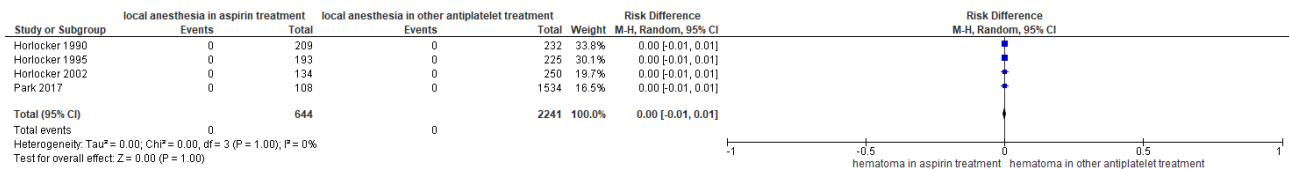


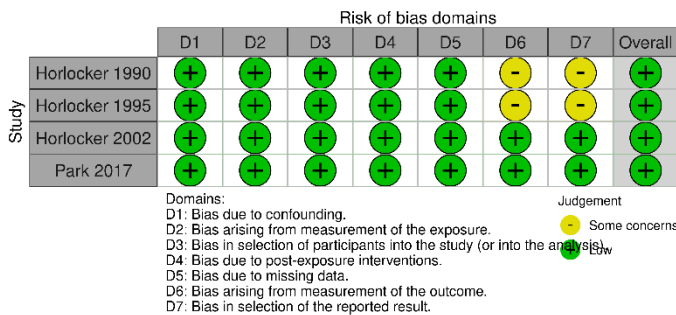
Supplementary Digital Content 1 : Forest Plots and Risk of bias analysis

PICO 1 - *Is it safe to perform a central neuraxial block in patients on cardioaspirin therapy?*

Forest plot PICO 1

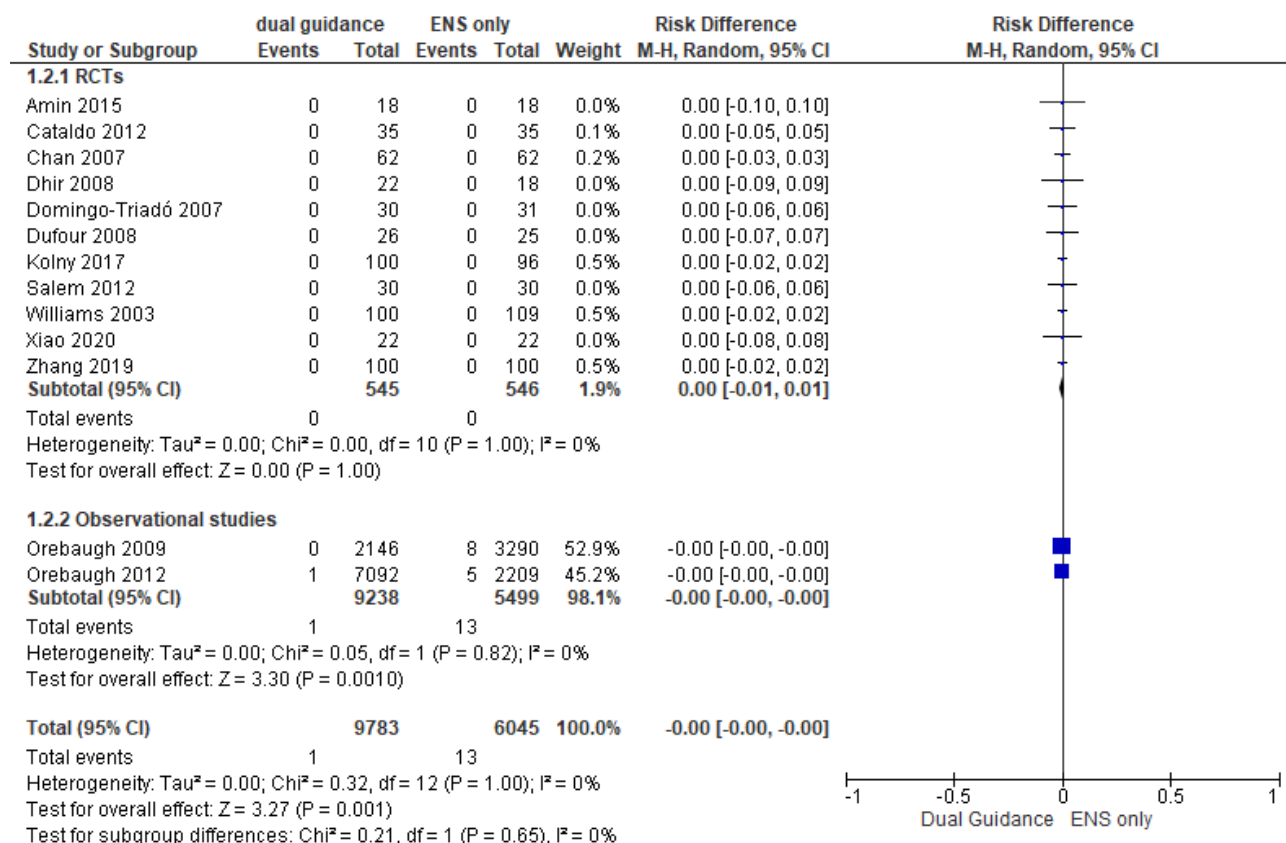


Risk of bias – PICO 1



**PICO 2 - Does the combined use of ultrasound and nerve stimulation (ENS) in peripheral nerve blocks with a motor component in adult patients increase the efficacy and safety of surgical blocks, reducing neurological and nerve damage?**

**Forest plot PICO 2**



**Risk of bias – PICO 2**

	Risk of bias domains					
	D1	D2	D3	D4	D5	Overall
Amin 2015	⊖	⊕	⊖	⊕	⊕	⊕
Cataldo 2012	⊖	⊕	⊕	⊕	⊕	⊕
Chan 2007	⊖	⊕	⊖	⊕	⊕	⊖
Dhir 2008	⊖	⊕	⊕	⊕	⊖	⊕
Domingo-Triadó 2007	⊗	⊖	⊕	⊕	⊖	⊕
Dufour 2008	⊗	⊕	⊖	⊕	⊕	⊕
Kolny 2017	⊗	⊖	⊖	⊖	⊕	⊖
Salem 2012	⊗	⊕	⊕	⊕	⊕	⊕
Williams 2003	⊗	⊕	⊕	⊕	⊕	⊕
Xiao 2020	⊗	⊕	⊕	⊖	⊖	⊕
Zhang 2019	⊕	⊕	⊖	⊕	⊕	⊕

Domains:  
D1: Bias arising from the randomization process.  
D2: Bias due to deviations from intended intervention.  
D3: Bias due to missing outcome data.  
D4: Bias in measurement of the outcome.  
D5: Bias in selection of the reported result.

Judgement  
⊗ High  
⊖ Some concerns  
⊕ Low

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Orebaugh 2009	⊕	⊕	⊕	⊖	⊕	⊖	⊖	⊖
	Orebaugh 2012	⊖	⊕	⊕	⊕	⊕	⊖	⊕	⊕

Domains:

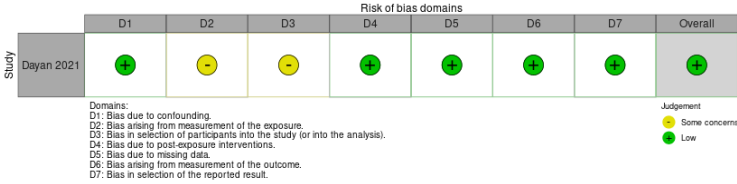
D1: Bias due to confounding.  
D2: Bias arising from measurement of the exposure.  
D3: Bias in selection of participants into the study (or into the analysis).  
D4: Bias due to post-exposure interventions.  
D5: Bias due to missing data.  
D6: Bias arising from measurement of the outcome.  
D7: Bias in selection of the reported result.

Judgement

⊖ Some concerns  
⊕ Low

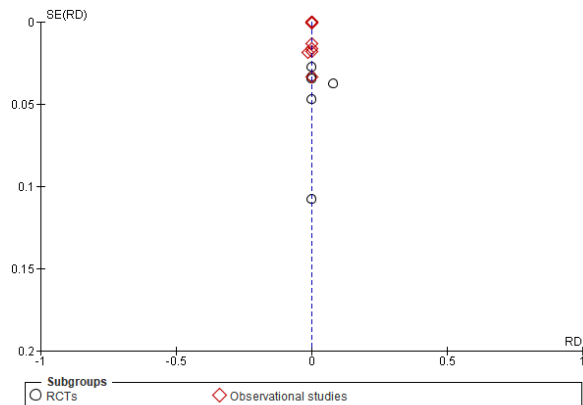
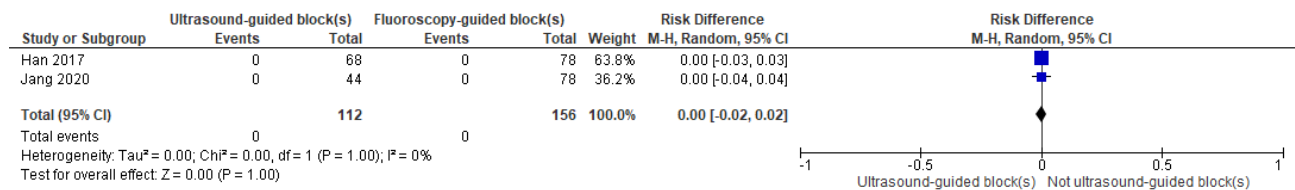
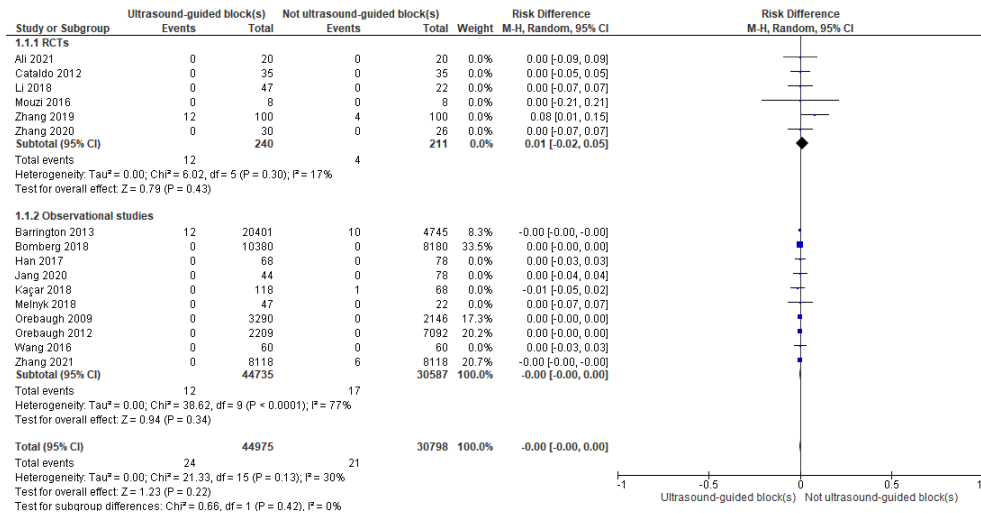
**PICO 3 - Is the use of ultrasound-guided peripheral block techniques safe in adult patients taking Direct Oral Anticoagulants (DOAC) ?**

**Risk of bias – PICO 3**



## PICO 4 - Can the use of ultrasound-guided techniques increase safety in nerve block procedures on adult patients?

### Forest plot PICO 4



### Risk of bias – PICO 4

Study	Risk of bias domains					
	D1	D2	D3	D4	D5	Overall
Ali 2021	High	Low	Low	Low	Low	Low
Cataldo 2012	Low	Low	Low	Low	Low	Low
Li 2018	No information	Low	Low	Low	Low	Low
Mouzi 2016	No information	Low	Low	Low	Low	Low
Zhang 2019	Low	Low	Low	Low	Low	Low
Zhang 2020	Low	Low	Low	Low	Low	Low

Domains:  
D1: Bias arising from the randomization process.  
D2: Bias due to deviations from intended intervention.  
D3: Bias due to missing outcome data.  
D4: Bias in measurement of the outcome.  
D5: Bias in selection of the reported result.

Judgement  
High  
Some concerns  
Low  
No information

Study	Risk of bias domains						
	D1	D2	D3	D4	D5	D6	Overall
Barrington 2013	Low	Low	Low	Low	Low	Low	Low
Bomberg 2018	Low	Low	Low	Low	Low	Low	Low
Han 2017	Low	Low	Low	Low	Low	Low	Low
Jang 2020	Low	Low	Low	Low	Low	Low	Low
Kacar 2018	Low	Low	Low	Low	Low	Low	Low
Melnik 2018	Low	Low	Low	Low	Low	Low	Low
Orebaugh 2009	Low	Low	Low	Low	Low	Low	Low
Orebaugh 2012	Low	Low	Low	Low	Low	Low	Low
Wang 2016	Low	Low	Low	Low	Low	Low	Low
Zhang 2021	Low	Low	Low	Low	Low	Low	Low

Domains:  
D1: Bias due to confounding.  
D2: Bias arising from measurement of the exposure.  
D3: Bias in selection of participants into the study (or into the analysis).  
D4: Bias due to post-exposure interventions.  
D5: Bias due to missing data.  
D6: Bias arising from measurement of the outcome.  
D7: Bias in selection of the reported result.

Judgement  
High  
Some concerns  
Low

**PICO 5- Can a sterile surgical field (using disinfectants, covers, gloves, and sterile drapes) setup for the execution of neuraxial techniques, help reduce the occurrence of infections related to the technique itself?**

#### Risk of bias – PICO 5

		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	Birnback 2003						
	Kasuda 2002						
	Robins 2005						

Domains:  
D1: Bias arising from the randomization process.  
D2: Bias due to deviations from intended intervention.  
D3: Bias due to missing outcome data.  
D4: Bias in measurement of the outcome.  
D5: Bias in selection of the reported result.

Judgement  
 High  
 Some concerns  
 Low

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Kerest 2015								
		Domains: D1: Bias due to confounding. D2: Bias arising from measurement of the exposure. D3: Bias in selection of participants into the study (or into the analysis). D4: Bias due to post-exposure interventions. D5: Bias due to missing data. D6: Bias arising from measurement of the outcome. D7: Bias in selection of the reported result.							Judgement High Some concerns Low

**PICO 6 - In adult patients (≥18 years) undergoing continuous peripheral loco-regional techniques, the preparation of a sterile surgical field (using disinfectant, covers, gloves, drapes, and mask) for the procedure is suggested to reduce the occurrence of infections and ensure patient and procedural safety.**

#### Risk of bias – PICO 6

		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	Harkouk 2021						
		Domains: D1: Bias arising from the randomization process. D2: Bias due to deviations from intended intervention. D3: Bias due to missing outcome data. D4: Bias in measurement of the outcome. D5: Bias in selection of the reported result.					Judgement Some concerns Low

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Kerest 2015								
		Domains: D1: Bias due to confounding. D2: Bias arising from measurement of the exposure. D3: Bias in selection of participants into the study (or into the analysis). D4: Bias due to post-exposure interventions. D5: Bias due to missing data. D6: Bias arising from measurement of the outcome. D7: Bias in selection of the reported result.							Judgement High Some concerns Low

**PICO 7 - Is the use of antiplatelet drugs safe for patients undergoing an ultrasound + ENS guided (dual guidance) peripheral nerve block?**

**PICO 8 - *Is it safe to perform peripheral nerve block techniques with ultrasound guidance and nerve stimulation (dual guidance) in adult patients on anticoagulant therapy?***

**PICO 9 - *Can the use of infusion pressure monitoring techniques, during the performance of peripheral blocks, reduce the onset of neurological complications in adult patients undergoing regional anesthesia techniques?***

**PICO 10 - *Can the preparation of a sterile surgical field (disinfectant, probe covers, gloves, and drapes) for the performance of single-shot peripheral loco-regional techniques help reduce the incidence of infections related to the technique itself?***

**PICO 11 - *Which are the post-procedural monitoring tools for patients undergoing loco-regional techniques?***