

العمارة الداخلية لمستشفيات الأطفال The Interior Architecture of Children's Hospital

رسالة مقدمة من

للحصول على درجة الماجستير في الفنون الجميلة

قسم الديكور - شعبة العمارة الداخلية

إشراف

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بِنَ لِيَّالِكُمُ مُلِ الْحَجَابِ



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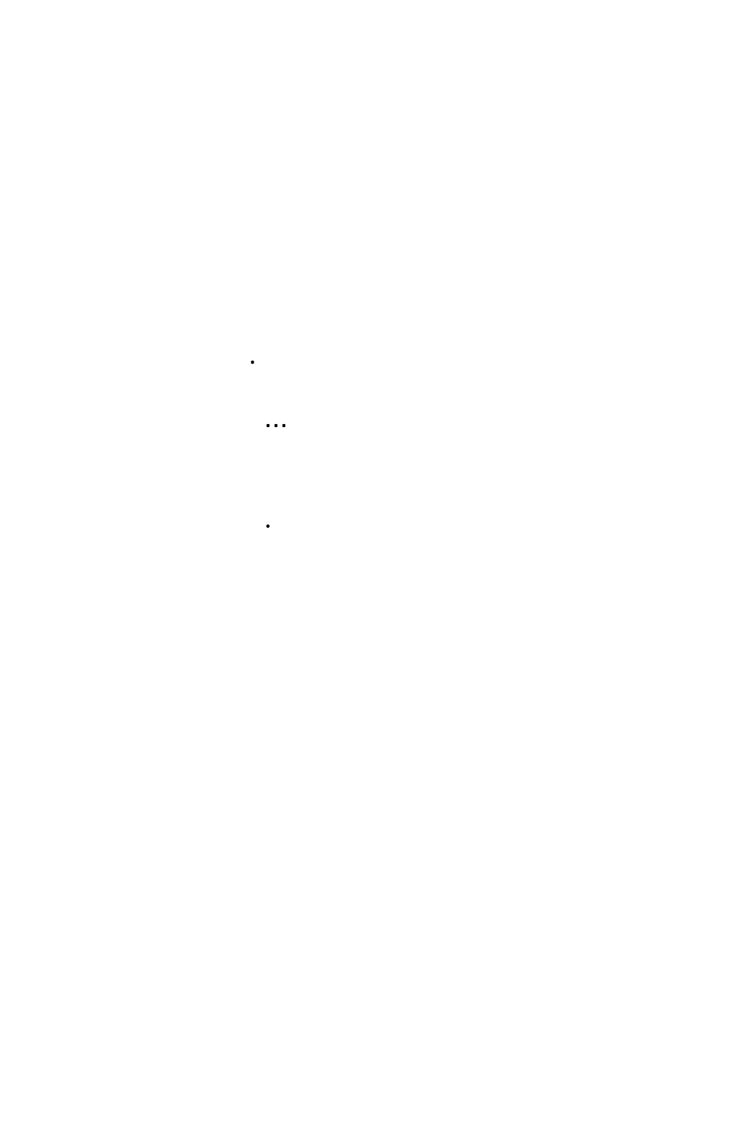
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إهداء

إلى من سالت دمائهم الذكية على أرض مصر تعطر أرجائها... وترفرف أرواحهم فى سمائها فصارت بحوما تلألأ ... أضاءت عيون الوطن لتبصر فجرا جديدا إلى شهداء ومصابين ثورة 25 يناير إلى الأبطال.. الأخفياء.. الأتقياء

إلى أسرتى الغالية
(والداي وأخوتي وجدتي)
وإلى كل من ساندىجراكم الله خيرا



فهرس محتويات البحث

الصفحة		الموضوع
		المقدمةا
	،الأهمية ، الهدف ،حدود البحث	مشكلة البحث
	منهج البحث	
	الباب الأول : نشأة المستشفيات وتصميمها	
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فهرس الجداول

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فهرس الأشسكال

رقم الصفحة	الموضوع	رقم الشكل
	(GERCO – ROMAN- IATRIA)	
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	Children's Hospital of Pittsburgh	
	WakeMed	
	Nationwide Children's Hospital	
	Suzhou Children's Hospital	
	(Family Room)	
	(Pantry or Dining Room)	

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Louis Children's Hospital	
Children's hospital in Chicago	
Children's nospital in Chicago	
Rady Children's Hospital	
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CHILDREN'S HOSPITAL EDINBURG	
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Dell Children's Medical Center	
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Fort Memorial Hospital Campus	

The Royal National Orthopedic	
Dell children Medical Center	
Phoenix Children's Hospital	
Children's Hospital of Eastern Ontario	
Missouri Baptist Medical Center	
(Mark best hospital)	
DENVER CHILDREN'S HOSPITAL "Way finding "	
Harbor California	
Tim ooi Camonia	
Edinburg Children's Hospital	
Sunrise Children's Hospital	

Children's Hospital Westmead	
UCSF Benioff Children's Hospital	
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Benioff Children's Hospital	
Phoenix (– –)	
(LED) Children's Hospital	

Ireland Children's	
Hospital	
CHILDREN'S HOSPITAL AT MONTEFIORE	
University of Chicago Children's Hospital	

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المقدمة

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الباب الأول

تطور نشأة المستشفيات وتصميمها

الفصل الأول

مقدمة تاريخية عن تطور الفكر التصميمى في بناء المستشفيات

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: Medicine at the ancient Egyptians

قبطرة صدام تلاتي نصل المتربط نصل السكان خطات منطقات منافع السكان منافع منافع المتربط فطات منافع المتربط فوارير الحقن منوان منافع منافع المتربط فوارير الحقن منصات مراهية منافع المتربط في المنافع منصات مراهية منافع منافع المنافع منافع المنافع منافع المنافع منافع المنافع منافع المنافع منافع المنافع المن

- httpwww.antiquemed.cominvention.html

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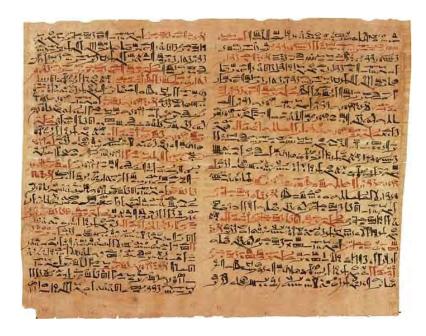
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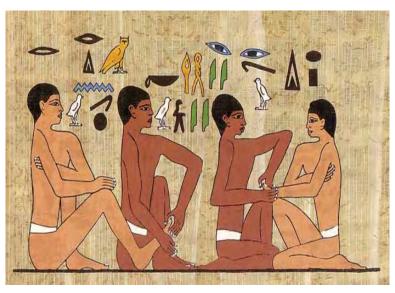
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http://www.crystalinks.com/egyptmedicine.html -

http://www.crystalinks.com/egyptmedicine.html -

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:Christian ages

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"Pavilion Wards" (St- Jerome)

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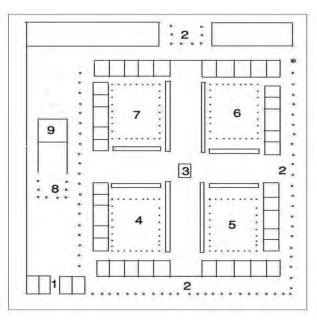
: Renaissance

"Ospedal Maggiore"

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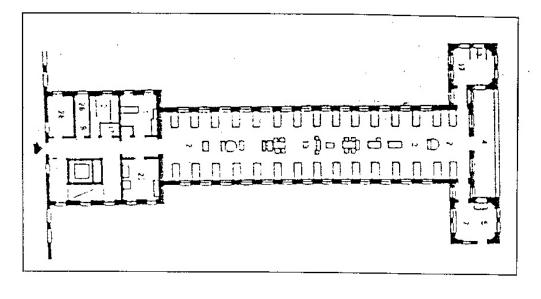
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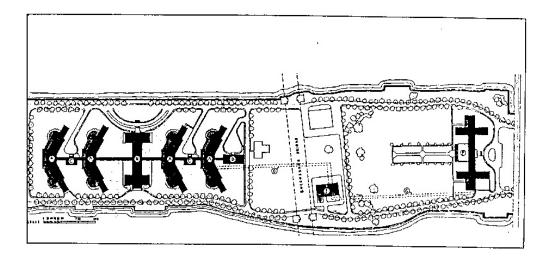
Design for hospitals in the middle ages:

.(Florence Nightingale



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History of hospitals in the Islamic State:

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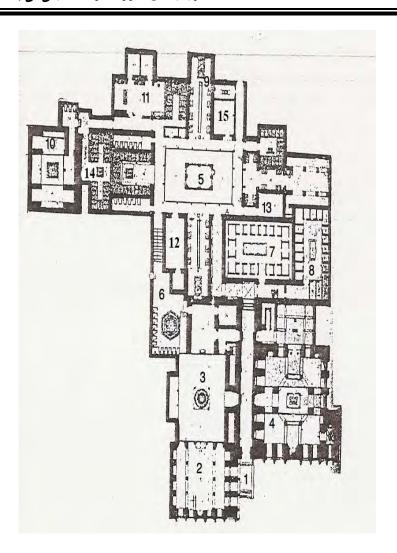
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٣ - المقريزي ـ تقى الدين بن أحمد بن عبد القادر ـ (المواعظ والإعتبار بذكر الخطط والأثار)- طبعة بولاق ـ

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مقدمة تاريخية عن تطور الفكر التصميمي في بناء المستشفيات

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Globally construction history of children's hospitals

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. Children's Hospital Boston 1979

- Children's Hospital national ۱۸۷۰ الأهلي بواشنطن ۱۸۷۰ المركز الطبي الأهلي بواشنطن ۲-۸ Medical Center in Washington, D.C,
 - ۳- مستشفی أطفال سانت ماری ۱۸۷۰ St. Mary's Hospital for children
- 4- مستشفی سی شور هاوس بمدینة أتلانتیك ۱۸۷۰ Children's Hospital seashore house مستشفی سی شور هاوس بمدینة أتلانتیك ۸۲۵ Atlantic City
- ٥- مستشفى سانت كريستوفر بفلادلفيا ١٨٧٥ Christopher's Hospital for children, ١٨٧٥ Philadelphia
 - ٦- مستشفى سانت لويس للأطفال ١٨٧٩ Louis Children's Hospital .
- ۷- مستشفی میموریال للأطفال بشیکاغو ۱۸۸۲ Children's Memorial Hospital ۱۸۸۲ ریال للأطفال بشیکاغو Chicago.
- ۱۸۸۳ Children's Hospital Medical Center ۱۸۸۳ مستشفی المرکز الطبي بسینسیناتی Cincinnati,

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Local Construction history of children's hospitals:



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http://www.medicine.cu.edu.eg/beta/images/stories/jap.png -

الفصل الثاني

مستشفيات الأطفال (المفهوم – التصنيف – أسس التصميم)

١-٢-١ تعريف المفهوم العام للمستشفى:

:The concept of Children's Hospital

ً - سلسلة التقارير الفنية لمنظمة الصحة العالمية ، ١٩٧٥ ، رقم ١٢٢، ص ٤ ً - منظمة الصحة العالمية ، إدارة المستشفى ، سلسلة التقارير الفنية رقم ٣٩٥ ، جنيف ، سويسرا ،١٩٨٠ ، ص

۲،۷

Υ- Gish, Oscar - Guidelines for health planners: The planning and management of health services in Developing Countries- ۱۹۷۷- p ٤٢, ٤٥

: Classification :Owner :Types

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⁻ bridgman, R.F., The importance of legislation and Adminis For Medical Facilities , with special reference to developing tration countries , in Approches to planning and design of health facilities - p

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•	: locatio	n
	() : Size of the hospital	

:Design stages of the hospital : Hospital site

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:Way to get to hospital

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:Hospital direct

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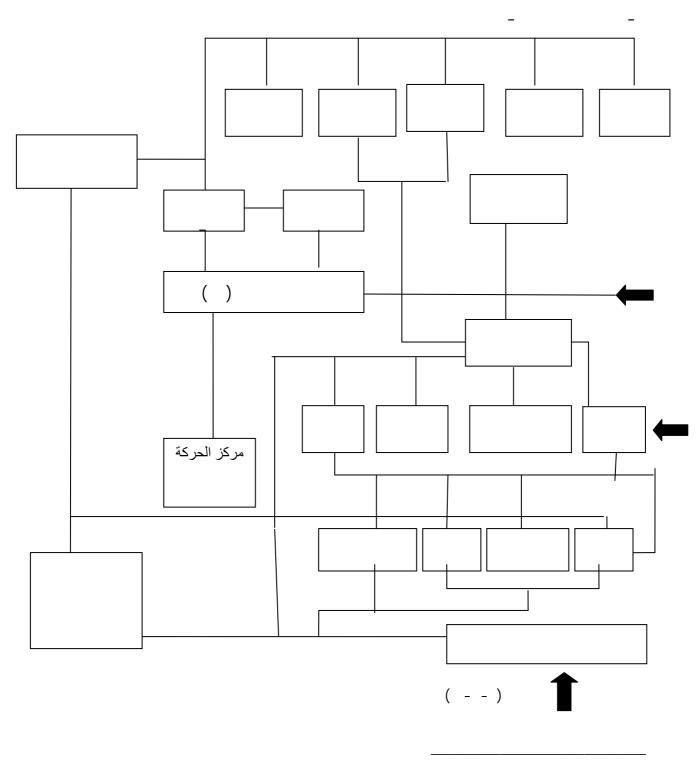
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- للمستشفى:

يمكن تقسيم عناصر المستشفى وظيفيا إلى ٦ أقسام أساسية هي:

١- وحدات التمريض ٢- أقسام الكشف والعلاج -



Basic considerations in the design: العادية المستعملين User participation: ١-٧-٢-١ human dimension in the design: : Susceptibility to an extension

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: Flexibility

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(system of construction) -

١-٢-١ الإعتبارات التصميمية لمستشفى الأطفال:

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 $^{^{\}prime}$ - محمد ماجد خلوصى – المستشفيات و المراكز الصحية و الأجتماعية – مرجع سابق - ص $^{\prime}$

"Lobby"

- Komiske, Bruce King - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume — Iamges Publishing, Australia — page

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Chiklent) (fru:

Children's Hospital of Pittsburgh

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WakeMed (- -)

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⁻ www.pervisioncompany .com case-studies/wakemeds-fundraising-advantage/

Children aged ('- ' months): (-) - Series, Stephen A.Kliment- Building type basiscs for health car facilitities – published in Canda- p

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- Maklin ,Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA – - p The role of design in reducing the chances of transmission: (Environment Design) **Exploit the potential visual** - Zakia Hassan Shafey , B.Sc.(children s hospital) University College , London - Tourism Ministry; Reqirements for Eco-lodge design in Egypt tourism

nent Authority, Cairo, p. p. محمد جمال الدين الفندي – طبيعياات البحر وظواهره – مكتبة النهضة العربية – القاهرة – ص $^ au$

development Authority, Cairo,

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: Importance of the nature

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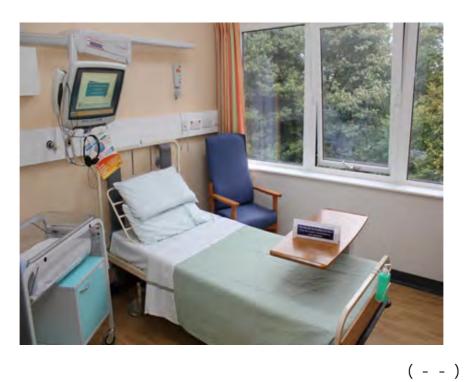
Nationwide Children's Hospital

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Sushi Children's Hospital "

- www.newswise.com/articles/nationwide-childrens-hospital-to-break-ground-in- -for-third-research-facility-as-final-piece-to-expansion-plan

۲- http://www.archibaseplanet.com/blog/view/۳۲۷٤.html



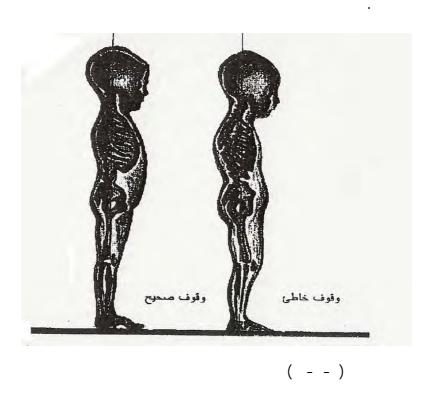
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: Ergonomics

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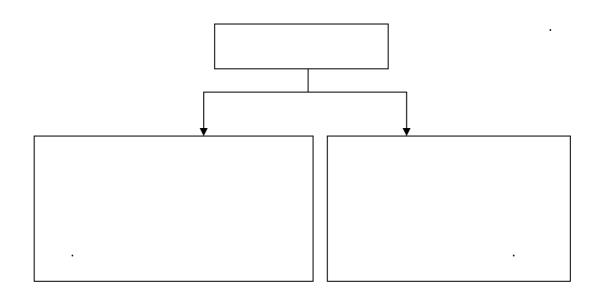
: Concept of Ergonomics - - -



:Anthropometry (Metrikos -

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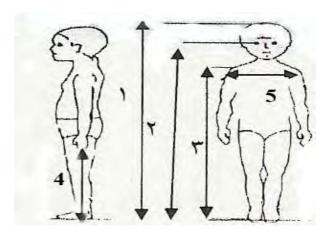
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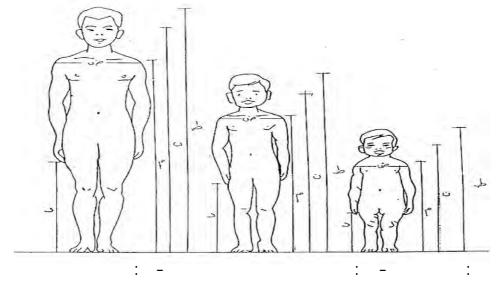


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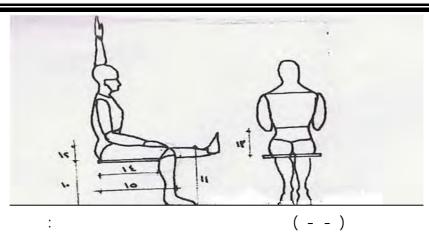
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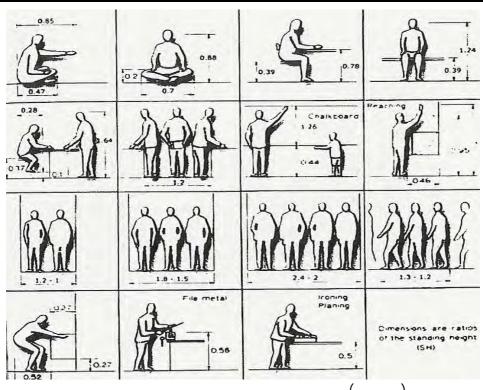
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الفصل الثالث

الإحتياجات السيكولوجية للطفل داخل المستشفى

مقدم لم

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: Psychological needs

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-Maklin Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA – ۱۹۹۲ – pages

- Nightingale, Florance, "Notes On Hospitals", Longman, Green, London

: The importance of the family



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^{\-} Maklin \Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA – \\997- pages



(Family Room) (- -)



(Pantry or Dining Room) (- -)

El Camino Lucile Packard Children's Hospital

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^{&#}x27;- http://www.millicanjones.com/healthcare- • ^.html

: Social communication



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^{\-} Maklin \Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA, 1997 - pages 171

:Harmony

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^{\-} Maklin \Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA – ۱۹۹۲pages, 171

⁻ www.mca-architecture.com/portfolio/hope_children.html\
- http://www.christnerinc.com/img/projects/\(^\cdot_\cdot\^\cdot_\cdot_\cdot\)_enlarged.jpg

:Comfortable

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:Access to outdoors

 $\verb|\ - http://www.mmf.umn.edu/children/ch/\verb|\| \cdot \verb|\ \wedge /spring/adopt_a_rooms-MMF.cfm|$

⁻ Maklin Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van Nostrand Renhold company – USA – pages - pages ,

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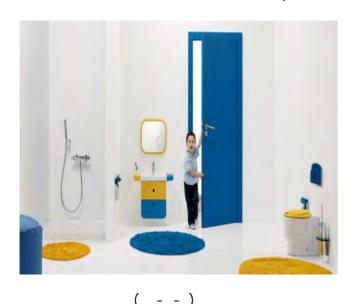
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	:Privacy	
Designing for		(senses)
		(senses)
	:security and safe	
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٤- C.M, Deasy.in collaboration with Thomas E.lasswell,"Designing Places For People A Handbook on Human Be havior For Achitects, Designers, and Facility Managers" The Whitney library Of Design, V.S.A - ۱۹۸۰

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:consideration of child scale





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 $[\]hbox{$\xi$- http://uuldesign.com/home-decoration/bathroom/kid-bathroom-design-for-home-kindergarten-and-children-hospital/}$

:Play \'- Komiske , Burce king , Fache – Desgining the world best children hspitals – Iamges Publishing, Austraila 1999 – pages 10

.(Conversion plays environments to therapeutic environments " Multisan sensory play bad" Bacilo "Motor control" -Mediaprint -

:Play room	
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: Area for manual games	
:Artworks area	
.Aitworks area	
:Spaces allocated to the cubes	
-:Moving area	
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: entertainment	
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Louis Children's Hospital





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- http://www.thematicsdesign.com/rcProd\.asp?id=\"\&c\=\circ\"

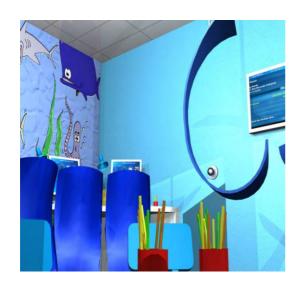
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⁻http://thecenter.typepad.com/center_for_the_arts/outreach





شكل (۱-۳- ۱۹) المسقط الأفقي لحجرة اللعب بمستشفى Children's hospital in Chicago





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-Senda, Mitsure – Design of children s play environment – Published by McGraw-Hill

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- Komiske, BruceKing - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume — Iamges Publishing , Austraila — page

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الباب الثاني

مكونات العمارة الداخلية لمستشفى الأطفال

الفصل الأول

المعايير التصميمة للحيزالداخلي

: The exterior design

Komiske, Burceking Fache (Editor) – "Desgining the World Best: Children's Hospitals", Images Publishing, Australia – pages

⁻ Komiske, Bruce King - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume - Images Publishing, Australia - page,





Rady Children's Hospital

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EDINBURG CHILDREN'S HOSPITAL في تكساس r

- - Komiske , Burceking Fache - "Desgining The World Best: Children Hospitals" - Iamges Publishing , Australia - pages

http://www.orchidsandonions.org/Y・ソ・/・۸/۱٩/rady-childrens-hospital-acute-care-pavilion.

- http://entertainmentdesigner.com/gallery/edinburg-children's-hospital/.

Green spaces:

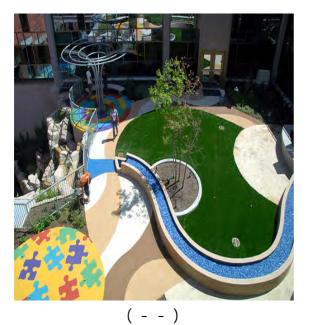
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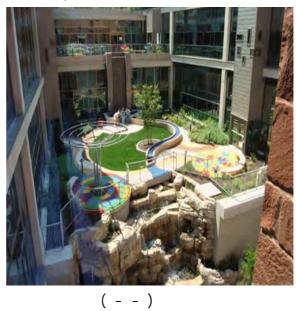
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⁻ Komiske , Burceking - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume $\,$ - Images Publishing , Australia $\,$ - page $\,$,

⁻Komiske , Burceking –" Desgining The World Best: Children Hospitals"– Images Publishing Australia – pages





Dell Children's Medical Center





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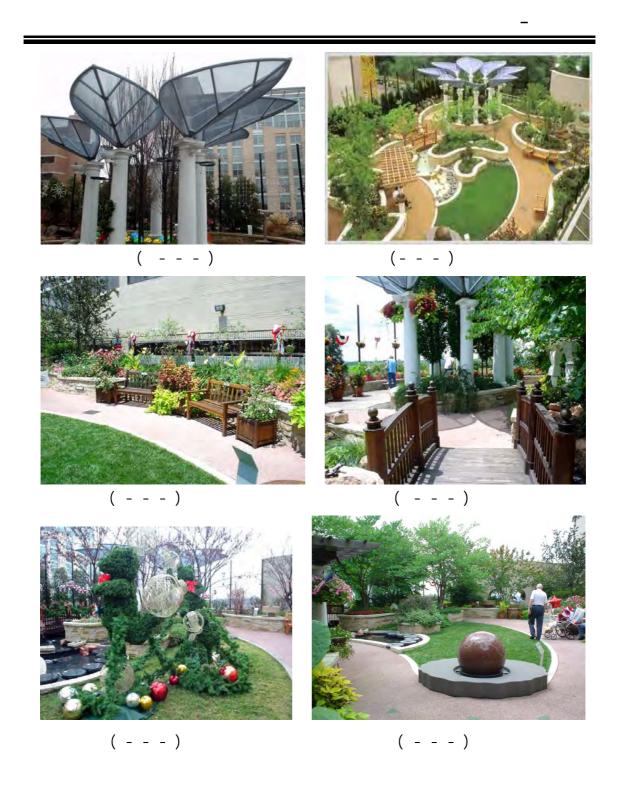
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/in/photostream/

^{&#}x27;- Komiske , Burceking - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume Υ – Iamges Publishing , Australia $\Upsilon \cdots \circ$ – page $\P \P$

T- http://www.jetsongreen.com/T • • V/) T/first-leed-plat.html

⁻ http://www.flickr.com/photos/tranquilityknots/



 $[\]hbox{- http://www.greenroofs.com/projects/pview.php?id=} \\$

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: Design of interior space

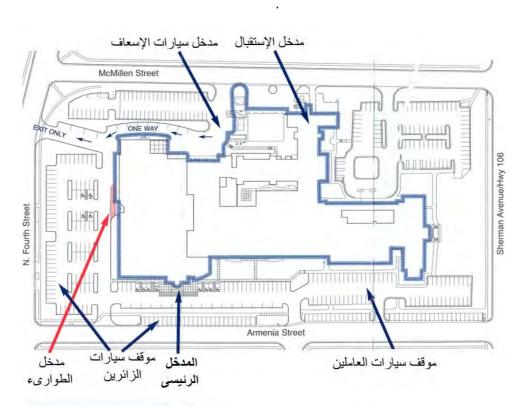
:internal Architectural elements

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وحدة النمريض (- - -)

⁻ Komiske , Burceking Fache – Desgining the world best children hospitals – Iamges Publishing , Australia – pages,

:External entrances



Fort Memorial Hospital Campus (- -)

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CONSULT CONSULT EXAM ROOM

CONTELLOUNCE 21.337 WASH

CONSULT EXAM ROOM

شكل (٢-١-١) المسقط الأفقي لمنطقة الإستقبال بمستشفى 'The Royal National Orthopedic

 $[\]verb|\label{thm:linear}| - http://www.rnoh.nhs.uk/about-the-rnoh/bolsover-street/the-facilities$

: The lobby -

" counter"

: security room

: Information Counter

:Main Reception Counter



(- -) Phoenix

^rChildren's Hospital



Dell children Medical Center

 $- httpwww.glumac.comgreen Resources newsletter Newsletter_Issue$

^{*} - http://www.bogoraya.com/interior-design/interior-design-phoenix-childrens-hospital/

: Waiting areas

- Komiske, Bruce King - Designing the World's Best Children's Hospitals The Future of Healing Environments- Volume $\,$ - Iamges Publishing , Australia $\,$ - page $\,$,

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: Waiting seats

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شکل (۲-۱-۱۰)

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يوضحان نموذج لمقاعد الإنتظار بمستشفى 'Children's Hospital of Eastern Ontario و مستشفى Missouri Baptist Medical Center

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 $\label{eq:capplied} $$ $$ `-www.applieddesigns.ca/children/index.htm -www.missouribaptist.org/?id=$$$ $$ $$ $$ $$$

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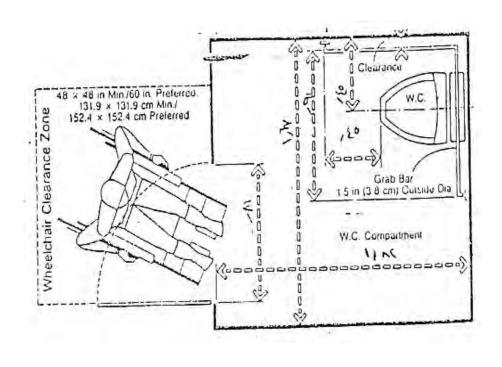
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:Toilets - - -

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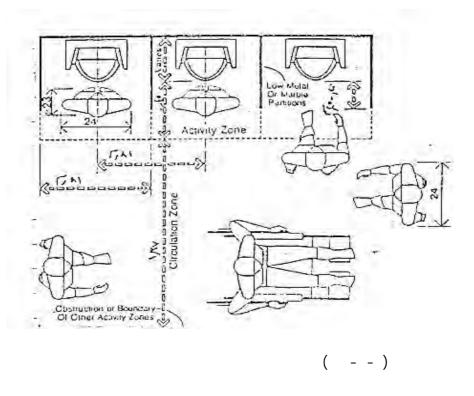
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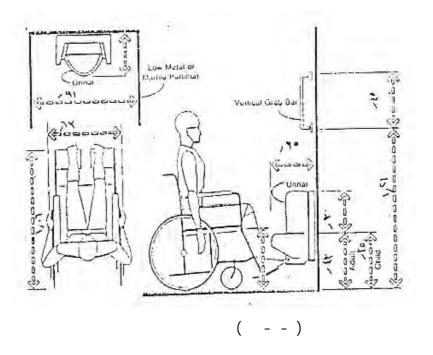


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- Maklin Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van No strand Renhold company – USA – ۱۹۹۲-pages ۴٤٧

-Julius Panero, Martin Zlink, Human Dimenion, Interior Space, Whitney Library of design, , p

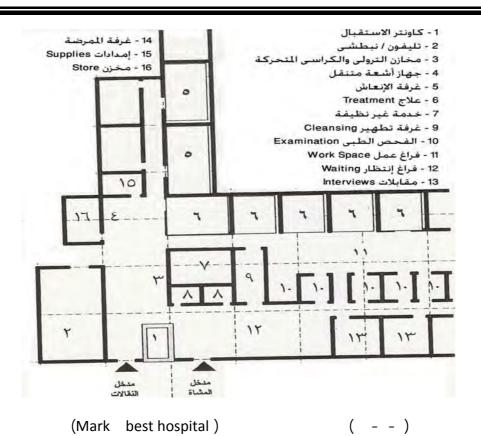




-Julius Panero, Martin Zlink, Human Dimenion, Interior Space, Whitney Library of design, , p

	:Emergency	
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	 " cubicle	s "
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- Maklin 'Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van No strand Renhold company – USA – ۱۹۹۲ - pages ۹۲



: Internal Traffic

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(cul-de-sac)

:corridors

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أبعاد تقابل ممران أو تقابل أسرة مرضى

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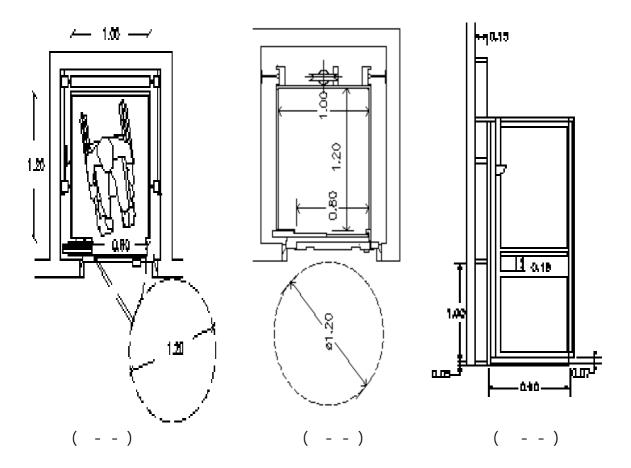
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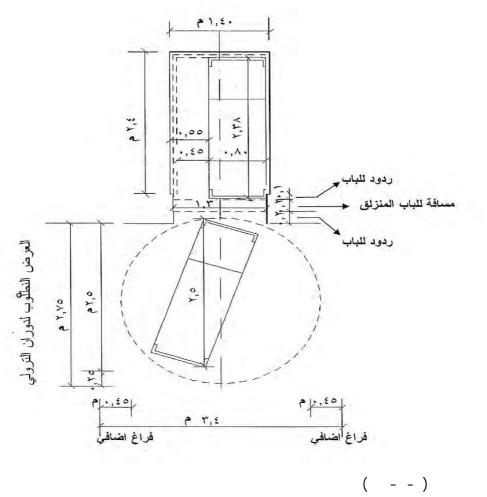
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-http://www.bibliocad.com/library/people-with-disabilities/wheelchair-ramps-special-elevators/



: Stairs - - -

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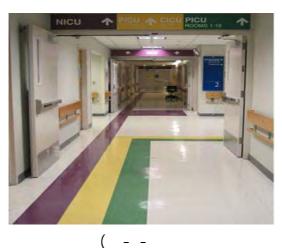
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ا - عرض البسطة الذي يسمح بدوران المرتبة = ٢,٨ عمق البسطة الذي يسمح بدوران المرتبة = ٢,٨ ب عرض القلبة = ٢,٨ ب حرض القلبة = ١٠,٠ وفي حالة الرغبة في مرور شخص بجوار هروب المرتبة تكون الأبعاد كالتالي : ا - عرض القلبة = ١٠,٨ ب ب - عرض القلبة = ١٠,٨ ب ب - عرض القلبة = ١٠,٨ ب حرض القلبة = ١٠,٠ ا
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"way finding"





يوضحان إستخدام أسلوب " Way finding" بمستشفى DENVER CHILDREN'S HOSPITAL لتسهيل الحركة للزائرين والوصول إلى الأماكن بدون تشتت "

:Direct -

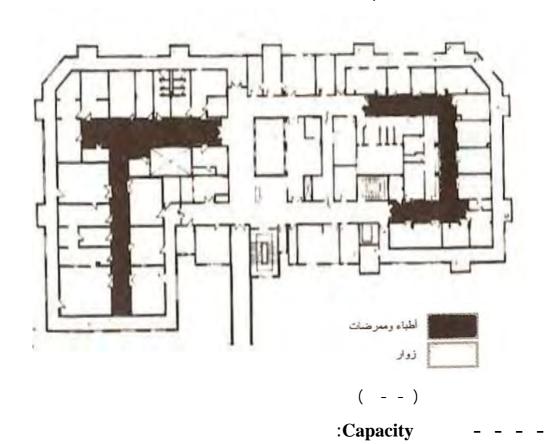
:Specialization

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⁻ Komiske , Burce king – Desgining the world best children hospitals – Image Publishing , Australia – pages,

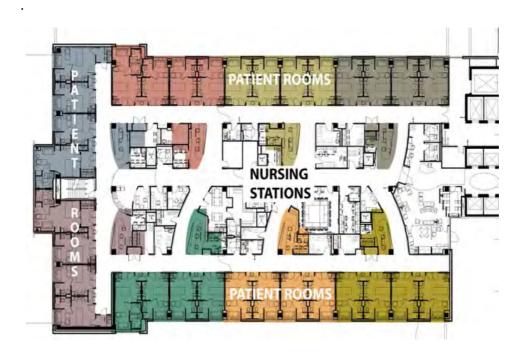
Υ-http://www.inktankdesign.com/portfolio.php?cat=environment



*Confirm the intersections والعناصر الهامة كالماكيد التقاطعات والعناصر الهامة

: Hospital interior corridors

Vista



(Traffic separates)) -

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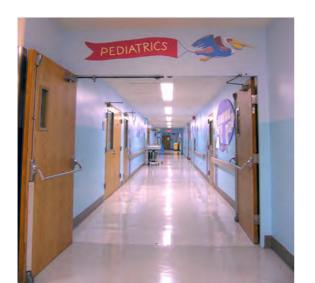
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Harbor California

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Edinburg Children's Hospital

Children's Hospital of Philadelphia

^{\-} www.muralenvironments.com

Y- http://www.focusegd.com/edinburg.html

T-http://www.thelightingpractice.com/projects/childrens-hospital-of Philadelphia/

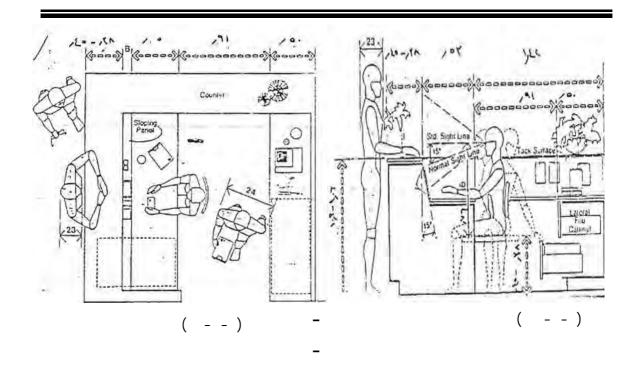
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Sunrise Children's Hospital $^{\mathsf{T}}$ محطة التمريض بمستشفى (۲-۱-۲) محطة التمريض

'- وليد عبد المنعم عبد القادر – المتطلبات التصميمية في المستشفيات العامة – مرجع سابق -ص١٦٠ '- http://sunrisechildrenshospital.com/our-services/picu.dot



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-Julius Panero, Martin Zlink, Human Dimenion, Interior Space, Whitney Library of design, , p

– Series, Stephen Kliment- Building Type basics for health care Facilities – second edition – printed in USA – $\,\,$ – p

^{*}Children's Hospital Westmead

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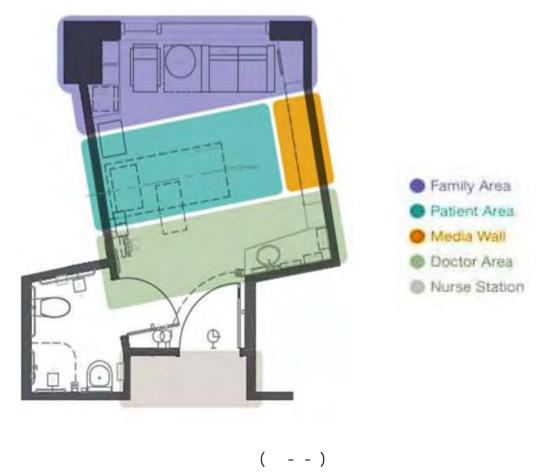
- Maklin 'Jain - Hospital interior architecture Creating Healing Environments For Special patient populations – Van No strand Renhold company – USA – 1997- page

http://www.govarch.commerce.nsw.gov.au/projects.asp?PT=\&SI=\&PD=\&CP=\Y.



UCSF Benioff Children's Hospital

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\u00e4- http://missionbayhospitals.ucsf.edu/facilities/childrens-acute-care-patient-room.php

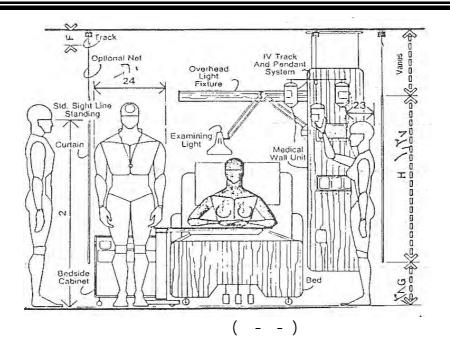


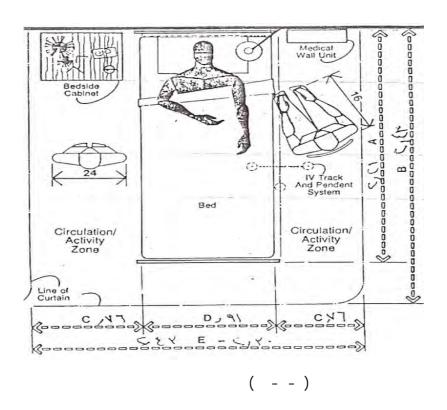
Media wall (- -)



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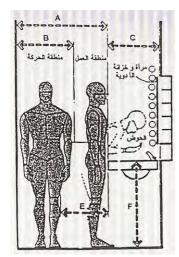
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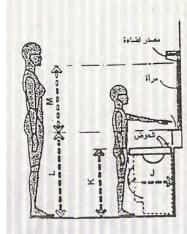




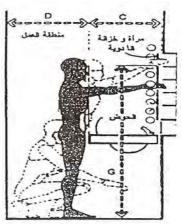
-Julius Panero, Martin Zlink, Human Dimenion, Interior Space, Whitney Library of design, $\,$, $\,$ p $\,$,

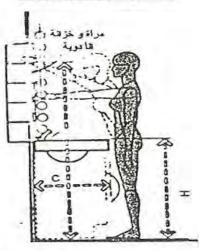
Garb-bar .Toilet Paper holder -(





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:Exam Room

Activity Zone

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⁻ Julius Panero, Martin Zlink, Human Dimenion, Interior Space, Whitney Library of design, , p

:Treatment rooms

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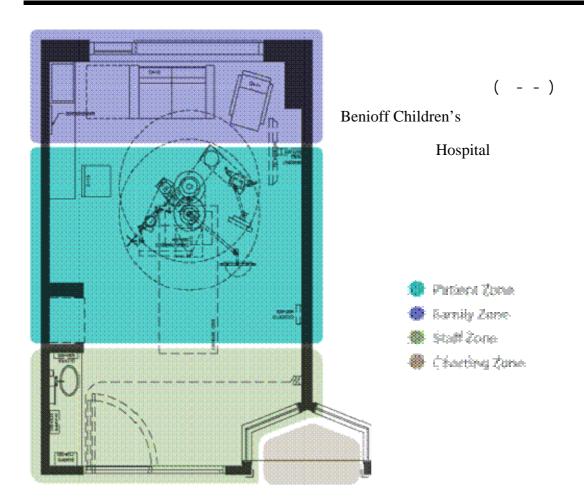
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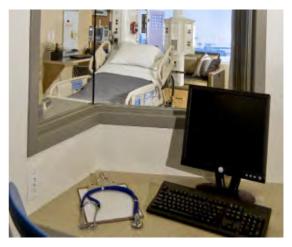
Benioff Children's Hospital (- -)

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¹⁻ http://missionbayhospitals.ucsf.edu/facilities/childrens-intensive-care-unit-patient-room.php

: Laboratory and radiology المعامل والأشعة

: operations room - - -

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(CRI)





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^{`-}David R.porter- Hospital Architecture For Design and Renovation-p\'\-http://www.heartatchildrens.org/cardiac-hybrid-or.php



httpwww.hpnonline.cominside - - OR-LIGHTS.html -

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الفصل الثانى

عناصرإظهار العمارة الداخلية لمستشفى الأطفال

: light Outdoors Indoors : Lighting and light : Shadowand light

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:Light sources ۶ - - -

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:Control of natural lighting



VERTICAL ORIENTABLE BLADES HORIZONTAL
ORIENTABLE BLADES

: Industrial lighting

-s.o.s

http://nodals.com/Site/Archi.sunbreaker.html -

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	: Using Colored lighting	
		(Jaundice)
	()	(Bilirubin)
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:Lighting corridors	-	-	-	-
:Emergency lighting		-		
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'-www.almasurgical.com/minor.htm

(Dimmer)



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children-hospital/

^{4 -} JAMA, Regulations of Acceptance of Ultraviolet, Lamps For Disinfecting Purpose

(CRI)



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Phoenix (Children's Hospital
(LED)

^{`-}Phoenix-Childrens-Hospital-Arizona-Architecture-Design`\

:color : Psychological impact of color للون : Color and movement trends

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Organic and therapeutic effect of color:) (-)

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:Radiotherapy color - - -

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Le docteur Prescrit la couleur	Podolosky "	
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"Pink Bubble gym"

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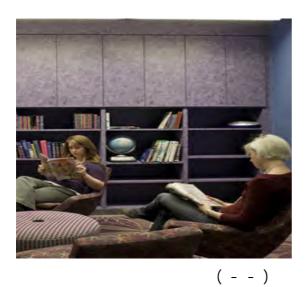
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العمليات

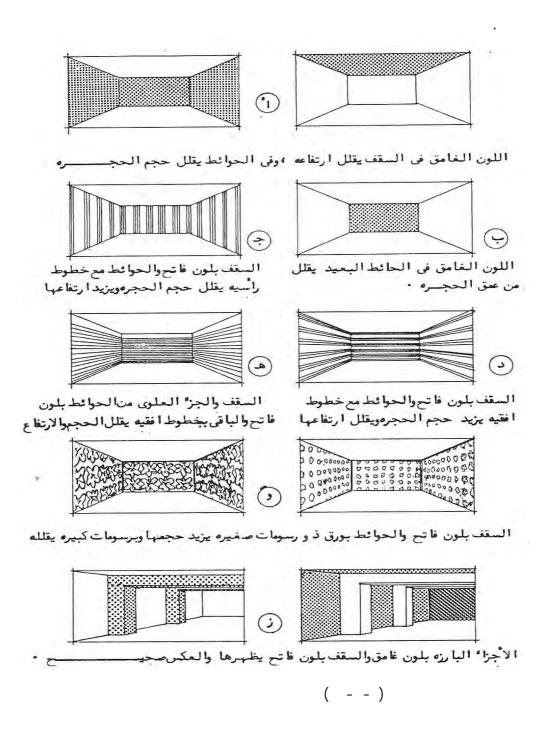
Relationship between Color and operations room:

- http://benenatedesign.blogspot.com/ / /childrens-hospital-of-atlanta.html

Y- http://www.thechildrenshospital.org/virtualtour/Photo-Gallery/index.aspx#

 $- \ http://www.thechildrenshospital.org/virtual tour/Photo-Gallery/index.aspx\#$

blue-green



:Texture

: Types of textures

٢ - دعلى رأفت - ثلاثية الأبداع ، الأبداع الفني في العمارة ، مركز أبحاث إنتركونسلت، ٩٩٦ م ، ص٢٢٠

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pattern

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- http://originstage.fastcompany.com/multimedia/slideshows/content/childrens-

hospital.html?page=

 $\hbox{\it ``-httpwww.healthcarefineart.com''.'} featured-arti-\hbox{\it `.html}$

:Color and texture





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dell-children-medical-center-main-lobby - httpwww.ascinfo.co.uknews ۲۳٤٩c-s-provides-protection-at-alder-hey

الباب الثالث

أعمال النهو مستشفى الأطفال

الفصل الأول

العناصر المكملة للحيز الداخلي

:Natural elements :Plants)

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Importance of plants in hospital's interior space

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^{&#}x27;- جون إف بايل – ترجمة د/ أحمد الشامي – د باسم حسن – التصميم الداخلي (لأثاث والأكسسوارات) – مرججع سابق – ص ٥٥،٥٦



Ireland Children's Hospital



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www.google.com.eg/imgres?imgurl=http://www.gavinjones.co.uk/images /Childrens HospitalLondon

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The psychological impact of water use in a	rchitectural space
" concomitant	functions"
	<u> </u>
' - Alpern, Andrew" Hand Book of Speciality Elements In Archit	ectoure.p ^Y V·. ^Y VV





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^{`-} httpwww.sablestudios.comWishingWell.html
-http://hallfountains.com/gallery/plog-content/images/hall-fountains/architectural-fountains/miamichildrens.jpg

:Art works -	-	-	,
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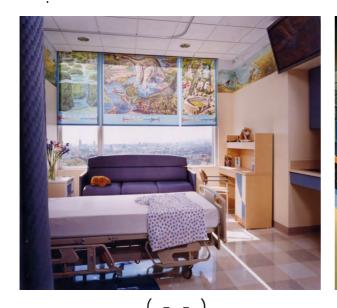
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 $[\]verb""-http://thechildrenshospital.org/about/new/art/uniqueartwork.aspx"$

للمستشفى:

Focal Point





استخدام الأعمال الفنية على حوائط المرات وفي الغرفة استخدمت الستائر المرسومة في مستشفى 'CHILDREN'S HOSPITAL AT MONTEFIORE

 $[\]verb§'-http://www.rockwellgroup.com/projects/entry/childrens-hospital-at-monte fiore$



شكل (٢-١-٧) رسومات جداريه ملونة في صالة استقبال المستشفى لإعطاء جو من الود والترحيب للطفل'



شكل (٣-١-٨) بالون ملون ضخم بصالة استقبال مستشفى لويس للأطفال ٢

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^{| -} http://www.mchf.org/\forall . \A\forall / Ways-to-Give/Miami-Childrens-Employee-Giving.aspx - http://www.conkerrcancer.org/blog/?p=\forall \forall .

:Signs - - -

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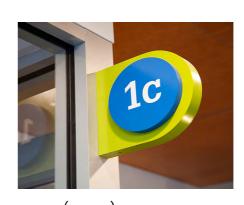
٣-١-٢-٤-أ توظيف الفن من خلال اللوحات الإرشادية:

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ANTE ROOM 8,9 Ante Sala 8,9

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العناصر الإرشادية المصورة والمكتوبة بمستشفى

Edinburg Children's Hospital^r

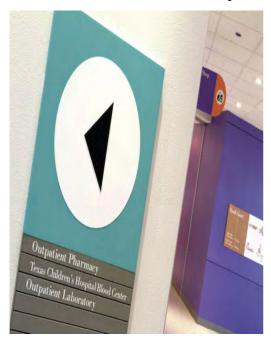
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^{&#}x27;- Maklin 'Jain - Hospital interior architecture Creating Healing Environments For Special patient populations -

^r- httpwww.focusegd.comedinburg.html



Children's Hospital of Pittsburgh(



Texas Children's Hospita ້(۱۲-۱-۳) شکل



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[`]http://www.flickr.com/photos/thoughtforminc/ffffyand\/
-http://www.fdfs.com/work/texas-childrens-hospital/
-http://www.cnfsigns.com/pages/childrens_hospital_case_study_.html

:Entertainment and enj	joyment of waiting	
The television:	<u>-</u>	
-	: Wall clock الحائط	۲-۲-۱ ساعا
	: Telephone booths	

شکل (۱۶-۱-۳) تصمیم الساعة بصالة استقبال بمستشفی University of Chicago Children's Hospital. $^{\mathsf{Y}}$

[†] - http://lynngoodpasture.com/portfolio/publicClocks.html

الفصل الثانى

أعمال النهو للحيزات الداخلية لمستشفي الأطفال

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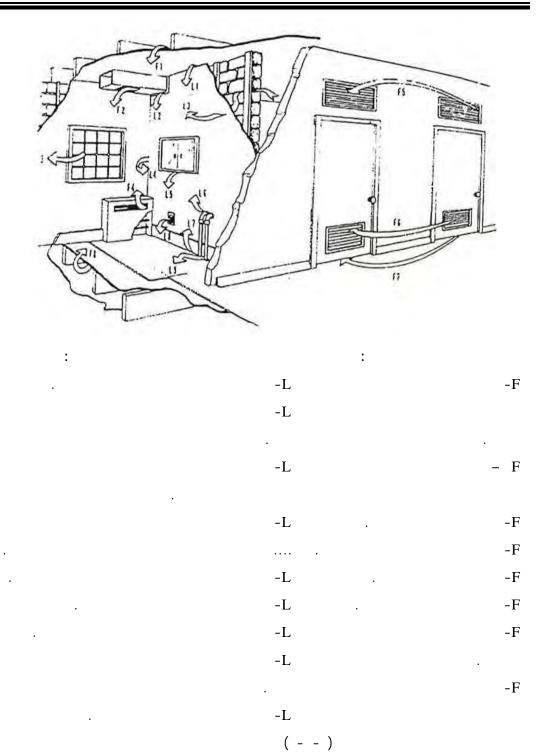
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Acoustic insulation :(

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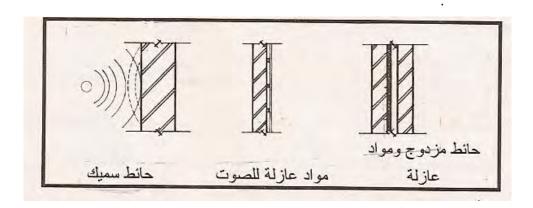
–Asid, Baucom -H, Alfred, Hospitality Design for the Graying Genertion, new York, U.S.A, ,p

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(Fibrous Materials) - Alfred H.Baucom, Asid, Hospitality Design for the Graying Genertion, new

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York, U.S.A,



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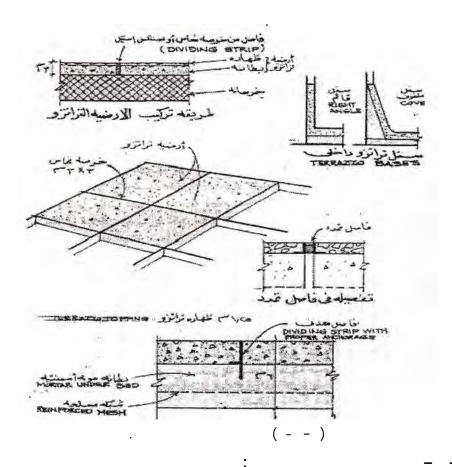
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Slip resistance:

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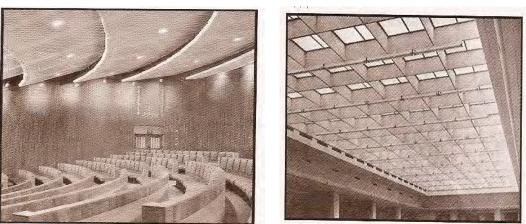
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٣- على رأفت _ ثلاثية الأبداع المعماري (البيئة والفراغ) _ مرجع سابق

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- Alfred H.Baucom, Asid, Hospitality Design for the Graying Genertion, new

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الباب الرابع

الفصل الأول

دراسة ميدانية لبعض مستشفيات الأطفال المصرية

() - -:Definition - -



location: - -

(- -) :Components of the hospital

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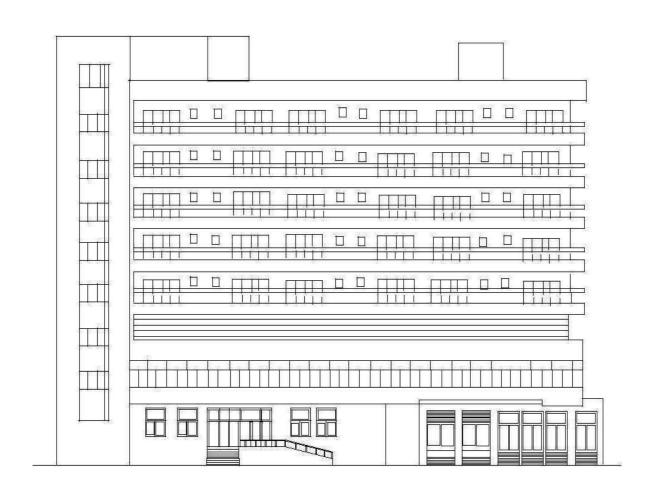
Capacity of the hospital: ۱-٤ سعة المستشفى ١-١-٤

:Hospital design

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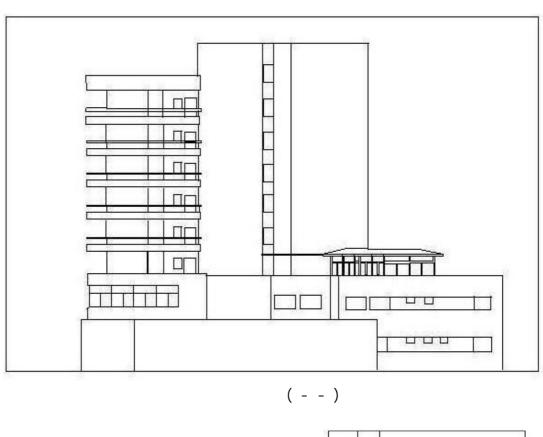
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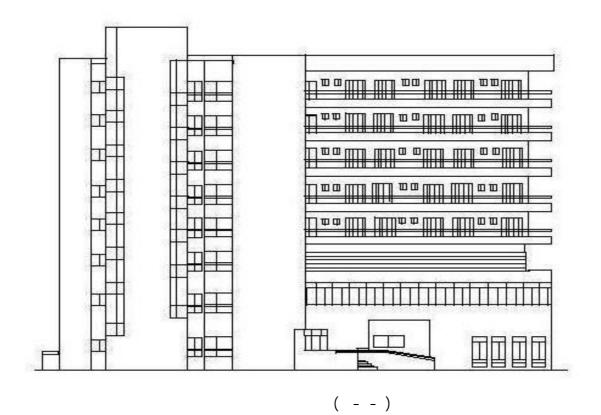
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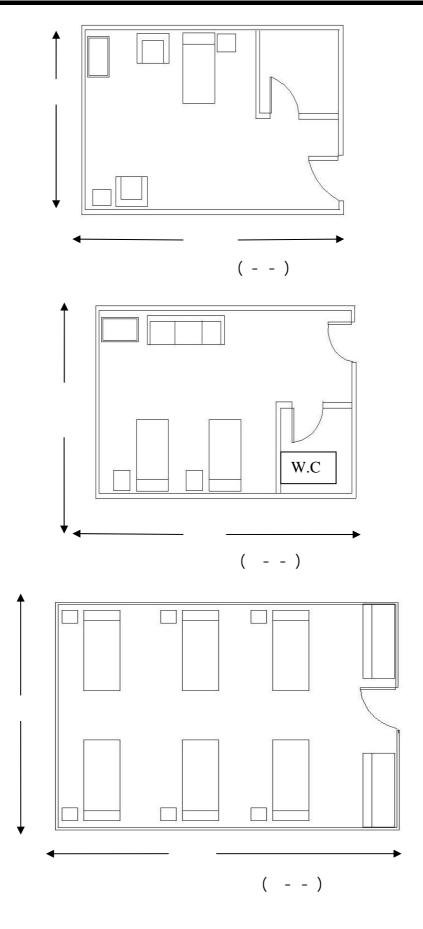




















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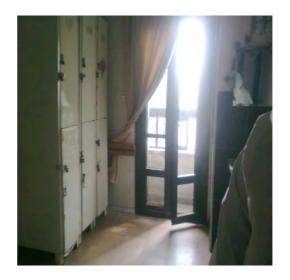
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شکل (۱-۱-۲۶)

شکل (۱-۱-۲۶)

شکل(۱-٤٤)



:Researcher opinion

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١ - تصوير الباحثة

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Definition: -



: Capacity of hospital

: Design specifications

Form Follows function

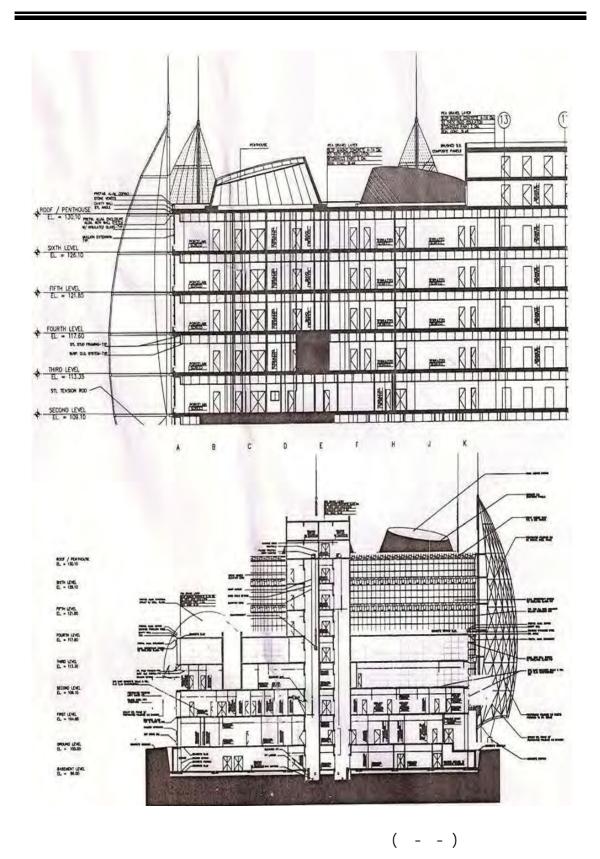
Exterior design

:Interior design

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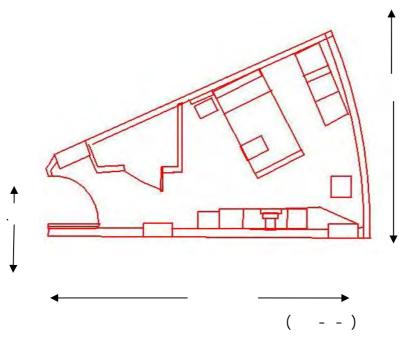
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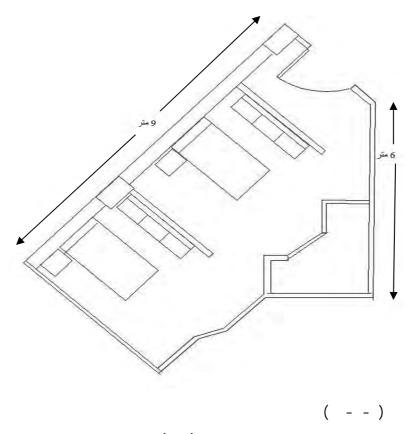


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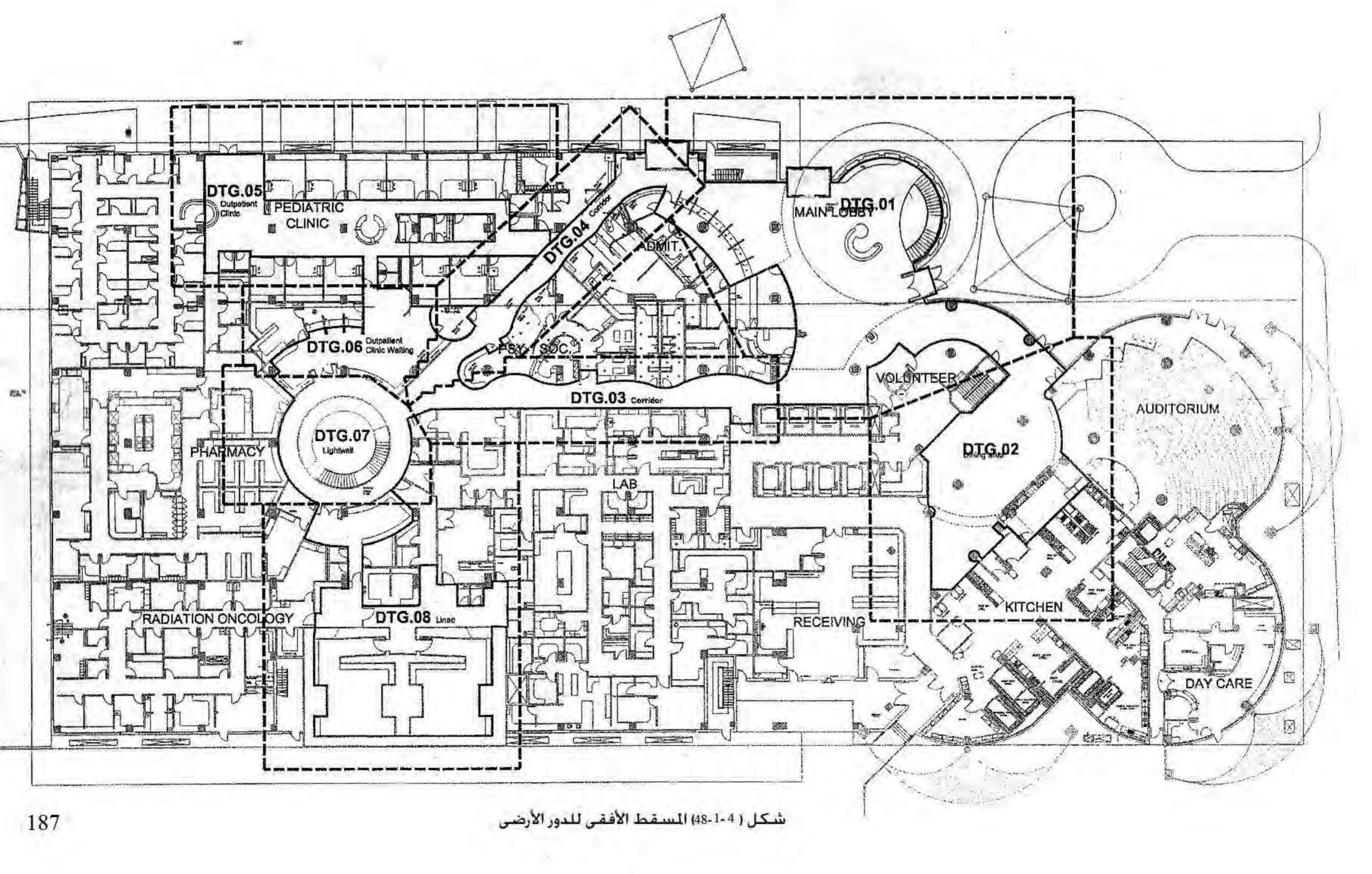
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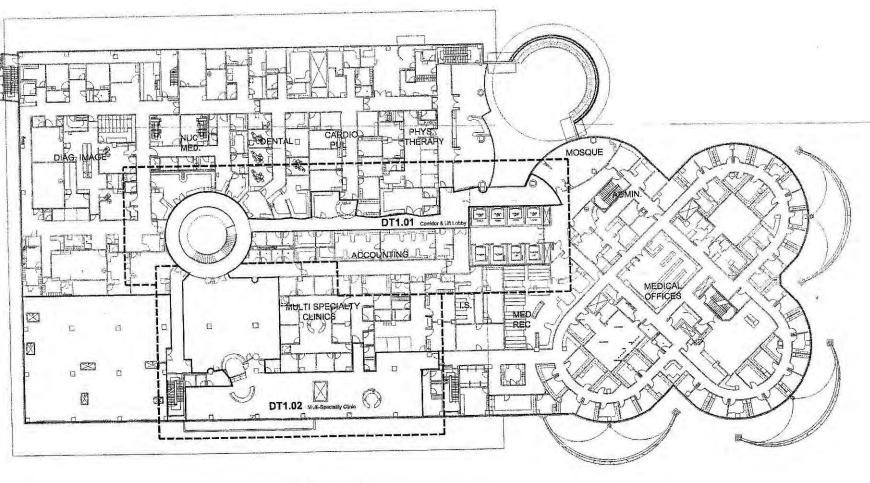


privat room

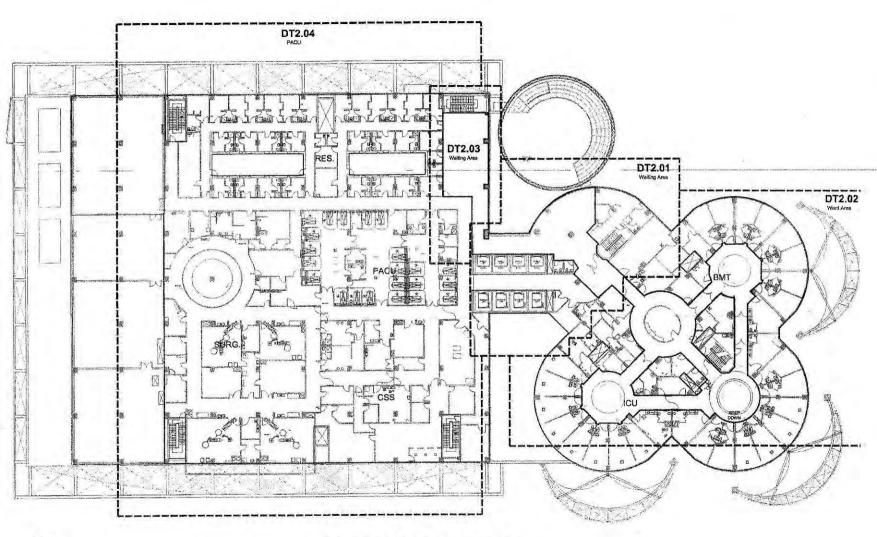


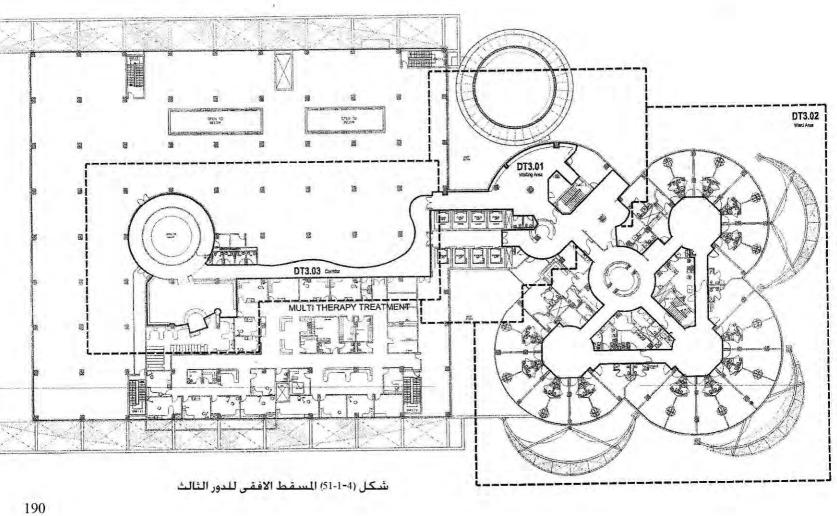
semi- private

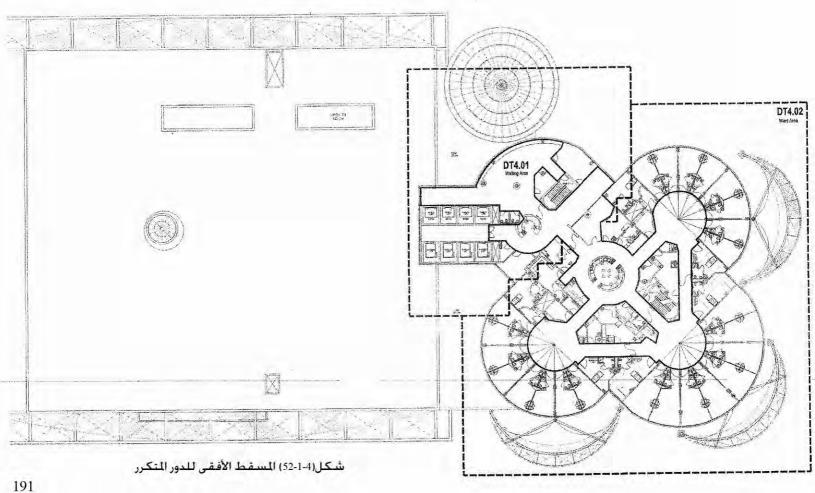




شكل (4-1-49) المسقط الأفقى للدور الأول







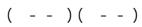




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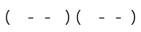




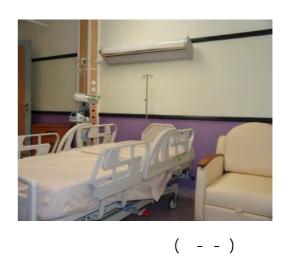




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Way finding •

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الفصل الثاني

دراسة بحثية لبعض مستشفيات الأطفال البريطانية

Royal Alexandra Children' Hospital

:Hospital location - -

Building Design Partnership





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:Rebuilding the hospital - -

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:The main aims

" Children's Ark' '

:Intrior design

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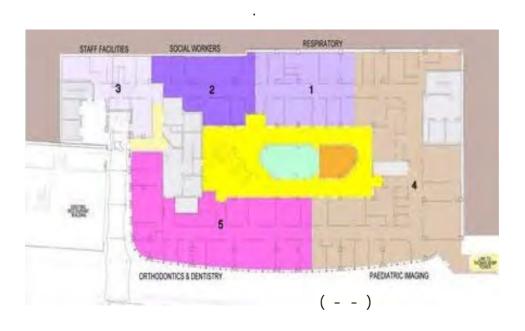
: Extior design

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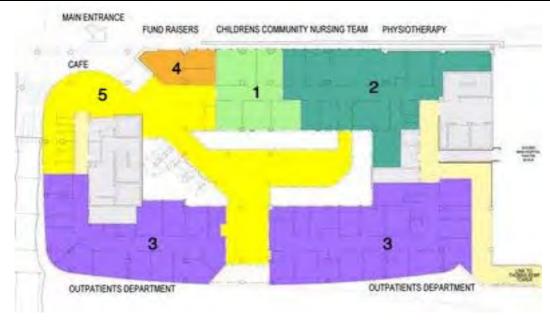
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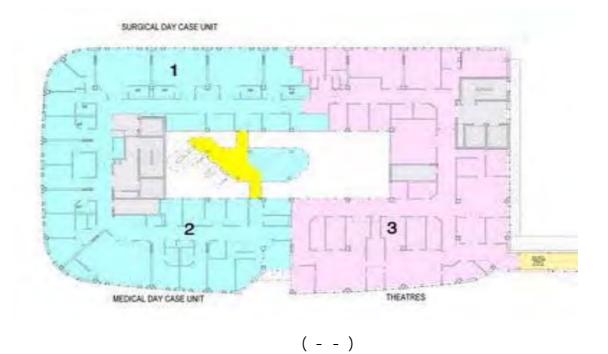


٣- غرف الإدارة

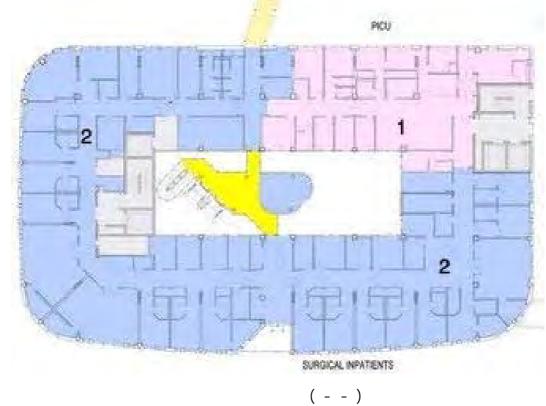
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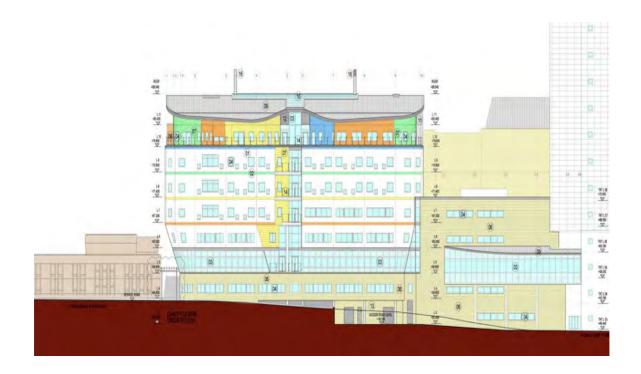


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Cross Section Looking West





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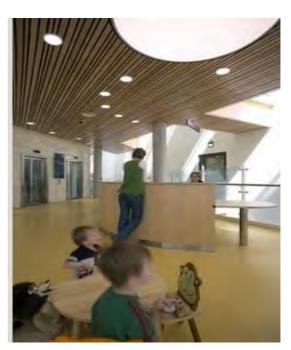


Royal Alexandra Children' Hospital



























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: Royal Alexandra

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:Evelina Children's Hospital

:The definition

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قد

أنشئت لجنة من الأطفال المرضى وأطفال إحدى المدارس المحلية ليعرضوا وجهات نظرهم في التصميم ، فلقد ضم تصميم المستشفى العديد من الأفكار والمقترحات للأطفال الصغار وعائلاتهم فهم يفضلون عادة الألوان الزاهية وجو المرح والإضاءة الجيدة .



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' - http://en.wikipedia.org/wiki/Evelina_Children's_Hospital ' - http://www.thegarret.org.uk/evelina.htm

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External design :		
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يضاف إلى ذلك أنه		
اء التي تأتى من الخارج .		
تجمع فائدة الاستفادة من الطاقة الشمسية	جهه الجنوبيه من المبنى	■ الوا
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Interior design:		
مهمة للتصميم الناجح – فالتصميم واضح ومنطقى	اطة والكفاءة هي عناصر	البس
، وتقديم العديد		
	الخدمات .	من

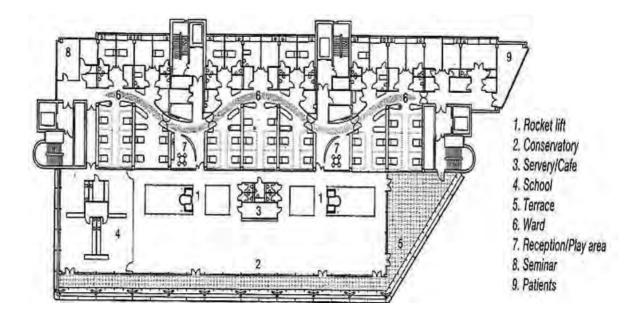
■ العيادات الخارجية تم تصميم مدخلها بحيث يسهل الوصول إلى منطقة الانتظار في الطابق الأرضي وبدون الحاجة إلى اجتياز الممرات الخاصة المرضى المقيمين ،فالمرور خلال هذه المنطقة الحية أفضل من المنطقة المنعزلة لأنها تشجع على خلق جو اجتماعى في المستشفى

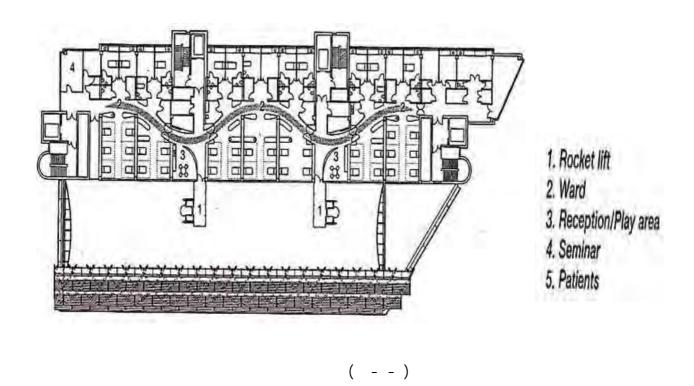
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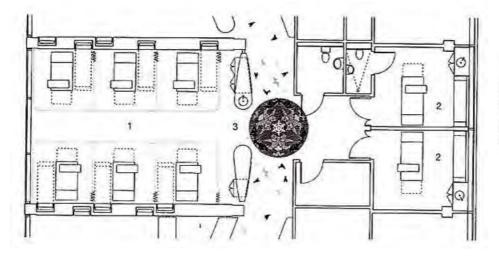
- تم استغلال مساحة المبنى كاملة وصولا إلى الرصيف للاستفادة بأكبر قدر من الفراغات وأيضا ليصبح أكثر ارتباطا بالطريق العام.
- القطاع _ يوضح الأدوار السفلي وتخطيط العيادات الخارجية ، غرف العمليات ، قسم تصويرالأشعة و المخازن . أما أجنحة إقامة الأطفال المرضى فهي تقع بالأدوار العليا للاستفادة من المنظر الخارجي والإضاءة مع شعورهم بالأمان ، فموقع أجنحة المرضى لايحقق فقط الاستمتاع بالمنظر الخارجي ولكن حتى يكون أكثر اتصالا بالحركة داخل المستشفى.
- الأطفال ذو الحالات المرضية الحرجة صمم لهم مجموعة من الغرف الفردية في الجهة الشمالية من طوابق أجنحة المرضى ، و الغرف الفردية لديها حمام خاص.
- كل طابق في المستشفى صمم بلون ورمز معين من طبيعة العالم " البحر، المحيط، غابات السافانا، السماء "
- وصمم مصعد صاروخي الشكل أحمر اللون يجذب الانتباه ورؤيته تكون واضحة سواء من داخل أو خارجها ، فالمرضى يستخدمون هذه المصاعد الزجاجية الشفافية ذات المناظر الخلابة لتسمح لهم بالتمتع أثناء الطريق إلى الأجنحة والشعور بالحركة والمرور خلال الادوار العشرة في المستشفى .

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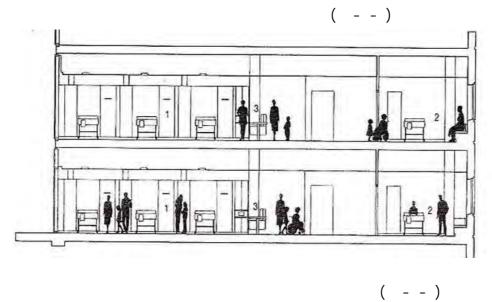
^{&#}x27;-Ji-seong, Jeong – Rmarkabel Hospital- printed in Seoul, Korea-puplished by CA Pressco.- ۲ · · ۹ – p ٤ ٣, ٤ ٤



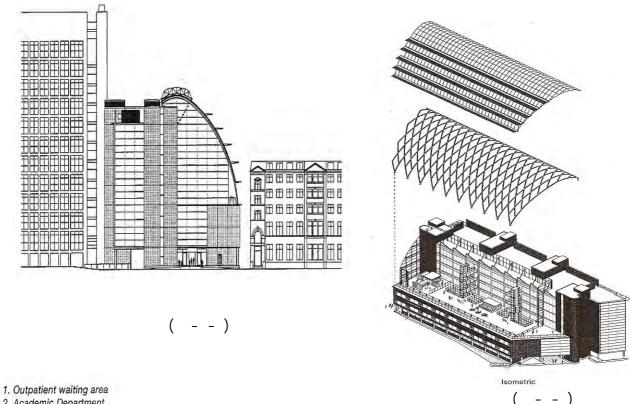




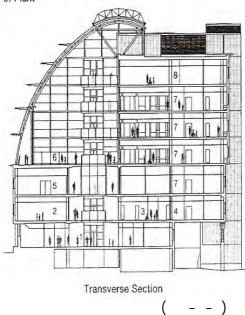
- 1. 6 bed ward
- 2. Single bed ward
- 3. Nurse station



- 1. Ward
- 2. Single bed ward
- 3. Nurse station



- 2. Academic Department
- 3. Medical Day Case Ward
- 4. Imaging Department
- 5. Paediatric Intensive Care Unit
- 6. Conservatory
- 7. Ward
- 8. Academic offices
- 9. Plant



1. Reception/security 4. Conservatory 5. Terrace 2. Rocket lift

6. School

3. Shared waiting

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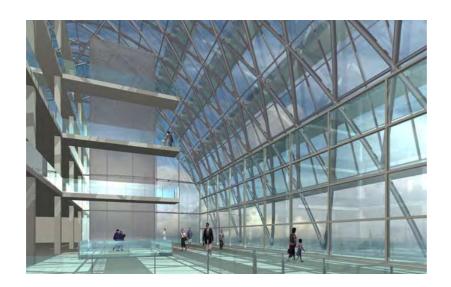


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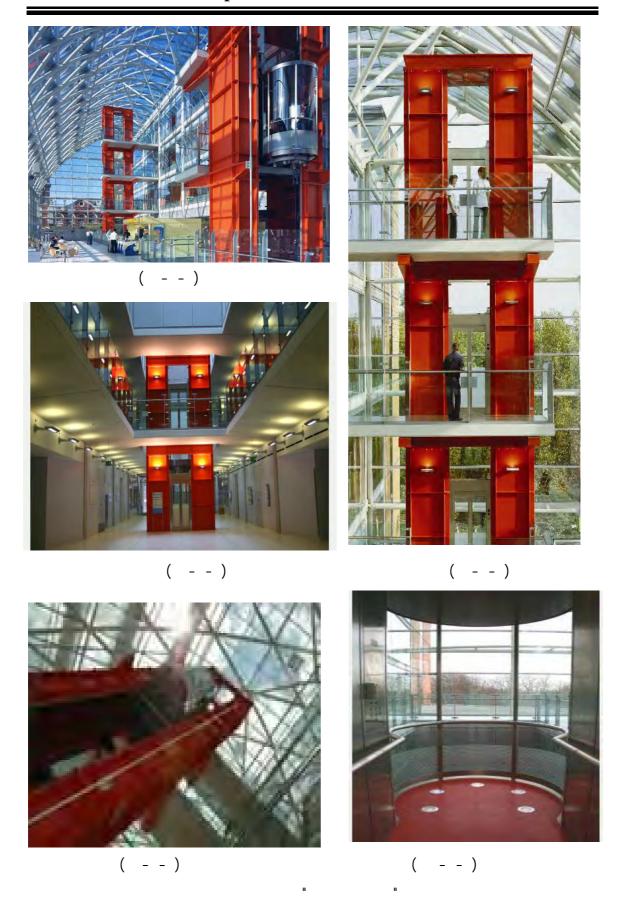


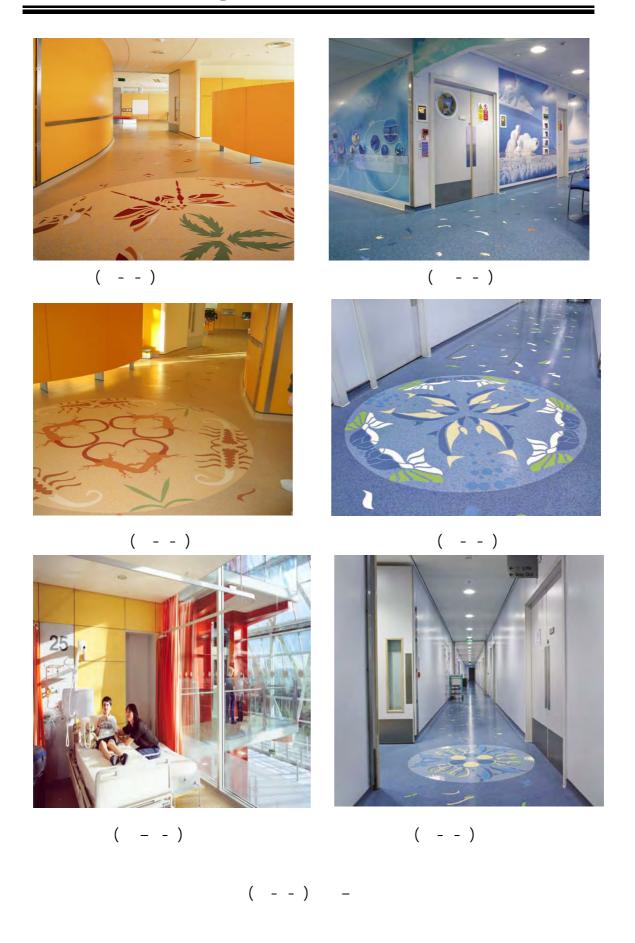


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www.hopkins.co.uk/s/projects/ / -

Evelina Children's Hospital

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الفصل الثالث

دراسة تطبيقية

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النتائج والتوصيات

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 Reinhold Company USA .

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- Ruga, Wayne, Designing For Senses in Healthcare Design, edited by Sara O.Marberry, Johnwiley & Sons, Inc, USA,
- Senda, Mitsure **Design of children s play environment** United States Of America –
- Series, Stephen A.Kliment- **Building type basics for health care facilitates** –published in Canada– .
- -Series, Stephen Kliment- **Building Type basics for health care Facilities** second edition printed in USA .
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- Y- http://antron.net/content/style/designgallery/ant _ _ .shtm
- **\(\tilde{\tau}\)** http://thecenter.typepad.com/center_for_the_arts/outreach/
- 4- http://www.virtualtoydrive.org/store/product.php?productid= &cat=&page=
- •- http://www.jetsongreen.com/ / /first-leed-plat.html
- **\'-** http://www.betterpublicbuilding.org.uk/finalists/ /evelina
- Y- http://local.cec-waterjet.com/jim/wordpress/childrens-hospital-of-wisconsin-terrazzo
- **\Lambda-** http://mca-architecture.com/portfolio/hope_children.htm
- **4-** http://www.splashesofhope.org/history.php
- •• http://uuldesign.com/home-decoration/bathroom/kid-bathroom-design-for-home-kindergarten-and-children-hospital/
- **\\-** http://thecenter.typepad.com/center_for_the_arts/outreach/
- http://www.stlcommercemagazine.com/archives/november /con struction.html
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- 1 t http://www.orchidsandonions.org/ / / rady-childrens-hospital-acute-care-pavilion
- http://www.applieddesigns.ca/children/index.htm
- 17- http://www.missouribaptist.org/?id= &sid=
- Y- http://www.inktankdesign.com/portfolio.php?cat=environment
- http://www.thelightingpractice.com/projects/childrens-hospital-of-philadelphia
- 19- http://www.guysandstthomas.nhs.uk/news/echimages/corridorlarge.asp

الملخص العربى

قدم مستشفي جامعي متخصص للأطفال "): (Cikista)

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The Summary

Summary

Interior Architecture of Children's Hospital

Introduction:

A specialized hospital for the care and treatment of sick children is not widely recognized until the beginning of the nineteenth century, which led in 'AY' to the attention of several doctors to establish Deline hospital for children, which was the first hospital in the world, speaking English, and had established in Egypt, the oldest university hospital dedicated to children "Abu Rish". But with the developments of modern Western, which took place in the world of technology or design which is reflected in turn raise the level of performance in hospitals, there is a substantial difference and large in the level of medical services provided here and there The discussion dealt with the relationship between design criteria and employment the elements of interior of architecture Children's Hospital and their positive impact on the psyche of the child patient and speed of his recovery and also raise the level of efficiency for both medical staff, nursing and administrative

This research consists of four sections are summarized as follows:

Chapter One A development and design of the emergence of hospitals consists of three chapters:

Section I of Chapter One: (a historical introduction on the evolution of thought the design in the construction of hospitals)

Reviewing the researcher the evolution of thought the design in the construction of hospitals across the eras of the historical beginning of the Paranoiac era, which dates back medicine in which about Yq.. BC. M, which was allocated schools of medicine in the temples, also addressed the era of ancient Mesopotamia (Babylon), which was follow the example of the ancient Egyptians in medicine, there are Indian civilization was built hospitals and called Alsaksia (Cikista) any temples of healing, and

development The design and intellectual of the hospitals in the West, where eating Greco, Roman, Christian, medieval, ages renaissance. It reviewed the history of the emergence of hospitals in the Islamic era and the contribution of the Arabs in the development of Islam is keen to the safety of the individual and his strength and his health, which they Al pemmarstanat was considered researchers Walid bin Abdul Malik was the first built hospitals in the Islamic era. He then discussed the researcher also the evolution of thought The The design in Egypt, where he established a number of Alpemmarstanat after the Islamic conquest shortly have the governors, the Amawyeen established Pemmarstanat in the house of Abu Zabid in an alley jellyfish Fust at were successively after the establishment Alpemmarstanat in ancient Umayyad with the aim of providing health care at the highest level and is Mansoori Hospital (Bimarstan Qalawun) of the most important and famous Cairene Alpemmarstanat that have proved efficient and functional. Also revered to the beginning of the emergence of children's hospitals globally and locally.

Section II of Chapter I: Children's hospitals (concept - classification - principles of design)

Researcher dealt with the definition of concepts such as hospitals, the general concept of the Hospital and Children's Hospital concept and definition, as well as the types of hospitals and classified in terms of medical specialization of the hospital, the owners, and its size, quality, location. Demonstration of the basic design of the hospital, how to direct, and pointed out that the best guide for halls of service and treatment is the north-east to north-west, and the conditions that must be met in the hospital grounds the relative calm and away from the noise, to clarify how to access them. Also addressed the components and the basic elements of the hospital where they can be divided functionally into six main sections are: nursing units, partitions detection and treatment, outpatient, medical assistance, public services, management may refer to the basic

considerations that must be observed at the start of the design process, such as user participation, and the availability of an element of flexibility because of the constantly changing methods of treatment and medical care, ability to stretch and expand and the importance of human dimension in the design of the hospital is for the patient refuge and shelter, which hopes the healing and wellness, and there are design considerations for children design of the hospital should be suitable for all stages of the children age and meets their needs such as providing an environment characteristic of the aesthetic, safety elements. And may refer to the role of design in reducing the chances of transmission to the hospital and the importance of mechanical ventilation, which play a role in the blanks and the application of positive pressure or negative depending on the patient's condition is also referred to the importance of the study and anthropometric and Alerjonumiks and its uses in an appropriate design for the world of children.

And Section III of Chapter I: Psychological needs of the child in the hospital:

Address the needs of psychology of the child within the hospital and its impact on process design, a child has many behaviors and desires that must be taken into account because they are the factors that speed up the process of his recovery, for example, the importance of presence of the family as a parent Oklahoma by providing a kind of family atmosphere setting the right place for them in terms of the Privacy and comfort, the emphasis on the idea of social networking for the child and the provision of climate which is paid to communicate with others so as not to rely on isolation and seclusion itself, which leads to other problems as the child needs to strengthen his sense of privacy in the hospital because it proved that most of the causes of concern is having to sleep in a room shared with strangers is one of the important reasons that made the newly-built hospital systems designed system stay in individual rooms. Also compatibility and harmony with the

environment around it and stimulate the imagination and creativity through drawings and sculptures on the walls and the walls are very important elements to distract his mind far from the condition suffered by them because the imagination is an important part of life as it provides an opportunity to escape and the emergence of a strong and well into account the parameters own so as not to feel that in an environment that is appropriate to provide a means of comfort to him when there is comfort to the sick child is assisted on the relaxation, when all the components in balance with each other and be harmonious environment so as not to tend to one element on other elements, as there is an urgent need the importance of child exposure to sun and air to renew its relationship to the advancement of child health as fresh air renews the appetite of the child and make him feel lively. The researcher pointed to the child's need for movement, play, and their benefits and their significance for him, and design considerations that must be considered places of play and provide recreational theater elements, celebrate Hall, Room View, puppet shows,,,, etc.

The second chapter is the internal architecture of the components of the Children's Hospital consists of two chapters:

Section I of Chapter two: Standards into the design of the procedure:

This chapter reviews the standards into the design of the internal hospital has made it clear that these criteria and the bases starting from the design The design of the outside of the hospital from the outside must be simple and easy to understand and attract attention because the exterior of the building is an important start to experience the healing of the child. Into account the provision of green spaces, the basic idea is that nature and art are important for the health of recent studies have shown a relationship between the presence of the patient in a natural environment and its ability to overcome the pain and healing. It was pointed out architectural elements making up the hospital, the child such as the entrances of Foreign Affairs

and standards design, yard reception and components and special considerations such as the provision of parking, toilets, places for mothers incubator "nursing mothers" and babies to feed them and change their cloth wings of emergency is that the space architect assigned to receive emergency situations or incidents or ... To provide medical care for her, Rooms residence of the child and considerations design it such as furniture, toilets their own, appropriate to their standards, Outpatient Department, who is on the process of integrated diagnosis and treatment has sung the patient stay in the hospital wards intensive care, which is a section dedicated to serve patients in critical situations on the over Y2 hours and as much care of very high and much of the specialty as appropriate, the wings of operations are the surgeries on the patient after the examination and different size of the partition of any number of operating rooms by the by the size of the hospital and is considered one of the most important sections in the hospital, where the importance of the service provided. Also discussed how to apply scientific methods to find their way around easily inside the hospital without the need to question, has reviewed the design of the foundations of whether the horizontal motion paths, elevators, stairs and corridors and the distribution of these elements and their relationship to another.

Section II of Chapter Two: Elements show the internal architecture of the Children's Hospital

Show contains elements such as light, color and texture and characteristics of them. And revered to the role of designer and his deal with light as a form of energy must be controlled where it is lighting the most liquid and the design process and the excitement and mystery and the relationship of light and shadow, and its impact on the child in terms of psychological, physiological, source of light (natural and industrial), the importance of natural lighting to the hospital the child and the means of control. Also addressed the use of colored lighting treatment, the conditions for

successful lighting, lighting the roads, emergency lighting, lighting design of the foundations of the right of the child to the hospital as well as the most important criteria for the design of lighting and affecting the interior design. He referred to the color and the effects of psychological and physiological him on the health of the sick child and hired identify trends in the movement correctly in the spaces internal to the hospital and there is also a function of color such as determining the areas and shapes and to distinguish the blocks, the impact on human feelings, the strong influence of deceiving the human visual as well as the impact of organic and therapeutic has been known therapeutic effect of color for a long time and still is the area of research in many different. Uses of color in the rooms stay, convalescence, hallways, floors and ceilings. In addition to the important role of texture in the interior spaces of the hospital and the types and characteristics and the relationship of color judging because of factors significantly affecting it...

Chapter III: Materials finishing to Children's Hospital

Section I of Chapter III: the complementary elements into the internal

Where the impact on the humanitarian needs such as furniture, interior design and its role in the integration of the performance of those spaces for the job required of them, where each element of the furniture's role in responding to the needs of users and its status so that appropriate Maya to use all types of patients, even the disabled. There are complementary elements of the furniture and equipment natural elements resources (plants, water elements), works of art for the existence of a general feeling that the interior space does not become complete until the suspension of some paintings to fill any space exists in the walls Sculpture, decorations, artwork and complementary elements (benchmarks) that promote from the aesthetic value of into the internal and can employ the art of the signs, and also the wall clock is one of the elements main furniture in waiting areas and booths telephone and use of interestingness and entertainment such as

TV in areas waiting and reception to help the users to spend time that could be long.

Section II of Chapter III of the Finishing of the internal spaces of the Children's Hospital

Having reviewed the researcher acts finishing bases used, influenced by selected some of the humanitarian needs of different as acts of isolation and security needs for the convenience of users and protect them and there are several types of insulation specialist, such as sound insulation, thermal insulation and isolation radiation voice requires the prevention of noise, whether external or internal, knowledge causes and methods of treatment and provide quiet voice within the hospital. The thermal insulation characteristics clearly evident in the ceilings where the ceiling is the most vulnerable parts of the building to the heat of the sun and then can be taken into account by using a means of thermal insulation. It was pointed to the importance of the element of safety when selecting materials, including finishing (fire resistance, slip, pollution). Chapter deals with the work of River Flooring General Specifications for floors in the hospital room, the child and the best materials to be used such as flooring alterazo, epoxy. Finishing well as the work in the ceilings, walls, doors and windows are the best materials used and the considerations that must be met in the materials used to. He also explained the work of finishing for operating rooms, radiology, laboratories, and the main corridors of the hospital stay suites.

Chapter IV, field study of selected hospitals, Egyptian and international:

Abu Rish Children's Hospital: The oldest and the first hospital for children in Egypt have been addressed in the description and analysis, as shown with pictures and explanations and engineering drawings.

Children's Cancer Hospital ovrov: The field study of the Children's Cancer Hospitalovrov, which is one of the most important children's hospitals in the Middle East in terms of the uniqueness of the design, has been dealt with the description, analysis, and engineering drawings and images

Section Two: a research study for the Royal Alexander Hospital for Children and Evelina Hospital in London.

Royal Alexander Children's Hospital: a research study includes a hospital, which is one of the oldest and most prestigious hospitals in the city of Breton shipping to London, which was updated in Y··V have been addressed in the description, explanation and engineering drawings and photos.

Evelina Hospital: It also includes a research study for the hospital known as Hospital National Health specialist and has been dealt explanation, description, engineering drawings and images.

Case Study: A comparison between the four hospitals advantages and disadvantages



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