

1 REHABILITATION FROM RESUSCITATION

Daily respiratory support and kinetic therapy for hypostatic gas exchange disorders in the most vulnerable patients.

PREVENTION OF COMPLICATIONS

Bed rest in respiratory-compromised patients reduces their chances of rapid rehabilitation. Respiratory complications are the leading cause of hospitalization and prolonged stay in high dependency units.

REDUCED TIME IN THE HOSPITAL

High-cost clinical departments bear the economic burden of treating a large number of patients with severe premorbid backgrounds. The main task of medical pharmacoeconomics is to prevent the development of formidable respiratory complications. This is especially important in the spectrum of the growing cost of treating infections with resistant nosocomial strains.

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physicians have achieved great effectiveness with PERCUTON in various areas:

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DRAINAGE

Focused vibration effect on the respiratory tract provides natural evacuation of sputum from small-caliber bronchi. This is crucial for patients whose respiratory status is at risk



OPENING THE LUNGS

Careful and physiological restoration of normal aeration of the lung fields is ensured by comfortable vibrations over a large area of the chest with a variable frequency of oscillation. An increase in lung functional residual capacity depends directly on the treatment of atelectasis

GRAVITY

The kinetic effect on the lung parenchyma through vibrations on the chest confirms the elementary laws of physis; the lungs are heterogeneous in structure and perfusion, and gas exchange is effective on euvolemic lungs.

As a rule, patients need to be "turned and shaken" a little so

that they do not fall into the extremely costly trap of respiratory complications for vital functions.

Respiratory failure is permanent. It's easier to treat the signs

Find out more on Youtube:













Using Vibroacoustic Therapy in a Patient With Co-Infection and COVID-19

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who experienced pain, swelling, hyperemia, the presence of a wound of the right knee joint, impaired function of the right lower limb, weakness, fatigue, and labored Edited by: breathing. Sepsis was detected in the patient as a result of periprosthetic infection with concomitant severe COVID-19. The patient was admitted to the hospital for 59 days, with 57 days of treatment of the patient at the intensive care unit. A therapy Reviewed by: of multiple organ failure involved complex treatment using antiviral and combined antibiotic therapy, taking into account the sensitivity of the pathogen to antibiotics; glucocorticoid therapy; anticoagulant therapy; the concept of non-invasive ventilation; and vibroacoustic pulmonary therapy as a method of physiotherapy as well. An integrated approach using a vibroacoustic device in the therapy of the patient with sepsis due to periprosthetic infection with concomitant coronavirus infection had a positive effect despite the lack of etiological treatment against the COVID-19.

The present report highlights a case of successful treatment of a 59-year-old patient

Keywords: COVID-19, periprosthetic joint infection, vibroacoustic therapy, co-infection, case report

INTRODUCTION

During the pandemic caused by the COVID-19, humankind has faced difficulties in all areas of Frontiers in Medicine

their lives. Particularly this pandemic situation affected workers in the field of medicine and health.

For example, surgeons had to perform surgical procedures for patients with confirmed coronavirus

infection who needed immediate treatment (1-3).

Periprosthetic joint infection (PJI) is a severe sequel that occurs in 1-2% of patients with Citation: primary arthroplasties. This condition is associated with a high sickness rate and requires complex therapy strategies (4, 5). Patients with the diagnosis of PJI complicated by coronavirus or bacterial co-infection in most cases face an unfavorable outcome of the treatment (6–8).

Vibroacoustic therapy (VAT) is a kind of sound treatment that implicates transiting pure low

requency sine wave vibrancies into the body using an apparatus with coupled speakers (9). VAT has been endorsed for relieving a pain, increasing a circulation and movability of a patient (10). It also has been examined in therapy of such diseases as fibromyalgia (11), cerebral palsy, and Alzheimer's





