

Designing Therapeutic Gardens for Healing in Nursing Homes









1970

OUR POPULATION IS AGEING RAPIDLY.

In 1970, **1 in 31** Singaporeans was 65 or older. In 2015, it was **1 in 8**. By 2030, it will be **1 in 4**. We will have over 900,000 seniors, approximately double the current 440,000.

1 in 8





2015

2030

YEAR



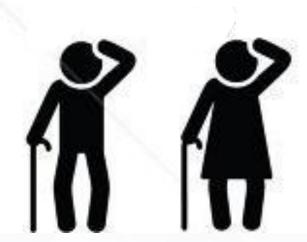


Source: Action Plan for Successful Ageing, MOH Publication





The estimated prevalence of **dementia** is 10% amongst the elderly aged 60 and above. With rapid population ageing, the number of people living with dementia will increase.



Source: Looking To The Future, AIC Publication





Creating healing environment to improve **Quality of Life** in the nursing home.

- improve mood and ease anxiety
- reduce agitation in residents with Dementia
- provide sensory stimulation
- encourage autonomy and promote ambulation
- encourage social interaction













Challenges & Strategies:

- Site/Space Constraint
 - pocket gardens at high levels
 - 'borrowing' landscape from neighbours

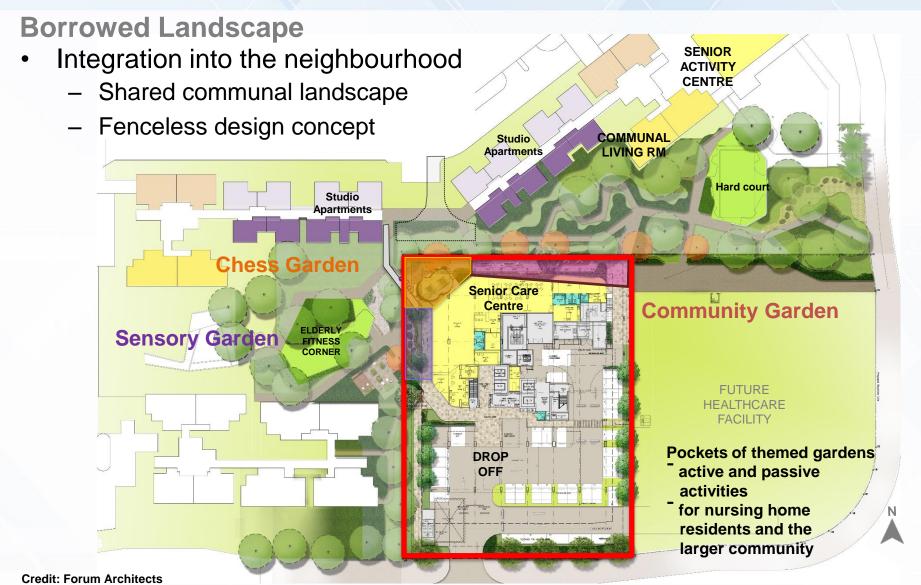


- Maintenance Concerns
 - ease of maintenance
 - selection of low-maintenance plants





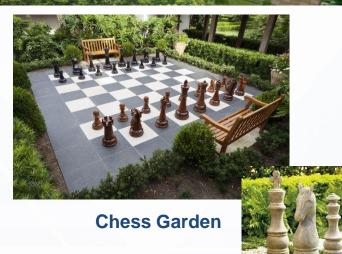












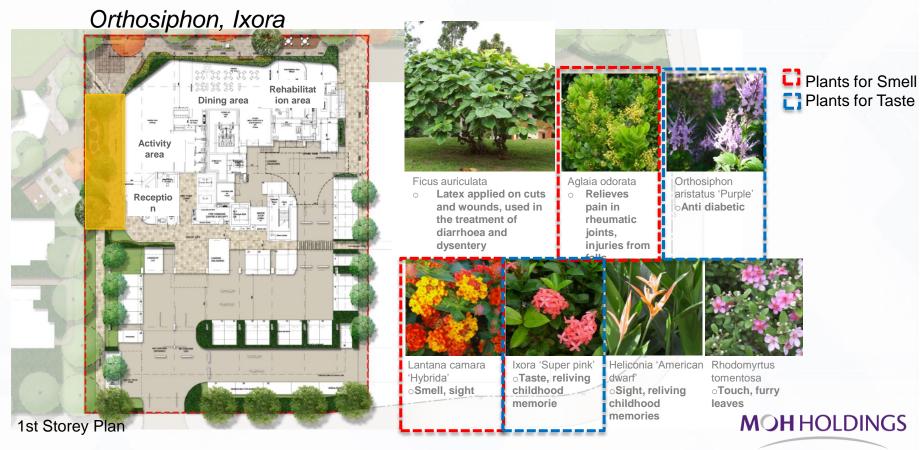




Sensory Garden – Plant Palette

- Smell
 - Scented plants are provided like Aglaia odorata, Lantana camara
- Taste

Edible plants and growing areas for edible plants are provided like

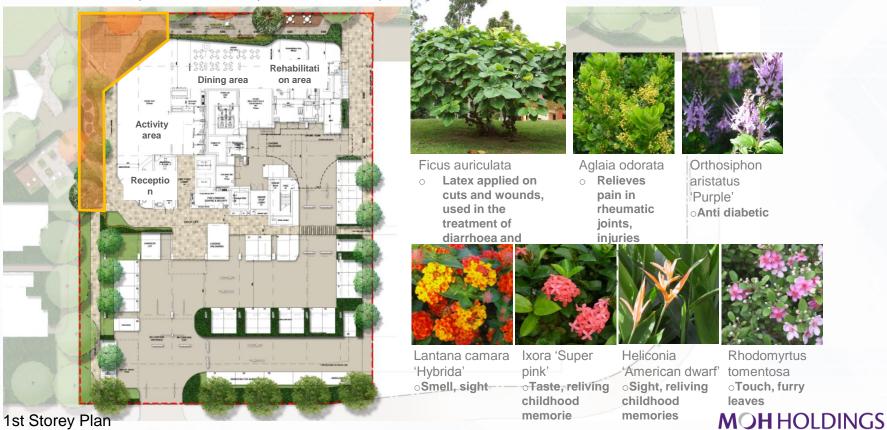




Sensory Garden – Plant Palette

- Colour
 - Therapeutic areas are colourful with a variety of plants at all levels

Eg. Lantana, Ixora, Ficus, Agalaia, Orthosiphon, Rhodomyrtus, Heliconia,
Bucida, Flacourtia, Schefflera, etc.





Sensory Garden – Plant Palette

- Touch
 - Plants with texture presence like Ficus auriculata, Rhodomyrtus tomentosa
- Evoke Memories
 - Plants like Orthosiphon, Ixora and ficus are used, eaten during childhood times, evoking memories. Plants are also not toxic and not thorny





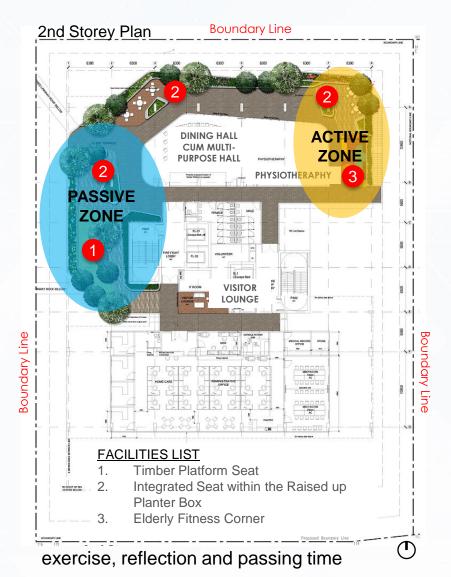
Zoning

- Active zone
 - Elderly-friendly outdoor fitness area
- Passive zone
 - Spaces for seating and strolling
 - Seats are placed opposite each other to encourage interaction.







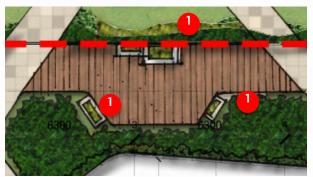






Wheelchair accessibility

 Planter boxes within the community garden are designed as such to be accessible by both ambulant and wheelchair-bound seniors



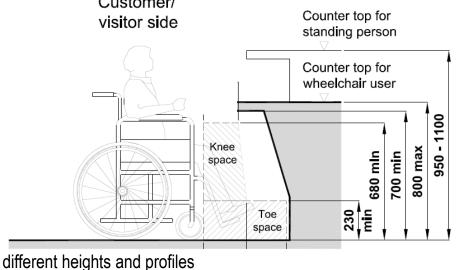
480

1150

300









Designing therapeutic gardens for healing: Woodlands Care Home





- Site bounded by roads
- Sheltered linkage to HDB blocks
- Fenceless
 - a sense of inclusion

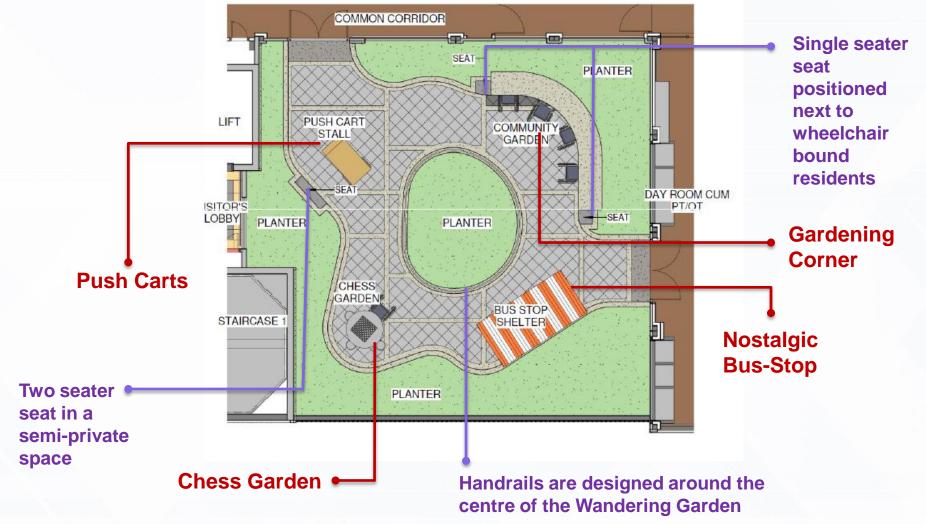
Credit: Surbana Jurong Consultants Pte Ltd



Designing therapeutic gardens for healing: Woodlands Care Home



Dementia-Friendly Design: Empowerment and Autonomy



Making choices with a variety of activity spaces



Designing therapeutic gardens for healing: **Woodlands Care Home**



Dementia-Friendly Design: Meaningful Participation



An active zone for group activity.



Chess garden

A passive zone space is provided for wheelchair bound residents to be positioned next to family and caregivers.

Nostalgic bus stop shelter

A bus stop shelter to provide shade for 3-4 residents.



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Dementia-Friendly Design: Meaningful Participation







Gardening Corner



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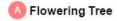


Planting Palette of the Wandering Garden

Tree Species



Trees for colours





Plumeria rubra

Trees for shade





Averrhoa bilimbi



Carica papaya



Punica granatum



Manilkara zapota

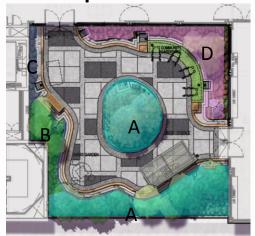


Designing therapeutic gardens for healing: **Woodlands Care Home**



Planting Palette of the Wandering Garden

Shrub Species



Sensory Stimulation

A-Shrubs for colours







Gardenia jasminoides

Asystasia gangetica

Hymenocallis speciosa

Wedelia trilobata

B- Foliage Shrubs for texture







Schefflera arboricola

C- Ground cover for texture



Phyllanthus myrtifolius

D-Community garden planting



Osmoxylon lineare

Cymbopogon citratus



Murraya koenigii



Orthosiphon aristatus 'Purple'



Ocimum basilicum





Pocket Therapeutic Gardens on every floor

- A therapeutic environment relies on natural light and fresh clean air. The building form articulated to allow daylight and natural ventilation to pass through the internal volumes.
- Lush planters with shrubs and flowers are sprinkled through the common areas to allow everyone to experience nature as a tamed landscape, with views overlooking the park beyond. It is no longer a sterile facility but a Home in a Garden.







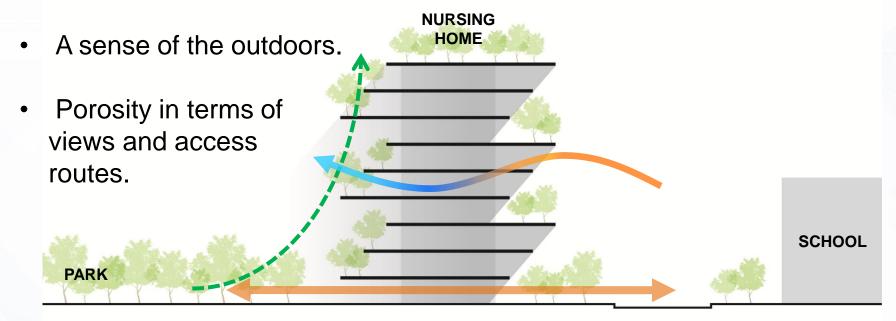






A Porous Building

 Balancing intelligent use of passive design with gardens to create a high quality living and working environment.



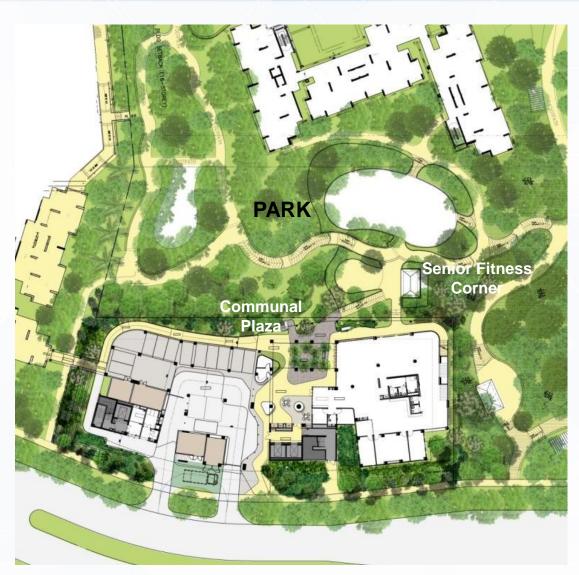
View of the Park + View of the Indoor Gardens





Integration Strategies

- Seamless integration with the neighbouring park.
- Landscaped communal plaza for the nursing home residents and the community.
- Connects and extends the Park into the Nursing Home
- Barrier-free accessibility between local park amenities and gardens.
- Simple layout and circulation routes.







Shelter Within Nature

- Sheltered and landscaped communal plaza invites people to take refuge from the rain and still relax and socialise within nature.
- Garden benches, chess table/seats and garden swing offer a choice of destination within the therapeutic gardens, allowing people to connect to nature.











- Echoing the surrounding plant palette.
- Seamlessly borrow landscape.
- Blend with context and invite nature into the building.



'One Big Garden'





Therapeutic Home



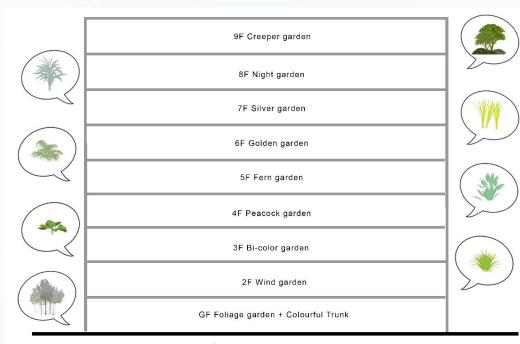
- A lush variety of interesting plants eases the stress of both residents and care workers.



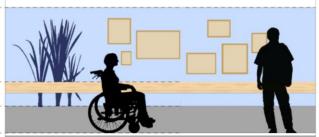


Themed Gardens as a Wayfinding Strategy

- Wayfinding motifs are displayed graphically from floor to floor, reflecting the actual plant species used. Plants are carefully selected to compliment each other as themes.
- A sense of biophilia is encouraged in residents, as they develop a fondness for the certain plant theme that reminds them of where they stay.











Therapeutic Workplace



- Plants help to control the climate within a passively ventilated space and allows a steady, sustainable and consistent environment for living and working in.
- Contact with nature is proven to reduce stress.
- The staff quarters contain plants that are visible and fragrant at night.











Thank You

