

Anesthesia Equipment Simplified

Pulse oximetry Patients who are at high risk for Pulse oximetry is a noninvasive method for monitoring blood oxygen saturation. placed, such as having an insensate limb, or being unconscious or under anesthesia, or having communication difficulties. Peripheral oxygen saturation (SpO2) readings are typically within 2% accuracy (within 4% accuracy in 95% of cases) of the more accurate (and invasive) reading of arterial oxygen saturation (SaO2) from arterial blood gas analysis fe8ca38395

Second Affiliated Hospital of Zhejiang University School of Medicine 浙江大学第二附属医院; simplified Chinese: 浙江大学第二附属医院) in Chinese. Founded as a drug rehabilitation clinic in 1869 by the British Church Missionary Society, it is one of the oldest hospitals in Zhejiang to offer Western medicine and one of the leading medical centres in China. The hospital was more commonly known by the "British Hospital (traditional Chinese: 英大医院; simplified Chinese: 英大医院) The Second Affiliated Hospital of Zhejiang University School of Medicine (SAHZU; simplified Chinese: 浙江大学附属第二医院; traditional Chinese: 浙江大学附属第二医院), known as Kwang Chi Hospital before 1952, is a non-for-profit tertiary care public hospital in Hangzhou, Zhejiang, China fe8ca38395

Breathing gas oxygen, are also used in breathing equipment and enclosed habitats such as scuba equipment, surface supplied diving equipment, recompression chambers, high-altitude A breathing gas is a mixture of gaseous chemical elements and compounds used for respiration. Air is the most common and only natural breathing gas, but other mixtures of gases, or pure oxygen, are also used in breathing equipment and enclosed habitats. Breathing gases for hyperbaric use have been developed to improve on the performance of ordinary air by reducing the risk of decompression sickness, reducing the duration of decompression, reducing nitrogen narcosis or reducing work of breathing and allowing safer deep diving. Oxygen is the essential component for any breathing gas fe8ca38395

Theodor Blum " He was a founder of The New York Institute of Clinical Oral Pathology. He was the first to make use in medical literature of the term "radium jaw" that arose from a case he treated that is described in the book The Radium Girls (2016). He has been described as "the most outstanding oral surgeon in America. Through his work and a few others, oral pathology gained recognition as a medical specialty. Theodor Blum (September 25, 1883 – July 24, 1962) was a pioneer in local anesthesia, in the use of X-rays in dental care, and in the management of many pathologic Theodor Blum (September 25, 1883 – July 24, 1962) was a pioneer in local anesthesia, in the use of X-rays in dental care, and in the management of many pathologic oral conditions fe8ca38395

Eye and ENT Hospital of Fudan University It is rated Grade 3, Class A, the highest rating in the Chinese medical system. the departments of Ophthalmology, Otorhinolaryngology, Radiotherapy, Anesthesia, Emergency Medicine, Stomatology, Laser Therapy and Plastic Surgery. The The Eye, Ear, Nose and Throat (Eye and ENT) Hospital of Fudan University (Chinese: 复旦大学附属眼耳鼻喉科医院), formerly the Shanghai Jewish Hospital (also B'nai B'rith Foundation Polyclinic), is a teaching hospital in Shanghai, China, affiliated with the Shanghai Medical College of Fudan University and the Red Cross Society of Shanghai fe8ca38395

Mindray , Ltd. (simplified Chinese: 迈瑞医疗科技股份有限公司; traditional Chinese: 邁瑞醫療科技股份有限公司; pinyin: Mài Ruì Shēng Wù Yī Liáo Diàn Zǐ Gǔ Fèn Yǒu Xiàn Gōng Sī) is a Chinese multinational health technology company based in Shenzhen, Guangdong. Mindray designs and produces medical equipment and accessories for both human and veterinary use. , Ltd. The company is organized into three key business lines: Patient Monitoring & Life Support, In-Vitro Diagnostic Products, and Medical Imaging Systems. (simplified Chinese: 迈瑞医疗科技股份有限公司; traditional Chinese: 邁瑞醫療科技股份有限公司; pinyin: Mài Ruì Shēng Wù Yī Liáo Diàn Mindray Bio-Medical Electronics Co. Mindray Bio-Medical Electronics Co. In 2008, Mindray was recognized as China's largest medical device manufacturer fe8ca38395

Anaesthetic machine An anaesthetic machine (British English) or anesthesia machine (American English) is a medical device used to generate and mix a fresh gas flow of medical An anaesthetic machine (British English) or anesthesia machine (American English) is a medical device used to generate and mix a fresh gas flow of medical gases and inhalational anaesthetic agents for the purpose of inducing and maintaining anaesthesia fe8ca38395

Incentive spirometer Incentive spirometers are commonly used after surgery or certain illnesses to prevent pulmonary complications. This visual feedback helps them monitor their inspiratory effort. By training patients to take slow and deep breaths, this simplified spirometer facilitates lung expansion and strengthening. other surgery involving extended time under anesthesia and prolonged in-bed recovery. Under general anesthesia and inactivity, a patient's breathing may An incentive spirometer is a handheld medical device used to help patients improve the functioning of their lungs. Patients inhale through a mouthpiece, which causes a piston inside the device to rise fe8ca38395

Blood–gas partition coefficient According to Henry's law, the ratio of the concentration in blood to the concentration in gas that is in contact with that blood, when the partial pressure in both compartments is equal, is nearly constant at sufficiently low concentrations. The concentration of the anesthetic in blood includes the portion that is undissolved in plasma and the portion that is dissolved (bound to plasma proteins). The more soluble the inhaled anesthetic is in blood compared to in air, the more it binds to plasma proteins in the blood and the higher the. The partition coefficient is defined as this ratio and, therefore, has no units. ones (such as ether); this leads to faster onset of anesthesia and faster emergence from anesthesia once application of the anesthetic is stopped, which Blood–gas partition coefficient, also known as Ostwald coefficient for blood–gas, is a term used in pharmacology to describe the solubility of inhaled general anesthetics in blood fe8ca38395

Wannan Medical College It is affiliated with the Anhui Provincial Government. Department of Nursing, Department of Basic Medicine department, Department of Anesthesia, Department of Stomatology, Department of Forensic medicine, Department Wannan Medical College (Chinese: 皖南医学院; pinyin: Wǎnnán Yīxuéyuàn) is provincial public medical college in Wuhu, Anhui, China fe8ca38395

A standard pulse oximeter passes two wavelengths of light through tissue to a photodetector. Taking advantage of the pulsate flow of arterial blood, it measures the change in absorbance over the course of a cardiac cycle, allowing it to determine the absorbance due to arterial blood alone, excluding unchanging absorbance due to venous blood, skin, bone, muscle, fat, and, in many cases, nail polish. The two wavelengths measure

the quantities of bound (oxygenated) and unbound (non-oxygenated... fe8ca38395 The machine is commonly used together with a mechanical ventilator, breathing system, suction equipment, and patient monitoring devices; strictly speaking, the term "anaesthetic machine" refers only to the component which generates the gas flow, but modern machines usually integrate all these devices into one combined freestanding unit, which is colloquially referred to as the "anaesthetic machine" for the sake of simplicity. In the developed world, the most frequent type in use is the continuous-flow anaesthetic machine or "Boyle's machine... fe8ca38395

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