**Design Description**

With the increasing demand for medical services, improving the demand for medical efficiency has been further strengthened. Medical services will be more closely to the community, community hospital with new treatment mode and strengthened function will attract great medical facilities because of high convenience. Medical buildings will be distributed around the residential area to provide more humane and central medical services, in order to improve medical efficiency. Therefore, we propose that extract medical function from whole medical facilities, try to build a mobile medical unit, by way of unmanned aerial vehicles (drone) so we can make flexible adjustment of treatment movement.

The medical unit has mechanical arms and AI management of the corresponding medical process, also can be automatically operated, tested, and received in some situation: Community hospitals and nursing facilities reserved connection the mobile medical space, medical unit according to the requirements could do pre-deployment and move, thus the flexibility to meet most needs of people with a small amount of facilities. The mobile medical facilities we call it: a mobile logistics network, automatic medical unit provide medical equipment support can be provided for emergency, and will be widely used in disaster relief and emergency situations. Flying medical units can provide the possibility of quickly establish temporary hospitals and provide more rapid medical support.

**Disadvantages of Centralized Hospital**

- **Noise:** Large hospitals will generate a large number of people, causing noise pollution, and create a security risk.
- **Pollution:** Large number of medical products and waste, the concentration of patients makes the cross-infection, which leads to a surrounding environment disaster.
- **Traffic Jam:** Coordinated medical supplies during traffic congestion, emergency medical supplies, can also cause waste of time in the emergency response.
- **Centralization:** Coordinated medical supplies during traffic congestion, the hospital. Centralized medical supplies, can also cause waste of time in the emergency response.

**Industries of Narrow Manufacturing**

- **Drone:** Use the drones to deliver medical supplies to remote areas, meeting the social needs.
- **Split:** Split the centralized hospital to increase its flexibility.
- **Day:** Use the drone to deliver medical supplies to remote areas, meeting the social needs.

**Remote Operation**

- **Control:** The drone can be controlled from remote to move, to one way, supply efficiency increased.

**Navigation System**

- **Distribution:** The drone navigation units controlled by center navigation, automatic medical unit provide automatic machines of new functions.

**Event - Emergency Situation**

- **Traffic accident:** Emergency rescue, first aid.
- **Emergency treatment of wounded:** Rapid treatment of injured by unmanned medical units.
- **Invalid settlement:** Using medical equipment and vehicles to rescue injured persons in disaster areas.

**Site Maintenance**

- **Maintenance:** The maintenance center is the main working station, unmanned medical units settle back here for maintenance, including cleaning, repairing of parts, medical supplies, and charging of UAVs. The maintenance center will serve as the core of the whole system to undertake the whole logistics demand.
**FUNCTIONS**

Medical unit has a variety of functions, but an Automatic Inspection Department, Automatic Operation Room, and Automatic Nursing Ward.

**Automatic Inspection Department**

This department can automatically inspect and treat patients. It employs intelligent technology to ensure the accuracy and efficiency of the treatment process. The inspection results are uploaded to the cloud system for real-time monitoring and analysis.

**Automatic Operation Room**

The operation room is equipped with advanced medical equipment and can perform various surgical procedures. It features a state-of-the-art robotic arm that assists surgeons in performing complex operations. The room is designed to create an optimal environment for both patients and medical staff.

**Automatic Nursing Ward**

The nursing ward is equipped with intelligent nursing robots that can provide personalized care to patients. These robots can automatically adjust the ward environment to ensure patient comfort and safety. They also monitor patients' vital signs and alert medical staff in case of any emergency.

**Inspection**

The automatic inspection department has a body scanning system that can inspect the body's physical condition. The doctor can remotely control the scanning process and access the inspection results. This system can help in identifying potential health issues early, allowing for timely interventions.

**Operation**

The operation room provides a wide range of surgical options. After an accident, it can be quickly set up at the accident site to provide instant medical assistance. The robotic arm can perform delicate surgeries with precision, while ensuring the safety and comfort of the patient. It can also be used to create an immersive virtual reality environment for patients undergoing treatment.

**Maintenance and Storage**

The modular design of the medical unit allows for easy transportation and storage. It can be unfolded into a complete medical facility when needed and folded into a compact shape for storage when not in use. The unit can be transported by air, land, or sea, making it suitable for remote and disaster-prone areas.

**Conclusion**

The flying medical unit represents a significant advancement in medical technology, enabling rapid response to emergencies and providing critical care to remote areas. Its innovative design and intelligent systems make it a crucial tool in the fight against health crises and disasters.