



Changhua Christian Hospital Sustainable Management

Love God, Love Land, Love People and Love Ourselves



Presented by Dr. Chin Shan Liu
Vice Superintendent, Changhua Christian Hospital

CHANGHUA CHRISTIAN HOSPITAL



Changhua Christian Healthcare System



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Changhua Christian Hospital

Emblem of the CCH :
“Jesus Washing Disciple’s Feet” — Serve patient with humble



Mission :
醫療 (Medical care)
傳道 (Evangelism)
服務 (Service)
教育 (Education)
研究 (Research)



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Accredited by JCI



Organization Accredited
by Joint Commission International



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Environment Protection Initiation Since 1896



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Outlines

- **Energy Conservation**
-(Employees ∙ Hospital ∙ Community)
- **Carbon Elimination**
-(Employees ∙ Hospital ∙ Community)
- **Health Promotion**
-(Employees ∙ Hospital ∙ Community)

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Energy Conservation - Employees

- **Education**
Through posters, labels, slogans, e-mail, and workshops to facilitate employees commit to energy conservation.
- **Management/Monitoring**
Establish energy saving committee to manage and monitor the energy utilization of the hospital.
- **Innovation and Creation**
Holding innovative technology and creative ideas competition in energy conservation.

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Employees Education

Workshops in safe, health and energy conservation



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Management and Monitoring

Monitored by in charged manager



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Innovative and creative ideas competition

Energy conservation ideas competition

	Gold	Silver	Bronze	Excellent
Individual	NTD 5,000	NTD 4,000	NTD 3,000	NTD 1,000
Department	NTD 10,000	NTD 8,000	NTD 6,000	NTD 2,000
Outcomes	First trial 139 pieces	Reexamine 18 pieces	Save cost up to NTD 3,270,000 per year	



Orientation for competition



Winner Presentation

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Energy Conservation - Hospital

- Eco-label materials procurement
- Eco-equipments and facilities substituted
- Green branch hospital constructed
 - designation as green hospital
 - accreditation as LEED-NC & Healthcare standard
- Outcome
 - EUI outcome

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Eco-Label Materials Procurement



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Energy conservation - Hospital Eco-Equipments and Facilities Substituted



Solar Energy

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Green Branch Hospital Constructed



THINK GREEN



Design & construction practices that increase profitability while reducing negative environmental impacts

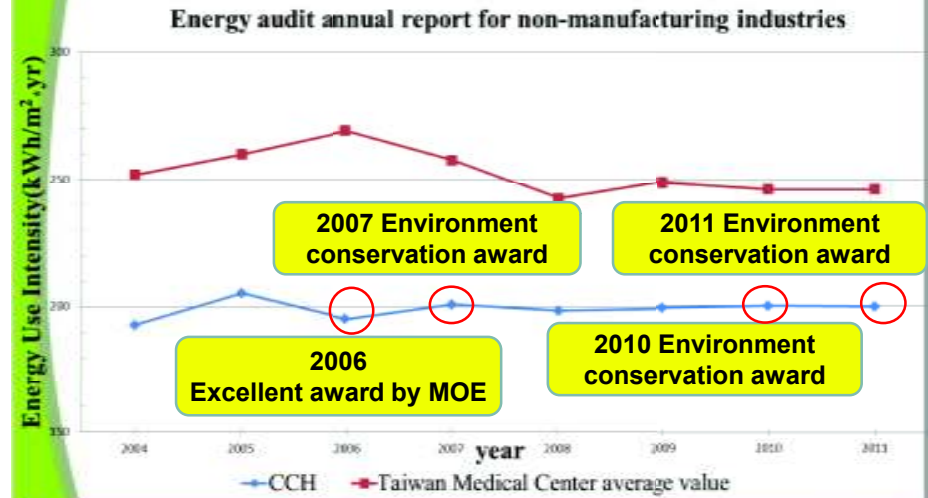



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Outcomes



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Energy Conservation - Community

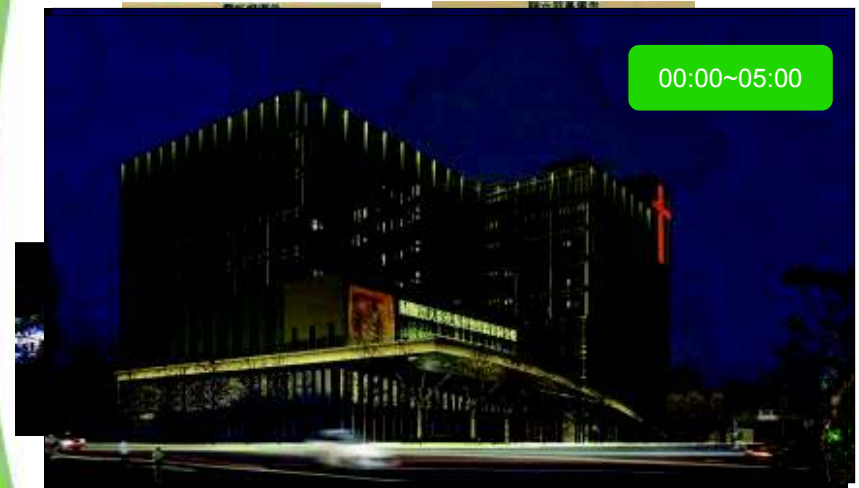
- US LEED-NC & Healthcare Accreditation
- Outstanding and Excellent Awards
 - Excellence Award of Energy Saving
 - Outstanding Enterprises
 - Environmental Protection Enterprise Award
 - Health Promoting Model Hospital Award

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US LEED-NC & Healthcare Accreditation



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Outstanding and Excellence Awards



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Carbon Elimination - Employees

- Recycling materials used as decorating stuffs
- Reduce red meat consumption and vegetal orientation
- Health and fitness management

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Recycling Materials used as Decoration Stuffs

Christmas decoration



Patient ward decoration

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Reduce Red Meat Consumption and Vegetal Orientation



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Health and Fitness Management

Dates	Participants	Weight lose (kg)
2011-06-01~2011-12-30	741	1731



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Carbon Elimination - Hospital

- Green hospital
 - Hospital garden
- Bio-medical wastes recycling
 - Plastic devices recycling
 - Used but still good equipments donation

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Hospital Garden



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Bio-medical Wastes Recycling



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Carbon Elimination - Community

■ Volunteers

Hospital volunteer team is composed spontaneously and initiatively to clean up the surrounding streets and parks to create the health community.

■ Equipments donation

Used but still very good equipments are donated to developing countries like Congo, Indonesia, Nepal, St. Lucia and St. Vincent to build the capacity.

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Voluntary Service at Community



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Equipments Donation



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Health Promotion - Employees

- Personal consultation
- Spiritual care
- Health and fitness management

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Personal Consultation

Case received from

Birthday questionnaire

Referral from colleagues

Employee appointment

Cared by

Care via telephone

Psychoanalysis

Individual consultation

Family consultation

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Spiritual Care (1)

Study group



Couple activity



Movie



New employees



Self care workshop



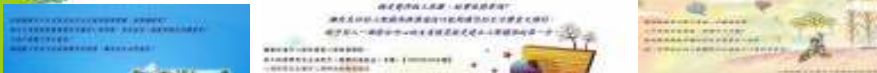
Relax activity

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Spiritual Care (2)



Community consultation room



Hospital consultation room

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Different spiritual care activities organized by health promotion center (suicide prevention, emotion management, stress mitigation, etc.)



Health and Fitness Management (1)

Crucial indicators monitoring and management

2008	2009	2010	2011	2012
<p>* The abnormal index</p> <p>(1) BP \geq 180/110</p> <p>(2) Ac Sugar \geq 160</p> <p>(3) Cholesterol \geq 200+ HDL-cholesterol : $\delta \leq$ 31 mg/dl $\text{♀} \leq$ 38 mg/dl</p> <p>(4) LDL-cholesterol : \geq 186 mg/dl</p> <p>(5) Triglyceride \geq 500</p> <p>* The high risk of Hepatology</p> <p>(6) GPT \geq 120</p> <p>(7) Hepatitis B carrier</p> <p>* The high risk of Kidney disease</p> <p>(8) Urine RBC $>$ 5</p> <p>* The high risk of Colorectal cancer</p> <p>(9) Stool occult blood positive</p> <p>* Tuberculosis High risk population</p> <p>(10) abnormal of Chest X-ray</p>	<p>* The abnormal index</p> <p>(1) BP \geq 180/110</p> <p>(2) Ac Sugar \geq 160</p> <p>(3) Cholesterol \geq 200+ HDL-cholesterol : $\delta \leq$ 31 mg/dl $\text{♀} \leq$ 38 mg/dl</p> <p>(4) LDL-cholesterol : \geq 186 mg/dl</p> <p>(7) Hepatitis B carrier</p> <p>(8) Hepatitis C carrier</p> <p>* The high risk of Kidney disease</p> <p>(9) Urine RBC $>$ 5</p> <p>* The high risk of Colorectal cancer</p> <p>(10) Stool occult blood positive</p> <p>* Tuberculosis High risk population</p> <p>(11) abnormal of Chest X-ray</p>	<p>* The abnormal index</p> <p>(1) BP \geq 180/110</p> <p>(2) Ac Sugar \geq 160</p> <p>(3) Cholesterol \geq 200+ HDL-cholesterol : $\delta \leq$ 31 mg/dl $\text{♀} \leq$ 38 mg/dl</p> <p>(4) LDL-cholesterol : \geq 186 mg/dl</p> <p>(7) Hepatitis B carrier</p> <p>(8) Hepatitis C carrier</p> <p>* The high risk of Kidney disease</p> <p>(9) Urine RBC $>$ 5</p> <p>* The high risk of Colorectal cancer</p> <p>(10) Stool occult blood positive</p> <p>* Tuberculosis High risk population</p> <p>(11) abnormal of Chest X-ray</p> <p>* Metabolic Syndrome</p>	<p>* The abnormal index</p> <p>(1) BP \geq 180/110</p> <p>(2) Ac Sugar \geq 160</p> <p>(3) Cholesterol \geq 200+ HDL-cholesterol : $\delta \leq$ 31 mg/dl $\text{♀} \leq$ 38 mg/dl</p> <p>(4) LDL-cholesterol : \geq 186 mg/dl</p> <p>(7) Hepatitis B carrier</p> <p>(8) Hepatitis C carrier</p> <p>* The high risk of Kidney disease</p> <p>(9) Urine RBC $>$ 5</p> <p>* The high risk of Colorectal cancer</p> <p>(10) Stool occult blood positive</p> <p>* Tuberculosis High risk population</p> <p>(11) abnormal of Chest X-ray</p> <p>* Metabolic Syndrome</p>	<p>* The abnormal index</p> <p>(1) BP \geq 180/110</p> <p>(2) Ac Sugar \geq 160 ; HbA1C $>$ 7%</p> <p>(3) Cholesterol \geq 200+ HDL-cholesterol : $\delta \leq$ 31 mg/dl $\text{♀} \leq$ 38 mg/dl</p> <p>(4) LDL-cholesterol : \geq 186 mg/dl</p> <p>(7) Hepatitis B carrier</p> <p>(8) Hepatitis C carrier</p> <p>* The high risk of Kidney disease</p> <p>(9) Urine RBC $>$ 5</p> <p>(10) Urine Protein \geq 75</p> <p>* The high risk of Colorectal cancer</p> <p>(11) Stool occult blood positive</p> <p>* Tuberculosis High risk population</p> <p>(12) abnormal of Chest X-ray</p> <p>(13) Hb $<$ 10 g/dl</p>

Annual review of the indicators

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Health and Fitness Management (2)

Year	2008	2009	2010	2011
Ratio of employee beyond normal range after health checkup	25.55%	25.36%	26.01%	35.29%
Follow up numbers	939	968	1004	1405
ratio of Self-management	52.3%	55.7%	61.2%	56.8%

Follow up by health promotion center via telephone
 Ratio of Self-management : 2007 (39%) → 2011(56.8%)

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Health promotion - Hospital

- Hospital fitness center
- Stress mitigating activities
 - Aerobic exercise
 - Yoga
 - Gymnastics

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Hospital Fitness Center



Fitness center



Fitness center facilities

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Stress Mitigating Activities



Stress mitigating activities

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Health promotion - Community

- **Community activity promotion**
 - Health working place promotion
 - Health union promotion
- **Excellence awards**
 - Health promotion hospital and friendly working place award
 - Mental wellness award
 - Senior health promotion award

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Community Activity Promotion

- 2006~2011 Health working place promotion : 117
- 2006~2011 Health union promotion : 24



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Excellence Awards



Health and friendly working place award



Mental wellness award



Excellence health hospital model award



Senior health promotion award

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CCH REACH

THE WORLD LET THE WORLD IN
走出去 世界走進來

CCH REACHES 1

THE "CHANGHUA CLINIC" WAS FOUNDED BY REVEREND CAMPBELL W. MOODY AND DR. DAVID LANDSBOROUGH IN 1896. AFTER ONE HUNDRED YEARS OF NURTURING AND EVOLUTION, THE CHANGHUA CHRISTIAN HOSPITAL HAS BECOME THE LARGEST MEDICAL CENTER IN CENTRAL TAIWAN AND HAS ACHIEVED THE JCI (JOINT COMMISSION INTERNATIONAL) MEDICAL APPRAISAL STANDARD IN 2009.

SINCE 2004, THE CHANGHUA CHRISTIAN HOSPITAL HAS ACTIVELY DEVOTED ITSELF TO OVERSEAS MEDICAL COOPERATION AND HAS LEFT ITS FOOTPRINTS ALL OVER ASIA, SOUTH PACIFIC, AFRICA AND THE CARIBBEAN. APART FROM PARTICIPATING IN EMERGENCY RELIEF AND POST-DISASTER CARE, THE HOSPITAL HAS ALSO PROVIDED LONG TERM MEDICAL HEALTH CARE TO DEVELOPING COUNTRIES AND ASSISTED IN BUILDING THE PROFESSIONAL CAPABILITY OF MEDICAL PERSONNEL.

THE CHANGHUA CHRISTIAN HOSPITAL SPARED NO EFFORT TO COOPERATE WITH INTERNATIONAL ORGANIZATIONS IN HOST COUNTRIES.