

Supplementary Material

Electronic search strategy on each database.

MEDLINE

1. "Spinal Fusion"[Mesh] OR "Spinal fusion"[TIAB] OR "Spinal Fusions"[TIAB] OR "Spine fusion"[TIAB] OR "Spine Fusions"[TIAB] OR "Spondylosyntheses"[TIAB] OR "Spondylosyntheses"[TIAB] OR "Spondylosyndeses"[TIAB] OR "Spondylosyndeses"[TIAB] : 25877
2. "Lumbar Vertebrae"[Mesh] OR "Lumbar spine"[TIAB] OR "Lumbar"[TIAB] : 114356
3. "interbody fusion"[TIAB] OR "posterolateral fusion"[TIAB] OR "interbody fusions"[TIAB] OR "posterolateral fusions"[TIAB] OR fusion[TIAB] OR arthrodesis[TIAB] OR arthrodeses[TIAB] OR posterolateral[TIAB] OR fixation[TIAB] OR fusions[TIAB] : 334628
4. 2 AND 3 : 14803
5. 1 OR 4 : 31302
6. "Bone Demineralization Technique"[Mesh] OR "Bone Matrix"[Mesh] OR "Grafton demineralized bone matrix gel"[Supplementary Concept] OR "Bone Transplantation"[Mesh] OR "Bone Demineralization Technique"[TIAB] OR "Bone Demineralization Techniques"[TIAB] OR "Demineralization Bone Technique"[TIAB] OR "Demineralization Bone Techniques"[TIAB] OR "Bone Demineralization"[TIAB] OR "Bone Demineralization"[TIAB] OR "Bone Demineralization Technic"[TIAB] OR "Bone Demineralization Technics"[TIAB] OR "Demineralization Bone Technic"[TIAB] OR "Demineralization Bone Technics"[TIAB] OR "Bone Matrices"[TIAB] OR "Grafton DBM"[TIAB] OR "Bone Grafting"[TIAB] OR "demineralized bone matrix"[TIAB] OR "DBM"[TIAB] : 40450
7. 5 AND 6 : 2872
8. 7 NOT "review"[Publication Type] OR "review literature as topic"[Mesh Terms] : 2580
9. 8 NOT animals[Mesh Term] NOT (humans[Mesh Term] AND animals[Mesh Term]) : 2291

EMBASE

- #1. 'spine fusion'/exp OR 'Spinal fusion':ab,ti OR 'Spinal Fusions':ab,ti OR 'Spine fusion':ab,ti OR 'Spine Fusions':ab,ti OR 'Spondylosyntheses':ab,ti OR 'Spondylosyntheses':ab,ti OR 'Spondylosyndeses':ab,ti OR 'Spondylosyndeses':ab,ti : 29301

- #2. 'lumbar vertebra'/exp OR 'lumbar spine'/exp OR 'thoracolumbar spine'/exp OR 'lumbosacral spine'/exp OR 'Lumbar Vertebrae':ab,ti OR 'Lumbar spine':ab,ti OR 'Lumbar':ab,ti : 155221
- #3. 'interbody fusion':ab,ti OR 'posterolateral fusion':ab,ti OR 'interbody fusions':ab,ti OR 'posterolateral fusions':ab,ti OR 'fusion':ab,ti OR 'arthrodesis':ab,ti OR 'arthrodeses':ab,ti OR 'posterolateral':ab,ti OR 'fixation':ab,ti OR 'fusions':ab,ti : 38805
- #4. #2 AND #3 : 18703
- #5. #1 OR #4 : 37577
- #6. 'bone graft'/exp NOT ('bone allograft'/exp OR 'bone patellar tendon bone graft'/exp OR 'fibula graft'/exp OR 'orbit implant'/exp OR 'rib graft'/exp OR 'sinus floor augmentation'/exp OR 'synthetic bone graft'/exp) OR 'Bone Demineralization':ab,ti OR 'Bone Demineralization Technic':ab,ti OR 'Bone Demineralization Technics':ab,ti OR 'Demineralization Bone Technic':ab,ti OR 'Demineralization Bone Technics':ab,ti OR 'Bone Matrices':ab,ti OR 'Grafton DBM':ab,ti OR 'Bone Grafting':ab,ti OR 'demineralized bone matrix':ab,ti OR 'DBM':ab,ti : 32678
- #7. #5 AND #6 : 3465
- #8. #7 NOT ('animal cell'/de OR 'animal experiment'/de OR 'animal model'/de OR 'animal tissue'/de OR 'nonhuman/de) : 2854
- #9. #8 NOT ('conference review'/it OR 'review'/it) : 2572

COCHRANE

- #1. MeSH descriptor: [Spinal Fusion] explode all trees : 896
- #2. MeSH descriptor: [Lumbar Vertebrae] explode all trees : 2445
- #3. ("interbody fusion" OR "posterolateral fusion" OR "interbody fusions" OR "posterolateral fusions" OR fusion OR arthrodesis OR arthrodeses OR posterolateral OR fixation OR fusions):ti,ab,kw : 12842
- #4. #2 AND #3 : 536
- #5. #1 OR #4 : 1005
- #6. MeSH descriptor : [Bone Demineralization Technique] explode all trees : 11
- #7. MeSH descriptor : [Bone Matrix] explode all trees : 156
- #8. MeSH descriptor : [Bone Transplantation] explode all trees : 892
- #9. ("Grafton demineralized bone matrix gel" OR "demineralized bone matrix gel") : 2572

alized bone matrix” OR “DBM” OR “Grafton demineralized bone matrix gel”):ti,ab,kw : 117

#10. #6 OR #7 OR #8 OR #9 : 1070

#11. #5 AND #10 : 144

Web of Science (WOS)

1. TOPIC: (('Spinal fusion' OR 'Spine fusion' OR 'Spinal fusion' OR 'Spinal Fusions' OR 'Spine fusion' OR 'Spine Fusions' OR 'Spondylosynthesis' OR 'Spondylosyntheses' OR 'Spondylosynthese' OR 'Spondylosyntheses')) : 25098

2. TOPIC: (('Lumbar Vertebrae' OR 'lumbar vertebra' OR 'lumbar spine' OR 'thoracolumbar spine' OR 'lumbosacral spine' OR 'Lumbar')) : 89741

3. TOPIC: ('interbody fusion' OR 'posterolateral fusion' OR 'interbody fusions' OR 'posterolateral fusions' OR 'fusion' OR 'arthrodesis' OR 'arthrodeses' OR 'posterolateral' OR 'fixation' OR 'fusions') : 446223

4. 2 AND 3 : 15639

5. 1 OR 4 : 28959

6. TOPIC : ('Bone Demineralization Technique' OR 'Bone Matrix' OR 'Grafton demineralized bone matrix gel' OR 'Bone Transplantation' OR 'Bone Demineralization' OR 'Bone Demineralization Technic' OR 'Bone Demineralization Technics' OR 'Demineralization Bone Technic' OR 'Demineralization Bone Technics' OR 'Bone Matrices' OR 'Grafton DBM' OR 'Bone Grafting' OR 'demineralized bone matrix' OR 'DBM') : 177861

7. 5 AND 6 : 3680

8. 7 [excluding] DOCUMENT TYPES: (REVIEW) : 3379

SCOPUS

1. TITLE-ABS-KEY (“Spinal fusion” OR “spine fusion” OR “Spinal fusion” OR “Spinal Fusions” OR “Spine fusion” OR “Spine fusions” OR spondylosynthesis OR spondylosyntheses OR spondylosynthese OR spondylosyntheses) : 33653

2. TITLE-ABS-KEY (“Lumbar Vertebrae” OR “lumbar vertebra” OR “lumbar spine” OR “thoracolumbar spine” OR “lumbosacral spine” OR lumbar) : 156952

3. TITLE-ABS-KEY (“interbody fusion” OR “posterolateral fusion” OR “interbody fusions” OR “posterolateral fusions” OR fusion OR arthrodesis OR arthrodesis OR posterolateral OR fixation OR fusions) : 814919

4. 2 AND 3 : 21580

5. 1 OR 4 : 40786

6. TITLE-ABS-KEY (“Bone Demineralization Technique” OR “Bone Matrix” OR “Grafton demineralized bone matrix gel” OR “Bone Transplantation” OR “Bone Demineralization” OR “Bone Demineralization Technic” OR “Bone Demineralization Technics”) : 44946

7. TITLE-ABS-KEY (“Demineralization Bone Technic” OR “Demineralization Bone Technics” OR “Bone Matrices” OR “Grafton DBM” OR “Bone Grafting” OR “demineralized bone matrix” OR dbm) : 49764

8. 6 OR 7 : 74129

9. 5 AND 8 : 3343

10. 9 AND (EXCLUDE (DOCTYPE, “re”)) : 3053

11. 10 AND NOT INDEXTERMS (“animals”) : 2596