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Observational Study

Sonographic muscle mass assessment in patients after cardiac surgery

Dimopoulos S *et al.* Muscle mass assessment after cardiac surgery

Stavros Dimopoulos, Vasiliki Raidou, Dimitrios Elaiopoulos, Foteini Chatzivasiloglou, Despoina Markantonaki, Efterpi Lyberopoulou, Ioannis Vasileiadis, Katerina Marathias, Serafeim Nanas, Andreas Karabinis

Abstract

BACKGROUND

Patients undergoing cardiac surgery particularly those with comorbidities and frailty, experience frequently higher rates of post-operative morbidity, mortality and prolonged hospital length of stay. Muscle mass wasting seems to play important role in prolonged mechanical ventilation (MV) and consequently in intensive care unit (ICU) and hospital stay.

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[Muscle mass, strength and functional outcomes in ...](#)

<https://ccforum.biomedcentral.com/articles/10.1186/s13054-016-1199-3> ▾

Mar 07, 2015 · Background. The effects of neuromuscular electrical stimulation (NMES) in critically ill **patients after cardiothoracic surgery** are unknown. The objectives were to investigate whether NMES prevents loss of **muscle** layer thickness (MLT) and strength and to observe the time variation of MLT and strength from preoperative day to hospital discharge.

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Author: Arabella Fischer, Matthias Spiegl, Klaus ...

Publish Year: 2016

Author: Arabella Fischer

[Sonographic assessment of swallowing in irradiated ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6585784>

Apr 18, 2018 · Objectives/Hypothesis. Ultrasonography is an emerging clinical tool to study the dysfunction of swallowing muscles. This was the first **sonographic** study to assess the relationship between suprahyoid **muscle** contraction, hyoid bone displacement, and penetration-aspiration status (PAS) during swallowing in nasopharyngeal carcinoma (NPC) **patients** treated with radiotherapy (RT).

Author: Dennis T. H. Cheng, Kathy Y. S. Lee, ...

Publish Year: 2018

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4608091>

Jul 09, 2015 · Our results correspond with findings that have examined BMI and mortality, in that moderate obesity provides a protective effect in **patients** who undergo **cardiac surgery** 20, 21, 23, 36 – 38 and the general population. 1, 39 However, limitations in past studies include a short follow-up of 3 years or less, 33, 36, 38, 40 a small sample, and ...

Cited by: 66**Author:** Ana P. Johnson, Joel L. Parlow, Marlo Whit...**Publish Year:** 2015

Surveillance Neck Sonography After Thyroidectomy for ...

<https://onlinelibrary.wiley.com/doi/full/10.7863/ultra.16.08086>

Apr 10, 2017 · A **sonographic examination of the neck** performed 6 to 12 months **after thyroid surgery** in **patients** with differentiated **thyroid cancer** is strongly recommended by the American **Thyroid Association** and considered mandatory by the European **Thyroid Association** for ...

Cited by: 2**Author:** Wynne Yuru Chua, Jill E. Langer, Lisa P. Jon...**Publish Year:** 2017

Neuromuscular Ultrasound for Evaluation of the Diaphragm

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3581727>

Anterior Subcostal View. The **anterior subcostal view** is the preferred method for evaluating **diaphragm excursion**. It requires a lower frequency, ideally curvilinear, transducer (2 to 6 MHz) placed between the mid-clavicular and anterior axillary lines, in the anterior subcostal region (Figure 3).

Cited by: 168**Author:** Aarti Sarwal, Francis O. Walker, Michael S. ...**Publish Year:** 2013



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Jul 09, 2015 · Our results correspond with findings that have examined BMI and mortality, in that moderate obesity provides a protective effect **in patients** who undergo **cardiac surgery** 20, 21, 23, 36 – 38 and the general population. 1, 39 However, limitations in past studies include a short follow-up of 3 years or less, 33, 36, 38, 40 a small sample, and ...

Cited by: 66

Author: Ana P. Johnson, Joel L. Parlow, Marlo Wh...

Publish Year: 2015

[\[PDF\] The impact of preoperative sarcopenia, defined based on ...](#)

[https://www.jtcvs.org/article/S0022-5223\(18\)32032-4/pdf](https://www.jtcvs.org/article/S0022-5223(18)32032-4/pdf)

Objective: Sarcopenia, age-related loss of **muscle mass**, is an objective and comprehensive marker of frailty. We aimed to clarify the influence of sarcopenia on the outcomes **after heart valve surgery**.

Methods: We retrospectively reviewed 1119 **patients** who underwent valve **surgery** via median sternotomy at our institution from June 2009 to ...

[Assessment and pathophysiology of pain in cardiac surgery](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6112778>

Aug 24, 2018 · Pain **after cardiac surgery** is most severe during the first 24 hours and decreases on subsequent days, because it is a "self-limiting" phenomenon.^{8,9} Pain is the most severe **in patients after** open thoracic **surgery**.^{4,10} **Patients** undergoing **surgery** with the use of cardiopulmonary bypass report slightly higher pain intensity than those in whom ...

Cited by: 4

Author: Marek Zubrzycki, Andreas Liebold, Christi...

Publish Year: 2018

[Postoperative loss of skeletal muscle mass, complications ...](#)

<https://www.sciencedirect.com/science/article/pii/S0899900711000864>

Introduction. Preoperatively approximately 10% to 25% of **patients** undergoing **cardiac surgery** are