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**Appendix**

**1 - Concerning VTE risk, which surgeries can be considered major, and which surgeries can be considered non-major in hand surgery?**

**Search Terms:**

(hand OR “hand”[Mesh]) AND (surgery OR surgeries OR "Orthopedic Procedures"[Mesh] OR nerve repair OR arthroplasty OR arthroplasties OR closed fixation OR closed reduction) AND ("Embolism and Thrombosis"[Mesh] OR venous thromboembolism OR venous thrombosis OR pulmonary embolism OR embolus OR embolism OR thrombosis OR thromboses OR thrombus OR thromboembolisms OR deep vein thrombosis OR pe OR vte OR dvt OR blood clot OR blood clots) AND (venous thromboembolism risk OR vte riskOR risk characteristics OR risk stratification OR risk-stratification OR risk score OR risk estimation OR risk model OR "Risk Assessment"[Mesh] OR "Risk Factors"[Mesh] OR "Health Status Indicators"[Mesh] OR score OR caprini score OR Brigham and Women's Hospital Model OR kucher model OR ram OR risk assessment model OR multivariable model OR Padua VTE RAM OR 7-factor IMPROVE VTE RAM OR Premier VTE Risk Model OR intermountain OR medenox ram OR predict OR prediction OR Padua Prediction Score)

Total: 607 search results

**Inclusion Criteria**
Inclusion criteria were

(1) both clinical and preclinical studies with any level of evidence

(2) published in peer-reviewed journals in English,

(3) investigated the role of venous thromboembolism (VTE) prophylaxis in hand surgery.

* **Exclusion Criteria**
Data was not accessible or missing, or those without an available full-text article.
* Studies with poor scientific methodology as per risk of bias assessment.
* Abstracts, case reports, conference presentations, reviews, editorials, and expert opinions.

**2 - Is routine VTE prophylaxis required for patients undergoing wrist surgery?**

**Search Terms:**

(Wrist OR "Wrist Joint"[Mesh] OR "Wrist"[Mesh] OR "Wrist Injuries"[Mesh]) AND (surgery OR surgeries OR "Orthopedic Procedures"[Mesh]) AND (prophylaxis OR prophylaxed OR Prophylactically OR "Embolism and Thrombosis"[Mesh] OR venous thromboembolism OR venous thrombosis OR pulmonary embolism OR embolus OR embolism OR thrombosis OR thromboses OR thrombus OR thromboembolisms ORvdeep vein thrombosis OR pe OR vte OR dvt OR blood clot OR blood clots OR anti-clotting OR Antithrombotic OR anti-thrombotic OR anticoagulation OR anti-coagulation OR heparin OR lmwh OR low molecular weight heparin OR low-molecular-weight heparin OR "Heparin"[Mesh] OR "Heparin, Low-Molecular-Weight"[Mesh] OR "Dalteparin"[Mesh] OR Dalteparin OR Fragmin OR "Enoxaparin"[Mesh] OR Enoxaparin OR Lovenox OR "Nadroparin"[Mesh] OR Nadroparin OR Fraxiparin OR "Tinzaparin"[Mesh] OR tinzaparin OR innohep OR low dose unfractionated heparin OR low-dose unfractionated heparin OR lduh OR "Factor Xa Inhibitors"[Mesh] OR direct factor xa inhibitor OR apixaban OR Eliquis OR betrixaban OR bevyxxa OR edoxaban OR savaysa OR rivaroxaban OR "Rivaroxaban"[Mesh] OR Xarelto OR Indirect factor xa inhibitors OR fondaparinux OR "Fondaparinux"[Mesh] OR fondaparin OR arixtra OR direct thrombin inhibitors OR "Antithrombins"[Mesh] OR dabigatran OR Pradaxa OR ximelagatran OR exanta OR vitamin k antagonists OR vka OR warfarin OR "Warfarin"[Mesh] OR coumadin OR aspirin OR "Aspirin"[Mesh] OR salicylate OR "Salycylates"[Mesh])

Total: 725 search results

**Inclusion Criteria**
(1) both clinical and preclinical studies with any level of evidence

(2) published in peer-reviewed journals in English,

(3) investigated the role of venous thromboembolism (VTE) prophylaxis in wrist surgery.

**Exclusion Criteria**

* data was not accessible or missing, or those without an available full-text article.
* studies with poor scientific methodology as per risk of bias assessment.

Abstracts

**3 - Is routine VTE prophylaxis required for patients undergoing finger surgery?**

**Search Terms:**

(Finger OR fingertip OR “Fingers”[Mesh] OR “finger joint” [Mesh] OR “finger injuries” [Mesh] or Thumb) AND (Surgery OR Surgeries OR “Orthopedic Procedures” [Mesh] OR reconstructive OR reconstruction OR “reconstructive surgical procedures” [Mesh] OR replantation OR “replantation” [Mesh] OR transplantation OR “transplantation” [Mesh]) AND (prophylaxis OR prophylaxed OR Prophylactically OR "Embolism and Thrombosis"[Mesh] OR venous thromboembolism OR venous thrombosis OR pulmonary embolism OR embolus OR embolism OR thrombosis OR thromboses OR thrombus OR thromboembolisms ORvdeep vein thrombosis OR pe OR vte OR dvt OR blood clot OR blood clots OR anti-clotting OR Antithrombotic OR anti-thrombotic OR anticoagulation OR anti-coagulation OR heparin OR lmwh OR low molecular weight heparin OR low-molecular-weight heparin OR "Heparin"[Mesh] OR "Heparin, Low-Molecular-Weight"[Mesh] OR "Dalteparin"[Mesh] OR Dalteparin OR Fragmin OR "Enoxaparin"[Mesh] OR Enoxaparin OR Lovenox OR "Nadroparin"[Mesh] OR Nadroparin OR Fraxiparin OR "Tinzaparin"[Mesh] OR tinzaparin OR innohep OR low dose unfractionated heparin OR low-dose unfractionated heparin OR lduh OR "Factor Xa Inhibitors"[Mesh] OR direct factor xa inhibitor OR apixaban OR Eliquis OR betrixaban OR bevyxxa OR edoxaban OR savaysa OR rivaroxaban OR "Rivaroxaban"[Mesh] OR Xarelto OR Indirect factor xa inhibitors OR fondaparinux OR "Fondaparinux"[Mesh] OR fondaparin OR arixtra OR direct thrombin inhibitors OR "Antithrombins"[Mesh] OR dabigatran OR Pradaxa OR ximelagatran OR exanta OR vitamin k antagonists OR vka OR warfarin OR "Warfarin"[Mesh] OR coumadin OR aspirin OR "Aspirin"[Mesh] OR salicylate OR "Salycylates"[Mesh])

Total: 1534 search results

**Inclusion Criteria**

(1) both clinical and preclinical studies with any level of evidence

(2) published in peer-reviewed journals in English,

(3) investigated the role of venous thromboembolism (VTE) prophylaxis in finger surgery.

**Exclusion Criteria**

* data was not accessible or missing, or those without an available full-text article.
* studies with poor scientific methodology as per risk of bias assessment.
* Abstracts, conference presentations, reviews, editorials, and expert opinions were excluded.

**4 - Should anticoagulants be held prior to performing hand and wrist surgeries?**

**Search Terms**

((((((((((((hand surgery[MeSH Terms]) OR (wrist surgery[MeSH Terms])) OR (carpal tunnel release[MeSH Terms])) OR (cubital tunnel release[MeSH Terms])) OR (trigger finger release[MeSH Terms])) OR (dequervains release[MeSH Terms])) OR (hand fracture fixation[MeSH Terms])) OR (wrist fracture fixation[MeSH Terms])) OR (distal radius fracture fixation[MeSH Terms])) OR (scaphoid fracture fixation[MeSH Terms])) OR (ganglion excision[MeSH Terms])) OR (nerve repair[MeSH Terms])) OR (tendon repair[MeSH Terms])

AND (((((((((((((((((((((((((((((((((((((anticoagulants[MeSH Terms]) OR (antiplatelet agents[MeSH Terms])) OR (oral anticoagulants[MeSH Terms])) OR (inhibitors, platelet aggregation[MeSH Terms])) OR (aspirin[MeSH Terms])) OR (salicylates[MeSH Terms])) OR (agents, nonsteroidal antiinflammatory[MeSH Terms])) OR (ibuprofen[MeSH Terms])) OR (naprosyn[MeSH Terms])) OR (clopidogrel[MeSH Terms])) OR (plavix[MeSH Terms])) OR (thienopyridines[MeSH Terms])) OR (prasugrel[MeSH Terms])) OR (effient[MeSH Terms])) OR (ticagrelor[MeSH Terms])) OR (brilinta[MeSH Terms])) OR (dipyridamole[MeSH Terms])) OR (persantine[MeSH Terms])) OR (vitamin k antagonists[MeSH Terms])) OR (warfarin[MeSH Terms])) OR (coumadin[MeSH Terms])) OR (direct oral anticoagulants[MeSH Terms])) OR (dabigatran[MeSH Terms])) OR (pradaxa[MeSH Terms])) OR (apixaban[MeSH Terms])) OR (eliquis[MeSH Terms])) OR (enoxaban[MeSH Terms])) OR (savaysa[MeSH Terms])) OR (rivaroxaban[MeSH Terms])) OR (xarelto[MeSH Terms])) OR (betrixaban[MeSH Terms])) OR (beyyxxa[MeSH Terms])) OR (heparin[MeSH Terms])) OR (heparin, low molecular weight[MeSH Terms])) OR (enoxaparin[MeSH Terms])) OR (lovenox[MeSH Terms])) OR (dalteparin[MeSH Terms])) OR (fragmin[MeSH Terms])

Total: 593 results

Inclusion

• Hand or wrist surgery (distal to or including the radiocarpal joint)

• Randomized or quasi-randomized trials and observational studies

• Complications related to bleeding reported

• Clinical trials

• English articles

Exclusion

• No control group

• Case reports

• Studies with <10 cases

• Emergency surgery

• Narrative review articles

• Not in English