Care centre for adolescent cancer patients
The fairy tale house

Theme
Unique challenges of adolescences
Unique challenges of adolescents
Unique challenges of adolescences
“I can do anything in life”

Independency
PATIENT SCREEN
RACHEL EMMA S.
female
1-2-1990
young actress

STOMACH CANCER
Abdominal discomfort (stomach pain)
Loss of appetite (risk of anemia)
Nausea (sensation of unease and discomfort in the upper stomach with an involuntary urge to vomit)
Diarrhea or constipation
Fatigue (exhaustion, tiredness, listlessness)

EMERGENCY CONTACT
Father Adam M., architect
Mother Ingrid M., nurse
Sister Lara M., psychologist
Student flat shared with
Lotus S. & Lunah B., Raamgracht 21, Amsterdam

PERSONAL INTERESTS
Art, cinema, piano, reading, fitness & yoga

UNIVERSITY STUDIES
2010 master of theater
Ams. Hogeschool v.d. Kunsten

TREATMENT CHOICES BY TYPE AND STAGE OF STOMACH CANCER

Stage 0
Surgery
Gastrectomy

Stage 1
Chemotherapy
Radiation therapy

Stage 2
Surgery
Chemotherapy
Radiation

Stage 3
Surgery
Chemotherapy
Radiation

Stage 4
Surgery and chemotherapy, or chemotherapy and radiation

Supportive Environment
Stress reducing
Social support
Normality as a foundation for supportive environment
Sense of control
Interactive environment
Central lack of control and boredom

Cancer diagnosis
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
“The impact of being different can be devastating to a young adult at a time when the norm is to conform.”

Baker 1997: 5.
“I can do anything in life”

vs. growing insecurities & dependency
Feeling of lost control
“While survival rates for children and older patients have improved in the past 25 years, the rates for teenagers and young adults have not improved.”

www.cbsnews.com
“When you are 60 years old, you don’t care about fertility. When you are 6, you don’t really care about fertility. When you are 21 or 28, you want to have a child, but chemotherapy makes you impotent or infertile.”
INFORMATION CENTRE
CONVERSATIONS
EDUCATIONAL SUPPORT
COOKING WORKSHOPS
MUSIC
ART
FILM MAKING
YOGA & PHYSICAL TRAINING

Chose individual therapy program
“Rehabilitation and exercise are essential components of comprehensive cancer care, as the disease and its treatments present many challenges to functional independence and health.”


Physical exercise
Regain autonomy and privacy

Private living space
Amsterdam North

Vliegenbos

1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
Escapement Protection Adventure

Fairytale theme
THERE is only one wish to be adventurous pioneers and find ourselves at the end.

For us Ever Walk in Hope, even though there be no Goal to Reach.
Surrounding
North facade
South facade
North facade
1. Social research  
2. Program  
3. The site  
4. Design research  
5. Design results  
6. Building technology  
7. Climate concept  
8. Conclusion
Feeling of being in control by allowing patients to do as much as possible by themselves.

Movement
Urban studies
space for movement and interaction
Model studies refurbishment
Model studies interior
Model studies extension
Model studies extension
Model studies extension
Extended wings
1. Social research  
2. The program  
3. The site  
4. Design research  
5. Design results  
6. Building technology  
7. Climate concept  
8. Conclusion
Roof directions & central space
Collective cluster
Connections in space
Sheltered spaces

1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion

A. Existing building
B. Building extension
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
First floor
“Ich kenn das leider. Wenn alle Haare fehlen und man fast nichtmehr in die Öffentlichkeit kann, weil jeder schaut und man einfach nach der Krankheit aussieht.”

www.krebs-kompass.org

A. Existing building
B. Building extension
Regain autonomy and privacy
Section between old and new
A place to rest
Transition planned garden & natural landscape
Vegetable garden
Ground floor

1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
“Ganz helle Räume und viele Licht, das ist ganz, ganz wichtig.”

Katherina K, 25 years
1. Social research  
2. The program  
3. The site  
4. Design research  
5. Design results  
6. Building technology  
7. Climate concept  
8. Conclusion
Relaxation
Quiet space
Sitting area
Library
Music therapy
Physical exercise
Yoga area
Storage
Massage
Physiotherapy
Video workshop
Grouproom
Technical space
Nurse
Stuff
Conversation
Library
Workshop
Creative therapy
Creative therapy
0,00
0,19
0,38
0,57
0,57
0,57
0,19
0,57
0,00
0,00
shower
Relaxation
Stuff
Library
Juice bar
0,38
coffee bar
0,38
0,38
Disabled
Cloakroom
Elevator
Restroom
Cleaning supplies
Restroom
Restroom
Storage
Shower
Changing room
Storage
Changing room
Shower
Elevator
Restroom
Internet point
Relaxation
Quiet space
Sitting area
Library
Music therapy
Physical exercise
Yoga area
Storage
Massage
Physiotherapy
Video workshop
Grouproom
Technical space
Nurse
Stuff
Conversation
Library
Workshop
Music therapy
Storage
Creative therapy
Creative therapy
0,00
0,00
0,00
0,00
0,00
0,00
0,00
0,00
0,00
Shower
Juice bar
Coffee bar
Disabled
Cloakroom
Elevator
Restroom
Cleaning supplies
Restroom
Shower
Storage
Changing room
Elevator
Storage
A
B
B
A
A
Internet point
A. Construction
B. Materialisation
What are the characteristics of fairy tale house?
Human scale
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
North facade
Wooden facade


A. Construction
B. Materialisation
South elevation
South elevation
Materiality & variety of details
Materiality & variety of details
Materiality
1. Social research  
2. Program  
3. The site  
4. Design research  
5. Design results  
6. Building technology  
7. Climate concept  
8. Conclusion
South facing photovoltaic panels on roof

Windows with a good U-value

Floor heating

Floor heating

Efficient insulation

Heat pump with geothermal heat exchanger

Seasonal storage in an aquifer

Light and air are automatically controlled based on use and need

Passive exterior sun shading

Cradle 2 cradle materials (Accoya wood) support a greener earth by being sustainable materials, eco-friendly manufactured and recycled at the end of its life-cycle

Glass with colloidal foil

Climate scheme
Windows with a good U-value
Floor heating
Floor heating
Efficient insulation
Heat pump with geothermal heat exchanger
Seasonal storage in an aquifer

Light and air are automatically controlled based on use and need

Cradle 2 cradle materials (Accoya wood) support a greener earth by being sustainable materials, eco-friendly manufactured and recycled at the end of its life-cycle.
Ventilation building extension
South facing photovoltaic panels on roof
Windows with a good U-value
Floor heating
Efficient insulation
Heat pump with geothermal heat exchanger
Seasonal storage in an aquifer
Light and air are automatically controlled based on use and need
Passive exterior sun shading
Cradle 2 cradle materials (Accoya wood) support a greener earth by being sustainable materials, eco-friendly manufactured and recycled at the end of its life-cycle
Glass with colloidal foil
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion

Climate scheme

- South facing photovoltaic panels on roof
- Windows with a good U-value
- Efficient insulation
- Floor heating
- Efficient insulation
- Heat pump with geothermal heat exchanger
- Seasonal storage in an aquifer
- Light and air are automatically controlled based on use and need
- Glass with colloidal foil
Ventilation existing building
Floor construction  Corridor
1. 8 - 15 mm Bodenbelag: Parkett bzw. Fliesen geklebt
2. 5 mm Kleber + Spachtel- und Ausgleichsmasse
3. 55 - 60 mm Anhydrit-Fleßheizestrich + Fußbodenheizung
4. 25 mm rolljet Dämmelemente 25-2 mm
5. 50 mm Ausgleichsdämmung WLG 040, PS 30 SE
   (als Install.-Ebene Sanitäri / Elektro).
6. ~ 155 mm Gesamtdicke

Bodenauflage  Platforms
1. 8 - 15 mm Bodenbelag: Parkett bzw. Fliesen geklebt
2. 5 mm Kleber + Spachtel- und Ausgleichsmasse
3. 55 - 60 mm Anhydrit-Fleßheizestrich + Fußbodenheizung
4. 25 mm rolljet Dämmelemente 25-2 mm
5. ~ 105 mm Gesamtdicke

Floor heating existing building
Green corridor
Integrated solar panels
Following the path of Duinstrook ..

.. in search of interaction through architecture.
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion
1. Social research
2. The program
3. The site
4. Design research
5. Design results
6. Building technology
7. Climate concept
8. Conclusion