

SECIB

BIBLIOGRAPHY OF THE CHAPTER “METHODOLOGY”

BIBLIOGRAPHY**Bibliography of the chapter "Methodology":**

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Bibliography of clinical questions:**PICO1****STRATEGY PUBMED**

((('coumarin derivative'/exp OR 'coumarin derivative' OR 'coumarin'/exp OR 'coumarin' OR 'coumarin anticoagulant'/exp OR 'coumarin anticoagulant' OR 'antivitamin k'/exp OR 'antivitamin k' OR 'dicoumarol'/exp OR 'dicoumarol' OR 'warfarin'/exp OR 'warfarin' OR 'acenocoumarol'/exp OR 'acenocoumarol' OR 'phenprocoumon'/exp OR 'phenprocoumon' OR 'fluindione'/exp OR 'fluindione' OR 'ethyl biscoumacetate'/exp OR 'ethyl biscoumacetate') AND ("last 10 years"[PDat])) AND (((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Ab-

stract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract]) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract]) AND ("last 10 years"[PDat]))

STRATEGY EMBASE

('coumarin derivative'/exp OR 'coumarin derivative' OR 'coumarin'/exp OR 'coumarin' OR 'coumarin anticoagulant'/exp OR 'coumarin anticoagulant' OR 'antivitamin k'/exp OR 'antivitamin k' OR 'dicoumarol'/exp OR 'dicoumarol' OR 'warfarin'/exp OR 'warfarin' OR 'acenocoumarol'/exp OR 'acenocoumarol' OR 'phenprocoumon'/exp OR 'phenprocoumon' OR 'fluindione'/exp OR 'fluindione' OR 'ethyl biscoumacetate'/exp OR 'ethyl biscoumacetate') AND ('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND 'bleeding' AND (2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

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PICO2

STRATEGY PUBMED

((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Abstract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract]) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract]) AND ("Heparin, Low-Molecular-Weight"[Mesh] OR Heparin OR LMWH OR Dalteparin OR Enoxaparin OR Nadroparin OR Tinzaparin)

STRATEGY EMBASE

('bm 2123'/exp OR 'bm 2123' OR 'bm2123'/exp OR 'bm2123' OR 'choay'/exp OR 'choay' OR 'depolymerized heparin'/exp OR 'depolymerized heparin' OR 'ebpm 1'/exp OR 'ebpm 1' OR 'ebpm 2'/exp OR 'ebpm 2' OR 'ebpm 3'/exp OR 'ebpm 3' OR 'ebpm1'/exp OR 'ebpm1' OR 'ebpm2'/exp OR 'ebpm2' OR 'ebpm3'/exp OR 'ebpm3' OR 'ff 1034'/exp OR 'ff 1034' OR 'ff1034'/exp OR 'ff1034' OR 'fr 860'/exp OR 'fr 860' OR 'fr860'/exp OR 'fr860' OR 'gag 869'/exp OR 'gag 869' OR 'heparin lmw 2133'/exp OR 'heparin lmw 2133' OR 'heparin, low molecular weight'/exp OR 'heparin, low molecular weight' OR 'heparin, low molecular weight fraction'/exp OR 'heparin, low molecular weight fraction' OR 'heparin, low-molecular-weight'/exp OR 'heparin, low-molecular-weight' OR 'low molecular heparin'/exp OR 'low molecular heparin' OR 'nm heparin'/exp OR 'nm heparin' OR 'pk 007'/exp OR 'pk 007'

OR 'sandoz 5100'/exp OR 'sandoz 5100' OR 'sandoz 6700'/exp OR 'sandoz 6700' OR 'traxyparine'/exp OR 'traxyparine' OR 'adomiparin'/exp OR 'adomiparin' OR 'adomiparin sodium'/exp OR 'adomiparin sodium' OR 'm 118'/exp OR 'm 118' OR 'm 118 compound'/exp OR 'm 118 compound' OR 'm118'/exp OR 'm118' OR 'm118 compound'/exp OR 'm118 compound' OR 'low molecular weight heparin'/exp OR 'low molecular weight heparin' OR 'antixarin'/exp OR 'antixarin' OR 'ardeparin'/exp OR 'ardeparin' OR 'ardeparin sodium'/exp OR 'ardeparin sodium' OR 'normifio'/exp OR 'normifio' OR 'normiflo'/exp OR 'normiflo' OR 'normiflobemiparin sodium'/exp OR 'normiflobemiparin sodium' OR 'rd heparin'/exp OR 'rd heparin' OR 'wy 90493'/exp OR 'wy 90493' OR 'wy90493'/exp OR 'wy90493' OR 'bemiparin'/exp OR 'bemiparin' OR 'bemiparin sodium'/exp OR 'bemiparin sodium' OR 'entervit'/exp OR 'entervit' OR 'hepadren'/exp OR 'hepadren' OR 'hibor'/exp OR 'hibor' OR 'ivor (drug)'/exp OR 'ivor (drug)' OR 'ivorat'/exp OR 'ivorat' OR 'ivormax'/exp OR 'ivormax' OR 'phivor'/exp OR 'phivor' OR 'zibor'/exp OR 'zibor' OR 'alpha-heparin'/exp OR 'alpha-heparin' OR 'arteven'/exp OR 'arteven' OR 'bodyket'/exp OR 'bodyket' OR 'certoparin'/exp OR 'certoparin' OR 'certoparin sodium'/exp OR 'certoparin sodium' OR 'depo-heparin'/exp OR 'depo-heparin' OR 'einecs 232-681-7'/exp OR 'einecs 232-681-7' OR 'eparina'/exp OR 'eparina' OR 'mono embolex'/exp OR 'mono embolex' OR 'monoembolex'/exp OR 'monoembolex' OR 'monoembolex nm'/exp OR 'monoembolex nm' OR 'novoheparin'/exp OR 'novoheparin' OR 'op 386'/exp OR 'op 386' OR 'op 622'/exp OR 'op 622' OR 'pabyrin'/exp OR 'pabyrin' OR 'pulari'/exp OR 'pulari' OR 'sandoparin'/exp OR 'sandoparin' OR 'sublingula'/exp OR 'sublingula' OR 'troparin'/exp OR 'troparin' OR 'vitrum a'/exp OR 'vitrum a' OR 'cy 222'/exp OR 'cy 222' OR 'cy222'/exp OR 'cy222' OR 'dalteparin'/exp OR 'dalteparin' OR 'dalteparin sodium'/exp OR 'dalteparin sodium' OR 'fragmin'/exp OR 'fragmin' OR 'fragmin p forte'/exp OR 'fragmin p forte' OR 'fragmine'/exp OR 'fragmine' OR 'k 2165'/exp OR 'k 2165' OR 'k2165'/exp OR 'k2165' OR 'kabi 2165'/exp OR 'kabi 2165' OR 'low liquemin'/exp OR 'low liquemin' OR 'danaparoid'/exp OR 'danaparoid' OR 'danaparoid sodium'/exp OR 'danaparoid sodium' OR 'danaproid'/exp OR 'danaproid' OR 'kb 101'/exp OR 'kb 101' OR 'kb101'/exp OR 'kb101' OR 'lomoparin'/exp OR 'lomoparin' OR 'lomoparin'/exp OR 'lomoparin' OR 'mucoglucuronan'/exp OR 'mu-

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PICO3

STRATEGY PUBMED

((DABIGATRAN OR RIVAROXABAN OR APIXABAN OR EDOXABAN OR PRADAXA OR XARELTO OR ELIQUIS OR LIXIANA OR NOAC OR "NOVEL ORAL ANTICOAGULANTS" OR "DIRECT ORAL ANTICOAGULANTS" OR "TARGET-SPECIFIC ORAL ANTICOAGULANTS") OR ("Antithrombins"[Pharmacological Action] OR NOAC* OR DOAC* OR TSOA*) OR (((("apixaban"[-

Supplementary Concept]) OR "Dabigatran"[Mesh]) OR "Rivaroxaban"[Mesh])) AND (((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar\$[Title/Abstract] OR bicuspid\$[Title/Abstract] OR cuspid\$[Title/Abstract] OR incisor\$[Title/Abstract])) AND (extract\$[Title/Abstract] OR remov\$[Title/Abstract] OR surgery[Title/Abstract]))

STRATEGY EMBASE

('non vitamin k antagonist oral anticoagulant'/exp OR tsoac OR doac OR 'blood clotting factor 10a inhibitor'/exp OR 'blood clotting factor 10a inhibitor' OR 'blood clotting factor xa inhibitor' OR 'direct factor xa inhibitor' OR 'direct factor xa inhibitors' OR 'factor xa inhibitor' OR 'factor xa inhibitors' OR 'thrombin inhibitor'/exp OR 'direct thrombin inhibitor' OR 'thrombin inhibitor' OR 'thrombin inhibitors') AND ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar amputation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection') AND ('apixaban'/exp OR '1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxopiperidin 1 yl) phenyl] 4, 5, 6, 7 tetrahydro 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR '4, 5, 6, 7 tetrahydro 1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxo 1 piperidinyl) phenyl] 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR 'apixaban' OR 'bms 562247' OR 'bms 562247 01' OR 'bms 562247-01' OR 'bms562247' OR 'bms562247 01' OR 'bms562247-01' OR 'eliques' OR 'eliquis' OR 'dabigatran etexilate'/exp OR '3 [[2 [[4 [[(hexyloxy) carbonyl] amino] iminomethyl] phenyl] amino] methyl] 1 methyl 5 benzimidazolyl] carbonyl] (2 pyridinyl) amino] propanoic acid ethyl ester' OR 'bibr 1048' OR 'bibr1048' OR 'dabigatran etexilate' OR 'dabigatran etexilatemesilate' OR 'dabigatran etexilate mesylate' OR 'pradax' OR 'pradaxa' OR 'prazaxa' OR 'rendix' OR 'rivaroxaban'/exp OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] 1, 3 oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholino) phenyl] 5 oxazolidinyl] methyl] 2 thiophenecarboxamide' OR 'bay 59 7939' OR 'bay 59-7939' OR 'bay 597939' OR 'bay59 7939' OR 'bay59-7939' OR 'bay597939' OR 'rivaroxaban' OR 'xarelto' OR (('non vitamin k antagonist oral anticoagulant'/exp

OR tsoac OR doac OR 'blood clotting factor 10a inhibitor'/exp OR 'blood clotting factor 10a inhibitor' OR 'blood clotting factor xa inhibitor' OR 'direct factor xa inhibitor' OR 'direct factor xa inhibitors' OR 'factor xa inhibitor' OR 'factor xa inhibitors' OR 'thrombin inhibitor'/exp OR 'direct thrombin inhibitor' OR 'thrombin inhibitor' OR 'thrombin inhibitors') AND ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar amputation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection')) AND (2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py)

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after tooth extraction in patients on DOAC and phenprocoumon compared to non-anticoagulated patients—a retrospective study of emergency department consultations. *Clin Oral Investig* 2019;23:2273–8.

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PICO4

STRATEGY PUBMED

((((coumarin derivative/exp OR coumarin derivative OR coumarin/exp OR coumarin OR coumarin anticoagulant/exp OR coumarin anticoagulant OR antivitamin k/exp OR antivitamin k OR dicoumarol/exp OR dicoumarol OR warfarin/exp OR warfarin OR acenocoumarol/exp OR acenocoumarol OR phenprocoumon/exp OR phenprocoumon OR fluindione/exp OR fluindione OR ethyl biscoumacetate/exp OR ethyl biscoumacetate) AND (“bleeding”))) AND (“last 10 years”[PDat])) AND (((“tooth implantation”[Title/Abstract] OR “dental implant”[Title/Abstract] OR “tooth implant”[Title/Abstract] OR implant[Title/Abstract])) OR “Dental Implantation”[Mesh] AND (“last 10 years”[PDat]))

STRATEGY EMBASE

(‘coumarin derivative’/exp OR ‘coumarin derivative’ OR ‘coumarin’/exp OR ‘coumarin’ OR ‘coumarin anticoagulant’/exp OR ‘coumarin anticoagulant’ OR ‘antivitamin k’/exp OR ‘antivitamin k’ OR ‘dicoumarol’/exp OR ‘dicoumarol’ OR ‘warfarin’/exp OR ‘warfarin’ OR ‘acenocoumarol’/exp OR ‘acenocoumarol’ OR ‘phenprocoumon’/exp OR ‘phenprocoumon’ OR ‘fluindione’/exp OR ‘fluindione’ OR ‘ethyl biscoumacetate’/exp OR ‘ethyl biscoumacetate’) AND (‘tooth implantation’/exp OR ‘tooth implantation’ OR ‘tooth implant’/exp OR ‘tooth implant’) AND ‘bleeding’

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11. Andrade NK de, Motta RHL, Bergamaschi C de C, et al. Bleeding risk in patients using oral anticoagulants undergoing surgical procedures in dentistry: A systematic review and meta-analysis. *Front Pharmacol* 2019;10:1–10.
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PICO5

STRATEGY PUBMED

((heparin, low molecular weight[MeSH Terms]) OR bemiparin OR Enoxaparin) AND ((dental implant[MeSH Terms]) OR (tooth ADJ implant*) OR (dental ADJ implant*))

STRATEGY EMBASE

(‘bm 2123’ OR ‘bm2123’ OR ‘choay’ OR ‘depolymerized heparin’ OR ‘ebpm 1’ OR ‘ebpm 2’ OR ‘ebpm 3’ OR ‘ebpm1’ OR ‘ebpm2’ OR ‘ebpm3’ OR ‘ff 1034’ OR ‘ff1034’ OR ‘fr 860’ OR ‘fr860’ OR ‘gag 869’ OR

'heparin lmw 2133' OR 'heparin, low molecular weight' OR 'heparin, low molecular weight fraction' OR 'heparin, low-molecular-weight' OR 'low molecular heparin' OR 'low molecular weight heparin' OR 'nm heparin' OR 'pk 007' OR 'sandoz 5100' OR 'sandoz 6700' OR 'traxyparine' OR 'adomiparin'/exp OR 'adomiparin' OR 'adomiparin sodium' OR 'm 118' OR 'm 118 compound' OR 'm118' OR 'm118 compound' OR 'low molecular weight heparin'/exp OR 'antixarin'/exp OR 'antixarin' OR 'ardeparin'/exp OR 'ardeparin' OR 'ardeparin sodium' OR 'normifio' OR 'normiflo' OR 'normiflobemiparin sodium' OR 'rd heparin' OR 'wy 90493' OR 'wy90493' OR 'bemiparin'/exp OR 'bemiparin' OR 'bemiparin sodium' OR 'entervit' OR 'hepadren' OR 'hibor' OR 'ivor (drug)' OR 'ivorat' OR 'ivormax' OR 'phivor' OR 'zibor' OR 'certoparin'/exp OR 'alpha-heparin' OR 'arteven' OR 'badyket' OR 'certoparin' OR 'certoparin sodium' OR 'depo-heparin' OR 'einecs 232-681-7' OR 'eparina' OR 'mono embolex' OR 'mono-embolex' OR 'monoembolex nm' OR 'novoheparin' OR 'op 386' OR 'op 622' OR 'pabyrin' OR 'pulari' OR 'sandoparin' OR 'sublingula' OR 'troparin' OR 'vitrum a' OR 'cy 222'/exp OR 'cy 222' OR 'cy222' OR 'dalteparin'/exp OR 'dalteparin' OR 'dalteparin sodium' OR 'fragmin' OR 'fragmin p forte' OR 'fragmine' OR 'k 2165' OR 'k2165' OR 'kabi 2165' OR 'low liquemin' OR 'danaparoid'/exp OR 'danaparoid' OR 'danaparoid sodium' OR 'danaproid' OR 'kb 101' OR 'kb101' OR 'lomoparan' OR 'lomoparin' OR 'mucoglucuronan' OR 'org 10172' OR 'org10172' OR 'organ' OR 'deligoparin'/exp OR 'deligoparin' OR 'deligoparin sodium' OR 'op 2000' OR 'op2000' OR 'embolex'/exp OR 'dihydroergotamine plus low molecular weight heparin' OR 'embolex' OR 'low molecular weight heparin plus dihydroergotamine' OR 'enoxaparin'/exp OR 'fondaparinux'/exp OR 'arixtra' OR 'fondaparin' OR 'fondaparin sodium' OR 'fondaparinux' OR 'fondaparinux sodium' OR 'ic 851589' OR 'ic851589' OR 'org 31540' OR 'org31540' OR 'quixidar' OR 'sr 90107' OR 'sr 90107a' OR 'sr90107' OR 'sr90107a' OR 'idrabioparinux'/exp OR 'idrabioparinux' OR 'idrabioparinux sodium' OR 'ssr 126517' OR 'ssr 126517 e' OR 'ssr 126517e' OR 'ssr126517' OR 'ssr126517e' OR 'idrapiarinux'/exp OR 'idrapiarinux' OR 'idrapiarinux sodium' OR 'org 34006' OR 'org34006' OR 'sanorg 34006' OR 'sanorg34006' OR 'sr 34006' OR 'sr34006' OR 'livaraparin calcium'/exp OR 'livaraparin calcium' OR 'minolteparin'/exp OR 'minolteparin' OR 'minolteparin sodium' OR 'nadroparin'/exp OR 'cy 216' OR

'cy 216d' OR 'cy216' OR 'cy216d' OR 'fraxiparin' OR 'fraxiparin multi' OR 'fraxiparina' OR 'fraxiparina forte' OR 'fraxiparine' OR 'fraxiparine forte' OR 'fraxiparine multi' OR 'fraxodi' OR 'nadroparin' OR 'nadroparin calcium' OR 'nadroparin sodium' OR 'seledie' OR 'seleparina' OR 'seleparine' OR 'tedegliparin' OR 'necuparanib'/exp OR 'df 01' OR 'df01' OR 'm 402' OR 'm402' OR 'necuparanib' OR 'necuparanib sodium' OR 'tafoxiparin' OR 'tafoxiparin sodium' OR 'parnaparin'/exp OR 'fluxum' OR 'lohepa' OR 'lowhepa' OR 'minidaltan' OR 'op 2123' OR 'parnaparin' OR 'parnaparin sodium' OR 'parvoparin' OR 'rd 11885'/exp OR 'rd 11885' OR 'rd11885' OR 'reviparin'/exp OR 'clivarin' OR 'clivarina' OR 'clivarine' OR 'clivarodi' OR 'lomorin' OR 'lu 47311' OR 'lu47311' OR 'reviparin' OR 'reviparin sodium' OR 'semuloparin'/exp OR 'ave 5026' OR 'ave5026' OR 'mulsevo' OR 'semuloparin' OR 'semuloparin sodium' OR 'visamerin' OR 'sevuparin'/exp OR 'sevuparin' OR 'sevuparin sodium' OR 'tedelparin'/exp OR 'tedelparin' OR 'tedelparin 4-6 sodium' OR 'tedelparin sodium' OR 'tinzaparin'/exp OR 'innohep' OR 'lhn1' OR 'logiparin' OR 'tinzaparin' OR 'tinzaparin sodium') AND ('tooth implantation'/exp OR 'apertognathia' OR 'blade implantation' OR 'dental implantation' OR 'dental implantation, endosseous' OR 'dental implantation, endosseous, endodontic' OR 'dental implantation, subperiosteal' OR 'immediate dental implant loading' OR 'tooth implantation' OR 'tooth implant'/exp OR 'bicon' OR 'grafton' OR 'swish active' OR 'swish tapered' OR 'dental implant' OR 'dental implants' OR 'implant, teeth' OR 'implant, tooth' OR 'implants, teeth' OR 'implants, tooth' OR 'teeth implant' OR 'teeth implants' OR 'tooth implant' OR 'tooth implants') AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

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PICO6

STRATEGYPUBMED

((("Factor Xa Inhibitors"[Mesh]) OR NOAC[All fields] OR 'Direct Oral Anticoagulant'[All fields] OR DOAC[All fields] OR 'Target-specific oral anticoagulant'[All field] OR TSOAC[All fields] OR "apixaban"[Supplementary Concept]) OR apixaban[All fields] OR Eliquis[All fields] OR ("Dabigatran"[Mesh] OR "dabigatran ethyl ester"[Supplementary Concept])) OR dabigatran[All fields] OR Pradaxa[All fields] OR "edoxaban"[Supplementary Concept]) OR Lixiana[All fields] OR "Rivaroxaban"[Mesh] OR rivaroxaban[all fields] OR Xarelto[All fields]) AND

(apertognathia/exp OR apertognathia OR blade implantation/exp OR blade implantation OR dental implantation/exp OR dental implantation OR dental implantation, endosseous/exp OR dental implantation, endosseous OR dental implantation, endosseous, endodontic/exp OR dental implantation, endosseous, endodontic OR dental implantation, subperiosteal/exp OR dental implantation, subperiosteal OR immediate dental implant loading/exp OR immediate dental implant loading OR tooth implantation/exp OR tooth implantation OR tooth implant/exp OR tooth implant)

STRATEGYEMBASE

('direct oral anticoagulant'/exp OR 'direct oral anticoagulant agent'/exp OR 'apixaban'/exp OR '1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxopiperidin 1 yl) phenyl] 4, 5, 6, 7 tetrahydro 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR '4, 5, 6, 7 tetrahydro 1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxo 1 piperidinyl) phenyl] 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR 'apixaban' OR 'bms 562247' OR 'bms 562247 01' OR 'bms 562247-01' OR 'bms562247' OR 'bms562247 01' OR 'bms562247-01' OR 'eliques' OR 'eliquis' OR 'dabigatran'/exp OR 'bibr 953' OR 'bibr953' OR 'dabigatran' OR 'n [[2 [(4 amidinoanilino) methyl] 1 methyl 5 benzimidazolyl] carbonyl] n (2 pyridyl) beta alanine' OR 'n [[2 [[4 (aminoiminomethyl) phenyl] amino] methyl] 1 methyl 1h benzimidazol 5 yl] carbonyl] n (2 pyridyl) beta alanine' OR 'edoxaban'/exp OR 'du 176' OR 'du 176b' OR 'du176' OR 'du176b' OR 'edoxaban' OR 'edoxabantosilate' OR 'edoxabantosilate hydrate' OR 'edoxabantosylate' OR 'edoxabantosylate hydrate' OR 'edoxaban' OR 'lixiana' OR 'n (5 chloro 2 pyridinyl) n` [4 (n, n dimethylcarbonyl) 2 (5 methyl 4, 5, 6, 7 tetrahydrothiazolo [5, 4 c] pyridine 2 carboxamido) cyclohexyl] oxamide' OR 'roteas' OR 'savaysa' OR 'rivaroxaban'/exp OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] 1, 3 oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholino) phenyl] 5 oxazolidinyl] methyl] 2 thiophenecarboxamide' OR 'bay 59 7939' OR 'bay 59-7939' OR 'bay 597939' OR 'bay59 7939' OR 'bay59-7939' OR 'bay597939' OR 'rivaroxaban' OR 'xarelto') AND ('tooth implantation'/exp OR 'apertognathia' OR 'blade implantation' OR 'dental implantation' OR 'dental implantation, endosseous'

Abstract] OR teeth[Title/Abstract] OR molar\$[Title/Abstract] OR bicuspid\$[Title/Abstract] OR cuspid\$[Title/Abstract] OR incisor\$[Title/Abstract]) AND (extract\$[Title/Abstract] OR remov\$[Title/Abstract] OR surgery[Title/Abstract]) AND ("Heparin, Low-Molecular-Weight"[Mesh] OR Heparin OR LMWH OR Dalteparin OR Enoxaparin OR Nadroparin OR Tinzaparin) AND (cyanoacrylate derivative OR hemostatic agent OR suture material OR gel-foam OR oxidized regenerated cellulose OR gauze dressing OR "fibrin tissue adhesive"[mesh] OR enbucrilate[mesh] OR chlorhexidine[mesh] OR "chlorhexidine gluconate"[supplementary concept] AND ("last 10 years"[PDat] AND Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang])) AND ("last 10 years"[PDat] AND Humans[Mesh]))

STRATEGY EMBASE

('coumarin derivative'/exp OR 'coumarin derivative' OR 'coumarin'/exp OR 'coumarin' OR 'coumarin anticoagulant'/exp OR 'coumarin anticoagulant' OR 'antivitamin k'/exp OR 'antivitamin k' OR 'dicoumarol'/exp OR 'dicoumarol' OR 'warfarin'/exp OR 'warfarin' OR 'acenocoumarol'/exp OR 'acenocoumarol' OR 'phenprocoumon'/exp OR 'phenprocoumon' OR 'fluindione'/exp OR 'fluindione' OR 'ethyl biscoumacetate'/exp OR 'ethyl biscoumacetate') AND ('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND ('hemostatic agent'/exp OR 'haemostat' OR 'haemostatic agent' OR 'haemostatics' OR 'hemostasis agent' OR 'hemostat' OR 'hemostatic agent' OR 'hemostatics' OR 'vitagel' OR 'fibrin glue'/exp OR 'artiss' OR 'beriplast' OR 'beriplast p' OR 'bolheal' OR 'crosseal' OR 'crosseel' OR 'evarrest' OR 'evicel' OR 'fibrin adhesive' OR 'fibrin adhesive agent' OR 'fibrin glue' OR 'fibrin sealant' OR 'fibrin tissue adhesive' OR 'glue, fibrin' OR 'greenplast' OR 'hemaseelapr' OR 'kolfib' OR 'quixil' OR 'silketal' OR 'tisseal' OR 'tisseel' OR 'tisseelloy' OR 'tisseel s/d' OR 'tisseelv' OR 'tisseelloy' OR 'tissucol' OR 'tissucol duo s immuno' OR 'tricos' OR 'vivostat' OR 'vivostat fibrin sealant' OR 'vivostat system' OR 'enbucrilate'/exp OR '2 cyanoacrylic acid butyl ester' OR 'alpha cyanoacrylic acid butyl

ester' OR 'blue histoacryl' OR 'butyl 1, 2 cyanoacrylate' OR 'butyl 1, 2 cyanoacrylate' OR 'butyl 2 cyanoacrylate' OR 'butyl 2 cyanoacrylate' OR 'butylcyanoacrylate' OR 'enbucrilate' OR 'fimomed' OR 'histacryl' OR 'histoacryl' OR 'histoacryl blue' OR 'histoacryl n' OR 'histoacryl n blau' OR 'histoacryl n blue' OR 'n butyl 2 cyanoacrylate' OR 'n butyl alpha cyanoacrylate' OR 'n butyl alpha cyanoacrylate' OR 'n butyl cyanoacrylate' OR 'n butyl cyanoacrylate monomer' OR 'n butylcyanoacrylate' OR 'n butylcyanoacrylate' OR 'n butylcyanoacrylate monomer' OR 'sicomet' OR 'chlorhexidine'/exp OR '1, 1 hexamethylenebis [5 (para chlorophenylbiguanide)]' OR '1, 1` hexamethylenebis [5 (4 chlorophenyl) biguanide]' OR '1, 1` hexamethylenebis [5 (para chlorophenylbiguanide)]' OR '1, 6 bis (n5 para chlorophenyl n1 diguanido) hexane' OR '1, 6 bis [n1 (para chlorophenyl) n5 biguanido] hexane' OR '1, 6 di (4` chlorophenyldiguanido) hexane' OR 'ay 5312' OR 'ay5312' OR 'bidex' OR 'boston conditioning lotion' OR 'chlorhex' OR 'chlorhexidin' OR 'chlorhexidine' OR 'chlorhexidine chlorhydrate' OR 'chlorhexidine dihydrochloride' OR 'chlorhexidine glutamate' OR 'chlorhexidine hydrochloride' OR 'chlorohex' OR 'chlorohexidine' OR 'chlorohexidine acetate' OR 'chlorohexidine' OR 'clohexidine' OR 'compound 10040' OR 'hexamethylene 1, 6 bis [1 (5 para chlorophenyl) biguanide]' OR 'lisium' OR 'nibitane' OR 'nolvasan' OR 'nolvascin' OR 'rotersept' OR 'sterilon' OR 'tubilicid' OR 'tubulicid' OR 'umbipro') AND (2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

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Oral Investig 2018;22:2281–9.

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PICO9

STRATEGY PUBMED

((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Abstract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract]) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract]) AND ("Heparin, Low-Molecular-Weight"[Mesh] OR Heparin OR LMWH OR Dalteparin OR Enoxaparin OR Nadroparin OR Tinzaparin) AND (cyanoacrylate derivative OR hemostatic agent OR suture material OR gelfoam OR oxidized regenerated cellulose OR gauze dressing OR "fibrin tissue adhesive"[mesh] OR enbucrilate[mesh] OR chlorhexidine[mesh] OR "chlorhexidine gluconate"[supplementary concept]) AND ("last 10 years"[PDat] AND Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang])))

STRATEGY EMBASE

('bm 2123'/exp OR 'bm 2123' OR 'bm2123'/exp OR 'bm2123' OR 'choay'/exp OR 'choay' OR 'depolymerized heparin'/exp OR 'depolymerized heparin' OR 'ebpm 1'/exp OR 'ebpm 1' OR 'ebpm 2'/exp OR 'ebpm 2' OR 'ebpm 3'/exp OR 'ebpm 3' OR 'ebpm1'/exp OR 'ebpm1' OR 'ebpm2'/exp OR 'ebpm2' OR 'ebpm3'/exp OR 'ebpm3' OR 'ff 1034'/exp OR 'ff 1034' OR 'ff1034'/exp OR 'ff1034' OR 'fr 860'/exp OR 'fr 860' OR 'fr860'/exp OR 'fr860' OR 'gag 869'/exp OR 'gag 869' OR 'heparin lmw 2133'/exp OR 'heparin lmw 2133' OR 'heparin, low molecular weight'/exp OR 'heparin, low molecular weight' OR 'heparin, low molecular weight fraction'/exp OR 'heparin, low molecular weight fraction' OR 'hepa-

rin, low-molecular-weight'/exp OR 'heparin, low-molecular-weight' OR 'low molecular heparin'/exp OR 'low molecular heparin' OR 'nm heparin'/exp OR 'nm heparin' OR 'pk 007'/exp OR 'pk 007' OR 'sandoz 5100'/exp OR 'sandoz 5100' OR 'sandoz 6700'/exp OR 'sandoz 6700' OR 'traxyparine'/exp OR 'traxyparine' OR 'adomiparin'/exp OR 'adomiparin' OR 'adomiparin sodium'/exp OR 'adomiparin sodium' OR 'm 118'/exp OR 'm 118' OR 'm 118 compound'/exp OR 'm 118 compound' OR 'm118'/exp OR 'm118' OR 'm118 compound'/exp OR 'm118 compound' OR 'low molecular weight heparin'/exp OR 'low molecular weight heparin' OR 'antixarin'/exp OR 'antixarin' OR 'ardeparin'/exp OR 'ardeparin' OR 'ardeparin sodium'/exp OR 'ardeparin sodium' OR 'normifio'/exp OR 'normifio' OR 'normiflo'/exp OR 'normiflo' OR 'normiflobemiparin sodium'/exp OR 'normiflobemiparin sodium' OR 'rd heparin'/exp OR 'rd heparin' OR 'wy 90493'/exp OR 'wy 90493' OR 'wy90493'/exp OR 'wy90493' OR 'bemiparin'/exp OR 'bemiparin' OR 'bemiparin sodium'/exp OR 'bemiparin sodium' OR 'entervit'/exp OR 'entervit' OR 'hepadren'/exp OR 'hepadren' OR 'hibor'/exp OR 'hibor' OR 'ivor (drug)'/exp OR 'ivor (drug)' OR 'ivorat'/exp OR 'ivorat' OR 'ivormax'/exp OR 'ivormax' OR 'phivor'/exp OR 'phivor' OR 'zibor'/exp OR 'zibor' OR 'alpha-heparin'/exp OR 'alpha-heparin' OR 'arteven'/exp OR 'arteven' OR 'badyket'/exp OR 'badyket' OR 'certoparin'/exp OR 'certoparin' OR 'certoparin sodium'/exp OR 'certoparin sodium' OR 'depo-heparin'/exp OR 'depo-heparin' OR 'einecs 232-681-7'/exp OR 'einecs 232-681-7' OR 'eparina'/exp OR 'eparina' OR 'mono embolex'/exp OR 'mono embolex' OR 'monoembolex'/exp OR 'monoembolex' OR 'monoembolex nm'/exp OR 'monoembolex nm' OR 'novoheparin'/exp OR 'novoheparin' OR 'op 386'/exp OR 'op 386' OR 'op 622'/exp OR 'op 622' OR 'pabyrin'/exp OR 'pabyrin' OR 'pulari'/exp OR 'pulari' OR 'sandoparin'/exp OR 'sandoparin' OR 'sublingula'/exp OR 'sublingula' OR 'troparin'/exp OR 'troparin' OR 'vitrum a'/exp OR 'vitrum a' OR 'cy 222'/exp OR 'cy 222' OR 'cy222'/exp OR 'cy222' OR 'dalteparin'/exp OR 'dalteparin' OR 'dalteparin sodium'/exp OR 'dalteparin sodium' OR 'fragmin'/exp OR 'fragmin' OR 'fragmin p forte'/exp OR 'fragmin p forte' OR 'fragmine'/exp OR 'fragmine' OR 'k 2165'/exp OR 'k 2165' OR 'k2165'/exp OR 'k2165' OR 'kabi 2165'/exp OR 'kabi 2165' OR 'low liquemin'/exp OR 'low liquemin' OR 'danaparoid'/exp OR 'danaparoid' OR 'danaparoid sodium'/exp OR 'danaparoid sodium'

OR 'danaproid'/exp OR 'danaproid' OR 'kb 101'/exp OR 'kb 101' OR 'kb101'/exp OR 'kb101' OR 'lomoparin'/exp OR 'lomoparin' OR 'lomoparin sodium'/exp OR 'lomoparin sodium' OR 'mucogluconan'/exp OR 'mucogluconan' OR 'org 10172'/exp OR 'org 10172' OR 'org10172'/exp OR 'org10172' OR 'orgaran'/exp OR 'orgaran' OR 'deligoparin'/exp OR 'deligoparin' OR 'deligoparin sodium'/exp OR 'deligoparin sodium' OR 'op 2000'/exp OR 'op 2000' OR 'op2000'/exp OR 'op2000' OR 'dihydroergotamine plus low molecular weight heparin'/exp OR 'dihydroergotamine plus low molecular weight heparin' OR 'embolex'/exp OR 'embolex' OR 'low molecular weight heparin plus dihydroergotamine'/exp OR 'low molecular weight heparin plus dihydroergotamine' OR 'enoxaparin'/exp OR 'enoxaparin' OR 'arixtra'/exp OR 'arixtra' OR 'fondaparin'/exp OR 'fondaparin' OR 'fondaparin sodium'/exp OR 'fondaparin sodium' OR 'fondaparinux'/exp OR 'fondaparinux' OR 'fondaparinux sodium'/exp OR 'fondaparinux sodium' OR 'ic 851589'/exp OR 'ic 851589' OR 'ic851589'/exp OR 'ic851589' OR 'org 31540'/exp OR 'org 31540' OR 'org31540'/exp OR 'org31540' OR 'quixidar'/exp OR 'quixidar' OR 'sr 90107'/exp OR 'sr 90107' OR 'sr 90107a'/exp OR 'sr 90107a' OR 'sr90107'/exp OR 'sr90107' OR 'sr90107a'/exp OR 'sr90107a' OR 'idrabioparin sodium'/exp OR 'idrabioparin sodium' OR 'idrabioparin sodium sodium'/exp OR 'idrabioparin sodium sodium' OR 'ssr 126517 e'/exp OR 'ssr 126517 e' OR 'ssr 126517e'/exp OR 'ssr 126517e' OR 'ssr126517'/exp OR 'ssr126517' OR 'ssr126517e'/exp OR 'ssr126517e' OR 'idrapiarinux'/exp OR 'idrapiarinux sodium'/exp OR 'idrapiarinux sodium' OR 'org 34006'/exp OR 'org 34006' OR 'org34006'/exp OR 'org34006' OR 'sanorg 34006'/exp OR 'sanorg 34006' OR 'sanorg34006'/exp OR 'sanorg34006' OR 'sr 34006'/exp OR 'sr 34006' OR 'sr34006'/exp OR 'sr34006' OR 'livaraparin calcium'/exp OR 'livaraparin calcium' OR 'minolteparin'/exp OR 'minolteparin' OR 'minolteparin sodium'/exp OR 'minolteparin sodium' OR 'cy 216'/exp OR 'cy 216' OR 'cy 216d'/exp OR 'cy 216d' OR 'cy216'/exp OR 'cy216' OR 'cy216d'/exp OR 'cy216d' OR 'fraxiparin'/exp OR 'fraxiparin' OR 'fraxiparin multi'/exp OR 'fraxiparin multi' OR 'fraxiparina'/exp OR 'fraxiparina' OR 'fraxiparina forte'/exp OR 'fraxiparina forte' OR 'fraxiparine'/exp OR 'fraxiparine' OR 'fraxiparine forte'/exp OR 'fraxiparine forte' OR 'fraxiparine multi'/exp OR 'fraxiparine multi' OR 'fraxodi'/exp OR 'fraxodi' OR

'nadroparin'/exp OR 'nadroparin' OR 'nadroparin calcium'/exp OR 'nadroparin calcium' OR 'nadroparin sodium'/exp OR 'nadroparin sodium' OR 'seledie'/exp OR 'seledie' OR 'seleparina'/exp OR 'seleparina' OR 'seleparine'/exp OR 'seleparine' OR 'tedegliparin'/exp OR 'tedegliparin' OR 'df 01'/exp OR 'df 01' OR 'df01'/exp OR 'df01' OR 'm 402'/exp OR 'm 402' OR 'm402'/exp OR 'm402' OR 'necuparanib'/exp OR 'necuparanib' OR 'necuparanib sodium'/exp OR 'necuparanib sodium' OR 'tafoxiparin'/exp OR 'tafoxiparin' OR 'tafoxiparin sodium'/exp OR 'tafoxiparin sodium' OR 'fluxum'/exp OR 'fluxum' OR 'lohepa'/exp OR 'lohepa' OR 'lowhepa'/exp OR 'lowhepa' OR 'minidaltan'/exp OR 'minidaltan' OR 'op 2123'/exp OR 'op 2123' OR 'parnaparin'/exp OR 'parnaparin' OR 'parnaparin sodium'/exp OR 'parnaparin sodium' OR 'parvoparin'/exp OR 'parvoparin' OR 'rd 11885'/exp OR 'rd 11885' OR 'rd11885'/exp OR 'rd11885' OR 'clivarin'/exp OR 'clivarin' OR 'clivarina'/exp OR 'clivarina' OR 'clivarine'/exp OR 'clivarine' OR 'clivarodi'/exp OR 'clivarodi' OR 'lomorin'/exp OR 'lomorin' OR 'lu 47311'/exp OR 'lu 47311' OR 'lu47311'/exp OR 'lu47311' OR 'reviparin'/exp OR 'reviparin' OR 'reviparin sodium'/exp OR 'reviparin sodium' OR 'ave 5026'/exp OR 'ave 5026' OR 'ave5026'/exp OR 'ave5026' OR 'mulsevo'/exp OR 'mulsevo' OR 'semuloparin'/exp OR 'semuloparin' OR 'semuloparin sodium'/exp OR 'semuloparin sodium' OR 'visamerin'/exp OR 'visamerin' OR 'sevuparin'/exp OR 'sevuparin' OR 'sevuparin sodium'/exp OR 'sevuparin sodium' OR 'tedelparin'/exp OR 'tedelparin' OR 'tedelparin 4-6 sodium'/exp OR 'tedelparin 4-6 sodium' OR 'tinnohep'/exp OR 'tinnohep' OR 'lhn1'/exp OR 'lhn1' OR 'logiparin'/exp OR 'logiparin' OR 'tinzaparin'/exp OR 'tinzaparin' OR 'tinzaparin sodium'/exp OR 'tinzaparin sodium') AND ('cyanoacrylate derivative'/exp OR 'cyanoacrylate derivative' OR 'hemostatic agent'/exp OR 'hemostatic agent' OR 'suture material'/exp OR 'suture material' OR 'gelfoam'/exp OR 'gelfoam' OR 'oxidized regenerated cellulose'/exp OR 'oxidized regenerated cellulose' OR 'gauze dressing'/exp OR 'gauze dressing') AND ('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND (2009:py OR 2010:py OR 2011:py

OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py)

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11. Andrade NK de, Motta RHL, Bergamaschi C de C, et al. Bleeding risk in patients using oral anticoagulants undergoing surgical procedures in dentistry: A systematic review and meta-analysis. *Front Pharmacol* 2019;10:1–10.
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PICO10

STRATEGY PUBMED

((((DABIGATRAN OR RIVAROXABAN OR APIXABAN OR EDOXABAN OR PRADAXA OR XARELTO OR ELIQUIS OR LIXIANA OR NOAC OR "NOVEL ORAL ANTICOAGULANTS" OR "DIRECT ORAL ANTICOAGULANTS" OR "TARGET-SPECIFIC ORAL ANTICOAGULANTS" OR "Antithrombins"[Pharmacological Action] OR NOAC* OR DOAC* OR TSOA* OR "apixaban"[Supplementary Concept] OR "Dabigatran"[Mesh] OR "Rivaroxaban"[Mesh]) AND ("Tooth Extraction"[Mesh] OR "Tooth, Impacted"[Mesh] OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Abstract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract]) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract])) AND (cyanoacrylate derivative OR hemostatic agent OR suture material OR gelfoam OR oxidized regenerated cellulose OR gauze dressing OR "fibrin tissue adhesive"[mesh] OR enbucrilate[mesh] OR chlorhexidine[mesh] OR "chlorhexidine gluconate"[supplementary concept] AND ("last 10 years"[PDat] AND Humans[Mesh]))

STRATEGY EMBASE

('non vitamin k antagonist oral anticoagulant'/exp OR tsoac OR doac OR 'blood clotting factor 10a inhibitor'/exp OR 'blood clotting factor 10a inhibitor' OR 'blood clotting factor xa inhibitor' OR 'direct factor xa inhibitor' OR 'direct factor xa inhibitors' OR 'factor xa inhibitor' OR 'factor xa inhibitors' OR 'thrombin inhibitor'/exp OR 'direct thrombin inhibitor' OR 'thrombin inhibitor' OR 'thrombin inhibitors') AND ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar amputation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection') AND ('apixaban'/exp OR '1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxopiperidin 1 yl) phenyl] 4, 5, 6, 7 tetrahydro 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR '4, 5, 6, 7 tetrahydro 1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxo 1 piperidinyl) phenyl] 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR 'apixaban' OR 'bms 562247' OR 'bms 562247 01' OR 'bms 562247-01' OR 'bms562247' OR 'bms562247 01' OR 'bms562247-01' OR 'eliquis' OR 'eliquis' OR 'dabigatran etexilate'/exp OR '3 [[2 [[4 [[(hexyloxy) carbonyl] amino] iminomethyl] phenyl] amino] methyl] 1 methyl 5 benzimidazolyl] carbonyl] (2 pyridinyl) amino] propanoic acid ethyl ester' OR 'bibr 1048' OR 'bibr1048' OR 'dabigatran etexilate' OR 'dabigatran etexilatemesilate' OR 'dabigatran etexilate mesylate' OR 'pradax' OR 'pradaxa' OR 'prazaxa' OR 'rendix' OR 'rivaroxaban'/exp OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] 1, 3 oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholino) phenyl] 5 oxazolidinyl] methyl] 2 thiophenecarboxamide' OR 'bay 59 7939' OR 'bay 59-7939' OR 'bay 597939' OR 'bay59 7939' OR 'bay59-7939' OR 'bay597939' OR 'rivaroxaban' OR 'xarelto' OR (('non vitamin k antagonist oral anticoagulant'/exp OR tsoac OR doac OR 'blood clotting factor 10a inhibitor'/exp OR 'blood clotting factor 10a inhibitor' OR 'blood clotting factor xa inhibitor' OR 'direct factor xa inhibitor' OR 'direct factor xa inhibitors' OR 'factor xa inhibitor' OR 'factor xa inhibitors' OR 'thrombin inhibitor'/exp OR 'direct thrombin inhibitor' OR 'thrombin inhibitor' OR 'thrombin inhibitors') AND ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar am-

putation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection')) AND (2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py)

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PICO11

STRATEGY PUBMED

((coumarin derivative/exp OR coumarin derivative OR coumarin/exp OR coumarin OR coumarin anticoagulant/exp OR coumarin anticoagulant OR anti-vitamin k/exp OR anti-vitamin k OR dicoumarol/exp OR dicoumarol OR warfarin/exp OR warfarin OR acenocoumarol/exp OR acenocoumarol OR phenprocoumon/exp OR phenprocoumon OR fluindione/exp OR fluindione OR ethyl biscoumatate/exp OR ethyl biscoumatate OR VKA) AND ("last 10 years"[PDat] AND Humans[Mesh])) AND (((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar\$[Title/Abstract] OR bicuspid\$[Title/Abstract] OR cuspid\$[Title/Abstract] OR incisor\$[Title/Abstract])) AND (extract\$[Title/Abstract] OR remov\$[Title/Abstract] OR surgery[Title/Abstract])) AND ("last 10 years"[PDat] AND Humans[Mesh])) AND ("aminocaproic acid" OR "AND 6-aminocaproic acid[mesh] AND "OR " AND tranexamic acid" AND "OR " AND tranexamic acid AND "[mesh] OR " AND antifibrinolytic agent AND "OR " AND blood clotting factor AND "OR " AND desmopressin AND "OR "protamine sulfate" OR "menadione" OR "andexanet alfa" OR "platelet rich fibrin" OR feracrylum AND ("last 10 years"[PDat] AND Humans[Mesh]))

STRATEGY EMBASE

('coumarin derivative'/exp OR 'coumarin derivative' OR 'coumarin'/exp OR 'coumarin' OR 'coumarin anticoagulant'/exp OR 'coumarin anticoagulant' OR 'antivitamin k'/exp OR 'antivitamin k' OR 'dicoumarol'/exp OR 'dicoumarol' OR 'warfarin'/exp OR 'warfarin' OR 'acenocoumarol'/exp OR 'acenocoumarol' OR 'phenprocoumon'/exp OR 'phenprocoumon' OR 'fluindione'/exp OR 'fluindione' OR 'ethyl biscoumatate'/exp OR 'ethyl biscoumatate') AND ('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND 'bleeding' AND (2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim) AND ('aminocaproic acid'/exp OR 'aminocaproic acid' OR 'tranexamic acid'/exp OR 'tranexamic acid' OR 'antifibrinolytic agent'/exp OR 'antifibrinolytic agent' OR 'blood clotting factor'/exp OR 'blood clotting factor' OR 'desmopressin'/exp OR 'desmopressin' OR 'protamine sulfate'/exp OR 'protamine sulfate' OR 'menadione'/exp OR 'menadione' OR 'andexanet alfa'/exp OR 'andexanet alfa')

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3. Yang S, Shi Q, Liu J, et al. Should oral anticoagulant therapy be continued during dental extraction? A meta-analysis. *BMC Oral Health* 2016;16-:1.
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5. Ockerman A, Miclotte I, Vanhaverbeke M, et al. Local haemostatic measures after tooth removal in patients on antithrombotic therapy: a systematic review. *Clin Oral Investig*

2019;23:1695–708.

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PICO12

STRATEGY PUBMED

(((((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar\$[Title/Abstract] OR bicuspid\$[Title/Abstract] OR cuspid\$[Title/Abstract] OR incisor\$[Title/Abstract])) AND (extract\$[Title/Abstract] OR remov\$[Title/Abstract] OR surgery[Title/Abstract])) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang]))) AND ((aminocaproic acid/exp OR aminocaproic acid OR epsilon-aminocaproic acid OR 6-aminocaproic acid[mesh] OR tranexamic acid/exp OR tranexamic acid[mesh] OR antifibrinolytic agent/exp OR antifibrinolytic agent OR blood clotting factor/exp OR blood clotting factor OR desmopressin/exp OR desmopressin OR protamine sulfate/exp OR protamine sulfate OR menadione/exp OR menadione OR andexanet alfa/exp OR andexanet alfa OR Platelet rich fibrin OR Feracrylum) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang]))) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang]))) AND ((("Heparin, Low-Molecular-Weight"[Mesh]) OR Heparin OR LMWH OR Dalteparin OR Enoxaparin OR Nadroparin OR Tinzaparin) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang])))

STRATEGY EMBASE

('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND ('aminocaproic acid'/exp OR 'aminocaproic acid' OR 'tranexamic acid'/exp OR 'tranexamic acid' OR 'antifibrinolytic agent'/exp OR 'antifibrinolytic agent' OR 'blood clotting factor'/exp OR 'blood clotting factor' OR 'desmopressin'/exp OR 'desmopressin' OR 'protamine sulfate'/exp OR 'protamine sulfate' OR 'menadione'/exp OR 'menadione' OR 'andexanet alfa'/exp OR 'andexanet alfa' OR 'feracrylum') AND ('bm 2123'/exp OR 'bm 2123' OR 'bm2123'/exp OR 'bm2123' OR 'choay'/exp OR 'choay' OR 'depolymerized heparin'/

exp OR 'depolymerized heparin' OR 'ebpm 1'/exp OR 'ebpm 1' OR 'ebpm 2'/exp OR 'ebpm 2' OR 'ebpm 3'/exp OR 'ebpm 3' OR 'ebpm1'/exp OR 'ebpm1' OR 'ebpm2'/exp OR 'ebpm2' OR 'ebpm3'/exp OR 'ebpm3' OR 'ff 1034'/exp OR 'ff 1034' OR 'ff1034'/exp OR 'ff1034' OR 'fr 860'/exp OR 'fr 860' OR 'fr860'/exp OR 'fr860' OR 'gag 869'/exp OR 'gag 869' OR 'heparin lmw 2133'/exp OR 'heparin lmw 2133' OR 'heparin, low molecular weight'/exp OR 'heparin, low molecular weight fraction'/exp OR 'heparin, low molecular weight fraction' OR 'heparin, low-molecular-weight'/exp OR 'heparin, low-molecular-weight' OR 'low molecular heparin'/exp OR 'low molecular heparin' OR 'nm heparin'/exp OR 'nm heparin' OR 'pk 007'/exp OR 'pk 007' OR 'sandoz 5100'/exp OR 'sandoz 5100' OR 'sandoz 6700'/exp OR 'sandoz 6700' OR 'traxyparine'/exp OR 'traxyparine' OR 'adomiparin'/exp OR 'adomiparin' OR 'adomiparin sodium'/exp OR 'adomiparin sodium' OR 'm 118'/exp OR 'm 118' OR 'm 118 compound'/exp OR 'm 118 compound' OR 'm118'/exp OR 'm118' OR 'm118 compound'/exp OR 'm118 compound' OR 'low molecular weight heparin'/exp OR 'low molecular weight heparin' OR 'antixarin'/exp OR 'antixarin' OR 'ardeparin'/exp OR 'ardeparin' OR 'ardeparin sodium'/exp OR 'ardeparin sodium' OR 'normifio'/exp OR 'normifio' OR 'normiflo'/exp OR 'normiflo' OR 'normiflobemiparin sodium'/exp OR 'normiflobemiparin sodium' OR 'rd heparin'/exp OR 'rd heparin' OR 'wy 90493'/exp OR 'wy 90493' OR 'wy90493'/exp OR 'wy90493' OR 'bemiparin'/exp OR 'bemiparin' OR 'bemiparin sodium'/exp OR 'bemiparin sodium' OR 'entervit'/exp OR 'entervit' OR 'hepadren'/exp OR 'hepadren' OR 'hibor'/exp OR 'hibor' OR 'ivor (drug)'/exp OR 'ivor (drug)' OR 'ivorat'/exp OR 'ivorat' OR 'ivormax'/exp OR 'ivormax' OR 'phivor'/exp OR 'phivor' OR 'zibor'/exp OR 'zibor' OR 'alpha-heparin'/exp OR 'alpha-heparin' OR 'arteven'/exp OR 'arteven' OR 'badyket'/exp OR 'badyket' OR 'certoparin'/exp OR 'certoparin' OR 'certoparin sodium'/exp OR 'certoparin sodium' OR 'depo-heparin'/exp OR 'depo-heparin' OR 'einecs 232-681-7'/exp OR 'einecs 232-681-7' OR 'eparina'/exp OR 'eparina' OR 'mono embolex'/exp OR 'mono embolex' OR 'monoembolex'/exp OR 'monoembolex' OR 'monoembolex nm'/exp OR 'monoembolex nm' OR 'novoheparin'/exp OR 'novoheparin' OR 'op 386'/exp OR 'op 386' OR 'op 622'/exp OR 'op 622' OR 'pabyrin'/exp OR 'pabyrin' OR 'pulari'/exp OR 'pulari' OR 'sandoparin'/exp OR 'san-

doparin' OR 'sublingula'/exp OR 'sublingula' OR 'troparin'/exp OR 'troparin' OR 'vitruma'/exp OR 'vitrum a' OR 'cy 222'/exp OR 'cy 222' OR 'cy222'/exp OR 'cy222' OR 'dalteparin'/exp OR 'dalteparin' OR 'dalteparin sodium'/exp OR 'dalteparin sodium' OR 'fragmin'/exp OR 'fragmin' OR 'fragmin p forte'/exp OR 'fragmin p forte' OR 'fragmine'/exp OR 'fragmine' OR 'k 2165'/exp OR 'k 2165' OR 'k2165'/exp OR 'k2165' OR 'kabi 2165'/exp OR 'kabi 2165' OR 'low liquemin'/exp OR 'low liquemin' OR 'danaparoid'/exp OR 'danaparoid' OR 'danaparoid sodium'/exp OR 'danaparoid sodium' OR 'danaproid'/exp OR 'danaproid' OR 'kb 101'/exp OR 'kb 101' OR 'kb101'/exp OR 'kb101' OR 'lomoparan'/exp OR 'lomoparan' OR 'lomoparin'/exp OR 'lomoparin' OR 'mucoglucuronan'/exp OR 'mucoglucuronan' OR 'org 10172'/exp OR 'org 10172' OR 'org10172'/exp OR 'org10172' OR 'organan'/exp OR 'organan' OR 'deligoparin'/exp OR 'deligoparin' OR 'deligoparin sodium'/exp OR 'deligoparin sodium' OR 'op 2000'/exp OR 'op 2000' OR 'op2000'/exp OR 'op2000' OR 'dihydroergotamine plus low molecular weight heparin'/exp OR 'dihydroergotamine plus low molecular weight heparin' OR 'embolex'/exp OR 'embolex' OR 'low molecular weight heparin plus dihydroergotamine'/exp OR 'low molecular weight heparin plus dihydroergotamine' OR 'enoxaparin'/exp OR 'enoxaparin' OR 'arixtra'/exp OR 'arixtra' OR 'fondaparin'/exp OR 'fondaparin' OR 'fondaparin sodium'/exp OR 'fondaparin sodium' OR 'fondaparin sodium'/exp OR 'fondaparin sodium' OR 'fondaparin sodium'/exp OR 'fondaparin sodium' OR 'ic 851589'/exp OR 'ic 851589' OR 'ic851589'/exp OR 'ic851589' OR 'org 31540'/exp OR 'org 31540' OR 'org31540'/exp OR 'org31540' OR 'quixidar'/exp OR 'quixidar' OR 'sr 90107'/exp OR 'sr 90107' OR 'sr 90107a'/exp OR 'sr 90107a' OR 'sr90107'/exp OR 'sr90107' OR 'sr90107a'/exp OR 'sr90107a' OR 'idrabioparin sodium'/exp OR 'idrabioparin sodium' OR 'idrabioparin sodium'/exp OR 'idrabioparin sodium' OR 'ssr 126517'/exp OR 'ssr 126517' OR 'ssr 126517 e'/exp OR 'ssr 126517 e' OR 'ssr 126517e'/exp OR 'ssr 126517e' OR 'ssr126517'/exp OR 'ssr126517' OR 'ssr126517e'/exp OR 'ssr126517e' OR 'idraparin sodium'/exp OR 'idraparin sodium' OR 'idraparin sodium'/exp OR 'idraparin sodium' OR 'org 34006'/exp OR 'org 34006' OR 'org34006'/exp OR 'org34006' OR 'sanorg 34006'/exp OR 'sanorg 34006' OR 'sanorg34006'/exp OR 'sanorg34006' OR 'sr 34006'/exp OR 'sr 34006' OR 'sr34006'/exp OR 'sr34006'

OR 'livaraparin calcium'/exp OR 'livaraparin calcium' OR 'minolteparin'/exp OR 'minolteparin' OR 'minolteparin sodium'/exp OR 'minolteparin sodium' OR 'cy 216'/exp OR 'cy 216' OR 'cy 216d'/exp OR 'cy 216d' OR 'cy216'/exp OR 'cy216' OR 'cy216d'/exp OR 'cy216d' OR 'fraxiparin'/exp OR 'fraxiparin' OR 'fraxiparin multi'/exp OR 'fraxiparin multi' OR 'fraxiparina'/exp OR 'fraxiparina' OR 'fraxiparina forte'/exp OR 'fraxiparina forte' OR 'fraxiparine'/exp OR 'fraxiparine' OR 'fraxiparine forte'/exp OR 'fraxiparine forte' OR 'fraxiparine multi'/exp OR 'fraxiparine multi' OR 'fraxodi'/exp OR 'fraxodi' OR 'nadroparin'/exp OR 'nadroparin' OR 'nadroparin calcium'/exp OR 'nadroparin calcium' OR 'nadroparin sodium'/exp OR 'nadroparin sodium' OR 'seledie'/exp OR 'seledie' OR 'seleparina'/exp OR 'seleparina' OR 'seleparine'/exp OR 'seleparine' OR 'tedegliparin'/exp OR 'tedegliparin' OR 'df 01'/exp OR 'df 01' OR 'df01'/exp OR 'df01' OR 'm 402'/exp OR 'm 402' OR 'm402'/exp OR 'm402' OR 'necuparanib'/exp OR 'necuparanib' OR 'necuparanib sodium'/exp OR 'necuparanib sodium' OR 'tafoxiparin'/exp OR 'tafoxiparin' OR 'tafoxiparin sodium'/exp OR 'tafoxiparin sodium' OR 'fluxum'/exp OR 'fluxum' OR 'lohepa'/exp OR 'lohepa' OR 'lowhepa'/exp OR 'lowhepa' OR 'minidaltan'/exp OR 'minidaltan' OR 'op 2123'/exp OR 'op 2123' OR 'parnaparin'/exp OR 'parnaparin' OR 'parnaparin sodium'/exp OR 'parnaparin sodium' OR 'parvoparin'/exp OR 'parvoparin' OR 'rd 11885'/exp OR 'rd 11885' OR 'rd11885'/exp OR 'rd11885' OR 'clivarin'/exp OR 'clivarin' OR 'clivarina'/exp OR 'clivarina' OR 'clivarine'/exp OR 'clivarine' OR 'clivarodi'/exp OR 'clivarodi' OR 'lomorin'/exp OR 'lomorin' OR 'lu 47311'/exp OR 'lu 47311' OR 'lu47311'/exp OR 'lu47311' OR 'reviparin'/exp OR 'reviparin' OR 'reviparin sodium'/exp OR 'reviparin sodium' OR 'ave 5026'/exp OR 'ave 5026' OR 'ave5026'/exp OR 'ave5026' OR 'mulsevo'/exp OR 'mulsevo' OR 'semuloparin'/exp OR 'semuloparin' OR 'semuloparin sodium'/exp OR 'semuloparin sodium' OR 'visamerin'/exp OR 'visamerin' OR 'sevuparin'/exp OR 'sevuparin' OR 'sevuparin sodium'/exp OR 'sevuparin sodium' OR 'tedelparin'/exp OR 'tedelparin' OR 'tedelparin 4-6 sodium'/exp OR 'tedelparin 4-6 sodium' OR 'tedelparin sodium'/exp OR 'tedelparin sodium' OR 'innohep'/exp OR 'innohep' OR 'lhn1'/exp OR 'lhn1' OR 'logiparin'/exp OR 'logiparin' OR 'tinzaparin'/exp OR 'tinzaparin' OR 'tinzaparin sodium'/exp OR 'tinzaparin sodium') AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR

2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

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7. de Vasconcellos SJ de A, de Santana Santos T, Reinheimer DM, et al. Topical application of tranexamic acid in anticoagulated patients undergoing minor oral surgery: A systematic review and meta-analysis of randomized clinical trials. *J CranioMaxillofacial Surg*2017;45:20–6.
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 15. da Silva RV v, Gadelha TBB, Luiz RRR, et al. Intra-alveolar epsilon-aminocaproic acid for the control of post-extraction bleeding in anticoagulated patients: randomized clinical trial. *Int J Oral Maxillofac Surg* 2018;47:1138–44.
 16. Ockerman A, Miclotte I, Vanhaverbeke M, et al. Local haemostatic measures after tooth removal in patients on antithrombotic therapy: a systematic review. *Clin Oral Investig* 2019;23:1695–708.

PICO13

STRATEGY PUBMED

((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Abstract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract]) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract]) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang]))) AND ((aminocaproic acid/exp OR aminocaproic acid OR epsilon-aminocaproic acid OR 6-aminocaproic acid[mesh] OR tranexamic acid/exp OR tranexamic acid[mesh] OR antifibrinolytic agent/exp OR antifibrinolytic agent OR blood clotting factor/exp OR blood clotting factor OR desmopressin/exp OR desmopressin OR protamine sulfate/exp OR protamine sulfate OR menadione/exp OR menadione OR andexanet alfa/

exp OR andexanet alfa OR Platelet rich fibrin OR Feracrylum) AND (Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang])) AND (((DABIGATRAN OR RIVAROXABAN OR APIXABAN OR EDOXABAN OR PRADAXA OR XARELTO OR ELIQUIS OR LIXIANA OR NOAC OR "NOVEL ORAL ANTICOAGULANTS" OR "DIRECT ORAL ANTICOAGULANTS" OR "TARGET-SPECIFIC ORAL ANTICOAGULANTS") OR ("Antithrombins"[Pharmacological Action] OR NOAC* OR DOAC* OR TSOA*) OR (((("apixaban"[Supplementary Concept]) OR "Dabigatran"[Mesh]) OR "Rivaroxaban"[Mesh])) AND ("last 10 years"[Pdat] AND Humans[Mesh] AND (English[lang] OR French[lang] OR Portuguese[lang] OR Spanish[lang] OR Italian[lang])))

STRATEGY EMBASE

('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry') AND ('aminocaproic acid'/exp OR 'aminocaproic acid' OR 'tranexamic acid'/exp OR 'tranexamic acid' OR 'antifibrinolytic agent'/exp OR 'antifibrinolytic agent' OR 'blood clotting factor'/exp OR 'blood clotting factor' OR 'desmopressin'/exp OR 'desmopressin' OR 'protamine sulfate'/exp OR 'protamine sulfate' OR 'menadione'/exp OR 'menadione' OR 'andexanet alfa'/exp OR 'andexanet alfa' OR 'feracrylum') AND ('apixaban'/exp OR '1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxopiperidin 1 yl) phenyl] 4, 5, 6, 7 tetrahydro 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR '4, 5, 6, 7 tetrahydro 1 (4 methoxyphenyl) 7 oxo 6 [4 (2 oxo 1 piperidinyl) phenyl] 1h pyrazolo [3, 4 c] pyridine 3 carboxamide' OR 'apixaban' OR 'bms 562247' OR 'bms 562247 01' OR 'bms 562247-01' OR 'bms562247' OR 'bms562247 01' OR 'bms562247-01' OR 'eliques' OR 'eliquis' OR 'rivaroxaban'/exp OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] 1, 3 oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholin 4 yl) phenyl] oxazolidin 5 yl] methyl] thiophene 2 carboxamide' OR '5 chloro n [[2 oxo 3 [4 (3 oxomorpholino) phenyl] 5 oxazolidinyl] methyl] 2 thiophenecarboxamide' OR 'bay 59 7939' OR 'bay 59-7939' OR 'bay 597939' OR 'bay59 7939' OR 'bay59-7939' OR 'bay597939' OR

'rivaroxaban' OR 'xarelto' OR 'edoxaban'/exp OR 'du 176' OR 'du 176b' OR 'du176' OR 'du176b' OR 'edoxaban' OR 'edoxabantosilate' OR 'edoxabantosilate hydrate' OR 'edoxabantosylate' OR 'edoxabantosylate hydrate' OR 'endoxaban' OR 'lixiana' OR 'n (5 chloro 2 pyridinyl) n` [4 (n, n dimethylcarbamoyl) 2 (5 methyl 4, 5, 6, 7 tetrahydrothiazolo [5, 4 c] pyridine 2 carboxamido) cyclohexyl] oxamide' OR 'roteas' OR 'savaysa' OR 'betrixaban'/exp OR 'betrixaban' OR 'bevyxxa' OR 'dextience' OR 'n (5 chloro 2 pyridinyl) 2 [4 (n, n dimethylcarbamimidoyl) benzamido] 5 methoxybenzamide' OR 'n (5 chloropyridin 2 yl) 2 [[4 (n, n dimethylcarbamimidoyl) benzoyl] amino] 5 methoxybenzamide' OR 'prt 054021' OR 'prt054021' OR 'blood clotting factor 10a inhibitor'/exp OR 'blood clotting factor 10a inhibitor' OR 'blood clotting factor xa inhibitor' OR 'direct factor xa inhibitor' OR 'direct factor xa inhibitors' OR 'factor xa inhibitor' OR 'factor xa inhibitors' OR 'thrombin inhibitor'/exp OR 'direct thrombin inhibitor' OR 'thrombin inhibitor' OR 'thrombin inhibitors' OR 'non vitamin k antagonist oral anticoagulant'/exp OR noac OR 'doac or tsoac') AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

1. Johnston S. An evidence summary of the management of patients taking direct oral anticoagulants (DOACs) undergoing dental surgery. *Int J Oral Maxillofac Surg* 2016;47:618–30.
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preventing oral bleeding in people on anticoagulants undergoing minor oral surgery or dental extractions. *Cochrane Database Syst Rev* 2018;7:CD012293.

6. Johnston S. A Study of the Management of Patients Taking Novel Oral Antiplatelet or Direct Oral Anticoagulant Medication Undergoing Dental Surgery in a Rural Setting. *Dent J* 2015;3:102–10.
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13. Tokarek T, Homaj M, Zabojszcz M, et al. Knowledge on the guideline-recommended use of antiplatelet and anticoagulant therapy during dental extractions: a contemporary survey among Polish dentists. *Kardiologia Pol* 2020;78:1122–8.
14. Engelen ET, Schutgens RE, Mauser-Bun-

schoten EP, et al. Antifibrinolytic therapy for preventing oral bleeding in people on anti-coagulants undergoing minor oral surgery or dental extractions. *Cochrane Database Syst Rev* 2018;7:CD012293.

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PICO14

STRATEGY PUBMED

(Blood Coagulation Disorders, Inherited"[Mesh]) OR "Activated Protein C Resistance"[Mesh]) OR "Afibrinogenemia"[Mesh] OR "Antithrombin III Deficiency"[Mesh]) OR "Bernard-Soulier Syndrome"[Mesh]) OR "Factor V Deficiency"[Mesh]) OR "Factor VII Deficiency"[Mesh] OR "Factor X Deficiency"[Mesh] OR "Factor XI Deficiency"[Mesh]) OR "Factor XII Deficiency"[Mesh] OR "Factor XIII Deficiency"[Mesh] OR "Hemophilia A"[Mesh]) OR "Hemophilia B"[Mesh] OR "Hermanski-Pudlak Syndrome"[Mesh] OR "Hypoprothrombinemias"[Mesh]) OR "Protein C Deficiency"[Mesh] OR "Thrombasthenia"[Mesh] OR "von Willebrand Disease, Type 1"[Mesh] OR "von Willebrand Disease, Type 2"[Mesh] OR "von Willebrand Disease, Type 3"[Mesh] OR "von Willebrand Diseases"[Mesh] OR "Wiskott-Aldrich Syndrome"[Mesh]) AND ((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar\$[Title/Abstract] OR bicuspid\$[Title/Abstract] OR cuspid\$[Title/Abstract] OR incisor\$[Title/Abstract]) AND (extract\$[Title/Abstract] OR remov\$[Title/Abstract] OR surgery[Title/Abstract]) OR ((dental implant[MeSH Terms]) OR (tooth ADJ implant*)) OR (dental ADJ implant*)) AND ("cyanoacrylate derivative" OR "hemostatic agent" OR "suture material" OR gelfoam OR "oxidized regenerated cellulose" OR "gauze dressing" OR "fibrin tissue adhesive"[mesh] OR enbucrilate[mesh] OR chlorhexidine[mesh] OR "chlorhexidine gluconate"[supplementary concept] AND (Humans[Mesh])) AND ("last 10 years"[PDat] AND Humans[Mesh]))

STRATEGY EMBASE

((('blood clotting disorder'/exp OR 'blood clotting abnormality' OR 'blood clotting anomaly' OR 'blood clotting defect' OR 'blood clotting disease' OR 'blood clotting disorder' OR 'blood coagulation defect' OR 'blood coagulation disease' OR 'blood coagulation disorder' OR 'blood coagulation disorders' OR 'blood coagulation disorders, inherited' OR 'blood coagulation disturbance' OR 'blood coagulopathy' OR 'clotting defect' OR 'clotting disorder' OR 'coagulation defect' OR 'coagulation disease' OR 'coagulation disorder' OR 'coagulation protein disorders' OR 'coagulopathy' OR 'haemostatic disorders' OR 'hemostatic disorders' OR 'vas-

cular haemostatic disorders' OR 'vascular hemostatic disorders' OR 'activated protein c resistance'/exp OR 'activated protein c resistance' OR 'protein c resistance' OR 'resistance, activated protein c' OR 'afibrinogenemia'/exp OR 'acquired afibrinogenemia' OR 'afibrinogenemia' OR 'afibrinogenemia' OR 'congenital afibrinogenemia' OR 'congenital afibrinogenemia' OR 'mckusick 20240' OR 'antithrombin deficiency'/exp OR 'antithrombin 3 deficiency' OR 'antithrombin iii deficiency' OR 'antithrombin deficiency' OR 'deficiency, antithrombin' OR 'bernardsoulier disease'/exp OR 'bernardsoulier disease' OR 'bernardsoulier syndrome' OR 'bernardsoulier's disease' OR 'bernard-soulier syndrome' OR 'jean bernardsoulier disease' OR 'jean bernardsoulier's disease' OR 'blood clotting factor 5 deficiency'/exp OR 'blood clotting factor 5 deficiency' OR 'blood clotting factor v deficiency' OR 'clotting factor 5 deficiency' OR 'clotting factor v deficiency' OR 'factor v deficiency' OR 'parahaemophilia' OR 'parahemophilia' OR 'blood clotting factor 7 deficiency'/exp OR 'blood clotting factor 7 deficiency' OR 'blood clotting factor vii deficiency' OR 'clotting factor 7 deficiency' OR 'clotting factor vii deficiency' OR 'factor 7 deficiency' OR 'factor vii deficiency' OR 'hereditary factor vii deficiency' OR 'proconvertin deficiency' OR 'stable factor deficiency' OR 'blood clotting factor 10 deficiency'/exp OR 'blood clotting factor 10 deficiency' OR 'blood clotting factor x deficiency' OR 'factor x deficiency' OR 'prower deficiency' OR 'stuart deficiency' OR 'stuartprower deficiency' OR 'blood clotting factor 11 deficiency'/exp OR 'blood clotting factor 11 deficiency' OR 'blood clotting factor xi deficiency' OR 'clotting factor 11 deficiency' OR 'factor xi deficiency' OR 'hemophilia c' OR 'hemophiloid state c' OR 'plasma thromboplastin antecedent deficiency' OR 'rosenthal disease' OR 'rosenthal factor deficiency' OR 'blood clotting factor 12 deficiency'/exp OR 'blood clotting xii deficiency' OR 'blood clotting factor 12 deficiency' OR 'blood clotting factor xii deficiency' OR 'congenital blood clotting factor 12 deficiency trait' OR 'factor xii deficiency' OR 'factor twelve deficiency' OR 'hageman trait' OR 'hereditary clotting factor xii deficiency' OR 'blood clotting factor 13 deficiency'/exp OR 'blood clotting factor 13 deficiency' OR 'blood clotting factor xiii deficiency' OR 'deficiency, fibrin stabilising factor' OR 'deficiency, fibrin stabilizing factor' OR 'factor xiii deficiency' OR 'fibrin stabilising factor deficiency' OR 'fibrin stabilizing

factor deficiency' OR 'hemophilia a'/exp OR 'ahf deficiency' OR 'ahg deficiency' OR 'antihaemophilic factor deficiency, congenital' OR 'antihemophilic factor deficiency, congenital' OR 'blood clotting factor 8 deficiency' OR 'blood clotting factor viii deficiency' OR 'classic haemophilia' OR 'classic hemophilia' OR 'clotting factor 8 deficiency, congenital' OR 'congenital antihaemophilic factor deficiency' OR 'congenital antihaemophilic globulin deficiency' OR 'congenital antihemophilic factor deficiency' OR 'congenital antihemophilic globulin deficiency' OR 'congenital blood clotting factor 8 deficiency' OR 'congenital blood clotting factor viii deficiency' OR 'congenital clotting factor 8 deficiency' OR 'factor viii deficiency' OR 'haemophilia a' OR 'haemophilia vera' OR 'hemophilia a' OR 'hemophilia plasma' OR 'hemophilia vera' OR 'hemophylia type a' OR 'mckusick 30670' OR 'true haemophilia' OR 'true hemophilia' OR 'hemophilia b'/exp OR 'blood clotting factor 9 deficiency' OR 'blood clotting factor ix deficiency' OR 'christmas disease' OR 'congenital blood clotting factor 9 deficiency' OR 'congenital blood clotting factor ix deficiency' OR 'congenital clotting factor 9 deficiency' OR 'haemophilia b' OR 'hemophilia b' OR 'mckusick 30690' OR 'hypoprothrombinemia'/exp OR 'congenital hypoprothrombinemia' OR 'congenital hypoprothrombinemia' OR 'hereditary hypoprothrombinemia' OR 'hypoprothrombinemia' OR 'hypoprothrombinemias' OR 'hypoprothrombinemia' OR 'hypoprothrombinemias' OR 'mckusick 17693' OR 'protein c deficiency'/exp OR 'deficiency, protein c' OR 'protein c deficiency' OR 'glanzmann disease'/exp OR 'glanzmann disease' OR 'glanzmann thrombasthenia' OR 'glanzmann's thrombasthenia' OR 'constitutional thrombocytopathy' OR 'glanzmannriniker syndrome' OR 'haemorrhagic thrombasthenia, hereditary' OR 'hemorrhagic thrombasthenia, hereditary' OR 'hereditary haemorrhagic thrombasthenia' OR 'hereditary hemorrhagic thrombasthenia' OR 'thrombasthenia' OR 'von willebrand disease'/exp OR 'willebrand disease' OR 'aland bleeder' OR 'alland bleeder' OR 'angiohaemophilia' OR 'angiohemophilia' OR 'disease, von willebrand' OR 'hemophilia, vascular' OR 'minot von willebrand syndrome' OR 'pseudohaemophilia' OR 'pseudo-hemophilia' OR 'vascular hemophilia' OR 'von willebrand disease' OR 'von willebrand disease type 1' OR 'von willebrand disease type 2' OR 'von willebrand disease type 3' OR 'von willebrand disease, type 1' OR 'von willebrand disease, type 2' OR 'von

willebrand disease, type 3' OR 'von willebrand diseases' OR 'von willebrandjurgan syndrome' OR 'von willebrand's disease' OR 'willebrand disease type 1' OR 'willebrand disease type 2' OR 'willebrand disease type 2a' OR 'willebrand disease type 2b' OR 'willebrandjurgan disease' OR 'wiskottaldrich syndrome'/exp OR 'wiskottaldrich syndrome' OR 'aldrich syndrome' OR 'mckusick 30100' OR 'syndrome, wiskottaldrich' OR 'wiskott-aldrich syndrome')) AND (((((cyanoacrylate AND derivative OR hemostatic) AND agent OR suture) AND material OR gelfoam OR oxidized) AND regenerated AND cellulose OR gauze) AND dressing OR 'fibrin tissue adhesive' OR enbucrilate OR chlorhexidine OR 'chlorhexidinen gluconate') AND (('tooth implant'/exp OR 'bicon' OR 'grafton' OR 'swish active' OR 'swish tapered' OR 'dental implant' OR 'dental implants' OR 'implant, teeth' OR 'implant, tooth' OR 'implants, teeth' OR 'implants, tooth' OR 'intramuscular dental implant' OR 'teeth implant' OR 'teeth implants' OR 'tooth implant' OR 'tooth implants' OR 'tooth implantation'/exp OR 'apertognathia' OR 'blade implantation' OR 'dental implantation' OR 'dental implantation, endosseous' OR 'dental implantation, endosseous, endodontic' OR 'dental implantation, subperiosteal' OR 'immediate dental implant loading' OR 'tooth implantation') OR ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar amputation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection' OR 'oral surgery'/exp OR 'apex excision' OR 'buccal surgery' OR 'jaw fixation techniques' OR 'mouth surgery' OR 'oral surgery' OR 'oral surgical procedures' OR 'surgery, mouth' OR 'surgery, oral' OR 'tooth apex excision' OR 'dental procedure'/exp OR 'care, dental' OR 'care, tooth' OR 'community dentistry' OR 'comprehensive dental care' OR 'dental care' OR 'dental care for aged' OR 'dental care for children' OR 'dental care for chronically ill' OR 'dental care for disabled' OR 'dental care for handicapped' OR 'dental care program' OR 'dental care programme' OR 'dental caries activity tests' OR 'dental health care' OR 'dental health services' OR 'dental models' OR 'dental procedure' OR 'dental service' OR 'dental service, hospital' OR 'dental stress analysis' OR 'dental technique' OR 'dental treatment' OR 'denture identification marking' OR 'electro galvanism, intraoral' OR 'enamel microabrasion' OR 'esthetics, dental' OR 'tooth

bleaching' OR 'tooth care' OR 'tooth remineralization' OR 'minor surgery'/exp OR 'minor surgery' OR 'minor surgical procedure' OR 'minor surgical procedures' OR 'surgery, minor' OR 'surgical procedures, minor') OR ('tooth extraction'/exp OR 'tooth extraction' OR 'oral surgery'/exp OR 'oral surgery' OR 'dentoalveolar surgery'/exp OR 'dentoalveolar surgery' OR 'orthognathic surgery'/exp OR 'orthognathic surgery' OR 'periodontal surgery'/exp OR 'periodontal surgery' OR 'operative dentistry'/exp OR 'operative dentistry')) AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2014:py OR 2015:py OR 2018:py OR 2019:py) AND ([english]/lim OR [french]/lim OR [italian]/lim OR [portuguese]/lim OR [spanish]/lim)

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13. De Padua V, Gaglioti D, Santoro C, et al. Management of dental invasive procedures in hemophilia A/B and von willebrand disease outpatients. *Haematologica*2013;98:744.

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STRATEGY PUBMED

(((((("Tooth Extraction"[Mesh]) OR "Tooth, Impacted"[Mesh]) OR (tooth[Title/Abstract] OR teeth[Title/Abstract] OR molar[Title/Abstract] OR bicuspid[Title/Abstract] OR cuspid[Title/Abstract] OR incisor[Title/Abstract])) AND (extract[Title/Abstract] OR remov[Title/Abstract] OR surgery[Title/Abstract])) AND ("last 10 years"[PDat] AND Humans[Mesh])) OR (((dental implant[MeSH Terms]) OR (tooth ADJ implant*) OR (dental ADJ implant*)) AND ("last 10 years"[PDat] AND Humans[Mesh])) AND ("last 10 years"[PDat] AND Humans[Mesh])) AND (aminocaproic OR "tranexamic acid" OR TXA OR desmopressin OR "ferrous sulphate" OR "ANTI-FIBRINOLYTIC THERAPY" OR feiba OR "Anti-fibrinolytics" OR eaca OR amcha OR protamine sulphate AND ("last 10 years"[PDat] AND Humans[Mesh])) AND ("Activated Protein C Resistance" OR "Afi-

brinogenemia" OR "Antithrombin III Deficiency" OR "Bernard-Soulier Syndrome" OR "Factor V Deficiency" OR "Factor VII Deficiency" OR "Factor X Deficiency" OR "Factor XI Deficiency" OR "Factor XII Deficiency" OR "Factor XIII Deficiency" OR "Hemophilia A" OR "Hemophilia B" OR "Hermanski-Pudlak Syndrome" OR "Hypoprothrombinemias" OR "Protein C Deficiency" OR "Thrombasthenia" OR "von Willebrand Disease" OR vWD OR "Wiskott-Aldrich Syndrome" AND ("Blood Coagulation Disorders, Inherited"[Mesh]) OR "Activated Protein C Resistance"[Mesh]) OR "Afibrinogenemia"[Mesh] OR "Antithrombin III Deficiency"[Mesh] OR "Bernard-Soulier Syndrome"[Mesh] OR "Factor V Deficiency"[Mesh] OR "Factor VII Deficiency"[Mesh] OR "Factor X Deficiency"[Mesh] OR "Factor XI Deficiency"[Mesh] OR "Factor XII Deficiency"[Mesh] OR "Factor XIII Deficiency"[Mesh] OR "Hemophilia A"[Mesh] OR "Hemophilia B"[Mesh] OR "Hermanski-Pudlak Syndrome"[Mesh] OR "Hypoprothrombinemias"[Mesh] OR ("Protein C Deficiency"[Mesh]) OR "Thrombasthenia"[Mesh]) OR "von Willebrand Disease, Type 1"[Mesh] OR "von Willebrand Disease, Type 2"[Mesh] OR "von Willebrand Disease, Type 3"[Mesh] OR "von Willebrand Diseases"[Mesh] OR "Wiskott-Aldrich Syndrome"[Mesh]) AND ("last 10 years"[PDat] AND Humans[Mesh]))

STRATEGY EMBASE

('hemophilia'/exp OR 'haemophilia' OR 'hemophilia' OR 'subhemophilia' OR 'congenital blood clotting disorder'/exp OR 'blood clotting disorder, congenital' OR 'congenital blood clotting disorder' OR 'von willebrand disease'/exp OR 'willebrand disease' OR 'aland bleeder' OR 'alland bleeder' OR 'angiohaemophilia' OR 'angiohemophilia' OR 'disease, von willebrand' OR 'hemophilia, vascular' OR 'minot von willebrand syndrome' OR 'pseudohaemophilia' OR 'pseudohemophilia' OR 'vascular hemophilia' OR 'von willebrand disease' OR 'von willebrand disease type 1' OR 'von willebrand disease type 2' OR 'von willebrand disease type 3' OR 'von willebrand disease, type 1' OR 'von willebrand disease, type 2' OR 'von willebrand disease, type 3' OR 'von willebrand diseases' OR 'von willebrandjurgan syndrome' OR 'von willebrand's disease' OR 'willebrand disease type 1' OR 'willebrand disease type 2' OR 'willebrand disease type 2a' OR 'willebrand disease type 2b' OR 'willebrandjurgan disease') AND

('aminocaproic acid'/exp OR '3 aminocaproic acid' OR '4 aminocaproic acid' OR '4 amino hexanoic acid' OR '6 amino caproic acid' OR '6 amino n hexanoic acid' OR '6 aminocaproic acid' OR '6 aminohexanoic acid' OR '6-aminocaproic acid' OR 'eaca' OR 'acikaprin' OR 'afibrin' OR 'amicar' OR 'amino caproic acid' OR 'aminocaproic' OR 'aminocaproic acid' OR 'aminohexanoic acid' OR 'beta aminocaproic acid' OR 'capracid' OR 'capramol' OR 'caproamin' OR 'caprocid' OR 'caprogel' OR 'caprolest' OR 'caprolisin' OR 'caprolisine' OR 'caprolysin' OR 'capromol' OR 'cl 10304' OR 'cl10304' OR 'cy 116' OR 'cy116' OR 'e aminocaproic acid' OR 'eacaroché' OR 'ecapron' OR 'ekaprol' OR 'epsamon' OR 'epsicaprom' OR 'epsicapron' OR 'epsikapron' OR 'epsilcapramin' OR 'epsilon amino caproate' OR 'epsilon amino caproic acid' OR 'epsilon aminocaproate' OR 'epsilon aminocaproic acid' OR 'epsilonaminocaproic acid' OR 'epsilonaminocapronsav' OR 'etha aminocaproic acid' OR 'ethaaminocaproic acid' OR 'gamma aminocaproic acid' OR 'gamma aminohexanoic acid' OR 'hemocaprol' OR 'hepin' OR 'ipsilon' OR 'jd 177' OR 'jd177' OR 'neocaprol' OR 'nsc 26154' OR 'nsc26154' OR 'resplamin' OR 'tachostyptan' OR txa OR eaca OR 'tranexamic acid'/exp OR '4 amino methylcyclohexane carboxylate' OR '4 aminomethylcyclohexanecarbonic acid' OR '4 aminomethylcyclohexanecarboxylic acid' OR 'amcha' OR 'amca' OR 'amchafibrin' OR 'amikapron' OR 'aminomethyl cyclohexane carboxylic acid' OR 'aminomethylcyclohexanecarboxylic acid' OR 'aminomethylcyclohexane carbonic acid' OR 'aminomethylcyclohexane carboxylic acid' OR 'aminomethylcyclohexanecarbonic acid' OR 'aminomethylcyclohexanecarboxylic acid' OR 'aminomethylcyclohexanocarboxylic acid' OR 'aminomethylcyclohexanoic acid' OR 'amstat' OR 'anexan' OR 'antivoff' OR 'anvitoff' OR 'caprilon' OR 'cis 4 aminomethylcyclohexanecarboxylic acid' OR 'cis aminomethylcyclohexanecarboxylic acid' OR 'cl 65336' OR 'cl65336' OR 'cyclocapron' OR 'cyclokapron' OR 'cyklocapron' OR 'cyklokapron' OR 'exacyl' OR 'fibrinon' OR 'frenolyse' OR 'hemostan' OR 'hexacapron' OR 'hexakapron' OR 'kalnex' OR 'lysteda' OR 'miranex' OR 'para aminomethylcyclohexane carboxylic acid' OR 'rikaparin' OR 'ronex' OR 'theranex' OR 'tramic' OR 'tranex' OR 'tranexam' OR 'tranexamic acid' OR 'tranexanic acid' OR 'tranexic' OR 'trans 1 aminomethylcyclohexane 4 carboxylic acid' OR 'trans 4 (aminomethyl) cyclohexane 1 carboxylic acid' OR 'trans 4 (aminomethyl) cyclohexane carbonic acid' OR 'trans 4 (aminomethyl) cyclohexane-

carboxylic acid' OR 'trans 4 aminomethylcyclohexane 1 carboxylic acid' OR 'trans 4 aminomethylcyclohexane carboxylic acid' OR 'trans 4 aminomethylcyclohexanecarboxylic acid' OR 'trans achma' OR 'trans amcha' OR 'trans aminomethyl cyclohexane carboxylic acid' OR 'trans aminomethylcyclohexane carboxylic acid' OR 'trans aminomethylcyclohexanecarboxylic acid' OR 'transamin' OR 'transaminomethylcyclohexane carboxylic acid' OR 'transexamic acid' OR 'traxamic' OR 'trenaxin' OR 'uguro' OR amcha OR 'desmopressin'/exp OR '(1 deamino 8 dextro arginine) vasopressin' OR '1 deamine 8 d arginine vasopressin' OR '1 deamino 8 d arginine vasopressin' OR '1 desamino 8 d arginine vasopressin' OR '8 (1 desaminoarginine) vasopressin' OR 'ddavp' OR 'ddavp (needs no refrigeration)' OR 'ddavp desmopressin' OR 'ddavp melt' OR 'ddavp nasal' OR 'ddavp rhinal tube' OR 'ddavp tablets' OR '[1 deamino 8 d arginine] vasopressin' OR '[1 deamino 8 dextro arginine] vasopressin' OR '[deamino 8 cysteine d arginine] vasopressin' OR '[deamino 8 cysteine dextro arginine] vasopressin' OR '[deamino 8 dextro arginine] vasopressin' OR 'adin' OR 'adiuretin' OR 'adiuretinsd' OR 'adiuretin-sd' OR 'concentraid' OR 'd-void' OR 'dav ritter' OR 'deamino 8 dextro arginine vasopressin' OR 'deamino 8d arginine vasopressin' OR 'deaminodextro arginine vasopressin' OR 'deaminovasopressin [8 d arginine]' OR 'defirin' OR 'defirin melt' OR 'desmirin' OR 'desmomelt' OR 'desmopresina' OR 'desmopressin' OR 'desmopressin acetate' OR 'desmopressin acetate (needs no refrigeration)' OR 'desmopressin acetate preservative free' OR 'desmopressin diacetate' OR 'desmopressin nasal solution' OR 'desmopressina' OR 'desmopressine' OR 'desmospray' OR 'desmotab' OR 'desmotabs' OR 'desmotabs melt' OR 'desurin' OR 'emosint' OR 'enupresol' OR 'minirin' OR 'minirinddavp' OR 'minirin melt' OR 'minirin nasal spray' OR 'minirinrhinetten' OR 'minirinrhinyle' OR 'minirin spray' OR 'minirinette' OR 'minirinmelt' OR 'minrin' OR 'minurin' OR 'minurinflas' OR 'minuringotas' OR 'miram' OR 'nictur' OR 'niwinas' OR 'nocdurna' OR 'noctisson' OR 'nocturin' OR 'nocutil' OR 'nokdirna' OR 'noqdirna' OR 'noqturina' OR 'nordurine' OR 'novidin' OR 'nucotilnasenspray' OR 'octim' OR 'octostim' OR 'octostim nasal spray' OR 'octostim spray' OR 'presinex' OR 'stimate' OR 'vasopressin 8 (1 desaminoarginine)' OR 'vasopressin [1 (3 mercaptopropionic acid) 8 dextro arginine]' OR 'vasopressin [1

deamino 8 dextro arginine]' OR 'vasopressin [deamino 8 cysteine dextro arginine]' OR 'vasopressin [deamino 8 d arginine]' OR 'vasopressin [deamino 8 dextro arginine]' OR 'vasopressin [deaminodextro arginine]' OR 'vasopressin, 1 deamino 8 dextro arginine' OR 'vasopressin, deamino 8 dextro arginine' OR 'wetirin' OR 'ferrous sulfate'/exp OR 'anorvit' OR 'betaron' OR 'brofesol' OR 'com-femic' OR 'conferon' OR 'duroferon' OR 'feosol' OR 'feosolspansule' OR 'feospan' OR 'fer in sol' OR 'fer-in-sol' OR 'ferclor' OR 'fercuman' OR 'ferinsol' OR 'feritard' OR 'ferlea' OR 'fero grad' OR 'ferogradumet' OR 'fero-gradumet' OR 'feroma' OR 'feromax' OR 'ferracin' OR 'ferraemia' OR 'ferralyn' OR 'ferralynlacaps' OR 'ferraplex' OR 'ferro gradumet' OR 'ferro redoxon' OR 'ferro sulfate' OR 'ferro sulphate' OR 'ferro-grad' OR 'ferro-gradumet' OR 'ferrobetaalin' OR 'ferrofer' OR 'ferrogamma' OR 'ferrograd' OR 'ferrogradumet' OR 'ferrolent' OR 'ferronemia' OR 'ferrophor' OR 'ferrosulfate' OR 'ferrosulphate' OR 'ferrous sulfate' OR 'ferrous sulfate hexahydrate' OR 'ferrous sulfate hydrate' OR 'ferrous sulfate oxidation' OR 'ferrous sulphate' OR 'ferrous sulphate hexahydrate' OR 'ferrous sulphate hydrate' OR 'ferrous sulphate oxidation' OR 'fersolate' OR 'fesofor' OR 'fesovite' OR 'fespan' OR 'folfer' OR 'haemofax' OR 'haemoprotect' OR 'hemobion' OR 'hemofer' OR 'iberol' OR 'iberol goths' OR 'iron sulfate' OR 'iron sulphate' OR 'irosul' OR 'liquifer' OR 'microfer' OR 'mol in iron' OR 'mol iron' OR 'mol-iron' OR 'monsels' OR 'novoferrosulfa' OR 'orafer' OR 'perhaemin' OR 'plastufer' OR 'plexafer' OR 'polyhaemen' OR 'presfersul' OR 'retafer' OR 'ribothiron' OR 'roncovite' OR 'rybaferrin' OR 'slow fe' OR 'slow-fe' OR 'sul ferrous' OR 'sulfate iron' OR 'sulphate iron' OR 'tri sulph' OR 'antifibrinolytic agent'/exp OR 'antifibrinolysin' OR 'antifibrinolytic' OR 'antifibrinolytic agent' OR 'antifibrinolytic agents' OR 'fibrinolysis inhibitor' OR 'inhibitor, fibrinolysis' OR 'activated prothrombin complex'/exp OR feiba OR 'protamine sulfate'/exp OR 'protamin sulfate' OR 'protamin sulphate' OR 'protamine sulfate' OR 'protamine sulphate' OR 'prothamine sulfate' OR 'prothamine sulphate' OR 'serial dilution protamine sulfate test' OR 'serial dilution protamine sulphate test') AND ('tooth extraction'/exp OR 'dental extraction' OR 'dental extractions' OR 'exodontia' OR 'exodontics' OR 'extraction, tooth' OR 'molar amputation' OR 'molar extraction' OR 'odontectomy' OR 'tooth extraction' OR 'tooth removal' OR 'tooth resection' OR 'tooth implantation'/exp OR 'apertognathia' OR

'blade implantation' OR 'dental implantation' OR 'dental implantation, endosseous' OR 'dental implantation, endosseous, endodontic' OR 'dental implantation, subperiosteal' OR 'immediate dental implant loading' OR 'tooth implantation') AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py OR 2020:py)

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EVIDENCETABLES

PICO Table 1

Author and year	Journal	Type of study	Objectives and procedure with anticoagulants	Sample and tracking time	Results	Conclusions	NE	GR
Yamada et al. 2019	Odontology	Retrospective Cohorts	To assess the prevalence of bleeding and risk factors after extraction of lower third molar teeth in patients anticoagulated with warfarin	Patients treated with warfarin: 142. Healthy controls: 2876.	Warfarin group compared to the control group (21.8% vs 0.7%) (n=31 vs 142). This difference was statistically significant (p< 0.00). Univariate analysis demonstrated a higher risk of bleeding in patients previously treated with antibiotics (OR=2,533) and patients with difficulties in controlling intraoperative hemostasis (OR=6,230). Regarding the risk due to the use of antiaggregants, no increased risk was found for these patients (OR= 0.638). ROC curve analysis determined an INR value greater than 2.11 as an indicator of risk of major bleeding in anticoagulated patients.	Multivariate correlations associated high INR levels (> 2.11), previous antibiotic treatment, elevated blood creatinine levels, and lack of control of intraoperative bleeding, as risk factors associated with bleeding in patients treated with warfarin.	2-	C.
Lu et al. 2018	Journal of the Formosan Medical Association	Prospective	Prevalence of postoperative bleeding in 4 groups: patients treated with warfarin (INR<4); treated with warfarin who switched to heparin while hospitalized; patients treated with aspirin, clopidogrel or dual antiplatelet therapy; and healthy control group.	A total of 1,331 patients were included in this study: 60 treated with warfarin, 183 with antiplatelet agents, and 1,088 in the control group.	The percentage of postoperative bleeding was higher in patients who continued with warfarin or who replaced it with heparin, (9.1% vs 8.1%) compared with antiplatelet patients (aspirin/ clopidogrel	Sufficient hemostasis can be achieved using local measures. Whenever possible, warfarin at therapeutic levels (INR < 4) or antiplatelet therapy should not be interrupted.	2+	C.
Caliskan et al. 2017	Oral Medicine Oral Pathology Oral Surgery	Cohorts prospective	To compare the amount of bleeding and postoperative complications, after the extraction of a single tooth), in patients taking warfarin and DOACs without altering coagulation therapy.	A total of 86 patients were included in this study. 22 patients treated with warfarin, 21 with factor X inhibitors and 17 with factor II inhibitors, and 24 healthy controls. They measured the amount of bleeding in milligrams and the degree of bleeding on the second and seventh days.	The amount of bleeding was greater for patients with warfarin: on the second day, 12 had bleeding (54.6%), and on the seventh day, 3 patients were still bleeding (13.6%). Healthy individuals did not present any type of bleeding on the 2nd or 7th day (0%) (p<0.005).	Patients taking warfarin had more bleeding compared to controls.	2+	C.
Yagyu et al. 2017	British Medical Journal Open	Retrospective Cohorts	To analyze the risk of post-extraction bleeding in patients treated with DOACs * vitamin K antagonists.	The incidence of post-extraction bleeding (that was not stopped by biting on gauze for 30 minutes) and up to 7 days after extraction. The incidence of post-extraction bleeding per tooth was 10.4% for patients with DOACs, 12% for patients treated with vitamin K antagonists, and 0.9% for patients without anticoagulation. The univariate and multivariate analysis reflected a risk of major bleeding in patients treated with vitamin K antagonists (OR= 8.65, 95% CI: 40-18.6, p< 0.001).	A total of 543 patients (who underwent 1196 extractions) were included; 72 extractions in patients treated with DOACs (4 of them also treated with antiplatelet drugs), 100 extractions in patients treated with vitamin K antagonists (15 also antiplatelet drugs), and 1024 without anticoagulants (191 of whom were taking antiplatelet drugs).	The risk of postoperative bleeding was similar in patients taking DOACs or warfarin with no significant differences compared to patients also being treated with antiplatelet agents.	2+	C.

Febbo et al. 2016	Journal of Oral and Maxillofacial Surgery	Cohorts Retrospective	Assess the risk of bleeding in patients receiving warfarin and in healthy controls.	warfarin- treated patients and 1022 withdrawals vs. 439 healthy controls and 1049 withdrawals. With INR < 2.2, no local measures were applied, and patients with INR between 2.2 and 4 were sutured and rinsed with tranexamic acid. Patients with INR > 4 were not treated.	A total of 9 anticoagulated patients bled for 0-10 days, requiring admission and transfusion in one of the cases. The significant predictors of bleeding were the INR and the number of extractions (p<0.001). No bleeding was recorded in healthy controls or in cases with INR<2.2. The RR of bleeding with INR <3 was 1/40, and with INR >3 it was 1/11.	Those patients with INR < 2.2 presented a risk of bleeding similar to that of healthy controls.	2+	C.
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PICO Table 1 (II)

Author and year	Journal	Type of study	Objectives and procedure with anticoagulants	Sample and tracking time	Results	Conclusions	NE	GR
Bajkin et al. 2015	Journal of the American Dental Association	Prospective	To analyze the risk of bleeding in patients undergoing extractions and treatment with warfarin and acenocoumarol, with different INR values and compared with healthy controls.	Groups: A) 54 anticoagulated patients (52 with acenocoumarol, 2 with phenprocoumon) with INR=3.5-4.5 who had up to 3 teeth extracted; B) 60 anticoagulated patients (57 patients were treated with acenocoumarol, 3 with warfarin) with INR= 2-3.5 who had more than 3 teeth extracted or other high-risk dentoalveolar surgery procedures; C) 11 anticoagulated patients (all with acenocoumarol) with INR≥3.5 who had more than 3 teeth extracted or other high-risk dentoalveolar surgery procedures. Control group: 85 healthy individuals with different numbers of extractions.	Postoperative bleeding was experienced by 3.7% (n=2) of the patients in group A, 5.0% (n=3) in group B, and 18.2% (n=2) in group C. In the control group, there was only 1 event (1.2%).	Dental extractions in highly anticoagulated patients (INR= 3.5-4.5) and other high-risk dentoalveolar surgical procedures can be performed without interruption of anticoagulant therapy.	2+	C.
Iwabuchi et al. 2014	British Medical Journal Open	Cohorts prospective	Evaluation of the incidence of post-extraction bleeding in patients anticoagulated with warfarin and healthy controls.	warfarin patients, and 2321 withdrawals in healthy controls, were included. The INR had to be <3 and was not discontinued in any patient.	The incidence of bleeding in warfarin patients was 2.77% compared to healthy controls which was 0.39%. Univariate analyzes showed that age and INR were correlated with bleeding. The multivariate analysis also associated antiplatelet medication as a risk factor (OR= 0.1, p= 0.049).	The incidence of bleeding after dental extraction in patients treated with warfarin is higher than in healthy controls, although this incidence is low in both groups.	2+	B.
Karsh et al. 2011	Journal of Oral and Maxillofacial Surgery	Cohorts prospective	To evaluate the safety of dental extraction without altering the warfarin regimen in patients with INR= 1-4.	4-arm study: 100 patients treated with warfarin without interruption; 100 who underwent bridging therapy with low molecular weight heparin; 100 who bridged with unfractionated heparin; 100 healthy individuals.	The amount of bleeding was measured in milligrams, during 20 minutes after extraction. Mean bleeding was higher in the group of patients treated with warfarin and heparin, although this difference was not statistically significant (p= 0.79). The analysis of variance detected a significant relationship of the INR values with the amount of bleeding (p= 0.001).	With the help of local hemostasis, dental extraction in warfarin-treated patients with INR=1-4 can be performed without risk of significant bleeding, without altering the anticoagulation regimen.	2+	B.

* DOACs: direct oral anticoagulants.

PICO Table 2

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Buchbender et al. 2021	BMC Oral Health	Retrospective	To study the incidence of postoperative bleeding in 3 groups of patients: anticoagulated with vitamin K antagonists (VAK) who do not interrupt the medication before extraction (GK), with interruption of anticoagulant treatment and substitution by low molecular weight heparin (GH), and a healthy control group (GC).	A total of 475 patients were included. GK group= 170 patients, GH group= 135 patients, and GC group= 170 patients. For the GK and GH groups, the INR indices were determined, but it is not specified that this was an exclusion criterion.	22 of 170 patients in the control group (12.9%) had more than 1 postoperative bleeding event, followed by 44 of 170 in the GK group (25.9%), and 65 of 135 in the GH group (48.1%). These differences were significant between groups, and when comparing the control group with any of the other two (p< 0.001).	The use of heparin bridging therapy in anticoagulated patients increases the risk of bleeding compared with patients continuing VAK therapy.	2-	C.
Schmitt et al. 2020	Clinical Oral Investigations	Prospective	To compare the risk of bleeding in anticoagulated patients after simple or multiple dental extraction with 3 other groups: antiplatelet agents, with DOACs, or patients who substitute anticoagulant treatment with low molecular weight heparin.	A total of 838 patients were included in this study: 603 non-anticoagulated patients, and 235 anticoagulated patients (of which: 20 (34%) with VKA; 55 (64.7%) with antiplatelet agents; 2 (2.4%) with low molecular weight heparin, 8 (9.4%) with DOACs.	A total of 15 postoperative bleeding events were recorded: 4 of 603 in non-anticoagulated patients (0.7%) and 11 of 235 in anticoagulated patients. (4.7%), this difference being statistically significant (p< 0.001)	The study concludes that the risk of postoperative bleeding after dental extractions and osteotomies in anticoagulated patients is low and can be controlled with local hemostatic measures. However, given the small sample of patients treated with heparin (N=2), they do not make specific conclusions in patients with this condition.	2+	B.
Yu-Lu et al. 2018	Journal of Formosan Medical Association	Prospective	Prevalence of postoperative bleeding in 4 groups: warfarin with INR< 4 who did not interrupt the medication; warfarin who switched to heparin; patients on aspirin, clopidogrel, or dual antiplatelet therapy; healthy control group.	A total of 1,331 patients were included in this study: 60 with warfarin, 183 with antiplatelet drugs, and 1,088 in the control group.	The percentage of postoperative bleeding was higher in patients who continued with warfarin or who replaced it with heparin (9.1% vs 8.1%) compared to patients taking antiplatelet drugs (aspirin/ clopidogrel /dual) (1.1/ 3.1/4.2%), and with the control group (0.7%). However, these differences were not significant and were not related to INR.	The authors conclude that sufficient hemostasis can be achieved using local measures in anticoagulated patients. However, no mention is made of a specific bleeding risk in patients treated with heparin.	2+	C.
Karsh et al. 2011	Journal of Oral and Maxillofacial Surgery	Prospective Cohorts	To evaluate the safety of dental extraction without altering the warfarin regimen in patients with INR= 1-4.	4-arm study: 100 patients who continued warfarin without interruption; 100 who underwent bridging therapy with low molecular weight heparin; 100 who bridged with unfractionated heparin; 100 patients from the healthy control group.	The amount of bleeding was measured in milligrams, during 20 minutes after extraction. Mean bleeding was higher in the group of patients treated with warfarin and heparin, although this difference was not statistically significant (p= 0.79). The analysis of variance showed a significant relationship of the INR values with the amount of bleeding (p= 0.001).	The risk of bleeding in patients who were bridging heparin was similar to that in patients who did not stop warfarin. The authors conclude that, with the help of local hemostasis, dental extraction in warfarin-treated patients with INRs between 1-4 can be performed without risk of significant bleeding, without altering the coagulation regimen.	2+	B.

PICO Table 3

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Muller et al. 2019	Clinical Oral Investigations	Retrospective	To compare the characteristics, treatments, and success rates of post-extraction bleeding events in an emergency department in anticoagulated (with DOACs or with phenoprocoumon) and non-anticoagulated patients.	The cohort was selected from among 161,458 emergencies (of different kinds, not just dental) in a health service, selecting a total of 64 patients treated for post-extraction bleeding (12 patients with rivaroxaban; 4 with apixaban; 21 with fenprocoumon ; and 27 patients not anticoagulated).	Late bleeding events were more frequently observed in patients using DOACs (81.3%, n= 9), phenoprocoumon (86.4%, n=19) and in patients not receiving anticoagulation (30.8%, n= 8), the difference between groups being significant (p< 0.01)	Bleeding events occur more frequently in anticoagulated patients with DOACs or with phenoprocoumon compared with non-anticoagulated patients. In addition, the time spent in the emergency center, as well as the need for surgical treatments, were also more frequent to solve postoperative bleeding in anticoagulated patients.	2-	C.
Miller et al. 2018	Oral Diseases	Retrospective	To examine the effects of DOACs (apixaban, dabigatran, rivaroxaban, edoxaban) on postextraction bleeding.	Of a total of 11,320 withdrawals, 12 patients (2 with apixaban, 2 with dabigatran, 7 with rivaroxaban, 1 with edoxaban) were DOAC users (0.11%).	There were no post-extraction bleeding effects. However, the regimen applied in each DOAC consumer patient was also different and not random (some suspended treatment up to 5 days before the intervention).	No bleeding events were observed in patients using DOACs. Continuation or discontinuation of DOAC treatment did not influence bleeding outcome.	2-	C.
Miclotte et al. 2017	Clinical Oral Investigations	Prospective	Validate the management of DOACs (apixaban, rivaroxaban, dabigatran) in dental extractions	A total of 52 patients were included in this study, 26 treated with DOACs ; and 26 healthy controls. The management consisted of suspending the treatment dose, only the one on the morning of the procedure, and recovering the intake a minimum of 4 hours after the procedure and after having achieved hemostasis. In this study, bleeding rates were collected the day after extraction and at 7 days.	DOAC group and 0 in the healthy control group) (p= 0.01).	By interrupting the anticoagulant treatment the morning of the extraction, excess bleeding is avoided during and after the procedure. However, anticoagulated patients had a higher risk of late bleeding. More studies are needed to determine the optimal post-extraction management to control this type of event.	2+	B.
Yagyu et al. 2017	British Medical Journal Open	Retrospective	Analyze the risk of post-extraction bleeding in patients treated with DOACs (edoxaban and dabigatran) or oral anticoagulants.	A total of 543 patients (who underwent 1196 extractions) were included: 72 extractions in patients treated with DOAC (4 of them also treated with antiplatelet agents), 100 extractions in patients treated with vitamin K antagonists (15 also with antiplatelet agents.), and 1024 without anticoagulants (191 of whom were taking antiplatelet drugs)	The incidence of post-extraction bleeding (which could not be stopped by biting on gauze for 30 minutes, and up to 7 days after extraction) was 10.4% for patients with DOACs, 12% for patients treated with vitamin K antagonists. and 0.9% for patients without anticoagulation. The univariate and multivariate analysis reflected a risk of increased bleeding in patients treated with VAK (OR= 8.65, 95%CI: 40-18.6; p<0.001).	The risk of postoperative bleeding is similar in patients taking DOACs or warfarin, without significant differences with patients who were also being treated with antiplatelet drugs.	2+	C.
Hanken et al. 2016	Clinical Oral Investigations	Retrospective	Assess the risk of postoperative bleeding after dental extraction with anticoagulation (rivaroxaban), with or without additional antiplatelet therapy.	A total of 52 procedures in patients anticoagulated with rivaroxaban (of which 2 were also antiplatelet) were taken into account for the analysis, and compared with 285 procedures in patients neither anticoagulated nor antiplatelet.	Patients with DOACs presented greater postoperative bleeding (11.5%) compared to the healthy control group (0.7%), this difference being statistically significant (p<0.001).	Continued rivaroxaban therapy significantly increased the risk of postoperative bleeding, although such events were manageable. All bleeding episodes occurred within the first week after extraction.	2-	C.

PICO Table 4

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Bacci et al. 2011	Clinical Oral Implants Research	Prospective	To assess the incidence of bleeding complications after treatment with implants in anticoagulated patients.	- Test group: warfarin - Control group: without anticoagulant treatment Total: 109 patients	2 postoperative haemorrhages in the test group and 3 haemorrhages in the control group. No significant differences between groups (relative risk=1.45; p=0.65).	Implant placement surgery in anticoagulated patients can be carried out safely without stopping anticoagulation and applying local haemostatic measures.	2+	B.
Broekema et al. 2014	British Journal of Oral and Maxillofacial Surgery	Prospective	To evaluate the incidence of postoperative bleeding in anticoagulated patients who received implants compared to non-anticoagulated patients.	- Test group: treatment with VKA - Control group: without anticoagulant treatment Total: 15 patients	No postoperative bleeding occurred in either group.	Implant placement is safe in patients treated with anticoagulants.	2-	C.
Clemm et al. 2016	Clinical Oral Implants Research	Prospective	To analyze the risk of postoperative bleeding in patients who continue their anticoagulant treatment and undergo implant surgery and bone grafts.	- 272 patients: 145 patients with a single implant, 127 patients with multiple implants. - Group treated with VKA - Bridge group with heparin - Antiplatelet group - ACODs group - Non-anticoagulated group	Higher frequency of postoperative bleeding in patients with vitamin K antagonists compared to non-anticoagulated patients (p=0.038). These results take into account patients who have undergone regeneration or sinus lift techniques as well as those who have had implants placed.	The postoperative bleeding risk in patients who continue their anticoagulant treatment and undergo implant surgery is very low. Heparin bridging therapy is associated with an increased risk of bleeding in these patients and possibly an increased risk of thromboembolic complications.	2+	B.
Sannino et al. 2020	International Journal of Oral Implantology	Prospective	To estimate the prevalence of postoperative bleeding in rehabilitation using implants with the "all-on-four" technique in anticoagulated patients.	- Warfarin group - Direct anticoagulant group - Group without anticoagulant treatment Total: 120 patients	Warfarin-treated patients showed a higher prevalence of postoperative bleeding compared to the other groups (p=0.002).	Implant rehabilitation using the " all-on-four " technique is safe in anticoagulated patients who maintain their anticoagulant treatment.	2+	B.

PICO Table 5

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Clemm et al. 2016	Clinical Oral Implants Research	Prospective	To analyze the risk of postoperative bleeding in patients who continue their anticoagulant treatment and undergo implant surgery and bone grafts.	- 272 patients: 145 patients with a single implant, 127 patients with multiple implants. - Group treated with VKA - Bridge group with heparin - Antiplatelet group - ACODs group - Non-anticoagulated group	Higher frequency of postoperative bleeding in patients with vitamin K antagonists compared to non-anticoagulated patients (p=0.038). These results take into account patients who have undergone regeneration or sinus lift techniques as well as those who have had implants placed.	The postoperative bleeding risk in patients who continue their anticoagulant treatment and undergo implant surgery is very low. Heparin bridging therapy is associated with an increased risk of bleeding in these patients and possibly an increased risk of thromboembolic complications.	2+	B.

PICO Table 6

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Clemm et al. 2016	Clinical Oral Implants Research	Prospective Cohorts	To determine the risk of intra- and postoperative bleeding in patients receiving anticoagulants and treated with implants and bone augmentation procedures.	Patients under treatment with DOACs: 16. Controls: 447.	DOACs vs control: - severe intraoperative bleeding (requires haemostasis measures or revision of the wound): 28.6 vs 2.9%. - moderate intraoperative bleeding (clots in the operating area / additional haemostasis): 71.4% vs 97.1%. - postoperative bleeding: 0% vs 0.6%.	In implant procedures and bone regeneration, treatment with DOACs may slightly increase intraoperative bleeding but do not increase postoperative bleeding.	2-	D.

PICO Table 6 (II)

Author and year	Journal	Type of study	Objectives	Sample	Results	Conclusions	NE	GR
Gomez-Moreno et al 2016a	Clinical Oral Implants Research	Prospective Cohorts	To determine the risk of postoperative bleeding in patients receiving treatment with rivaroxaban	Patients under treatment with rivaroxaban: 18. Controls: 39.	The control group underwent sinus lifts; in the ACODs group, no. The Bacci et al. (2011). DOACs vs control: - without bleeding: 94.4% vs 94.9%. - light bleeding: 0% in both. - moderate bleeding: 5.6% vs 5.1% - severe bleeding: 0% in both.	In implant procedures, treatment with DOACs does not increase the risk of postoperative bleeding. The bias of including bone gain only in the control group could lead to an underestimation of the effect of rivaroxaban.	2-	D.
Gomez-Moreno et al 2016b	Clinical Oral Implants Research	Prospective cohorts	To determine the risk of postoperative bleeding in patients receiving treatment with dabigatran	Patients under treatment with dabigatran: 29. Controls: 42.	The control group underwent sinus lifts; in the ACO group, no. The Bacci et al. (2011): OAC vs control: - without bleeding: 93.1% vs 95.2%. - minor bleeding: 6.9% vs 4.8% - moderate and severe bleeding: 0% in both.	In implant procedures, treatment with DOACs does not increase the risk of postoperative bleeding. The bias of including bone gain only in the control group could lead to an underestimation of the effect of dabigatran.	2-	D.



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