Creating Hospitals without Walls: Addressing Health at the Level of Individuals, Communities and Globally David Allison FAIA, FACHA Clemson University European Healthcare Design | London 2018

Kaiser Permanente Small Hospital – Big Idea Competition Proposal | Aditazza

Creating Hospitals without Walls: Addressing Health at the Level of Individuals, Communities and Globally Why and What + Design Criteria and Strategies + A Tale of Two Projects +



Kaiser Permanente Small Hospital – Big Idea Competition Proposal | Aditazz

Houston, TX

Central Business District 40.8 million SF 1178 acres

Texas Medical Center 27 million SF 1000 acres

5 Miles

Hospitals and large medical centers are inherently like towns and cities

- 24/7/365
- All activities and events of life
- Constantly changing, evolving and growing
- Complex social, political, regulatory and economic forces
- Major employer and economic engines in their communities
- Significant impact on public infrastructure and the local environment

Given hospitals and medical centers have an implied if not explicit mission to protect and restore health [do no harm], they should represent best practices for creating healthy places



Healthcare organizations and environments should be designed to both promote and restore health at three scales:



Health Campus Without Walls

When we talk about designing for the health of the campus and the surrounding community, we must keep in mind that there is more than one type of health.

We can think of health as falling into 5 major categories

- A Montal
- 1 Social
- A. Physical
- A Economic
- 5 Enveronmental

Only by creating designs that keep all of those in minid can we create a campus that is truly a healthy urban design.





BEYOND HEALING

How do we **better** integrate a medical campus with the public community?

HEACTHY URBAN DESIGN OUDBLINES

Health Campus Without Walls How will the design that the boundary between the campus and its semandings?

Walls can be created anored our composes inmony ways. They do tool need to be physical wells tour rather are a result of how our composes must their urban context. While studying these transitions, we find that there are many different types of edges between apaces. These edges can manifest as hard edges that prevent movement through space, is soft edges that promote interaction between spaces or an screetling between the fee.



Health Campus Without Walls

In a well defined arter) campus, most of the boundaries between the campus and its context should be fluid, Rather than ligit "walls" we allould seek to design spaced that can be subject to a push and pull between the region and the campus itself. This fluidity allows for a biuming of the boundaries between what is campus and what is only. This fluining wiscuss that both entities react and onlich samother rather than immaining walled off neighbors.

- Intersperse clinical, research, academic, retail, residential and civic
- Blurred boundaries and transparent edges
- Indoor/outdoor public spaces
- Retail at street level
- Extension of the existing street grid and surrounding urban fabric

Create hospitals and medical center district "without walls" through mixed uses and blurred boundaries

DESIGN CRITERIA/ CONCEPT



DESIGN STRATEGIES

Ability to Accommodate Growth and Change

The ability to accommodate growth and change includes four aspects. Adaptability, Convertibility, Transformability and Espendability. Banner Estrella Medical Center

NREJ

Adaptability: the ability of the built environment to support a number of functions and provide reconfigurations without aftering the architecture or structure of the facility.

Convertibility: the stability to accommodate surviva functions through a certain amount of pre-determined construction durates in refer on communities durate an and committeeing for the responsions and accommode

Presidential Title all the about the intervence of each or a generation expected in response to each other than the dimet without the need for new construction.

Expand shifty: the replication and or expansion of existing facilities that if an be created at multiple locations and scales.

Why?

The follow demands for beaching we back and an arribe impressionality and challenging. These facilities are preserved with meeting countless reveals over the course of their links and adapting to everchanging readers bectmological advantation and adapting to everchanging readers bectmological advantation and adapting to everchanging readers. The factors Due to the reader of a second reader bectmolecture the factors. Due to the reader of the reader factors, here plat facilities much be hable advantation of a second factors, here plat facilities are defined and consists to maintain the factors for a second factor of a second reader of the reader factors are second advantation and the marks according to ever factors are second advantation and the marks according to ever factors are second advantation and the marks according to ever factors are second advantation and the marks according to ever factors are second advantation of a second reader of the producing mode second constant and marks and a high-seart of performance.

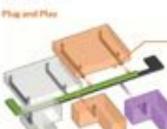
How to Implement

- Site Placement, By asseming accritain amount of obsolescence, demolifien and new construction can be made less destinative to the site and selding facilities.
- Intrastructure Standardization: Structural settlormity allows for increased flexibility in later years. Common types of standardization include modularization and grid based systems.
- Plag and Play: Greating permanent circulatory paths and infrastructure with the ability to connect resemudurarized facilities into the main structure.
- Determinative Zones: Clearly defining different 'hard' and 'soft' zoning regions, allowing for expansion and densolition without disrupting critical convections.
- Open-Ended Cleculation: Open ended halways which reach to buildings' facades, enabling future connections with minimal disruption to established corridors.
- Flexible Boundaries: Creating clusters with similar functions and elevinating hard boundaries between them, allowing for integration and flexible use.
- Shell Spaces Creating spaces that can support a diversity of functions while example in a programmatic relationships, until firmer programmatic determinations are made.
- Multi-Use Spaces: Creating spaces that can be stillard for universal and other high-volatility functions.
- Interstitial Please. Giving mechanical systems their own independent levels to shall ease of access and more sailly tacilitate reconfiguration, evaluation area of replacement with minimal dorugtion to daily activities.

Taxmen

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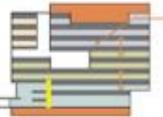
Strategies





Einfrastructure E Phase Three

Avteral III fiai Flears



HVAC

Universal Mechanisal Layer Public Devalor

Case Studies

Banner Ertrella Medical Contex Phoesix, AZ, USA NDEJ

Through the Integration of temporary jones connected through a permenant circulation core, Barner Estretia Hospital, by 10001, is designed to fiscibly adapt to charges in basimess, the market, and technologa. This revolutionary design was devised by planning backwards; first understanding where expansions revolution placed and then constructing the correct estating core and theilities. This agenual resumes that there will be adequate room and support for expansion.

mage Taponer Wall Second William Ten Character Statistic restors and the Constant Second Seco

Raleide Health Gates Vaccular Indition Refers WCUSA Yapdari Stadio of Carvor Design

This facility supports maximum flexibility through its universal structural grid system and shell-like interior spaces, which can be easily retrolited. Ceilings are kept at 19th height and services such as star and elevator cores are pushed toone side in order to allow for maximum flexibility-within the floors. Along with herizontal flexibility-within the floors. Along with herizontal flexibility-eightpeert and services are located in the "pertitioned" and bacement to allow for maximum-vertical flexibility.

Ang Second Way / New constraining communications have been







Diversity of Mixed Uses

The prevaiing conception of insults is evolving from a pathogenic model discussed on the treatment of illness), towards a subdogenic model froctient on tapporting health and excluses initiatives). This shift involves a wider programmatic diversity than what hus historically over incorporated into the programmatic diversity than what hus historically over incorporated into the programmatic diversity than what hus historically over incorporated into the programmatic diversity than what hus historically over incorporated into the programmatic diversity that what has been been been been applied with public activities within which medical activities for the side, to contart for patho and programming heapitals from simply places for the side, to contart for patho and programmatic life.

way

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As head because trends towards a population from the population beat to an extent of page with the community. To get person have extend in heads and ordered, head because facilities must because more installinely integrated ordered, and because facilities must because more installinely integrated to an extended of the Rest of a contegration of participate in public beats installine and provide the care. The need of participate in public beats installine and provide care. The need of participate in public beats in the descent and provide the care. The need of participate in public to so the rest legislicant may be accounted to be the solution of participate in public with other mere including, but not around the reliation of participate in public at 1 communities begin to including but not around the reliation of the solution of at 1 communities begin to including but not around the reliation of the solution of the solution of the reliation of the solution Baten Reuge Health District Perkins + Will

How to Implement

Strategies

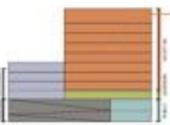
- · Use the ground plate to engage podestrians through atorefront access
- · Incorporate public spaces and gardens into the heightal prounds and landscaping
- · Enable care partners to engage in public life while on the hospital campus through the use of restaurants and rotal space.
- Repurpose meeting spaces for after-hour public recreational use (i.e. an auditor tem could be converted into a movie theater or public event space!
- a include Wararian so patients, family members, and the constantly at large have a space where they can learn and engage with their health.
- · Provide spaces for out-of-school learning for important children
- · Add in-house childcare facilities for hospital markers .
- · Decign spaces for informal gathering to fourier relationships between patients and care givens E.e. coffee shops or gardens!
- · Provide homporary housing for patients and families who would otherwise have difficulty commuting |
- · Create areas where patients can belorast with service animals as a means of alleviating dress
- · Add gyms which offer memberships to the public and provide space for patient rehabilitation.

Stralagic Community Plateoing and Zotong



Barton Barton (Barton Barton and a series

Programmalis "Maching"



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Batton Recept Health Diatels # Botter Rouge Loubiana Perils in + Will

Case Studies

The Baton Rouge Health District focuses on the growth between two regional medical centers. The district supports population health to prepare for the future of healthcare. Street improvements will create healthy transportation opportunities for the community and better efficiency for emergency services. Mixed use functions will improve the economy of the area ("eyes on the street" [Jane tacobs]), and will allow the medical content to compete with others on the national stage. Wellness centers, farmers markets, and parks will all be featured in the district.

Rictional Canver Canter

Rinde Janeiro, Brazif Carron Design

The hospital involves a partnership between private investors and the city government, which enabled its mixed use design. Included in the facility are shops, gardens, recreation spaces, an adult education center, public parking, and tow-income housing. The public spaces and veoldential areas don't interfere with the medical spaces, but are wowen in so thre still interact.

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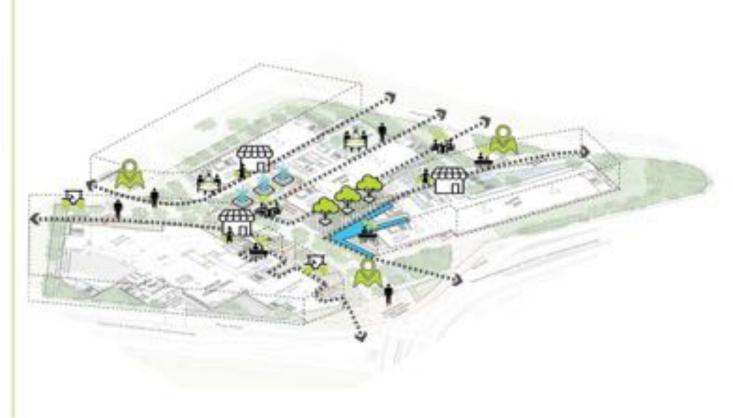


Active Public Corridor

How will the design activate the public space?

Importance:

Welcoming public space promotes mental and physical health among communities. The well-defined and accessible networks of public space create social interaction among local environment and communities.



Active Public Corridor

How will the design activate the public space?

Mixed-Use spaces

Mixed usespaces engage community and hospital in various levels. Retails, restaurant, and arts not only have positive influence on patients, but also draw residents from neighborhood to this Active Public Corridor. The vibrant public spaces encourage communities to gather for public events, stimulate face to face interaction, and promote public health.





Advanced West of Carton Secondary, Automotics

BEYOND HEALING

How do we better rotograte a madical compute with the public community?



alla plan diogram of the instruct medical centre [northering minimums -



BEYOND HEALING

How do we better integrate a medical compusation the public continuety?





Including Laboration of the

Public Spaces & Activities

¹A public space is defined as one that provides powers to all. It's a place induce people can compregate and engage is multiple activities, a place of measurement and flows and a place of e obtain leader through a place of space in place is and the place of e obtain leader through a place provide place is all cases they are normalized and end and end to be the second experiment. Job is all cases they are normalized and end and end the bound experiment. Job is all cases they are normalized and end and the bound experiment.

Public space is the event of the space of the order behavior is the stability functions of the space experiments and to influence the space is benefitient the surger community. Public space of and activities, choosed provide access to all in order, to energy a the boost community, and counts a pathening spective so definitions of a state of the second time. Public subtract spectree in the local confluence of a second of spectre the surger of a pathenet of the local confluence of the spectre of spectrum the surger of a provide structure.

Willy?

Well-designed and maintained public speech critical to the health of any CRs. Such pathening species allow for social mixing, chic participation, reconstition, and a semicarl belonging. Public special mixing to provide the fir events for any other annual facts that for og to prime diverse populations of the exts?

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In the Second March Strategy and Annual An

Focal Point Community Compus HDR

How to Implement

Programmatic Design Strategies:

- Program anique public territois and activities into the http://a comput such as community gardens, teaching kitchens, and/or recreational facilities
- Create an interface between healthcare and community to providing public services on or near the ground level

Spatial Design Strategies:

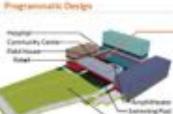
Healthcare public space can create a reencodole and positivie experience that helps the healing process. The unique functions of healthcare public spaces should be broken down into 4 topologies.

- Collector Spaces that are active and orienting, with high-population antinoise levels. Example: entrance lobby
- Introspective Spaces that accomodate high volumes but are personal, guieter and calming spaces
 - Example chapei
- Purpose Spaces that are dynamic and servicebased for specific functions and serving volumes. Example: diving hall
- Mover Spaces that feature constant envenent and ebb and flow of user volumes Example: public convidor

Destations

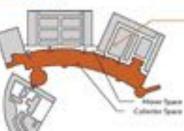
APA, Churadematics & Guidelines of General Public Species ABBL: The Royal Public Spaces Scientistics URENES: Inclusive Innually Assess for Public Space (TMM) Functing Public Spaces for Publics and Publics

Strategies



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Spotial Dwylgh



Case Studies

Focal Point Community Comput. Okcaps (Rinols HOR

Located in one of the most vibrant yet blighted neighborhoods in Southwest Chicago, the Focal Point Community Campus emblanes a public fealthcare setting that embraces its focal catemanity. Fitness centers and community services run along the 2nd floor, while the ground floor is wrapped in glass and provides welfness gordens and recreation areas for public use.

Design Reserves India, Source as Martin and Yilliam (Kinan yords on Bolgarian compared any and the architecture). (2010) 104: 87(2010) 001010 (1010) and calculated compared program (VII), and instance Trapp.



Cherokee Indian Horpital said, "We don't just used you to build us a building we want you to build us a beautiful building that the community absolutely loves, and that helps premote greater engagement from them." The design trans brought the local culture into the public spaces, especially the main concourse where a 'there' runs throughtart beneath the 'trees' crusted by the structure.

tinge laws in the loops for the strategy reports comprised in a second sec







Health Campus Without Walls Has sittle-teignblu the boundary between the campus and its surroundings?



Compensation of Automa

PROVIDE AMENITIES

When computes use some of their land to provide omerities to the community, they pull residents onto the comput and being the to the comput. Amerities are places which exist using for the objeyment of the usets, to emich the quality of their lives. They can loctude public art, thearties, parks and seating areas.



Sustainable Parking

Surface of the second second second of the second s

Why?

For healthcare facilities, subtainable panking strategies can treate a mute positive experience for all building uters. Additionally attimulating an integrated approach that avoids designing for a singular tanction can allow parking into to become productive "landscapes" with ecological pocial, cultural and echnomic benefits. Considering the expense of traditional parking structures, sustainable strategies may reduce future construction domands and building footprints it flexibly planned for reparposity. Integrating supplicable and the aptualic parking assists in into aving the environmental grafity, functionality, and efficiency of a site and improves the experience of patients, families and staff by creating a more calming atmosphere upon entry to the healthcare tacility. Creating perking areas designed with natural features such as native plants and shude three can decrease strets. As the temperature of artificial surfaces such as asshall and contrete can be delighted dearers report than vegetated surfaces, utiliting tree canoples to ingrease shade may ingrease the comfort level of users, decrease air temperatures, and counteract the "heat bland" effect, improving air quality and reducing airborne poliutants. A fid blorally, low-incosed perking for dealer reducer adormwater remoff and polytant leads

Technical University of Denmark Lyngby, Denmark

How to Implement

- Incorporate abovewater management systems. by designing parking tob with vegetated swales. inlitration trenches, rain gardens and bioretention areas.
- · Plant tree canoples over ground lors to counteract the "heat lotand" effect
- · Design to recycle raiswater ranoff for gray water alaps
- · Utilize permeable paylog materials to aid its Montheaster management.
- + Design tack-under parking areas to park underneuth raised buildings, conserving land 101936
- · If structured parking is necessary incorporate plantane/follage will his the structure to be used as a material rain-water filters before the water is alsorbed into ground.
- * Design for malti-ase programs, such as plau' esercise aron, cultural parposes and retal, including events such as farmer's markets. which can ultimately reduce land use.
- Divide lots into analier sections to minimize the overall parking lot scale and decrease travel distances.
- · Use rooftop tellion fabric over the top level of parking garages to reflect sunlight and reduce heat island effects.
- Use internal light wells to efficiently utilize. daylight.

Literations

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Strategies

Benduphankline Base Factor (Land



- Broad a lot of the state of the
 - Served in Sector Sectors
 - Tabateler plantings and tree takens

Mixed Use Parking Structure



- "Bentlair lasting."
- Second of the last of Wooldes.
- Handrohot participative and concerning at

Case Studies

Edwards Eardens Soulabiable Lots Inronto Octavio Canada Schollen & Company

The design of the Educatio Gardens sustainable particip for utilities a system of permeable paving materials, bioneules with aburdant native and adaptive trees and plants, as well as integrated salar panels. The design for the sustailuble parking ket incorporates measures that are alreed at encouraging filtration of pollutants and reducing runoH rates. Additionally, the parking ket integrates public art throughout to create a report active accelerors.

man frances. High how only again the set of an internet parties unline also parties introduct.

LAT Farback

Undertreath a green roof sockey field is a three story parking garage occased on the Southern Alberta Institute of Televisiony cannots. Designed by Ring Those Architects, the garage manimized parking usage by being underground and uno utilizes a preen roof to all in the Necation of rade water run off. Through the une of a usedflated mesh facade. energy use from reichotical conterns is reduced shat In passive ventilation and sam shading.

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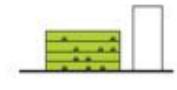


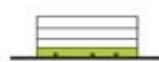
Calgary, Alberta Bing These Architecto

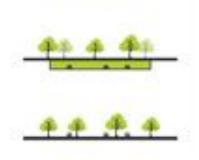
INTEGRATED TRANSPORTATION NETWORK

How will the design influence user movement through the site?











Separated Parking Structure (LAPD Hood guarters)



Underground Parking (Ripvelli, Don Hoag, Metherland



For himp Conditional Easther this Building | Mountain Disaffing Copyriliagen



Geograf Parling, Under Des Categy Keensland Kanitach, Lesington, Kenholty

Walkability & Alternative Transportation

Weiladoway and anternalise do not of transportation have a vital role in elevening rounds and access of all exempters of a deversion of Walkability of a size can be adviewed by providing buffering from traffic, continuous side-weike, identifiable and accessible crosswalks, restaress, shelters, and visual interest.

Alternative between action on the translated in various works can be communial or public first provide the second of the public first to be been deal to be of taking. Communiation to an excite the second of the public first to be been deal of the second of the second of stars and the second of the second of the to drive of walk for interpoled data and. One second actions to the transportations by bits excludes the second of the second of the public first and the second of stars and the second of the second public to the second of the second of the second of the second of the public to the second of the second of the second of the second of the public to the second of the second of the second of the second of the public to the second of the second of the second of the second of the public to the second of the public to the second of the public to the second of the to the second of the to the second of the second

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Indianapolis Culture Trail R.W. Armstrong & Rundell Ernstberger Assoc

How to Implement

- Blie racks and blie-sharing opportunities for patients, staft family members and the community
- Citue, safe, and accessible crosswalks and signage for predictives to be safe and have a clear walking path.
- · Traffic callering solutions for pedestriae safety
- Sheltered bus and taxi pickep/dropo/f areas for peteros, family, and staff
- Safe barriers between pedechlars and webicular traffic is ensure safety and a englocable experience
- Separation of traffic of cars, bases, bicycles and protestitians to ensure safety and a steady flow of traffic
- Provide outdoor commentity space such as gardeen, outdoor eating spaces, and protected outdoor waiting areas to engage people

(facilities)

falm, 4. (1922). Perpensian Austra an Altonated of Village (Brill). Reserve and Restley & Restard P. (17):8, 257 (27)8.

Parasette, S., Lourdon, V., Cachare, T., et al. (2006). 1 High Score associated with location actualizing from these diseases in Cachar (a Trans-score social and income with medianases in consolitation direction.

Strategies

Hite Sharing Program.



Distant Reportion of Softs.



Oregon Health and Science University Paralaxie OR City of Portland

Portland has an award-winning public transportation system that has bus, trans, and take markes running by its bespitule. The public transportation routes has brown for patients, and staff. At the bus stops there are abaltered areas protecting podettriant/non-the elements while they wait.

log-local-legisloss, type-statistic biol/52 have gained and and gain restriction that

Case Studies

Castle Rock Advential Height Castle Rock, Co Stue Navigston, Marketing Group

The Castle Reck Advecting Heightal has a free billie share program that allows the community to use 25 takes made available on the torquid's caregos. The bloes are totated as her different facetors in town, allowing people to rowelf on one place to acother while primiting health and welfamily for the community.

hap See Multi-back show you at the full of the orthe same 2010(





INTEGRATED TRANSPORTATION NETWORK

they will the danigs influence out misement through the site?

TRANSPORTATION NODES

Tranport Nodes help simplify travel through the city and offer a multitude of solutions.

Most cities have several large stations that serve as major hubs for buses and trains, but simple bike parking or storage at a mass transit stop provides a convenience.





Charter, Spins

Odynes, Linearthy

Health Campus Without Walls how will the design blue the boundary between the campos and its varioundings?



STREETS

PEDESTRIAN FRIENDLY.



And Streetweet and Streetweet and

Active Public Corridor

How will the design activate the public space?

Tempered green spaces

The green spaces with water features mitigate the environment temperature, filtering the air, and create pleasure environment for users. Also, the pleasure green spaces has the therapeutic impacts on patients in medical campus.





Computible Research Department Technological Entergine Surgeound

Easy Access and Legible Wayfinding

Ease access and legible wayfinding have as one elements the ability of an individual to...

- 1) know where he or she is.
- 27 know his to her destination.
- 20 know which route peta him or her to the destination.
- 4) know when he or she has reached the destination, and
- S know bow to retar n.

Provide memory conserve a river once a tespiral size operts the packs, visual case, configuration of spaces, landmarks, architectural differentiacion, written a of layout and signage work together to side people and ease their movement throughout the featblock of faithing.

Encot portaking stary access and legible wayfording into a headthcare facility is important for the searchest revigation of patients, that members, visions and staff or their appropriate beneaters. At a transmission perception or often at their mean extension factors from the feasible of a lower beminipore or or accessible factors from bolding meaning to definite the feasible extension and alternative from bolding meaning to definite the feasible perception.

Additionally, elderly seases a coperience difficulty or weeklinding due to our over services and means incomment. When also should seek to simplify wayfinding from the providence, while testance a strandally break frequent patiency.

UCLA Outpatient Surgery and Oncology Center Michael W. Felonis Architects

How to Implement

- · Clear entry segannee for arrival, drop off, parking, and return to main entry
- Clear site lines froei entronce to the street.
- · Views to the outside for campus orientation
- · Simple organization along a central spine
- Inclusion of identifiable landsmarks
- a Reducing the complexity of souther is the taciny.

G.e., multiple floors and moving between Sundingsi

- · Reducing barriers from the peneral travel TRUES.
- Consistent signage differenciating services

Linear we

Pair D. Forces, Transact., in Mills 19-A. A.Put. 1, 171218, concidence. staments of the beath care and a name cities cartolise at care of these 1410 Houdy Erok streets Associated Souge Institute R. 48.17

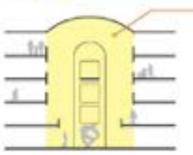
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Strategies

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Case Studies

Legacy Salwort Greek Houseful **Hancouser: Washington, USA**

BUJ Architects

The design intent was to create clean defenable circulation revolutes to orient patients, staff and visitors beginning at the first entry to the site. The hospital, medical office buildings and parking structure are linked by an enclosed pedestrian bridge system. The entry lobbles for each component are expressed as glass larterite. that provide welcoming and easily identifiable direalation paths.

Propietion of the press of the local design in the second second ----

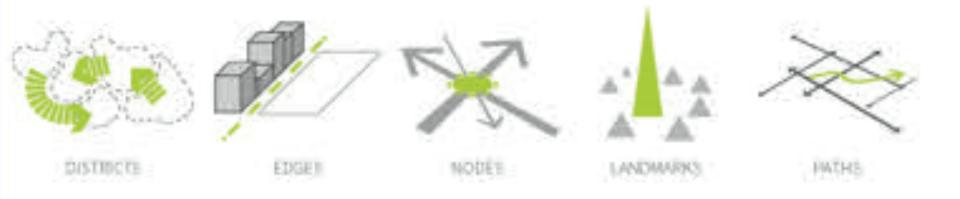
Orbia Mugligal Cantas Situry Geleen Nethorlands Holland Hospital Architects

Atrivity act as a references from multiple vantage points throughout the fadility Vicitars. are positively imported with a clear visual understanding of their orientation to side weighting, provide a consection to sature and a sense of retreat inside the building. Placing sculptures, fourtains, plants and monumental stairs in the atrium act as identifying landmarks. to guide individuals and foster social connections.

The Party of the Association of the Party of



The Image of the City | The Image of the Hospital and Hospital Campus *Kevin Lynch*

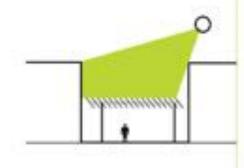


Active Public Corridor

Now will the design activate the public space?

Shaded paths

inviting walkways are created through the combination of proper pathways materiality, width, shading, and lighting. These shaded paths create pleasure environment for pedestrians to feel comfortable and sale as their journey to their destinations.





Congrue for Interaction and Technological Directories, Strigggord

Active Public Corridor

How will the distign as busis the public space?

Iconic landmark

Landmarks are the physical objects such as building, art monuments, and fountains which help people to sovigate along the corridor to their destination. The significant physical characteristic of landmark is singularity, unique, and memorable inlocal context, making the landmark a key element in allowing a user to identify where they are.





University Medical Cambridon Alignet, Netforland

Green Spaces, Roofs & Walls

Grows spaces are defined as landscape that are partially or completely covered with regetation such as trees, shrules or water features. These pieces of land are set askie for anothetic and functional purposes in the hull't anying memory of space are not such the point for and the interior of the facility and particle is part or not such the point for and the interior of the facility and particles parts are not such the point for and the interior of the facility and point of space are not such the point for and the interior of the facility and point only gardeen and can be used for recruitional purposes. The word "press" has also income predenence with the outlos of particles billing is the balling is factory.

Green spaces engender connections to both nature and other living organisms. The immer degrounders in notated surgroundings we attend at the healing process.

Views to makere are therapeutic and foster a proce of place. Creating spaces that provide primets staff and violans relief that the duity these erel. Their department of and work, shows for product Acada in the memory place and another thereas. The processe of service elater may also parently increased work officienty. The processe of service elater may also parently increased work officienty.

Additionally, preservation can reduce energy use and the carbon lootprint of the building, which is name will reduce its intervals costs. The preservation memory and preservation of preside energy and an angle prior to be the former space and environmental antervals on the reduce heat island effects on roots and assist with star measure runoff and hitration.

Swiss Re Office Building Hadi Tebrati

How to Implement

- Design letternal countryards to bring grownery totathe public spaces and compas.
- Locars hospitals near exhibiting parks and gardees and provide walknows to connect the facility to these areas.
- Provide attractive and vegetated public spaces on readings with sealing that are accessible to patients, have and staft
- · biogranie water features.
- Enhance the indexe waiking experience by designing meandering pathways and green carridors/that provide views to cature.
- Bring greenery into the main public spaces 3.n lobbes and waiting annual as well as into staff loange brask spaces.
- Incorporate sharmouter runoff management systeme into green species.

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Strategies

Greek Root State and



minute Courts and



Case Studies

Pulsonai Medical Contor Escandula, CA OD Architecta

Falamer Medical Center is a sustainable and high-performance healthcare backey that utilizes a group roof as one of their increative design strategies. The technology-estimates the book-cape on the ground level as well as one the root. On the root, accessibility is differentiated into distinct places, separated by level. Pared pathways also give when an opportunity to reprint a view from different variage points and provide patients the positive distriction of group speces outside their wirelows.

Mage Section Reporter Administrative processing and an activation

Devel Natur

Revel, Switzerkovi Herzog & de Meuron

future Furture uses places, gardens and internal countryants to attract and aid in the relatibilitation of patients. The internal countryaids are accessible garden spaces on the proved level and provide views from the circulation corridors above.

Photo: Driver of the

the local data and the local little law factories





Daylight & Connections to Nature

Description and connections to nature are two strategies almed at improving patients and staff mage limits and adheses. Displighting is the practice of playing windows or other bases and reflective surfaces so that during the description align area deer affective internal ighting. This can maximize visual conductions in relation and provide chernal ighting. This can maximize visual conduction and relation and provide Connection to rature involves facility the memory of the living and provide adjusted which deviates the tight & Connections may be visual to a logic grant of granteery through a windows), or physical (5.6 being able to wais through a gardier).

Improved Experience

Patients' reported experience and perception of care, which are tied to funding, relate to the Culit environment. Various designting techniques can be used to care to the two or diffuse lighting depending on the intended anglerised.

mproved Health

Dup-Ighting and provide sprace concerns to the set of the delegion powers, authors are connected for roll, remaining the relation and model Diral get also regulates classifier thereing (Dender, 2001), and enders, activation rules considered in termination (Select 2012), and reduces the Patrices and the part

Suitainability

Daysighting thrategies can inside and field fighting people. Greenway on bits carty educe beet bits of effects caused by inder viscos to fager, at well in filter and reduce runally and a second se Rush University Medical Center Perkins + Will

How to Implement

- Provide courtyards or occessible gurdens, using articulated or perforated place
- Use four to unling windows where possible, with dynamic shading systems for greater control of lighting
- Interformations may attitude been wood light from adjacent daylit spaces by using given partitions
- Exterior spaces can be programmed to encourage use
- · Provide skylights in patient roome
- Bringmature into the building by using plants, water features and natural materials such as wood and stones.

Greaters

Recent of al. (223) Perceptive Social Description of Perception States

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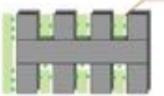
Sagha, S., Appa, H., Balk, D. & Carrenne, C. (1998). Whitians in the conjugate for light. New and assignified stress for deserver. Lifetonic, 2008, 199 (5).

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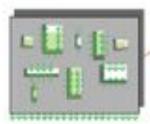
Hards, S. S. (2008). A deve file and it is address on a file or compared than an press barrier. 2018 422-422

Strategies

Arthoughted Plan



Perforant Plan



Case Studies

Convenity Hospital of Brasinshieg Brandwikeg Genery Hole, Wischer und Partner

Brandwrburg uwn the anticulated plan to maximign the ratio of extension walks to building ansa. Ribborn of windows along all of the Sacades aligns for eacy access to diarlight and viewsto hazars.

legge Second High Second Strength and Internet Providences, Ripology (Derephonesy on No. 1996) 7. Epidemiol. 21. 1996

10. Automics Zulandack Downlot Unicit, The Netherlands De Jong Gestevnaker Algris

While the patient towers use an articulated form, the base of this project uses a central, dayfit, multi story at ign to bring borrowell light into various losser departments.

long forms till street des letters from annual mentor

Basel Bellati Barel, Switzerland 2017, Harring & sie Mauron

Benef Dohah as a healing environment is characteriped by its use of programmed counts ands in a performed plan. Upon enterving the facility, there is an immediate view to preef the outdoor spaces. Another daylighting strategy used is stylighting, included in all ingetient scores.

Nega Yaarine Maarinnaa galiga keelaa ahii yaanin kaariitaa misaa Kaaringin

S Inf finaciestory Partner entroduced plan to restance all of the







Articulated and Perforated Building Forms

POCKET PARK

A pocket park is defined by thelarge buildings and context surrounding it. It can be useful as an extension of the building's usage.

- Historic Marker
- + Alt Gallely



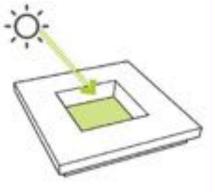


Articulated and Perforated Building Forms



COURTYARDS

Daylight Intervention: Daylight intervention in the courtyard can improve the quality of the interior lobby space, which attracts more people to stay in the courtyard and feel comfortable.



A Tale of Two Projects

Northwestern Memorial Hospital



University Hospital of Basel

- AUR



Hospital as Neighborhood Center Northwestern Memorial Hospital | Chicago, USA



1.0

Ċ "Magnificent Mile" Ave **Michigan**

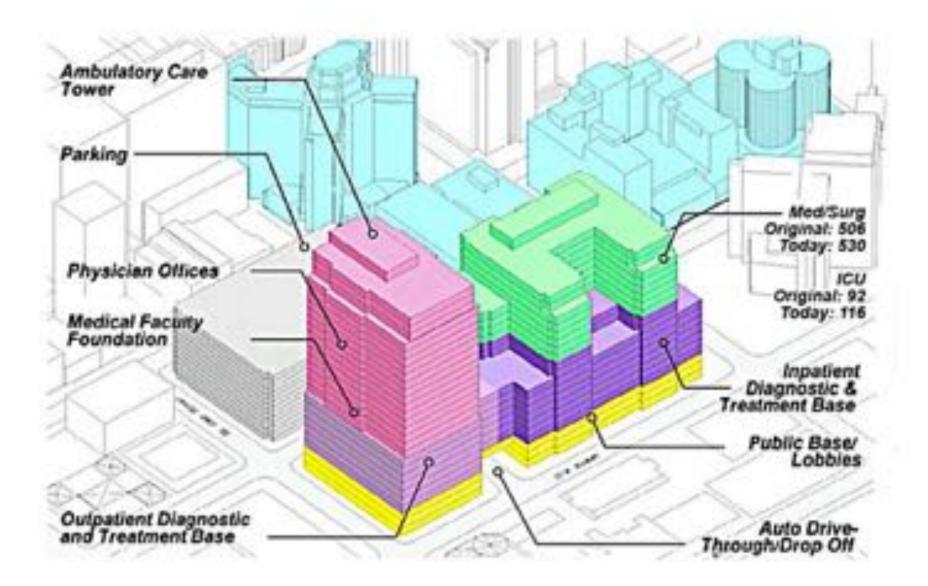
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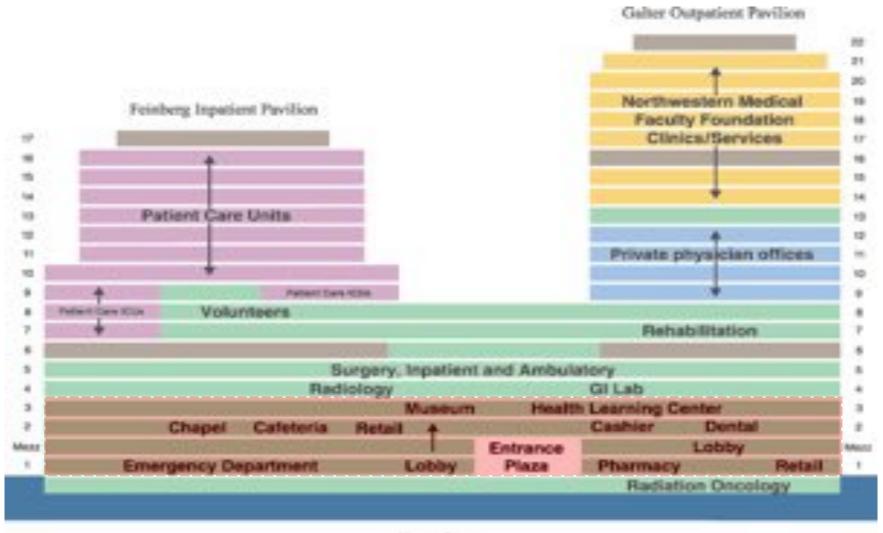
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Huron Street

Places & Pathways for All

Northwestern Memorial Hospital | Chicago



Green Streets as Buffers

Northwestern Memorial Hospital | Chicago

Places for Movement and Pause Northwestern Memorial Hospital | Chicago

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Hospital Campus as Urban Park University Hospital of Basel | Switzerland

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Hospital Campus as Urban Park University Hospital of Basel | Switzerland

A place to meet and commune

University Hospital of Basel | Switzerland

A place of respite for staff

University Hospital of Basel | Switzerland

A therapeutic place for patients

University Hospital of Basel | Switzerland

A place to relax for all University Hospital of Basel | Switzerland

Proposed Focal Point Community Medical Center: Chicago | HDR

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Creating Hospitals without Walls: Addressing Health at the Level of Individuals, Communities and Globally

Questions and Discussion

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Kaiser Permanente Small Hospital – Big Idea Competition Proposal | Aditazza