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Observational Study

Factors predisposing to thrombosis after major joint arthroplasty

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Abstract

BACKGROUND

Total joint arthroplasty is one of the most common options for end stage osteoarthritis of major joints. However, we must take into account that thrombosis after hip/knee arthroplasty may be related to mutations in gene encoding for blood coagulation factors

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Sep 16, 2012 · Rudolph Virchow proposed that 3 etiologic factors give rise to thrombosis: **vascular endothelial damage**, **stasis of blood flow**, and **hypercoagulability of blood**. Risk for **VTE increases** as predisposing factors increase (Box 1). TJA exposes a patient to each portion of the triad during the operative period.

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Postoperative **deep vein thrombosis (DVT)** occurs most often in the large veins of the legs in patients undergoing **major joint arthroplasty** and **major** surgical procedures. These patients remain at high **risk** for venous thromboembolic events.

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Publish Year: 2011

Venous thromboembolism after total knee and hip arthroplasty

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6274659>

Aug 15, 2018 · **Venous thromboembolism (VTE)**, including **deep vein thrombosis (DVT)** and pulmonary embolism (PE), are **major complications** following **total knee arthroplasty (TKA)** and **total hip arthroplasty (THA)**.¹ In the absence of thromboprophylaxis use, the incidence of DVT following a **major orthopedic surgery** has been noted to be as high as 40-60% after THA and 40-85% after TKA.² These ...

Cited by: 1

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Feb 10, 2015 · Risk factors found to be associated with VTE of both total hip arthroplasty and total knee arthroplasty included older age, female sex, higher BMI, **bilateral surgery**, **surgery time > 2 hours**. **VTE** history was found as a **VTE risk factor** of THA but an controversial **factor** of TKA.

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Sep 16, 2012 · 2. Pathogenesis. Rudolph Virchow proposed that 3 etiologic **factors** give rise to **thrombosis**: vascular endothelial damage, stasis of blood flow, and hypercoagulability of blood [1]. **Risk** for VTE increases as **predisposing factors** increase (Box 1). TJA exposes a patient to each portion of the triad during the operative period.

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<https://www.nature.com/articles/s41598-020-67365-z>

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Patients who are obese, undergo **knee procedures**, have an **elevated Charlson Comorbidity Index**, **chronic obstructive pulmonary disease**, **atrial fibrillation**, **anemia**, **depression**, or **postoperative deep vein thrombosis** are at greater risk of having a postoperative PE develop.

Cited by: 80**Author:** Javad Parvizi, Ronald Huang, Ibrahim J....**Publish Year:** 2014

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