

Compression For Clinicians

Intermittent pneumatic compression

Intermittent pneumatic compression is a therapeutic technique used in medical devices that include an air pump and inflatable auxiliary sleeves, gloves

Intermittent pneumatic compression is a therapeutic technique used in medical devices that include an air pump and inflatable auxiliary sleeves, gloves or boots in a system designed to improve venous circulation in the limbs of patients who have edema or the risk of deep vein thrombosis (DVT), pulmonary embolism (PE), or the combination of DVT and PE, venous thromboembolism (VTE).

In use, an inflatable jacket (sleeve, glove, trousers or boot) encloses the limb requiring treatment, and pressure lines are connected between the jacket and the air pump. When activated, the pump fills the air chambers of the jacket in order to pressurize the tissues in the limb, thereby forcing fluids, such as blood and lymph, out of the pressurized area. A short time later, the pressure is reduced, allowing increased...

Median arcuate ligament syndrome

heard by a clinician. The diagnosis of MALS is one of exclusion, as many healthy patients demonstrate some degree of celiac artery compression in the absence

In medicine, the median arcuate ligament syndrome (MALS, also known as celiac artery compression syndrome, celiac axis syndrome, celiac trunk compression syndrome or Dunbar syndrome) is a rare condition characterized by abdominal pain attributed to compression of the celiac artery and the celiac ganglia by the median arcuate ligament. The abdominal pain may be related to meals, may be accompanied by weight loss, and may be associated with an abdominal bruit heard by a clinician.

The diagnosis of MALS is one of exclusion, as many healthy patients demonstrate some degree of celiac artery compression in the absence of symptoms. Consequently, a diagnosis of MALS is typically only entertained after more common conditions have been ruled out. Once suspected, screening for MALS can be done with ultrasonography...

Brain herniation

fail to constrict in response to light. Vomiting can also occur due to compression of the vomiting center in the medulla oblongata. Severe headaches and

Brain herniation is a potentially deadly side effect of very high pressure within the skull that occurs when a part of the brain is squeezed across structures within the skull. The brain can shift across such structures as the falx cerebri, the tentorium cerebelli, and even through the foramen magnum (the hole in the base of the skull through which the spinal cord connects with the brain). Herniation can be caused by a number of factors that cause a mass effect and increase intracranial pressure (ICP): these include traumatic brain injury, intracranial hemorrhage, or brain tumor.

Herniation can also occur in the absence of high ICP when mass lesions such as hematomas occur at the borders of brain compartments. In such cases local pressure is increased at the place where the herniation occurs...

Hold-ups

circulation, which some clinicians consider beneficial following gynaecological procedures. In hospital settings, compression variants of hold-ups are

Hold-ups or stay-ups (in the United States also referred to as thigh-high stockings or simply thigh highs) are a form of stockings with an elasticised band at the top. They are designed to hold themselves up on the thigh when worn, without the use of a suspender or garter belt.

Typically made of nylon or elastane; the top of the stocking is lined with a silicone or rubberised strip and may be covered by lace or decorative fabric. Some manufacturers refer to this style as garter stockings. First popularised in the mid-20th century, hold-ups are now widely used in fashion, performance, and entertainment contexts.

Spurling's test

the corresponding dermatome ipsilaterally. It is a type of cervical compression test. Patients with a positive Spurling's sign can present with a variety

The Spurling test is a medical maneuver used to assess nerve root pain (also known as radicular pain).

Cubital tunnel

which allows passage of the ulnar nerve around the elbow. Persistent compression of the ulnar nerve in the cubital tunnel is known as cubital tunnel syndrome

The cubital tunnel is a space of the dorsal medial elbow which allows passage of the ulnar nerve around the elbow. Persistent compression of the ulnar nerve in the cubital tunnel is known as cubital tunnel syndrome.

Thrombosis prevention

injury. If you're at risk for DVT, talk to your doctor

about: Graduated compression stockings (sometimes called "medical compression stockings")
Medication

Thrombosis prevention or thromboprophylaxis is medical treatment to prevent the development of thrombosis (blood clots inside blood vessels) in those considered at risk for developing thrombosis. Some people are at a higher risk for the formation of blood clots than others, such as those with cancer undergoing a surgical procedure. Prevention measures or interventions are usually begun after surgery as the associated immobility will increase a person's risk.

Blood thinners are used to prevent clots, these blood thinners have different effectiveness and safety profiles. A 2018 systematic review found 20 studies that included 9771 people with cancer. The evidence did not identify any difference between the effects of different blood thinners on death, developing a clot, or bleeding. A 2021 review...

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not back out for editing. Other formats, such as EPUB, use open standards, are easily edited or converted, and achieve similar compression rates. iSiloX

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computers as well as Apple iPhone, Android, Windows Phone 7 and HP webOS smartphones. iSilo has direct support for reading these document types: iSilo 4.x, iSilo 3.x, iSilo 2.x, Palm Doc, and plain text files (.txt). However it has largely fallen out of use due to its one-way nature — documents can be converted to iSilo format, but not back out for editing. Other formats, such as EPUB, use open standards, are easily edited or converted, and achieve similar compression rates.

Neuro-oncology

helpful. A team approach, using clinicians with different areas of expertise, is helpful. Provide a reliable and simple method for the patient to seek help.

Neuro-oncology is the study of brain and spinal cord neoplasms, many of which are (at least eventually) very dangerous and life-threatening (astrocytoma, glioma, glioblastoma multiforme, ependymoma, pontine glioma, and brain stem tumors are among the many examples of these). Among the malignant brain cancers, gliomas of the brainstem and pons, glioblastoma multiforme, and high-grade (highly anaplastic) astrocytoma/oligodendroglioma are among the worst. In these cases, untreated survival usually amounts to only a few months, and survival with current radiation and chemotherapy treatments may extend that time from around a year to a year and a half, possibly two or more, depending on the patient's condition, immune function,

treatments used, and the specific type of malignant brain neoplasm....

Traumatic cardiac arrest

that may result in cardiac arrest in the setting of trauma. Clinicians will rapidly assess for these causes, and interventions will be directed to the specific

Traumatic cardiac arrest (TCA) is a condition in which the heart has ceased to beat due to blunt or penetrating trauma, such as a stab wound to the thoracic area. It is a medical emergency which will always result in death without prompt advanced medical care. Even with prompt medical intervention, survival without neurological complications is rare. In recent years, protocols have been proposed to improve survival rate in patients with traumatic cardiac arrest, though the variable causes of this condition as well as many coexisting injuries can make these protocols difficult to standardize. Traumatic cardiac arrest is a complex form of cardiac arrest often derailing from advanced cardiac life support in the sense that the emergency team must first establish the cause of the traumatic arrest...

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