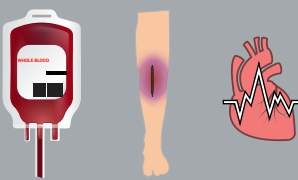
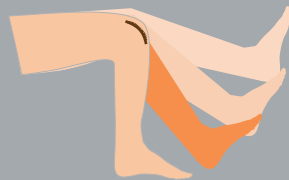
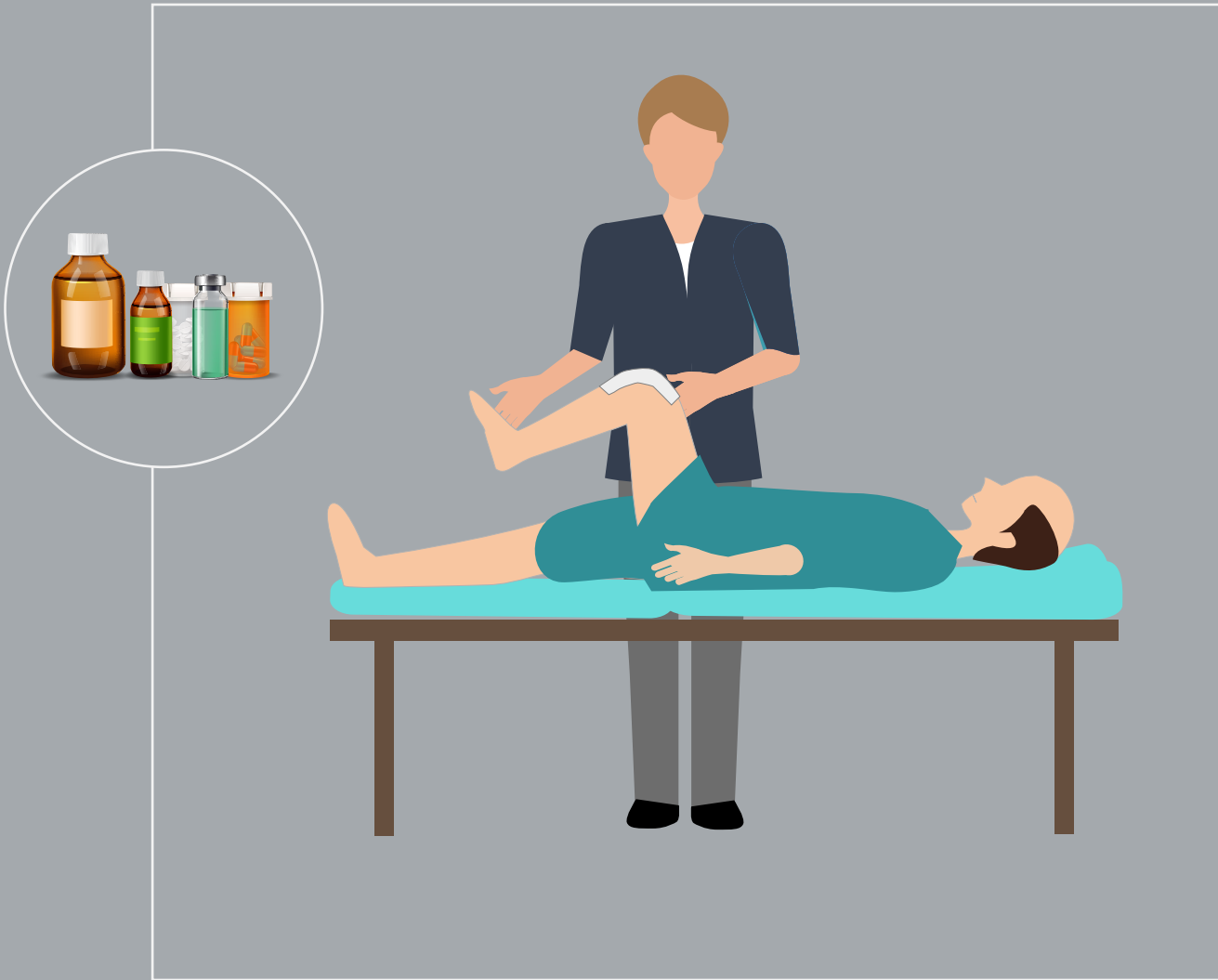


# Postoperative Anticoagulants Affect Knee Manipulation After Total Knee Arthroplasty

The study evaluated the effect of different anticoagulants on postoperative knee stiffness in 32,320 patients who underwent total knee arthroplasty (TKA) patients



Primary outcome:  
Knee manipulation  
≤6 months after  
surgery

Secondary outcome:  
Blood transfusion,  
hematoma, or cardiac  
complications



**1,178 (3.6%)** required knee manipulation **≤6 months**

Risk of knee manipulation significantly increased in patients receiving the following anticoagulants:

Anticoagulant	Hazard ratio for knee manipulation	P value
Warfarin	1.17	0.032
Direct factor Xa Inhibitors	1.42	<0.001
Fondaparinux	1.33	0.038

Hematoma or cardiac complication rates did not differ between anticoagulants



**It is recommended that patients undergoing TKA should be cautioned about the risk of stiffness on being prescribed the above anticoagulants**

Type of Anticoagulant Used After Total Knee Arthroplasty Affects the Rate of Knee Manipulation for Postoperative Stiffness

Kahlenberg et al. (2018)

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