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Come into my world



Immersive virtual reality experience can help people empathise more with those living with dementia



After her mother was diagnosed with mild dementia in 2022, Ms Winnie Lee felt helpless and at a loss when it came to taking care of her

her. Her 74-year-old mother forgets things such as the date and time, and asks the same questions re-

and asso the same queen-"I got frustrated easily and we often got into arguments. I found it difficult to understand and accept how she would forget things that she would not in the past," says MS Lee, a 40-year-old manager in the infocommunications and technol-nev sector.

The elderly woman also lost in-terest in her favourite activities, such as cooking and gardening. Dementia is a brain disorder that interferes with one's ability to carry out daily activities. It encom-

passes a range of dysfunctions such as severe memory loss and mood and behavioural changes. As Ms Lee was searching for sup-port online, she came across work-shops by social service agency Dementia Singapore's caregiver support group.

shops by social service agency bementi Singapore's caregiver upport group. As part of the workshops, she stepped into the shoes of a person iving with dementia using a vir-ual reality (VR) application called Educational Dementia Immersive Experience (Edie). The app, developed by Dementia Australia in 2016 and disroduced in buid empathy and make people more aware of the issues faced by those living with the condition. It expores what it may feel like to some of the issues faced by the second second second second as a second second second second as demonstrational second second as demonstration and the second second second second second second as demonstration with the second seco

After Ms Lee tried Edie as part of a free six-week workshop in June at Dementia Singapore in Bende-

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towards her. "

MS WINNIE LEE, whose mother has dementia, on trying the Educational Dementia Immersive Experience virtual reality application

meer, she had a deeper under-standing of her mother's condition. "I was surprised and shocked to see her word. I realised she was not trying to be difficult. I became a lot more compassionate and un-derstanding towards her," she says. After the VR experience, she modified their home environment so her mother could easily move around and identify objects. For instance, she bought a simple clock that showed the numbers in a big bold fort. She also installed au-tomatic light sensors that illumi-hate the path from her mother's bedroom to the toilet, so she can easily navigate at night.

According to Singapore's health portal HealthHub, one in 10 people above the age of 60 here suffers from dementia. This corresponds to about 82,000 people in 2018 and the number is projected to increase to 152,000 by 2030. Memerita impacts not only those diagnosed with the condition, but their caregivers as well. Ajoint study of 1.500 people con-ducted in July by Dementia Singa-pore and Milleu Insight, a con-sumer research firm in South-east Asia, found that 74 per cent of caregivers of people with dementia vere overwhelmed by their res-possibilities. They said their biggest hurdles trains of caregiving. These in-clude managing behavioural strains of caregiving, these in-clude managing behavioural strains of caregiving. These in-strains managing behavioural strains of caregiving. These in-strains of the big behavioural strains of caregiving. These in-strains of the big behavioural strains of caregiving. The strains man strains of caregiving. The strains man strains of the strains man strains of the strains strains man strains of the strains strains

with the gradual decline of their loved ones. Ms Dorine Lee, a training man-ager at Dementia Singapore Acade-my, says much can be done to raise awareness of dementia and reduce the stigma associated with the con-

the stigma associated with us sum dition. "We ultimately want healthcare public to gain a deeper under standing of dementia to better sup-port people living with it and en-gage them in everyday activities," Dementia Singapore Academy is the training and consultancy arm

of Dementia Singapore. It provides of Dementia Singapore. It provides training programmes for profes-sionals, family caregivers and for-eign domestic workers, as well as consultancy services for agencies providing dementia care services. Edie helps healthcare profes-sionals and the public, including caregivers, better understand de-mentia. The workshop by Demen-tia Singapore, which runs for three hours for the public and 3½ hours for community organisations,

in 2020 to try Edie and share their experiences. The use of the VR application "contributed to improvements in knowledge, attitudes and empath-ietr ersponses". Prof Lim shares that one partici-pant, a 46-year-old nurse, empath-ised with people with dementia more after undergoing the VR ex-perience, saying: "Their vision is so distorted. It makes things around them look scary, and they feel scared."

Singapore Institute of Technology Associate Professor May Lim (standing) Lim (standing) trying the Experience Dementia in Singapore virtual reality simulation of a person with dementia. ST PHOTO: AZMI ATHN

hours for the public and 3½ hours for community organisations, costs 52260 and 542.88 respec-tively. Researchers from the Singapore Institute of Technology (SIT) also stepped in to study the ways it im-proved one's perception of people with dementa. SIT Associate Professor and As-sistant Provost of Applied Learn-ing May Lim says 61 participants, care professionals, were recruited in 2020 to try Edia and share their experiences. The area of the VB application



Experience dementia in Singapore context

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Prof Lim says there was feedback suggesting a Singaporean context for the VR scenarios and for these to span community and home set-tings. Ms Lee adds that Dementia Sin-gapore also saw the need to pro-vide a more relatable experience for users here.

gapore also saw the heed to pro-vide a more relatable experience for users here. The social service agency, with support from The Majurity Trust, Agency for Integrated Care and SIT, hence developed Experience Dementia in Singapore (Edis). It was launched in 2022. Edis comes in two formats: 360-degree Web videos and viewing through VR headsets: The 360-degree Web videos, says Prof Lim, are useful for reach-ing out to a large audience, while the use of VR headsets is ideal for an immersive experience during a

I had a clearer sense of what my grandmother might be going through. The way in which we talk to them will affect how they feel, so it has had an impact on how I interact with her now. I just want her to feel heard and validated.

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SINGAPORE INSTITUTE OF TECHNOLOGY FINAL-YEAR OCCUPATIONAL THERAPY STUDENT TEO ZHE HAO, whose grandmother has dementia, on trying the Experience Dementia in Singapore virtual reality scenarios

facilitated session. "Utimately, we want to achieve an increased awareness of demen-tian and reduction in stigma, and change in attitudes towards per-sons with dementia," says Ms Lee. The resulting three VR scenarios provide a first-person simulation of someone with dementia living in Sugapore. In the first, participants step into the shoes of Auntie Lucy and learn about the anxieties and frustra-tions she faces at home. They are then shown how a conducive envi-outies and restless at a de-mentia daycare centre. She finds feels bored and restless at a de-mentia daycare centre. She finds feels bored and restless at a de-mentic being ignored and to the leing. The the next scenario, Auntie Alice feels bored and restless at a de-mentic adaycare centre. She finds feels bored and restless at a de-mentic adaycare centre. She finds feels bored being ignored and feels bere being ignored and feels that the activities offered are that source visit band lames as provide a first being ignored and feels being ignored and have a grea-ter sense of belonging. The 26 year-old, whose 96 year-metian is ays his knowledge about tooks. "After going through Edis, Ihada deare ense of whot mercad

the disease was initially limited to books. "After going through Edis, I had a clearer sense of what my grand-mother might be going through. The way in which we talk to them will affect how they feel, so it has had an impact on how I interact with her now I just want her to feel heard and validated," he adds.

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