

Magnesium Sulphate Injection Uses

As a bronchodilator after beta-agonist and anticholinergic agents have been tried, e.g., in severe exacerbations of asthma.

History

Anti-asthmatic agents as rescue medications for acute asthma attacks include short-acting β 2-adrenergic receptor agonists (SABA), short-acting muscarinic antagonists (SAMA), systemic glucocorticoids, and magnesium sulfate. Anti-asthmatic agents as maintenance medications for asthmatic symptom control include long-acting β 2-adrenergic receptor agonists (LABA), inhaled glucocorticoids, long-acting muscarinic antagonists (LAMA), methylxanthines/phosphodiesterase inhibitors, leukotriene receptor antagonists, mast cell stabilizers, and certain types of monoclonal antibodies.

It is closely related to calcium borogluconate, which is commonly used in veterinary...

Common side effects include low blood pressure, skin flushing, and low blood calcium. Other side effects may include vomiting, muscle weakness, and decreased breathing. While there is evidence that use during pregnancy may harm the baby, the benefits in certain conditions are greater than the risks. Its use during breastfeeding is deemed to be safe. The way it works is not fully understood, but is believed to involve depressing the action of neurons.

Cerebral vasospasm

Vasospasm is one of the leading causes of death after the aneurysmal rupture along with the effect of the initial haemorrhage and later bleeding. This kind of narrowing usually is maximal in about a week's time following intracerebral haemorrhage. Significant narrowing of the blood vessels in the brain develops gradually over the first few days after the aneurysmal rupture.

TV; Gin, Tony; Ng, Stephanie CP; Zee, Benny CY (2011). "Intravenous magnesium sulphate for aneurysmal subarachnoid hemorrhage: an updated systemic review

Cerebral vasospasm is the prolonged, intense vasoconstriction of the larger conducting arteries in the subarachnoid space which is initially surrounded by a clot

Coastal hydrogeology

conditions occur in deep confined aquifer. Leading Coastal Hydrogeology is a branch of Hydrogeology that focuses on the movement and the chemical properties of groundwater in coastal areas. Coastal Hydrogeology studies the interaction between fresh groundwater and seawater, including seawater intrusion, sea level induced groundwater level fluctuation, submarine groundwater discharge, human activities and groundwater management in coastal areas. Under anaerobic conditions, sulphate reduction, methanogenesis and ferric iron reduction might occur

Magnesium sulfate came into medical use at least as early as 1618. It is on the World Health Organization's List of Essential Medicines. In 2021, magnesium salts were the 211th most commonly prescribed medication, with more than 2 million prescriptions.

Henry Letheby Tidy doi:10. Br Med J. (24 May 1913). "A Case of Tetanus Treated with Intraspinal Injections of Magnesium Sulphate". 1136/bmj. 2734. 1104 Sir Henry "Harry" Letheby Tidy (28 October 1877 - 3 June 1960) was a British physician and gastroenterologist. 1 (2734): 1104–1105. 1

== Biography ==

Oilfield scale inhibition

Examples of oilfield scales are calcium carbonate (limescale), iron sulfides, barium sulfate and strontium sulfate. Scaling represents a major challenge for flow assurance in the oil and gas industry. Scale inhibitors (SIs) are a class of specialty chemicals that are used to slow or prevent scaling in water systems. Scale is a common term in the oil industry used to describe solid deposits that grow over time, blocking and hindering fluid flow through pipelines, valves, pumps etc. Scale inhibition encompasses the processes or techniques employed to treat scaling problems. with significant reduction in production rates and equipment damages.

Soc Petroleum Oilfield scale inhibition is the process of preventing the formation of scale from blocking or hindering fluid flow through pipelines, valves, and pumps used in oil production and processing.

"The influence of formation calcium and magnesium on the effectiveness of generically different barium sulphate oilfield scale inhibitors". Oilfield scaling is the precipitation and accumulation of insoluble crystals (salts) from a mixture of incompatible aqueous phases in oil processing systems

In 2023, it was the 313th most commonly prescribed medication in the United States, with more than 200,000 prescriptions and magnesium salts were the 174th most commonly prescribed medication, with more than 2 million prescriptions.

TIVA is maintained by intravenous infusion devices and assisted by electroencephalography (EEG) monitoring. These techniques facilitate the use of propofol, etomidate, ketamine, and other intravenous anesthetic agents. During or after TIVA, patients may be subjected to an elevated risk of anesthesia awareness, hyperalgesia and neurotoxicity. Considering these risks, special consideration is given to obese, elderly and pediatric patients.

Magnesium sulfate (medication)

Magnesium sulfate is effective in decreasing the risk that pre-eclampsia progresses to eclampsia. It is given by injection into a vein or muscle as well as by mouth. As Epsom salt, it is also used for mineral baths. Intravenous magnesium sulfate is used to

Magnesium sulfate as a medication is used to treat and prevent low blood magnesium and seizures in women with eclampsia. It is also used in the treatment of torsades de pointes, severe asthma exacerbations, constipation, and barium poisoning.

intravenous injection

Side effects when injected include slow heart rate, pain at the site of injection, and low blood pressure. When taken by mouth side effects may include constipation and nausea. Blood calcium levels should be measured when used and extra care should be taken in those with a history of kidney stones. At normal doses, use is regarded as safe in pregnancy and breastfeeding. Calcium gluconate is made by mixing gluconic acid with calcium carbonate or calcium hydroxide.

Total intravenous anaesthesia

LXVII (16): Total intravenous anesthesia (TIVA) refers to the intravenous administration of anesthetic agents to induce a temporary loss of sensation or awareness. TIVA is currently employed in various procedures as an alternative technique of general anesthesia in order to improve post-operative recovery. SJ (1916-10-14). "Anesthesia in Human Beings by Intravenous Injection of Magnesium Sulphate". The first study of TIVA was done in 1872 using

chloral hydrate, and the common anesthetic agent propofol was licensed in 1986. Journal of the American Medical Association 7a7c90ea14

Usually in lower dosages, magnesium is commonly included in dietary mineral preparations, including many multivitamin preparations. Chelated magnesium is sometimes used to aid in absorption. 7a7c90ea14

Calcium gluconate As a medication it is used by injection into a vein to treat low blood calcium, high blood potassium, and magnesium toxicity. Medical Calcium gluconate is the calcium salt of gluconic acid and is used as a mineral supplement and medication. Supplementation is generally only required when there is not enough calcium in the diet. Al-Harmi J, Vedi HL, Mlechkova L, Sayed AF, Al-Ragum NS (2008). It can also be taken by mouth but is not recommended for injection into a muscle. "Magnesium sulphate therapy in women with pre-eclampsia and eclampsia in Kuwait",. Supplementation may be done to treat or prevent osteoporosis or rickets 7a7c90ea14

== Spelling == 7a7c90ea14

Magnesium (medication) They are used to treat magnesium deficiency, low blood magnesium, eclampsia, and several other conditions. Magnesium is an essential nutrient. Magnesium salts are available as a medication in a number of formulations. They are used to treat magnesium deficiency, low blood magnesium, eclampsia Magnesium salts are available as a medication in a number of formulations 7a7c90ea14

The freshwater-seawater interface is a dynamic boundary where freshwater mixes with seawater. An interface in Coastal Hydrogeology refers to the location that freshwater from aquifer meets seawater. Steady freshwater-seawater interface is an equilibrium stage where the boundary locates in a relatively fixed location, while seawater intrusion or a strong recharge rate breaks the equilibrium, leading to an unsteady freshwater-seawater interface. Mixing of groundwater and seawater creates a special chemical system that is a good indicator to show the interaction and the interface. 7a7c90ea14 Calcium gluconate came into medical use in the 1920s. It is on the World Health Organization's List of Essential Medicines. Calcium gluconate is available as a generic medication. 7a7c90ea14

Sulfate Sulfates are salts of sulfuric acid and many are prepared from that acid. sulfate or sulphate ion is a polyatomic anion with the empirical formula SO_4^{2-} . Sulfates occur widely in everyday life. Salts, acid derivatives, and peroxides of sulfate are widely used in industry The sulfate or sulphate ion is a polyatomic anion with the empirical formula SO_4^{2-} . Salts, acid derivatives, and peroxides of sulfate are widely used in industry 7a7c90ea14

Anti-asthmatic agent "Safety and Effectiveness of Magnesium Sulphate for Severe Acute Asthma Management Among Under-five Children: Systematic An anti-asthmatic agent, also known as an anti-asthma drug, refers to a drug that can aid in airway smooth muscle dilation to allow normal breathing during an asthma attack or reduce inflammation on the airway to decrease airway resistance for asthmatic patients, or both. Hikma; Lulseged, Kalkidan (2023-03-03). The goal of asthmatic agents is to reduce asthma exacerbation frequencies and related hospital visits 7a7c90ea14

== Epidemiology == 7a7c90ea14 Obstetrics: Magnesium sulfate is used to prevent seizures in women with preeclampsia and eclampsia, and is also used for fetal neuroprotection in preterm deliveries, but has been shown to be an ineffective tocolytic agent. 7a7c90ea14 After education at Winchester College and then at New College, Oxford, he studied medicine at the London Hospital and graduated BM BCh Oxon in 1905. After junior appointments at the London Hospital, he studied at Freiburg and Berlin, and then was appointed demonstrator of clinical pathology at the London Hospital. In 1906 he graduated DM Oxon and also qualified MRCS (Member of the Royal College of Surgeons), LRCP (Licentiate of the Royal College of Physicians). In 1908 he qualified MRCP. In the 1920s he also held appointments to the Poplar Hospital and the Great Northern Hospital. 7a7c90ea14 Cerebral vasospasm is a common and severe complication following aneurysmal subarachnoid hemorrhage, occurring in 50-90% of cases after aneurysm rupture. Moderate or severe vasospasm in one or more cerebral arteries develops in approximately two-thirds of patients with ruptured aneurysms. Of these, nearly half exhibit symptoms of cerebral ischemia. Infarction occurs in about half of the symptomatic patients and is significantly associated with factors such as advanced age, a history of hypertension, or diabetes mellitus. Despite improvements in the management of subarachnoid hemorrhage, the overall risk of death and disability remains... 7a7c90ea14 His book A Synopsis of Medicine (1920) has a general arrangement that follows Osler's The Principles and Practice of Medicine. Tidy's Synopsis had a 5th edition in 1930 and a 10th edition in 1954. He was the editor of Index of Symptomatology (1928) and the co-editor of The Medical Annual: A Yearbook of Treatment and Practitioners'... 7a7c90ea14 The Global Initiative for Asthma (GINA) is the official guideline on the usage of anti-asthmatic agents. The GINA guideline outlines the class, dosage, and administration of anti-asthmatic agents prescription depending on the severity of asthma symptoms... 7a7c90ea14 In WWI he joined the RAMC and attained the rank of major. In 1919, he was appointed an assistant physician to St Thomas' Hospital and was elected FRCP. 7a7c90ea14 Using this new mode of delivery, many chemical compounds were tested... 7a7c90ea14 Human activities such as pumping of groundwater and land reclamation break the equilibrium, leading to seawater intrusion, development of a seepage zone or pollution of the ocean. The interaction between groundwater system... 7a7c90ea14 == External uses == 7a7c90ea14 In the mid-19th century, specific equipment was developed to enable intravenous anesthesia. Francis Rynd developed the hollow needle in 1845, and Charles Gabriel Pravaz developed the syringe in 1853, which allowed drugs to be administered intravenously. 7a7c90ea14 == Medical uses == 7a7c90ea14 == Background == 7a7c90ea14

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