Future application of the model may lead to its further reiteration, allowing for increased nuance. Moreover, due to inherent sampling issues, certain racial demographics were not represented in the study, most notably Tamil, Eurasian and other minority ethnic groups. As future work with regard to the FLiP model is continued, it is hoped that individuals from these groups would also be able to share their stories, voice and food experiences.

The FLiP model holds much cross-cultural promise were it to be extended to communities in the West; as food-related experiences over the life course might naturally differ from individuals living in Asian societies. Such prospective cross-cultural studies may also allude to the presence of a universal food voice for individuals, with undertones spanning across all cultures and lifestyles.

#### **CONCLUSION**

Like death, food and all its surrounding function, experiences, integrations and components remains one of the few truly ubiquitous influences that we share as human beings. We develop a food voice from birth, learn its tone and timbre and allow it to speak for us as a form of our own extended identity (both personal and sociocultural). It is a source of kinship and comfort, self-definition and empowerment that spans across the breadth of our lives. Most importantly, perhaps, it remains a rejuvenating well-spring for dignity, even through (and especially at) the final steps of our mortal journey.

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