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What is a Soldier of Future? He will be a complex human-centered system, whose elements will be constructively and functionally aimed at one general task: bringing the human out of fire zone, increasing his combat power and providing surviving. Today many people work for the sake of a militaryman's health creating different gadgets which would be able to monitor soldiers' state in combat actions. The activity is conducted in 3 directions: chemical and medical; physical and technical; and informational. This sphere of research is currently quite unusual, specific and demanded.

Medical post on a human's body: WPSN system (Warfighter Physiological Status Monitor). Technologies of observing and revealing the enemy are widely used in combat actions, but equipment, which would be able to monitor physical state of the soldiers, has largely been left behind until recently. The U.S. military research laboratories have created WPSN (the warfighter physiological status monitor) system for monitoring a soldier's physical state. This system is a part of American equipment of the Future Soldier. The WPSN system includes a set of medical devices for measuring a soldier's physical parameters, such as body temperature, heart rate, arterial pressure and stress level. The system gathers and processes information and if required, transmits it to the medical service center. WPSM sensors and a Microclimate Delivery Network will include tiny micro-sensors embedded in the uniform, hydration system, boots, and helmet. The sensors data will be analyzed and formulated, and the status reported will be developed and saved. The WPSM report will contain information of energy levels, work load, hydration, stress levels, thermal state, sleep, and initial conclusions along with functions for remote medical triage system. Triage system will enable to get an assessment of brain injury, ballistic impact, along with the trauma. The system has behavioral, environmental, and neurophysiological sensors which will monitor warfighter cognitive status in real time and provide accurate assessments of mental workload and cognitive readiness. This data will be used by commanders to arrive at tactical decision and optimize the flow of data to the warfighter in C4ISR system (command, control, computer and communications, intelligence, surveillance and reconnaissance), avoiding information overload and decreasing situation awareness. These monitoring capabilities will be linked with individualized predictive models enhancing the validity of physical and mental activities by encompassing individual differences in cognitive and physiological dynamics.

These technologies were employed in different conflicts and have proved their effectiveness. Despite of significant expenses, the research is being continued and still more useful devices are planned to be created.

In my opinion, the tendency of researches in this sphere is actual nowadays. There is a widespread international interest in using wearable physiological monitoring technologies to improve the safety and performance of soldiers, and many nations have undertaken efforts to employ this technology for the military superiority.