

SIR RUN RUN SHAW HOSPITAL ZHEJIANG UNIVERSITY SCHOOL OF MEDICINE

Location: Hangzhou, China / **Category:** Unbuilt Architecture

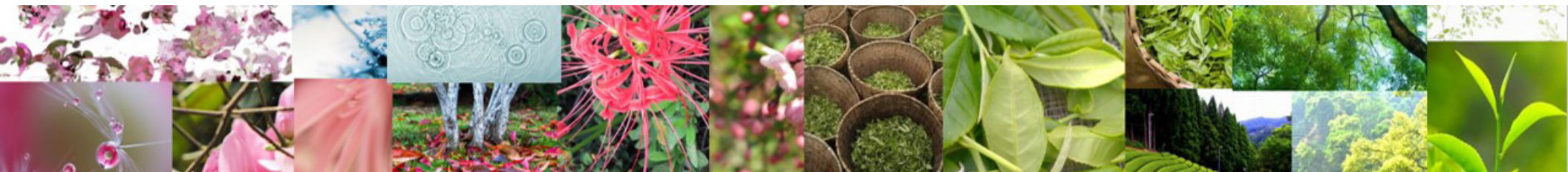
The expansion design for Sir Run Run Shaw Hospital was inspired by the natural beauty of West Lake in Hangzhou which is considered to be the tea capital of China. A city surrounded by green, terraced tea plantations and many bodies of water. The design concept was inspired by this rich cultural tradition and stunning landscape: Water & Tea. The soft shape of the hospital symbolizes a tea leaf itself combined with the ripples of water, reflecting a sense of calm and a place of healing for the body and the spirit.

The primary project goals were to increase clinical services and associated programming while alleviating traffic and pedestrian congestion on a dense urban campus, and to open the crowded campus by creating more green spaces. Sustainable elements including green roofs and native landscape were designed to reduce water run-offs. Several healing gardens, designed to reflect the hospital's mission, provide patients and visitors space for quiet, contemplative moments throughout the site and the building.

The project incorporates the latest international healthcare standards to support the global patient population of Hangzhou and the region, blending critical design principles with an integrated healthcare model through significant adjacencies, connectivity, and a consistent high design image. The complex program encompasses a specialty medical center, primary and specialty outpatient clinics, an international medical center, adult daycare, wellness center, research, teaching, and dormitories for caregivers into two discrete buildings: a general medical and outpatient treatment facility, and a research, teaching, and residential facility.

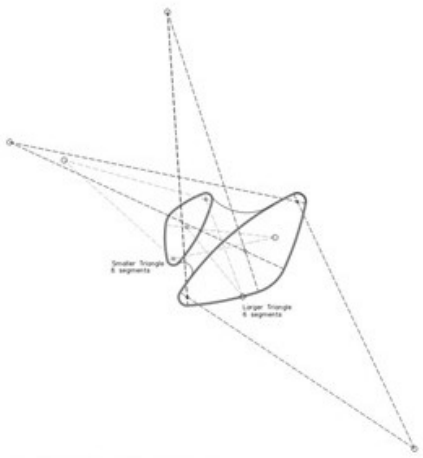
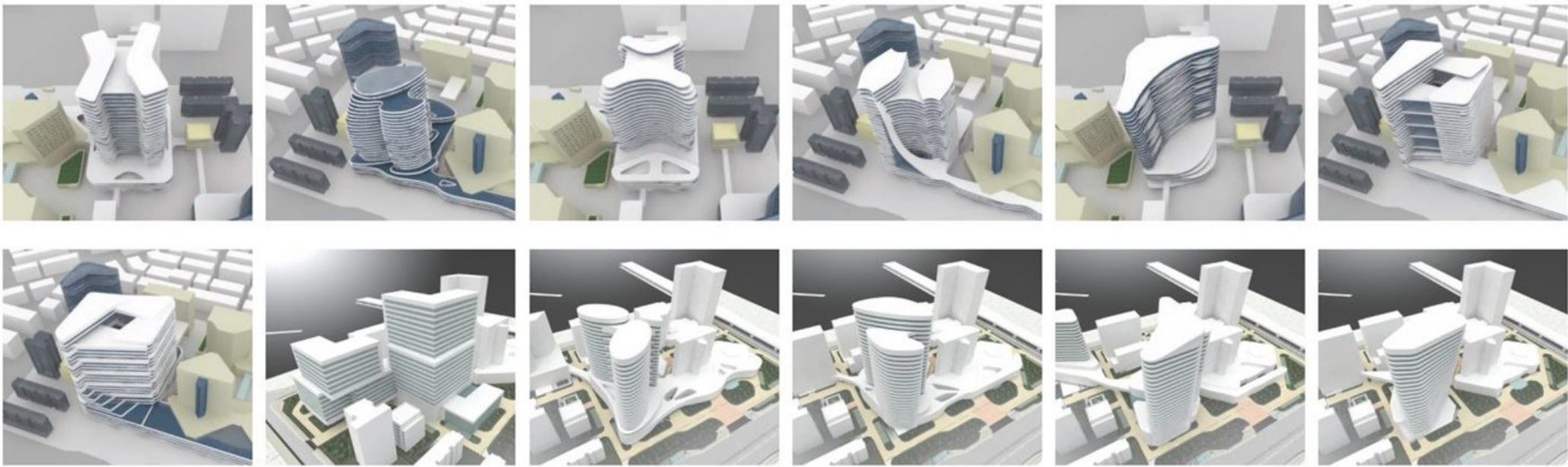
Evidence-based design research findings were used to create more patient-centered environments that improve healing, safety, and recovery. The parallelogram shape of the plan mirrors the existing campus bed towers, while helping to improve staff access and visibility to every patient room and clinical space. All patient rooms have a southeast exposure, taking advantage of sunlight and views away from major traffic and noise. The carefully planned circulation promotes clear on-stage and off-stage movement while ensuring improved infection control and patient privacy. Additionally, the functional planning fuses industry best practices into an efficient, flexible facility in support of a team-based patient-centered clinical model. The multidisciplinary team-based model supports collaboration, innovation, and continuity, which translates into fewer errors (safety), effective patient and staff flow separation, and an improved patient and staff experience.

In the interior spaces, biophilic design principles were used to reinforce the "Water & Tea" concept. It has been widely proven that natural elements improve the healing process of patients and the work environment for staff. For instance, a strong connection with the outdoor environment was achieved by opening a large five-story atrium in the lobby to allow daylight to filter through the public areas. Oversized windows were provided in patient rooms and clinical corridors to maximize the access to views and natural light. Artificial lighting in public areas simulated the flow of water to increase a sense of calm, while naturalistic shapes, forms, and images were used throughout to provide positive distractions for patients and improve wayfinding.

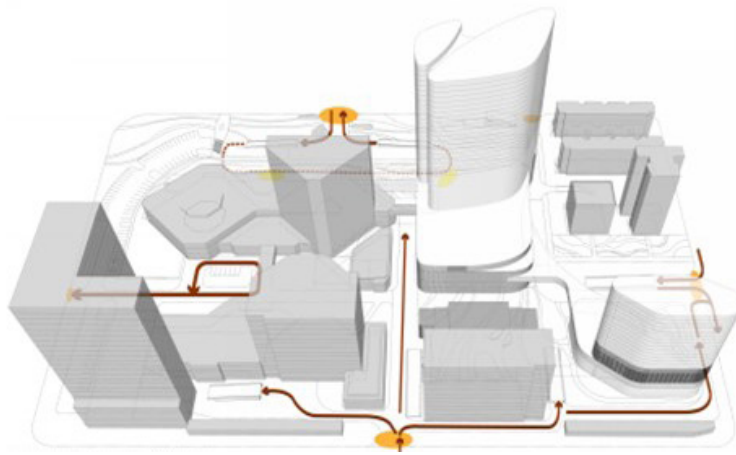




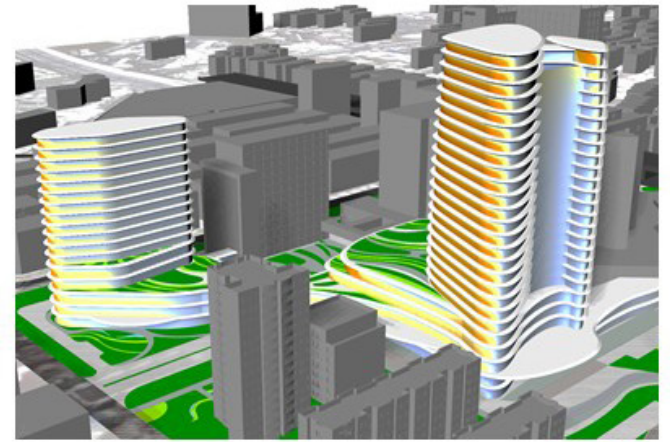
The soft shape of the hospital symbolizes a tea leaf combined with the ripple effect of water, reflecting a sense of calmness.



GFEOMETRY ANALYSIS



TRAFFIC ANALYSIS

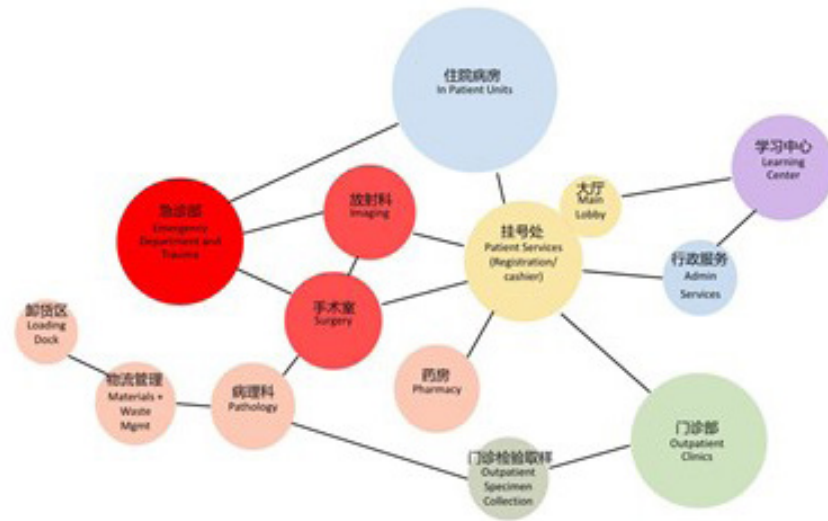


SOLAR/DAYLIGHT ANALYSIS

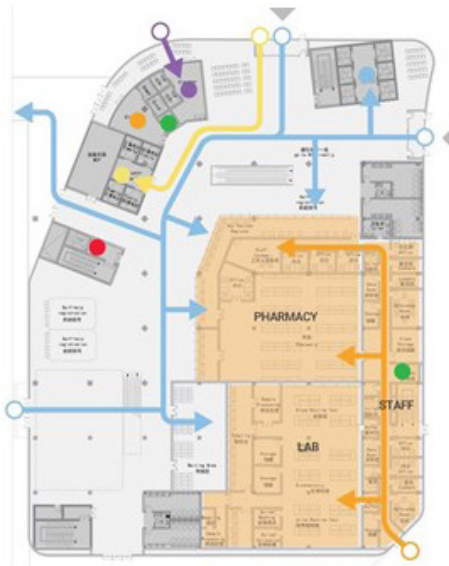
Architectural design solutions were explored and evaluated supported by different types of analysis until the optimal solution was discovered.



Landscape design was also inspired by this ripple concept, reflecting the idea of the gentle wave and calming movement of water produced by the ripple. Site plan, roof garden, and interior landscape and green space were the design elements which embraced the idea of movement and change.



CRITICAL ADJACENCIES



1ST FLOOR



2ND FLOOR – DIAGNOSTIC



3RD TO 6TH FLOOR – CLINIC



6TH TO 20TH FLOOR – INPATIENT UNITS



A strong connection with the outdoor environment was achieved by opening a five-story atrium in the lobby to allow daylight to filter through the public spaces.



Biophilic design principles were used to reinforce the design concept: Water & Tea. Lighting in public areas simulated the flow of water to increase a sense of calm, while naturalistic shapes, forms, and images were used throughout to provide positive distractions for patients and family.



A color palette inspired by the natural beauty of West Lake. Shapes, images, and lighting reinforce the concept of Water & Tea. Reflection, flow, vibrant colors symbolize life. Just as tea heals the body from the inside out, the interior design was created to heal the patients.