

Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 57579

Manuscript Type: ORIGINAL ARTICLE

Observational Study

Factors predisposing to thrombosis after major joint arthroplasty

Zoe H Dailiana, Nikolaos Stefanou, Sokratis Varitimids, Nikolaos Rigopoulos, Apostolos Dimitroulias, Theofilos Karachalios, Konstantinos N Malizos, Despoina Kyriakou, Panagoula Kollia

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

Match Overview

1	Internet 145 words crawled on 25-Mar-2017 www.ors.org	4%
2	Internet 52 words crawled on 23-Jan-2020 onlinelibrary.wiley.com	1%
3	Internet 47 words crawled on 30-May-2020 www.nejm.org	1%
4	Crossref 30 words "Prevalence of Prothrombotic Polymorphisms in Greece", Genetic Testing, 12/2008	1%
5	Crossref 30 words Xindie Zhou, Wenkang Qian, Jin Li, Pengli Zhang, Zhigao Yang, Weiping Chen, Lidong Wu. "Who are at risk for thrombosis in patients with G20210A mutation in the prothrombin gene?"	1%
6	Crossref 28 words Jose Ramon Gonzalez-Porras. "Risk of recurrent venous thrombosis in patients with G20210A mutation in the prothrombin gene"	1%
7	Internet 22 words crawled on 28-Oct-2010 scalpel.stanford.edu	1%



ALL

IMAGES

VIDEOS

15,100,000 Results

Any time ▾

Thromboembolic Prophylaxis in Total Joint Arthroplasty

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3458274>

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.

Cited by: 14

Author: David Knesek, Todd C. Peterson, David C. M...

Publish Year: 2012

Impact of venous thromboembolism on clinical management ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3195664>

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.

Cited by: 31

Author: William D. Fisher

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

Author: Mosaad O. Almegren, Alhanouf A. Alhedaith...

Publish Year: 2018

Risk factors for venous thromboembolism of total hip ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4328702>

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.



ALL

IMAGES

VIDEOS

740,000 Results

Any time ▾

Thromboembolic Prophylaxis in Total Joint Arthroplasty

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3458274>

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.

Cited by: 14

Author: David Knesek, Todd C. Peterson, David ...

Publish Year: 2012

Preoperative incidence and locations of deep venous ...

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

Jun 24, 2020 · In elective **major orthopaedic surgeries** such as **arthroplasties** or orthopaedic trauma (hip fracture), **diabetes** was a well-known **risk factor** for DVT 23, 24, 25, which was related to the **diabetic...**

Symptomatic Pulmonary Embolus After Joint Arthroplasty ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3916633>

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

Deep venous thrombosis prophylaxis for total joint ...

<https://europepmc.org/article/MED/18922368> ▾

Deep venous thrombosis prophylaxis for total **joint** arthroplasty: American Academy of Orthopaedic Surgeons guidelines. 1 Coronavirus: Find the latest articles and preprints

Predictors of Intensive Care Unit Admission After Total

15,100,000 Results Any time ▾

[Thromboembolic Prophylaxis in Total Joint Arthroplasty](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3458274>

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.

Cited by: 14 **Author:** David Knesek, Todd C. Peterson, David ...

Publish Year: 2012

[Impact of venous thromboembolism on clinical management ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3195664>

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.

Cited by: 31 **Author:** William D. Fisher

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 ...

Cited by: 1 **Author:** Mosaad O. Almegren, Alhanouf A. Alheda...

Publish Year: 2018

[Risk factors for venous thromboembolism of total hip ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4328702>

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.

Cited by: 23 **Author:** Zi-hao Zhang, Bin Shen, Jinq Yang, Zong...