Cheatography

IFB T1 Cheat Sheet by Sunny-side-down via cheatography.com/152955/cs/32927/

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EMG, EOG, ERG

Bio-acoustic signals	
sounds from the human body as it functions, giving information of the body's inner condition	lung <i>(breathing)</i> , heart <i>(blood flow)</i> , bowel, joint <i>(bone cracking)</i>
noninvasive and easy way	of examination
sound sensor apparatus	receive the bio- acoustic signals
Biomechanical signals	

Biomechani	
movement	motion & displacement signals, pressure & flow system
skeletal muscles	movement of the limbs
chest wall	movement of chest - respir- atory activity - examine rib cage injury

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Bio-optic signals		
light	change in optical properties	
alive cells = emit light energy	dead cells = no emit light energy	
blood oxygenation	measure the transmitted light from cells at different wavelengths	
	reflection or pulse rate by the change in skin color	

Biochemical signals measurement of the directly from the chemicals in the body living cells or in the form of samples CO2, O2, ion conc, hormones, signaling & receptor pathways signaling interactions & processing cellular information checks the ability of homeostasis, cells to recognize and immunity, repair, respond to the changes development in their environment error leads to disease cancer, autoimmunity, diabetes

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Bio-magnetic signal

weak magnetic fields		
specifically brain, lung, heart	other organs also produce - but too weak - these organs work nonstop - slightly more stronger magnetic field	
measur- ement taken in a magnetic shielded room	exclude <i>most</i> external distur- bances	
detector called SQUID	superconducting quantum interference device	

Bio-impedence signals

impedance = resistance

implication of weak electrical current - travel thru the cells and tissue - measure the voltage drop generated = impedance of the body

measure body composition