

業 績 目 録

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氏 名 高畑 雅彦

【学位論文】

Takahata M: Bone ingrowth fixation of artificial intervertebral disc consisting of bioceramic coated three dimensional fabric. Spine 28: 637-644, 2003.

高畑 雅彦：生体活性セラミックス処理三次元立体織物型人工椎間板と椎体の結合に関する実験的研究

【著書】

1. 高畑 雅彦，伊東 学：疾患別テクニック：骨粗鬆症 前方手術．野原 裕，鈴木 信正，中原 進之介編，新脊椎インストゥルメンテーション テクニカルポイントと合併症対策．MEDICAL VIEW，pp149-151，2014．
2. 高畑 雅彦：骨粗鬆症管理の要点．久保 俊一，西田 圭一郎，小田 良編，知っておくべき！整形外科医の関節リウマチ診療 ABC．文光堂，pp140-144，2016．
3. 高畑 雅彦：進行期関節リウマチ．頸椎．杉本 英治，神島 保編，関節リウマチの画像診断．メディカル・サイエンス・インターナショナル，pp159-170，2017．
4. 高畑 雅彦：環軸関節後方固定術．石井 賢編，整形外科医のための脊椎のアドバンスト手術．上級医になるために標準～発展の手術手技をプロから学ぶ．日本医事新報社，pp10-25，2022．

【原著】

欧文

1. Takahata M，Kotani Y，Abumi K，Shikinami Y，Kadosawa T，Kaneda K，Minami A: Bone ingrowth fixation of artificial intervertebral disc consisting of bioceramic-coated three-dimensional fabric. Spine 28 : 637-644, 2003.
2. Kotani Y，Abumi K，Shikinami Y，Takahata M，Kadoya K，Kadosawa T，Minami A，Kaneda K : Two-year observation of artificial intervertebral disc replacement: results after supplemental ultra-high strength bioresorbable spinal stabilization. J Neurosurg 100: 337-342, 2004.
3. Takahata M，Kotani Y，Abumi K，Ito M，Takada T，Minami A，Kaneda K : An investigational study on the healing process of anterior spinal arthrodesis using a bioactive ceramic spacer and the change in load-sharing of spinal instrumentation. Spine 30: E195-203, 2005.
4. Nakagawa H，Hato M，Takegawa Y，Deguchi K，Ito H，Takahata M，Iwasaki N，Minami A，Nishimura S : Detection of altered N-glycan profiles in whole serum from rheumatoid arthritis patients. J Chromatogr B Analyt Technol Biomed Life Sci 853: 133-137, 2007.

5. Takahata M, Iwasaki N, Nakagawa H, Abe Y, Watanabe T, Ito M, Majima T, Minami A : Sialylation of cell surface glycoconjugates is essential for osteoclastogenesis. *Bone* 41: 77-86, 2007
6. Kotani Y, Abumi K, Ito M, Takahata M, Sudo H, Ohshima S, Minami A : Accuracy analysis of pedicle screw placement in posterior scoliosis surgery: comparison between conventional fluoroscopic and computer-assisted technique. *Spine* 32: 1543-1550, 2007.
7. Abe Y, Takahata M, Ito M, Irie K, Abumi K, Minami A : Enhancement of graft bone healing by intermittent administration of human parathyroid hormone (1-34) in a rat spinal arthrodesis model. *Bone* 41: 775-785, 2007.
8. Motomiya M, Ito M, Takahata M, Kadoya K, Irie K, Abumi K, Minami A : Effect of Hydroxyapatite porous characteristics on healing outcomes in rabbit posterolateral spinal fusion model. *Eur Spine J* 16 : 2215-2224, 2007.
9. Takahata M, Ito M, Abumi K, Kotani Y, Sudo H, Ohshima S, Minami A : Comparison of novel ultra-high molecular weight polyethylene tape versus conventional metal wire for sublaminar segmental fixation in the treatment of adolescent idiopathic scoliosis. *J Spinal Disord Tech* 20: 449-455, 2007.
10. Takahata M, Ito M, Abumi K, Kotani Y, Sudo H, Minami A : Clinical results and complications of circumferential spinal cord decompression through a single posterior approach for thoracic myelopathy caused by ossification of posterior longitudinal ligament. *Spine* 33: 1199-1208, 2008.
11. Takahata M, Ito M, Abe Y, Abumi K, Minami A : The effect of anti-resorptive therapies on bone graft healing in an ovariectomized rat spinal arthrodesis model. *Bone* 43: 1057-1066, 2008.
12. Kotani Y, Abumi K, Ito M, Sudo H, Takahata M, Ohshima S, Hojo Y, Minami A : Minimum 2-year outcome of cervical laminoplasty with deep extensor muscle-preserving approach: impact on cervical spine function and quality of life. *Eur Spine J* 18: 663-671, 2009.
13. Irie T, Takahata M, Majima T, Abe Y, Komatsu M, Iwasaki N, Minami A : Effect of selective estrogen receptor modulator/raloxifene analogue on proliferation and collagen metabolism of tendon fibroblast. *Connect Tissue Res* 51: 179-187, 2010.
14. Sudo H, Ito M, Abumi K, Kotani Y, Takahata M, Hojo Y, Minami A. One-stage posterior instrumentation surgery for the treatment of osteoporotic vertebral collapse with neurological deficits. *Eur Spine J* 19: 907-915, 2010.
15. Ito M, Abumi K, Kotani Y, Takahata M, Sudo H, Hojo Y, Minami A : Simultaneous double-rod rotation technique in posterior instrumentation surgery for correction of adolescent idiopathic scoliosis. *J Neurosurg Spine* 12: 293-300, 2010.
16. Komatsu M, Takahata M, Sugawara M, Takekuma Y, Kato T, Ito M, Abe Y, Irie T, Iwasaki N, Minami A : Penetration of linezolid into rabbit intervertebral discs and surrounding tissues. *Eur Spine J* 19: 2149-2155, 2010.
17. Hojo Y, Ito M, Abumi K, Kotani Y, Sudo H, Takahata M, Minami A : A late neurological complication following posterior correction surgery of severe cervical kyphosis. *Eur Spine J* 20: 890-898, 2011.
18. Reynolds DG, Takahata M, Lerner AL, O'Keefe RJ, Schwarz EM, Awad HA : Teriparatide therapy

enhances devitalized femoral allograft osseointegration and biomechanics in a murine model. *Bone* 48: 562-570, 2011.

19. Yazici C, Takahata M, Reynolds DG, Xie C, Samulski RJ, Samulski J, Beecham EJ, Gertzman AA, Spilker M, Zhang X, O'Keefe RJ, Awad HA, Schwarz EM : Self-complementary AAV2.5-BMP2-coated femoral allografts mediated superior bone healing versus live autografts in mice with equivalent biomechanics to unfractured femur. *Mol Ther* 19: 1416-1425, 2011.
20. Chikuda H, Seichi A, Takeshita K, Matsunaga S, Watanabe M, Nakagawa Y, Oshima K, Sasao Y, Tokuhashi Y, Nakahara S, Endo K, Uchida K, Takahata M, Yokoyama T, Yamada K, Nohara Y, Imagama S, Hosoe H, Ohtsu H, Kawaguchi H, Toyama Y, Nakamura K : Acute cervical spinal cord injury complicated by preexisting ossification of the posterior longitudinal ligament: a multicenter study. *Spine* 36: 1453-1458, 2011.
21. Ding X, Takahata M, Akazawa T, Iwasaki N, Abe Y, Komatsu M, Murata M, Ito M, Abumi K, Minami A : Improved bioabsorbability of synthetic hydroxyapatite through partial dissolution-precipitation of its surface. *J Mater Sci Mater Med* 22: 1247-1255, 2011.
22. Matsumoto M, Toyama Y, Chikuda H, Takeshita K, Kato T, Shindo S, Abumi K, Takahata M, Nohara Y, Taneichi H, Tomita K, Kawahara N, Imagama S, Matsuyama Y, Yamazaki M, Okawa A : Outcomes of fusion surgery for ossification of the posterior longitudinal ligament of the thoracic spine: a multicenter retrospective survey: clinical article. *J Neurosurg Spine* 15: 380-385, 2011.
23. Zhao L, Huang J, Zhang H, Wang Y, Matesic LE, Takahata M, Awad H, Chen D, Xing L : Tumor necrosis factor inhibits mesenchymal stem cell differentiation into osteoblasts via the ubiquitin E3 ligase Wwp1. *Stem Cells* 29: 1601-1610, 2011.
24. Maher JR, Takahata M, Awad HA, Berger AJ : Raman spectroscopy detects deterioration in biomechanical properties of bone in a glucocorticoid-treated mouse model of rheumatoid arthritis. *J Biomed Opt* 16: 087012, 2011.
25. Dupont KM, Boerckel JD, Stevens HY, Diab T, Kolambkar YM, Takahata M, Schwarz EM, Goldberg RE : Synthetic scaffold coating with adeno-associated virus encoding BMP2 to promote endogenous bone repair. *Cell Tissue Res* 347: 575-588, 2012.
26. Takahata M, Schwarz EM, Chen T, O'Keefe RJ, Awad HA : Delayed short-course treatment with teriparatide (PTH(1-34)) improves femoral allograft healing by enhancing intramembranous bone formation at the graft-host junction. *J Bone Miner Res* 27: 26-37, 2012.
27. Chiu YH, Mensah KA, Schwarz EM, Ju Y, Takahata M, Feng C, McMahon LA, Hicks DG, Panepento B, Keng PC, Ritchlin CT : Regulation of human osteoclast development by dendritic cell-specific transmembrane protein (DC-STAMP). *J Bone Miner Res* 27: 79-92, 2012.
28. Kotani Y, Abumi K, Ito M, Sudo H, Takahata M, Nagahama K, Iwata A, Minami A. Impact of deep extensor muscle-preserving approach on clinical outcome of laminoplasty for cervical spondylotic myelopathy: comparative cohort study. *Eur Spine J* 21: 1536-1544, 2012.
29. Ding X, Abumi K, Ito M, Sudo H, Takahata M, Nagahama K, Iwata A : A retrospective study of congenital osseous anomalies at the craniocervical junction treated by occipitocervical plate-rod

systems. *Eur Spine J* 21: 1580-9, 2012.

30. Takahata M, Maher JR, Juneja SC, Inzana J, Xing L, Schwarz EM, Berger AJ, Awad HA : Mechanisms of bone fragility in a mouse model of glucocorticoid-treated rheumatoid arthritis: implications for insufficiency fracture risk. *Arthritis Rheum* 64: 3649-3659, 2012.
31. Sudo H, Ito M, Kaneda K, Shono Y, Takahata M, Abumi K : Long-term outcomes of anterior spinal fusion for treating thoracic adolescent idiopathic scoliosis curves: average 15-year follow-up analysis. *Spine* 38: 819-826, 2013.
32. Inzana JA, Maher JR, Takahata M, Schwarz EM, Berger AJ, Awad HA : Bone fragility beyond strength and mineral density: Raman spectroscopy predicts femoral fracture toughness in a murine model of rheumatoid arthritis. *J Biomech* 46: 723-730, 2013.
33. Kameda Y, Takahata M, Komatsu M, Mikuni S, Hatakeyama S, Shimizu T, Angata T, Kinjo M, Minami A, Iwasaki N : Siglec-15 regulates osteoclast differentiation by modulating RANKL-induced phosphatidylinositol 3-kinase/Akt and Erk pathways in association with signaling adaptor DAP12. *J Bone Miner Res* 28: 2463-2475, 2013.
34. Yamada K, Sudo H, Iwasaki K, Sasaki N, Higashi H, Kameda Y, Ito M, Takahata M, Abumi K, Minami A, Iwasaki N : Caspase 3 silencing inhibits biomechanical overload-induced intervertebral disk degeneration. *Am J Pathol* 184: 753-764, 2014.
35. Yukata K, Xie C, Li TF, Takahata M, Hoak D, Kondabolu S, Zhang X, Awad HA, Schwarz EM, Beck CA, Jonason JH, O'Keefe RJ : Aging periosteal progenitor cells have reduced regenerative responsiveness to bone injury and to the anabolic actions of PTH 1-34 treatment. *Bone* 62: 79-89, 2014.
36. Shimizu T, Takahata M, Kameda Y, Hamano H, Ito T, Kimura-Suda H, Todoh M, Tadano S, Iwasaki N : Vitamin K-dependent carboxylation of osteocalcin affects the efficacy of teriparatide (PTH(1-34)) for skeletal repair. *Bone* 64: 95-101, 2014.
37. Sudo H, Ito M, Abe Y, Abumi K, Takahata M, Nagahama K, Hiratsuka S, Kuroki K, Iwasaki N : Surgical treatment of Lenke 1 thoracic adolescent idiopathic scoliosis with maintenance of kyphosis using the simultaneous double-rod rotation technique. *Spine* 39: 1163-1169, 2014.
38. Nakajima M, Takahashi A, Tsuji T, Karasugi T, Baba H, Uchida K, Kawabata S, Okawa A, Shindo S, Takeuchi K, Taniguchi Y, Maeda S, Kashii M, Seichi A Nakajima H, Kawaguchi Y, Fujibayashi S, Takahata M, Tanaka T, Watanabe K, Kida K, Kanchiku T, Ito Z, Mori K, Kaito T, Kobayashi S, Yamada K, Takahashi M, Chiba K, Matsumoto M, Furukawa K, Kubo M, Toyama Y, Genetic Study Group of Investigation Committee on Ossification of the Spinal Ligaments, Ikegawa S : A genome-wide association study identifies susceptibility loci for ossification of the posterior longitudinal ligament of the spine. *Nat Genet* 46: 1012-1016, 2014.
39. Nakahara M, Ito M, Hattori N, Magota K, Takahata M, Nagahama K, Sudo H, Kamishima T, Tamaki N, Iwasaki N : 18F-FDG-PET/CT better localizes active spinal infection than MRI for successful minimally invasive surgery. *Acta Radiol* 56: 829-836, 2015.
40. Kameda Y, Takahata M, Mikuni S, Shimizu T, Hamano H, Angata T, Hatakeyama S, Kinjo M, Iwasaki

N : Siglec-15 is a potential therapeutic target for postmenopausal osteoporosis. *Bone* 71: 217-226, 2015.

41. Shimizu T, Takahata M, Kameda Y, Endo T, Hamano H, Hiratsuka S, Ota M, Iwasaki N : Sialic acid-binding immunoglobulin-like lectin 15 (Siglec-15) mediates periarticular bone loss, but not joint destruction, in murine antigen-induced arthritis. *Bone* 79: 65-70, 2015.
42. Nakamura Y, Kikugawa S, Seki S, Takahata M, Iwasaki N, Terai H, Matsubara M, Fujioka F, Inagaki H, Kobayashi T, Kimura T, Kurahashi H, Kato H : PCSK5 mutation in a patient with the VACTERL association. *BMC Res Notes* 8: 228, 2015.
43. Hamano H, Takahata M, Ota M, Hiratsuka S, Shimizu T, Kameda Y, Iwasaki N : Teriparatide improves trabecular osteoporosis but simultaneously promotes ankylosis of the spine in the Twy mouse model for diffuse idiopathic skeletal hyperostosis. *Calcif Tissue Int* 98: 140-148, 2016.
44. Endo K, Yamada S, Todoh M, Takahata M, Iwasaki N, Tadano S : Structural strength of cancellous specimens from bovine femur under cyclic compression. *PeerJ* 4: e1562, 2016.
45. Yamamoto T, Hasegawa T, Sasaki M, Hongo H, Tsuboi K, Shimizu T, Ota M, Haraguchi M, Takahata M, Oda K, Luiz de Freitas PH, Takakura A, Takao-Kawabata R, Isogai Y, Amizuka N : Frequency of teriparatide administration affects the histological pattern of bone formation in young adult male mice. *Endocrinology* 157: 2604-2620, 2016.
46. Tsuboi K, Hasegawa T, Yamamoto T, Sasaki M, Hongo H, de Freitas PH, Shimizu T, Takahata M, Oda K, Michigami T, Li M, Kitagawa Y, Amizuka N : Effects of drug discontinuation after short-term daily alendronate administration on osteoblasts and osteocytes in mice. *Histochem Cell Biol* 146: 337-50, 2016.
47. Takahata M, Abumi K, Sudo H, Nagahama K, Iwasaki N. Cervical myelopathy due to atraumatic odontoid fracture in patients with rheumatoid arthritis: A case series. *Mod Rheumatol* 27: 901-904, 2017.
48. Iwata A, Takahata M, Kadoya K, Sudo H, Kokabu T, Yamada K, Iwasaki N : Effective repair of dural tear using bioabsorbable sheet with fibrin glue. *Spine* 42: 1362-1366, 2017.
49. Beier EE, Sheu TJ, Resseguie EA, Takahata M, Awad HA, Cory-Slechta DA, Puzas JE : Sclerostin activity plays a key role in the negative effect of glucocorticoid signaling on osteoblast function in mice. *Bone Res* 5: 17013, 2017.
50. Kokabu T, Takahata M, Ishiguro N, Iwasaki N : Long-term prognosis of hematogenous vertebral osteomyelitis: Mortality, quality of life, and pain. *J Orthop Sci* 22: 822-827, 2017.
51. Hiratsuka S, Takahata M, Shimizu T, Hamano H, Ota M, Sato D, Iwasaki N : Drug therapy targeting pyrophosphate slows the ossification of spinal ligaments in twy mice. *J Orthop Res* 36: 1256-1261, 2018.
52. Terkawi MA, Hamasaki M, Takahashi D, Ota M, Kadoya K, Yutani T, Uetsuki K, Asano T, Irie T, Arai R, Onodera T, Takahata M, Iwasaki N : Transcriptional profile of human macrophages stimulated by ultra-high molecular weight polyethylene particulate debris of orthopedic implants uncovers a common gene expression signature of rheumatoid arthritis. *Acta Biomater* 65: 417-425, 2018.

53. Ishimoto T, Yamada K, Takahashi H, Takahata M, Ito M, Hanawa T, Nakano T : Trabecular health of vertebrae based on anisotropy in trabecular architecture and collagen/apatite micro-arrangement after implantation of intervertebral fusion cages in the sheep spine. *Bone* 108: 25-33, 2018.
54. Kimura-Suda H, Takahata M, Ito T, Shimizu T, Kanazawa K, Ota M, Iwasaki N. Quick and easy sample preparation without resin embedding for the bone quality assessment of fresh calcified bone using fourier transform infrared imaging. *PLoS One* 13: e0189650, 2018.
55. Takahata M, Yamada K, Akira I, Endo T, Sudo H, Yokoyama H, Iwasaki N. A novel technique of cervical pedicle screw placement with pilot screw under the guidance of intraoperative 3D imaging from C-arm cone-beam CT without navigation for safe and accurate insertion. *Eur Spine J* 27: 2754-2762, 2018.
56. Sato D, Takahata M, Ota M, Fukuda C, Tsuda E, Shimizu T, Okada A, Hiruma Y, Hamano H, Hiratsuka S, Fujita R, Amizuka N, Hasegawa T, Iwasaki N. Siglec-15-targeting therapy increases bone mass in rats without impairing skeletal growth. *Bone* 116: 172-180, 2018.
57. Ushiku C, Suda K, Matsumoto S, Komatsu M, Takahata M, Iwasaki N, Minami A. Time course of respiratory dysfunction and motor paralysis for 12 weeks in cervical spinal cord injury without bone injury. *Spine Surg Relat Res* 3: 37-42, 2018.
58. Tamai K, Terai H, Suzuki A, Nakamura H, Watanabe K, Katsumi K, Ohashi M, Shibuya Y, Izumi T, Hirano T, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Matsuoka Y, Suzuki H, Nishimura H, Tagami A, Yamada S, Adachi S, Yoshii T, Ushio S, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kimura A, Inoue H, Inoue G, Miyagi M, Saito W, Nakano A, Sakai D, Nukaga T, Ikegami S, Shimizu M, Futatsugi T, Ohtori S, Furuya T, Orita S, Imagama S, Ando K, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S, Hongo M, Kakutani K, Yurube T, Aoki Y, Oshima M, Takahata M, Iwata A, Endo H, Abe T, Tsukanishi T, Nakanishi K, Watanabe K, Hikata T, Suzuki S, Isogai N, Okada E, Funao H, Ueda S, Shiono Y, Nojiri K, Hosogane N, Ishii K. Risk factors for proximal junctional fracture following fusion surgery for osteoporotic vertebral collapse with delayed neurological deficits: a retrospective cohort study of 403 Patients. *Spine Surg Relat Res* 3: 171-177, 2018.
59. Nagahama K, Ito M, Abe Y, Murota E, Hiratsuka S, Takahata M. Early Clinical Results of Percutaneous Endoscopic Transforaminal Lumbar Interbody Fusion: A new modified technique for treating degenerative lumbar spondylolisthesis. *Spine Surg Relat Res* 3: 327-334, 2018.
60. Ota M, Takahata M, Shimizu T, Momma D, Hamano H, Hiratsuka S, Amizuka N, Hasegawa T, Iwasaki N. Optimal administration frequency and dose of teriparatide for acceleration of biomechanical healing of long-bone fracture in a mouse model. *J Bone Miner Metab* 37: 256-263, 2019.
61. Asano T, Shimizu T, Takahashi D, Ota M, Sato D, Hamano H, Hiratsuka S, Takahata M, Iwasaki N. Potential association with early changes in serum calcium level after starting or switching to denosumab combined with eldecalcitol. *J Bone Miner Metab* 37: 351-357, 2019.
62. Hiratsuka S, Takahata M, Hojo Y, Kajino T, Hisada Y, Iwata A, Yamada K, Iwasaki N. Increased risk of symptomatic progression of instability following decompression for lumbar canal stenosis in patients receiving chronic glucocorticoids therapy. *J Orthop Sci* 24: 14-18, 2019.

63. Yamada K, Suda K, Matsumoto Harmon S, Komatsu M, Ushiku C, Takahata M, Minami A, Iwasaki N. Rapidly progressive cervical myelopathy had a high risk of developing deep venous thrombosis: a prospective observational study in 289 cases with degenerative cervical spine disease. *Spinal Cord* 57: 58-64, 2019.
64. Iwata A, Abumi K, Takahata M, Sudo H, Yamada K, Endo T, Iwasaki N. Late subaxial lesion after overcorrected occipitocervical reconstruction in patients with rheumatoid arthritis. *Asian Spine J* 13: 181-188, 2019.
65. Kato T, Inose H, Ichimura S, Tokuhashi Y, Nakamura H, Hoshino M, Togawa D, Hirano T, Haro H, Ohba T, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Tateishi U, Tomita M, Takemasa R, Yuasa M, Hirai T, Yoshii T, Okawa A. Comparison of rigid and soft-brace treatments for acute osteoporotic vertebral compression fracture: a prospective, randomized, multicenter study. *J Clin Med* 8: 198, 2019.
66. Watanabe K, Katsumi K, Ohashi M, Shibuya Y, Izumi T, Hirano T, Endo N, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Matsuoka Y, Suzuki H, Nishimura H, Terai H, Tamai K, Tagami A, Yamada S, Adachi S, Yoshii T, Ushio S, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kimura A, Inoue H, Inoue G, Miyagi M, Saito W, Nakano A, Sakai D, Nukaga T, Ikegami S, Shimizu M, Futatsugi T, Ohtori S, Furuya T, Orita S, Imagama S, Ando K, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S, Hongo M, Kakutani K, Yurube T, Aoki Y, Oshima M, Takahata M, Iwata A, Endo H, Abe T, Tsukanishi T, Nakanishi K, Watanabe K, Hikata T, Suzuki S, Isogai N, Okada E, Funao H, Ueda S, Shiono Y, Nojiri K, Hosogane N, Ishii K. Surgical outcomes of spinal fusion for osteoporotic thoracolumbar vertebral fractures in patients with Parkinson's disease: what is the impact of Parkinson's disease on surgical outcome? *BMC Musculoskelet Disord* 20: 103, 2019.
67. Terkawi MA, Kadoya K, Takahashi D, Tian Y, Hamasaki M, Matsumae G, Alhasan H, Elmorsy S, Uetsuki K, Onodera T, Takahata M, Iwasaki N. Identification of IL-27 as potent regulator of inflammatory osteolysis associated with vitamin E-blended ultra-high molecular weight polyethylene debris of orthopedic implants. *Acta Biomater* 89: 242-251, 2019.
68. Tsuji O, Suda K, Takahata M, Matsumoto-Harmon S, Komatsu M, Menjo Y, Watanabe K, Ishii K, Nakamura M, Matsumoto M, Minami A, Iwasaki N. Early surgical intervention may facilitate recovery of cervical spinal cord injury in DISH. *J Orthop Surg* 27: 2309499019834783, 2019.
69. Endo K, Takahata M, Sugimori H, Yamada S, Tadano S, Wang J, Todoh M, Ito YM, Takahashi D, Kudo K, Iwasaki N. Magnetic resonance imaging T1 and T2 mapping provide complementary information on the bone mineral density regarding cancellous bone strength in the femoral head of postmenopausal women with osteoarthritis. *Clin Biomech* 65: 13-18, 2019.
70. Watanabe K, Katsumi K, Ohashi M, Shibuya Y, Hirano T, Endo N, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Matsuoka Y, Suzuki H, Nishimura H, Terai H, Tamai K, Tagami A, Yamada S, Adachi S, Yoshii T, Ushio S, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kimura A, Inoue H, Inoue G, Miyagi M, Saito W, Nakano A, Sakai D, Nukaga T, Ikegami S, Shimizu M, Futatsugi T, Ohtori S, Furuya T, Orita S, Imagama S, Ando K, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S,

Hongo M, Kakutani K, Yurube T, Aoki Y, Oshima M, Takahata M, Iwata A, Endo H, Abe T, Tsukanishi T, Nakanishi K, Watanabe K, Hikata T, Suzuki S, Isogai N, Okada E, Funao H, Ueda S, Shiono Y, Nojiri K, Hosogane N, Ishii K. Surgical outcomes of spinal fusion for osteoporotic vertebral fracture in the thoracolumbar spine: Comprehensive evaluations of 5 typical surgical fusion techniques. *J Orthop Sci* 24: 1020-1026, 2019.

71. Fujita R, Hamano H, Kameda Y, Arai R, Shimizu T, Ota M, Sato D, Kobayashi H, Iwasaki N, Takahata M. Breast cancer cells expressing cancer-associated sialyl-Tn antigen have less capacity to develop osteolytic lesions in a mouse model of skeletal colonization. *Clin Exp Metastasis* 36: 539-549, 2019.
72. Sakai Y, Kaito T, Takenaka S, Yamashita T, Makino T, Hosogane N, Nojiri K, Suzuki S, Okada E, Watanabe K, Funao H, Isogai N, Ueda S, Hikata T, Shiono Y, Watanabe K, Katsumi K, Fujiwara H, Nagamoto Y, Terai H, Tamai K, Matsuoka Y, Suzuki H, Nishimura H, Tagami A, Yamada S, Adachi S, Ohtori S, Orita S, Furuya T, Yoshii T, Ushio S, Inoue G, Miyagi M, Saito W, Imagama S, Ando K, Sakai D, Nukaga T, Kiyasu K, Kimura A, Inoue H, Nakano A, Harimaya K, Doi T, Kawaguchi K, Yokoyama N, Oishi H, Ikegami S, Futatsugi T, Shimizu M, Kakutani K, Yurube T, Oshima M, Uei H, Aoki Y, Takahata M, Iwata A, Seki S, Murakami H, Yoshioka K, Endo H, Hongo M, Nakanishi K, Abe T, Tsukanishi T, Ishii K. Complications after spinal fixation surgery for osteoporotic vertebral collapse with neurological deficits: Japan Association of Spine Surgeons with ambition multicenter study. *J Orthop Sci* 24: 985-990, 2019.
73. Fujita R, Takahata M, Kokabu T, Oda I, Kajino T, Hisada Y, Takeuchi H, Iwasaki N. Retrospective study to evaluate the clinical significance of a second rise in C-reactive protein level following instrumented spinal fusion surgery. *J Orthop Sci* 24: 963-968, 2019.
74. Hosogane N, Nojiri K, Suzuki S, Funao H, Okada E, Isogai N, Ueda S, Hikata T, Shiono Y, Watanabe K, Watanabe K, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Terai H, Tamai K, Matsuoka Y, Suzuki H, Nishimura H, Tagami A, Yamada S, Adachi S, Ohtori S, Orita S, Furuya T, Yoshii T, Ushio S, Inoue G, Miyagi M, Saito W, Imagama S, Ando K, Sakai D, Nukaga T, Kiyasu K, Kimura A, Inoue H, Nakano A, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Ikegami S, Shimizu M, Futatsugi T, Kakutani K, Yurube T, Oshima M, Uei H, Aoki Y, Takahata M, Iwata A, Seki S, Murakami H, Yoshioka K, Endo H, Hongo M, Nakanishi K, Abe T, Tsukanishi T, Ishii K. Surgical treatment of osteoporotic vertebral fracture with neurological deficit-a nationwide multicenter study in Japan. *Spine Surg Relat Res* 3: 361-367, 2019.
75. Watanabe T, Kanayama M, Takahata M, Oda I, Suda K, Abe Y, Okumura J, Hojo Y, Iwasaki N. Perioperative complications of spine surgery in patients 80 years of age or older: a multicenter prospective cohort study. *J Neurosurg Spine* 32: 622-630, 2019.
76. Yamamoto J, Nakazawa D, Nishio S, Ishikawa Y, Makita M, Kusunoki Y, Nagai S, Fujieda Y, Takahata M, Yamada K, Yamamura T, Yotsukura A, Saito M, Shimazaki M, Atsumi T. Impact of weekly teriparatide on the bone and mineral metabolism in hemodialysis patients with relatively low serum parathyroid hormone: a pilot study. *Ther Apher Dial* 24: 146-153, 2020.
77. Endo T, Takahata M, Koike Y, Iwasaki N. Clinical characteristics of patients with thoracic myelopathy

caused by ossification of the posterior longitudinal ligament. *J Bone Miner Metab* 38: 63-69, 2020.

78. Murata K, Matsuoka Y, Nishimura H, Endo K, Suzuki H, Takamatsu T, Sawaji Y, Aihara T, Kusakabe T, Maekawa A, Yamamoto K, Watanabe K, Kaito T, Terai H, Tamai K, Tagami A, Yoshii T, Harimaya K, Kawaguchi K, Kimura A, Inoue G, Nakano A, Sakai D, Hiyama A, Ikegami S, Ohtori S, Furuya T, Orita S, Imagama S, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S, Hongo M, Kakutani K, Yurube T, Aoki Y, Uei H, Ajiro Y, Takahata M, Endo H, Abe T, Nakanishi K, Watanabe K, Okada E, Hosogane N, Funao H, Isogai N, Ishii K. The factors related to the poor ADL in the patients with osteoporotic vertebral fracture after instrumentation surgery. *Eur Spine J* 29: 1597-1605, 2020.
79. Ando K, Imagama S, Kaito T, Takenaka S, Sakai K, Egawa S, Shindo S, Watanabe K, Fujita N, Matsumoto M, Nakashima H, Wada K, Kimura A, Takeshita K, Kato S, Murakami H, Takeuchi K, Takahata M, Koda M, Yamazaki M, Watanabe M, Fujibayashi S, Furuya T, Kawaguchi Y, Matsuyama Y, Yoshii T, Okawa A. Outcomes of surgery for thoracic myelopathy owing to thoracic ossification of the ligamentum flavum in a nationwide multicenter prospectively collected study in 223 patients: is instrumented fusion necessary? *Spine* 45: E170-E178, 2020.
80. Shimodan S, Sato D, Takahashi K, Nakamura Y, Hyakkan R, Watanabe T, Hishimura R, Ota M, Shimizu H, Hojo Y, Hasegawa Y, Chubachi T, Yasui K, Tsujimoto T, Tsukuda Y, Asano T, Takahashi D, Takahata M, Iwasaki N, Shimizu T. Ten years change in post-fracture care for hip fracture patients. *J Bone Miner Metab* 38: 222-229, 2020.
81. Inose H, Kato T, Ichimura S, Nakamura H, Hoshino M, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Yuasa M, Hirai T, Yoshii T, Okawa A. Risk factors of nonunion after acute osteoporotic vertebral fractures: a prospective multicenter cohort study. *Spine* 45: 895-902, 2020.
82. Iwata A, Kanayama M, Oha F, Shimamura Y, Hashimoto T, Takahata M, Iwasaki N. Is bone nonunion, vertebral deformity, or spinopelvic malalignment the best therapeutic target for amelioration of low back pain after osteoporotic vertebral fracture? *Spine* 45: E760-E767, 2020.
83. Fujieda Y, Doi M, Asaka T, Ota M, Hisada R, Ohnishi N, Kono M, Kameda H, Nakazawa D, Kato M, Amengual O, Takahata M, Yasuda S, Kitagawa Y, Atsumi T. Incidence and risk of antiresorptive agent-related osteonecrosis of the jaw (ARONJ) after tooth extraction in patients with autoimmune disease. *J Bone Miner Metab* 38: 581-588, 2020.
84. Sato D, Takahata M, Ota M, Fukuda C, Hasegawa T, Yamamoto T, Amizuka N, Tsuda E, Okada A, Hiruma Y, Fujita R, Iwasaki N. Siglec-15-targeting therapy protects against glucocorticoid-induced osteoporosis of growing skeleton in juvenile rats. *Bone* 135: 115331, 2020.
85. Kawabata A, Yoshii T, Hirai T, Ushio S, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Matsuoka Y, Suzuki H, Nishimura H, Terai H, Tamai K, Tagami A, Yamada S, Adachi S, Watanabe K, Katsumi K, Ohashi M, Shibuya Y, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kimura A, Inoue H, Inoue G, Miyagi M, Saito W, Nakano A, Sakai D, Nukaga T, Ikegami S, Shimizu M, Futatsugi T, Ohtori S, Furuya T, Orita S, Imagama S, Ando K, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S, Hongo M, Kakutani K, Yurube T, Aoki Y, Oshima M, Takahata M, Iwata A, Endo H, Abe T,

- Tsukanishi T, Nakanishi K, Watanabe K, Hikata T, Suzuki S, Isogai N, Okada E, Funao H, Ueda S, Shiono Y, Nojiri K, Hosogane N, Ishii K. Effect of bisphosphonates or teriparatide on mechanical complications after posterior instrumented fusion for osteoporotic vertebral fracture: a multi-center retrospective study. *BMC Musculoskelet Disord* 21: 420, 2020.
86. Fujita R, Ota M, Sato D, Nakazawa D, Kimura-Suda H, Nakamura F, Shimizu T, Kobayashi H, Iwasaki N, Takahata M. Comparison of the efficacy and renal safety of bisphosphonate between low-dose/high-frequency and high-dose/low-frequency regimens in a late-stage chronic kidney disease rat model. *Calcif Tissue Int* 107: 389-402, 2020.
87. Ishikawa Y, Watanabe K, Katsumi K, Ohashi M, Shibuya Y, Izumi T, Hirano T, Endo N, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Matsuoka Y, Suzuki H, Nishimura H, Terai H, Tamai K, Tagami A, Yamada S, Adachi S, Yoshii T, Ushio S, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kimura A, Inoue H, Inoue G, Miyagi M, Saito W, Nakano A, Sakai D, Nukaga T, Ikegami S, Shimizu M, Futatsugi T, Ohtori S, Furuya T, Orita S, Imagama S, Ando K, Kobayashi K, Kiyasu K, Murakami H, Yoshioka K, Seki S, Hongo M, Kakutani K, Yurube T, Aoki Y, Oshima M, Takahata M, Iwata A, Endo H, Abe T, Tsukanishi T, Nakanishi K, Watanabe K, Hikata T, Suzuki S, Isogai N, Okada E, Funao H, Ueda S, Shiono Y, Nojiri K, Hosogane N, Ishii K. Short- versus long-segment posterior spinal fusion with vertebroplasty for osteoporotic vertebral collapse with neurological impairment in thoracolumbar spine: a multicenter study. *BMC Musculoskelet Disord* 21: 513, 2020.
88. Isogai N, Hosogane N, Funao H, Nojiri K, Suzuki S, Okada E, Ueda S, Hikata T, Shiono Y, Watanabe K, Watanabe K, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Terai H, Tamai K, Matsuoka Y, Suzuki H, Nishimura H, Tagami A, Yamada S, Adachi S, Ohtori S, Orita S, Furuya T, Yoshii T, Ushio S, Inoue G, Miyagi M, Saito W, Imagama S, Ando K, Sakai D, Nukaga T, Kiyasu K, Kimura A, Inoue H, Nakano A, Harimaya K, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Ikegami S, Shimizu M, Futatsugi T, Kakutani K, Yurube T, Oshima M, Uei H, Aoki Y, Takahata M, Iwata A, Seki S, Murakami H, Yoshioka K, Endo H, Hongo M, Nakanishi K, Abe T, Tsukanishi T, Ishii K. The surgical outcomes of spinal fusion for osteoporotic vertebral fractures in the lower lumbar spine with a neurological deficit. *Spine Surg Relat Res* 4: 199-207, 2020.
89. Inose H, Kato T, Ichimura S, Nakamura H, Hoshino M, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Yuasa M, Hirai T, Yoshii T, Okawa A. Predictors of residual low back pain after acute osteoporotic compression fracture. *J Orthop Sci* 26: 453-458, 2021.
90. Konomi T, Suda K, Ozaki M, Harmon SM, Komatsu M, Iimoto S, Tsuji O, Minami A, Takahata M, Iwasaki N, Matsumoto M, Nakamura M. Predictive factors for irreversible motor paralysis following cervical spinal cord injury. *Spinal Cord* 59: 554-562, 2021.
91. Fujieda Y, Horita T, Nishimoto N, Tanimura K, Amasaki Y, Kasahara H, Furukawa S, Takeda T, Fukaya S, Matsui K, Tsutsumi A, Furusaki A, Sagawa A, Katayama K, Takeuchi K, Katsumata K, Kurita T, Shane P, Kato M, Oku K, Yasuda S, Takahata M, Iwasaki N, Atsumi T. Efficacy and safety of sodium RISedronate for glucocorticoid-induced Osteoporosis with rheumatoid arthritis (RISOTTO study): A

- multicentre, double-blind, randomized, placebo-controlled trial. *Mod Rheumatol* 31: 593-599, 2021.
92. Inose H, Kato T, Nakamura H, Hoshino M, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Takahashi K, Yuasa M, Hirai T, Yoshii T, Okawa A. Predictors for quality of life improvement after acute osteoporotic vertebral fracture: results of post hoc analysis of a prospective randomized study. *Qual Life Res* 30: 129-135, 2021.
 93. Tsujimoto T, Endo T, Menjo Y, Kanayama M, Oda I, Suda K, Fujita R, Koike Y, Hisada Y, Iwasaki N, Takahata M. Exceptional conditions for favorable neurological recovery after laminoplasty in cases with cervical myelopathy caused by K-line (-) ossification of posterior longitudinal ligament. *Spine* 46: 990-998, 2021.
 94. Inose H, Kato T, Ichimura S, Nakamura H, Hoshino M, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Takahashi K, Yuasa M, Hirai T, Yoshii T, Okawa A. Risk factors for subsequent vertebral fracture after acute osteoporotic vertebral fractures. *Eur Spine J* 30: 2698-2707, 2021.
 95. Ohnishi T, Suda K, Komatsu M, Harmon SM, Watanabe T, Asukai M, Kadoya K, Takahata M, Iwasaki N, Minami A. Morphologic Changes in the Vertebral artery subsequent to cervical spine degeneration and aging: analyses by computed tomography angiography using multiplanar and 3-dimensional reconstructions. *World Neurosurg* 150: e686-e695, 2021.
 96. Nakamura Y, Shimizu T, Asano T, Shimodan S, Ishizu H, Takahashi D, Takahata M, Iwasaki N. Short-term efficacy and safety of zoledronate acid or denosumab in Japanese patients with postmenopausal osteoporosis. *J Bone Miner Metab* 39: 824-832, 2021.
 97. Shimizu T, Arita K, Murota E, Hiratsuka S, Fujita R, Ishizu H, Asano T, Takahashi D, Takahata M, Iwasaki N. Effects after starting or switching from bisphosphonate to romosozumab or denosumab in Japanese postmenopausal patients. *J Bone Miner Metab* 39: 868-875, 2021.
 98. Hyakkan R, Kanayama M, Takahata M, Oha F, Hashimoto T, Iwasaki N. Bone metabolism in the healing process of lumbar interbody fusion: temporal changes of bone turnover markers. *Spine* 46: 1645-1652, 2021.
 99. Ishii C, Komatsu M, Suda K, Takahata M, Harmon SM, Ota M, Watanabe T, Asukai M, Iwasaki N, Minami A. Delayed lumbar plexus palsy due to giant psoas hematoma associated with vertebral compression fracture and direct oral anticoagulants: a case report. *BMC Musculoskelet Disord* 22: 377, 2021.
 100. Nagoshi N, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Fujii K, Kimura A, Furuya T, Kanchiku T, Nagamoto Y, Oshima Y, Nakashima H, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Watanabe K, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Yamazaki M, Okawa A. Comparison of surgical outcomes after open- and double-door laminoplasties for patients with cervical ossification of the posterior longitudinal ligament: a prospective multicenter study. *Spine* 46: E1238-E1245, 2021.
 101. Maki S, Furuya T, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K,

- Fujii K, Kimura A, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Ohtori S, Yamazaki M, Okawa A. Machine learning approach in predicting clinically significant improvements after surgery in patients with cervical ossification of the posterior longitudinal ligament. *Spine* 46: 1683-1689, 2021.
102. Ozaki M, Suda K, Konomi T, Harmon SM, Komatsu M, Minami A, Matsumoto M, Nakamura M, Takahata M, Iwasaki N. Serum C-reactive protein is an early, simple and inexpensive prognostic marker for the progression of intramedullary lesion on magnetic resonance imaging from acute to subacute stage in patients with spinal cord injury. *Spinal Cord* 59: 1155-1161, 2021.
103. Koda M, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Kimura A, Furuya T, Maki S, Nagoshi N, Watanabe K, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Takahashi H, Fujii K, Miyagi M, Inoue G, Takaso M, Imagama S, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Okawa A, Yamazaki M. Neurological improvement is associated with neck pain attenuation after surgery for cervical ossification of the posterior longitudinal ligament. *Sci Rep* 11: 11910, 2021.
104. Sudo H, Tachi H, Kokabu T, Yamada K, Iwata A, Endo T, Takahata M, Abe Y, Iwasaki N. In vivo deformation of anatomically pre-bent rods in thoracic adolescent idiopathic scoliosis. *Sci Rep* 11: 12622, 2021.
105. Yamada K, Nagahama K, Abe Y, Hyugaji Y, Takahata M, Iwasaki N. Morphological analysis of Kambin's triangle using 3D CT/MRI fusion imaging of lumbar nerve root created automatically with artificial intelligence. *Eur Spine J* 30: 2191-2199, 2021.
106. Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Fujii K, Kimura A, Furuya T, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A. Perioperative complications in posterior surgeries for cervical ossification of the posterior longitudinal ligament: a prospective nationwide investigation. *Clin Spine Surg* 34: E594-E600, 2021.
107. Kimura A, Takeshita K, Yoshii T, Egawa S, Hirai T, Sakai K, Kusano K, Nakagawa Y, Wada K, Katsumi K, Fujii K, Furuya T, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Nakashima H, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Watanabe K, Imagama S, Koda M, Kawaguchi Y, Nakamura M, Matsumoto M, Yamazaki M, Okawa A. Impact of diabetes mellitus on cervical spine surgery for ossification of the posterior longitudinal ligament. *J Clin Med* 10: 3375, 2021.
108. Yokota S, Matsumae G, Shimizu T, Hasegawa T, Ebata T, Takahashi D, Heguo C, Tian Y, Alhasan H, Takahata M, Kadoya K, Terkawi MA, Iwasaki N. Cardiotrophin Like Cytokine Factor 1 (CLCF1) alleviates bone loss in osteoporosis mouse models by suppressing osteoclast differentiation through

activating interferon signaling and repressing the nuclear factor- κ B signaling pathway. *Bone* 153: 116140, 2021.

109. Hashimoto K, Hasegawa T, Yamamoto T, Hongo H, Imin Y, Abe M, Nasoori A, Nakanishi K, Maruoka H, Morimoto Y, Kubota K, Shimizu T, Haraguchi M, Takahata M, Iwasaki N, Li M, Fujisawa T, Amizuka N. Histological observation on the initial stage of vascular invasion into the secondary ossification of murine femoral epiphyseal cartilage. *Biomed Res* 42: 139-151, 2021.
110. Endo T, Koike Y, Miyoshi H, Hisada Y, Fujita R, Suzuki R, Tanaka M, Tsujimoto T, Shimamura Y, Hasegawa Y, Kanayama M, Hashimoto T, Oha F, Noro N, Komano K, Ishii M, Ito YM, Iwasaki N, Takahata M. Close association between non-alcoholic fatty liver disease and ossification of the posterior longitudinal ligament of the spine. *Sci Rep* 11: 17412, 2021.
111. Suzuki R, Koike Y, Ota M, Endo T, Hisada Y, Tsujimoto T, Kanayama M, Ito YM, Sudo H, Iwata A, Yamada K, Iwasaki N, Takahata M. Thrombocytopenia associated with unrecognized non-alcoholic fatty liver disease is an independent predictor of perioperative significant blood loss in cervical laminoplasty. *World Neurosurg* 155: e797-e804, 2021.
112. Yamamoto T, Hasegawa T, Fraitas PHL, Hongo H, Zhao S, Yamamoto T, Nasoori A, Abe M, Maruoka H, Kubota K, Morimoto Y, Haraguchi M, Shimizu T, Takahata M, Iwasaki N, Li M, Amizuka N. Histochemical characteristics on minimodeling-based bone formation induced by anabolic drugs for osteoporotic treatment. *Biomed Res* 42: 161-171, 2021.
113. Endo T, Koike Y, Hisada Y, Fujita R, Suzuki R, Tanaka M, Tsujimoto T, Shimamura Y, Hasegawa Y, Kanayama M, Yamada K, Iwata A, Sudo H, Ishii M, Iwasaki N, Takahata M. Aggravation of ossified ligamentum flavum lesion is associated with the degree of obesity. *Global Spine J* 13 : 1325-1331, 2021.
114. Egawa S, Yoshii T, Sakai K, Kusano K, Nakagawa Y, Hirai T, Kimura A, Furuya T, Kanchiku T, Nagamoto Y, Takahata M, Mori K, Katoh H, Nagoshi N, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A. Prospective investigation of postoperative complications in anterior decompression with fusion for severe cervical ossification of the posterior longitudinal ligament: a multi-institutional study. *Spine* 46: 1621-1629, 2021.
115. Koda M, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Kimura A, Furuya T, Maki S, Nagoshi N, Watanabe K, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Takahashi H, Fujii K, Miyagi M, Inoue G, Takaso M, Imagama S, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Okawa A, Yamazaki M. Factors significantly associated with postoperative neck pain deterioration after surgery for cervical ossification of the posterior longitudinal ligament: study of a cohort using a prospective registry. *J Clin Med* 10: 5026, 2021.
116. Yamada K, Nagahama K, Abe Y, Murota E, Hiratsuka S, Takahata M, Iwasaki N. Unintentional fusion in preserved facet joints without bone grafting after percutaneous endoscopic transforaminal lumbar interbody fusion. *Spine Surg Relat Res* 5: 390-396, 2021.

117. Yamada K, Takahata M, Ito M, Nagahama K, Iwata A, Endo T, Sudo H, Ishiguro N, Iwasaki N. Risk factors of multidrug-resistant pyogenic spondylitis in thoraco-lumbar spine: A retrospective study of 122 cases. *J Orthop Sci* 27: 95-100, 2022.
118. Endo T, Imagama S, Kato S, Kaito T, Sakai H, Ikegawa S, Kawaguchi Y, Kanayama M, Hisada Y, Koike Y, Ando K, Kobayashi K, Oda I, Okada K, Takagi R, Iwasaki N, Takahata M. Association between vitamin a intake and disease severity in early-onset heterotopic ossification of the posterior longitudinal ligament of the spine. *Global Spine J* 12: 1770-1780, 2022.
119. Hirai T, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Wada K, Katsumi K, Fujii K, Kimura A, Furuya T, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A. Severity of myelopathy is closely associated with advanced age and signal intensity change in cervical ossification of the posterior longitudinal ligament: a prospective nationwide investigation. *Clin Spine Surg* 35: E155-E161, 2022.
120. Kobayashi H, Fujita R, Hiratsuka S, Shimizu T, Sato D, Hamano H, Iwasaki N, Takahata M. Differential effects of anti-RANKL monoclonal antibody and zoledronic acid on necrotic bone in a murine model of *Staphylococcus aureus*-induced osteomyelitis. *J Orthop Res* 40: 614-623, 2022.
121. Shirado O, Arai Y, Iguchi T, Imagama S, Kawakami M, Nikaido T, Ogata T, Orita S, Sakai D, Sato K, Takahata M, Takeshita K, Tsuji T; Structured abstract preparation team. Formulation of Japanese Orthopaedic Association (JOA) clinical practice guideline for the management of low back pain- the revised 2019 edition. *J Orthop Sci* 27: 3-30, 2022.
122. Takahata M, Hyakkan R, Oshima S, Oda I, Kanayama M, Hyakumachi T, Fujita R, Endo T, Kajino T, Iwasaki N. Cervical myelopathy caused by non-rheumatic retro-odontoid pseudotumor: an investigation of underlying mechanisms and optimal surgical strategy. *Global Spine J* 13: 2053-2062, 2022.
123. Nakashima H, Imagama S, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Fujii K, Kimura A, Furuya T, Kanchiku T, Nagamoto Y, Oshima Y, Nagoshi N, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Li Y, Yatsuya H, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A; Japanese Multicenter Research Organization for Ossification of the Spinal Ligament. Comparison of laminoplasty and posterior fusion surgery for cervical ossification of posterior longitudinal ligament. *Sci Rep* 12: 748, 2022.
124. Endo T, Takahata M, Koike Y, Fujita R, Suzuki R, Hisada Y, Hasegawa Y, Suzuki H, Yamada K, Iwata A, Sudo H, Yoneoka D, Iwasaki N. Association between obesity and ossification of spinal ligaments in 622 asymptomatic subjects: a cross-sectional study. *J Bone Miner Metab* 40: 337-347, 2022.
125. Inoue T, Maki S, Yoshii T, Furuya T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Fujii K, Kimura A, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T,

- Inami S, Fujibayashi S, Katoh H, Kanno H, Imagama S, Koda M, Kawaguchi Y, Takeshita K, Matsumoto M, Ohtori S, Yamazaki M, Okawa A; Japanese Multicenter Research Organization for Ossification of the Spinal Ligament. Is anterior decompression and fusion more beneficial than laminoplasty for K-line (+) cervical ossification of the posterior longitudinal ligament? An analysis using propensity score matching. *J Neurosurg Spine* 37: 13-20, 2022.
126. Hisada Y, Endo T, Koike Y, Kanayama M, Suzuki R, Fujita R, Yamada K, Iwata A, Hasebe H, Sudo H, Iwasaki N, Takahata M. Distinct progression pattern of ossification of the posterior longitudinal ligament of the thoracic spine versus the cervical spine: a longitudinal whole-spine CT study. *J Neurosurg Spine* 37: 175-182, 2022.
127. Inose H, Kato T, Ichimura S, Nakamura H, Hoshino M, Takahashi S, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Hirai T, Yoshii T, Okawa A. Factors contributing to residual low back pain after osteoporotic vertebral fractures. *J Clin Med* 11: 1566, 2022.
128. Takahata M, Shimizu T, Yamada S, Yamamoto T, Hasegawa T, Fujita R, Kobayashi H, Endo T, Koike Y, Amizuka N, Todoh M, Okumura JI, Kajino T, Iwasaki N. Bone biopsy findings in patients receiving long-term bisphosphonate therapy for glucocorticoid-induced osteoporosis. *J Bone Miner Metab* 40: 613-622, 2022.
129. Tsujimoto T, Suda K, Komatsu M, Harmon SM, Asukai M, Takahata M, Iwasaki N, Minami A. Clinical and radiological outcomes of posterior cervical decompression and fusion for severe cervical compressive-extension injury: A case series. *J Orthop Sci* 28: 733-739 2022.
130. Mori K, Yoshii T, Egawa S, Sakai K, Kusano K, Tsutsui S, Hirai T, Matsukura Y, Wada K, Katsumi K, Koda M, Kimura A, Furuya T, Maki S, Nagoshi N, Nishida N, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Taneichi H, Imagama S, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A. Impact of obesity on cervical ossification of the posterior longitudinal ligament: a nationwide prospective study. *Sci Rep* 12: 8884, 2022.
131. Ishimoto T, Kobayashi Y, Takahata M, Ito M, Matsugaki A, Takahashi H, Watanabe R, Inoue T, Matsuzaka T, Ozasa R, Hanawa T, Yokota K, Nakashima Y, Nakano T. Outstanding in vivo mechanical integrity of additively manufactured spinal cages with a novel "honeycomb tree structure" design via guiding bone matrix orientation. *Spine J* 22: 1742-1757, 2022.
132. Fujita R, Endo T, Takahata M, Haraya K, Suzuki H, Oda I, Kanayama M, Asano T, Shigenobu K, Iwata A, Yamada K, Takeuchi H, Ohura H, Yoneoka D, Iwasaki N. Real-world persistence of twice-weekly teriparatide and factors associated with the discontinuation in patients with osteoporosis. *J Bone Miner Metab* 40: 782-789, 2022.
133. Asukai M, Ushirozako H, Suda K, Matsumoto Harmon S, Komatsu M, Minami A, Takahata M, Iwasaki N, Matsuyama Y. Safety of early posterior fusion surgery without endovascular embolization for asymptomatic vertebral artery occlusion associated with cervical spine trauma. *Eur Spine J* 31: 3392-3401, 2022.

134. Nagoshi N, Yoshii T, Egawa S, Sakai K, Kusano K, Tsutsui S, Hirai T, Matsukura Y, Wada K, Katsumi K, Koda M, Kimura A, Furuya T, Maki S, Nishida N, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Watanabe K, Taneichi H, Imagama S, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Yamazaki M, Okawa A. Clinical indicators of surgical outcomes after laminoplasty for patients with cervical ossification of the posterior longitudinal ligament: a prospective multicenter study. *Spine* 47: 1077-1083, 2022.
135. Vaccaro AR, Lambrechts MJ, Karamian BA, Canseco JA, Oner C, Vialle E, Rajasekaran S, Dvorak MR, Benneker LM, Kandziora F, El-Sharkawi M, Tee JW, Bransford R, Joaquim AF, Muijs SPJ, Holas M, Takahata M, Hamouda WO, Kanna RM, Schnake K, Kepler CK, Schroeder GD. AO Spine upper cervical injury classification system: a description and reliability study. *Spine J* 22: 2042-2049, 2022.
136. Moritani Y, Hasegawa T, Yamamoto T, Hongo H, Yimin, Abe M, Yoshino H, Nakanishi K, Maruoka H, Ishizu H, Shimizu T, Takahata M, Iwasaki N, Li M, Tei K, Ohiro Y, Amizuka N. Histochemical assessment of accelerated bone remodeling and reduced mineralization in Il-6 deficient mice. *J Oral Biosci* 64: 410-421, 2022.
137. Takahata M, Endo T, Koike Y, Abumi K, Suda K, Fujita R, Murakami T, Sudo H, Yamada K, Ohnishi T, Ura K, Ukeba D, Iwasaki N. Long-term clinical course of patients after decompression and posterior instrumented fusion surgery for thoracic ossification of the posterior longitudinal ligament: an average follow-up of 18 years. *Global Spine J* 21925682221135548, 2022.
138. Yoshii T, Morishita S, Egawa S, Sakai K, Kusano K, Tsutsui S, Hirai T, Matsukura Y, Wada K, Katsumi K, Koda M, Kimura A, Furuya T, Maki S, Nagoshi N, Nishida N, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Taneichi H, Imagama S, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A. Prospective investigation of surgical outcomes after anterior decompression with fusion and laminoplasty for the cervical ossification of the posterior longitudinal ligament: a propensity score matching analysis. *J Clin Med* 11: 7012, 2022.
139. Tsujimoto T, Kanayama M, Suda K, Oha F, Komatsu M, Shimamura Y, Tanaka M, Ukeba D, Hasegawa Y, Hashimoto T, Takahata M, Iwasaki N. Perioperative complications of open spine surgery in older adults over 90 years of age. *Spine Surg Relat Res* 6: 664-670, 2022.
140. Endo T, Takahata M, Fujita R, Koike Y, Suzuki R, Hasegawa Y, Murakami T, Ishii M, Yamada K, Sudo H, Iwasaki N. Strong relationship between dyslipidemia and the ectopic ossification of the spinal ligaments. *Sci Rep* 12: 22617, 2022.
141. Inoue G, Miyagi M, Saito W, Shirasawa E, Uchida K, Hosogane N, Watanabe K, Katsumi K, Kaito T, Yamashita T, Fujiwara H, Nagamoto Y, Nojiri K, Suzuki S, Okada E, Ueda S, Hikata T, Shiono Y, Watanabe K, Terai H, Tamai K, Matsuoka Y, Suzuki H, Nishimura H, Tagami A, Yamada S, Adachi S, Ohtori S, Furuya T, Orita S, Inage K, Yoshii T, Ushio S, Funao H, Isogai N, Harimaya K, Okada S, Kawaguchi K, Yokoyama N, Oishi H, Doi T, Kiyasu K, Imagama S, Ando K, Kobayashi K, Sakai D, Tanaka M, Kimura A, Inoue H, Nakano A, Ikegami S, Shimizu M, Futatsugi T, Kakutani K, Yurube T,

- Nakanishi K, Oshima M, Uei H, Aoki Y, Takahata M, Iwata A, Endo H, Seki S, Murakami H, Kato S, Yoshioka K, Hongo M, Abe T, Tsukanishi T, Takaso M, Ishii K. Effect of low body mass index on clinical recovery after fusion surgery for osteoporotic vertebral fracture: A retrospective, multicenter study of 237 cases. *Medicine* 101: e32330, 2022.
142. Tsuji O, Suda K, Michikawa T, Takahata M, Ozaki M, Konomi T, Harmon-Matsumoto S, Komatsu M, Ushiku C, Menjo Y, Iimoto S, Watanabe K, Nakamura M, Matsumoto M, Minami A, Iwasaki N. Risk factors of AIS C incomplete cervical spinal cord injury for poor prognosis-The significance of anorectal evaluation. *J Orthop Sci* 28: 1227-1233, 2023.
143. Inose H, Kato T, Ichimura S, Nakamura H, Hoshino M, Takahashi S, Togawa D, Hirano T, Tokuhashi Y, Ohba T, Haro H, Tsuji T, Sato K, Sasao Y, Takahata M, Otani K, Momoshima S, Hirai T, Yoshii T, Takahashi K, Okawa A. Factors affecting the quality of life in the chronic phase of thoracolumbar osteoporotic vertebral fracture managed conservatively with a brace. *Spine J* 23: 425-432, 2023.
144. Yamada K, Takahata M, Nagahama K, Iwata A, Endo T, Fujita R, Hasebe H, Ohnishi T, Sudo H, Ito M, Iwasaki N. Posterolateral full-endoscopic debridement and irrigation is effective in treating thoraco-lumbar pyogenic spondylodiscitis, except in cases with large abscess cavities. *Eur Spine J* 32: 859-866, 2023.
145. Kawakami M, Takeshita K, Inoue G, Sekiguchi M, Fujiwara Y, Hoshino M, Kaito T, Kawaguchi Y, Minetama M, Orita S, Takahata M, Tsuchiya K, Tsuji T, Yamada H, Watanabe K; Structured abstract preparation team. Japanese Orthopaedic Association (JOA) clinical practice guidelines on the management of lumbar spinal stenosis, 2021 - Secondary publication. *J Orthop Sci* 28: 46-91, 2023.
146. Shimizu T, Suda K, Maki S, Koda M, Matsumoto Harmon S, Komatsu M, Ota M, Ushirozako H, Minami A, Takahata M, Iwasaki N, Takahashi H, Yamazaki M. Efficacy of a machine learning-based approach in predicting neurological prognosis of cervical spinal cord injury patients following urgent surgery within 24 h after injury. *J Clin Neurosci* 107: 150-156, 2023.
147. Nakabachi K, Endo T, Takahata M, Fujita R, Koike Y, Suzuki R, Hasegawa Y, Murakami T, Yamada K, Sudo H, Terkawi MA, Kadoya K, Iwasaki N. Lumbar ossification of the ligamentum flavum reflects a strong ossification tendency of the entire spinal ligament. *Sci Rep* 13: 638, 2023.
148. Tsujimoto T, Kanayama M, Oha F, Shimamura Y, Tanaka M, Hasegawa Y, Fukada S, Hashimoto T, Takahata M, Iwasaki N. Characteristics of the patients with poor clinical outcomes after symptomatic postoperative lumbar epidural hematoma. *World Neurosurg* 172: e364-e371, 2023.
149. Miyagi M, Inoue G, Yoshii T, Egawa S, Sakai K, Kusano K, Nakagawa Y, Hirai T, Wada K, Katsumi K, Kimura A, Furuya T, Nagoshi N, Kanchiku T, Nagamoto Y, Oshima Y, Nakashima H, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Matsunaga S, Kaito T, Yamada K, Kobayashi S, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Koda M, Takahashi H, Ikeda S, Imagama S, Kawaguchi Y, Takeshita K, Matsumoto M, Okawa A, Takaso M, Yamazaki M. Residual neuropathic pain in postoperative patients with cervical ossification of posterior longitudinal ligament. *Clin Spine Surg* 36: E277-E282, 2023.
150. Ito S, Nakashima H, Yoshii T, Egawa S, Sakai K, Kusano K, Tsutui S, Hirai T, Matsukura Y, Wada K,

- Katsumi K, Koda M, Kimura A, Furuya T, Maki S, Nagoshi N, Nishida N, Nagamoto Y, Oshima Y, Ando K, Takahata M, Mori K, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T, Inami S, Fujibayashi S, Katoh H, Kanno H, Oda M, Mori K, Taneichi H, Kawaguchi Y, Takeshita K, Matsumoto M, Yamazaki M, Okawa A, Imagama S. Deep learning-based prediction model for postoperative complications of cervical posterior longitudinal ligament ossification. *Eur Spine J* 32: 3797-3806, 2023.
151. Nagoshi N, Yoshii T, Egawa S, Sakai K, Kusano K, Tsutsui S, Hirai T, Matsukura Y, Wada K, Katsumi K, Koda M, Kimura A, Furuya T, Sato Y, Maki S, Nishida N, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T, Moridaira H, Fujibayashi S, Katoh H, Kanno H, Watanabe K, Taneichi H, Imagama S, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Yamazaki M. Comparison of Surgical Outcomes of Anterior and Posterior Fusion Surgeries for K-line (-) Cervical ossification of the posterior longitudinal ligament: a prospective multicenter study. *Spine* 48: 937-943, 2023.
152. Yamada K, Sudo H, Abe Y, Kokabu T, Tachi H, Endo T, Ohnishi T, Ukeba D, Ura K, Takahata M, Iwasaki N. Influence of lateral translation of lowest instrumented vertebra on L4 tilt and coronal balance for thoracolumbar and lumbar curves in adolescent idiopathic scoliosis. *J Clin Med* 12: 1389, 2023.
153. Ishikawa Y, Kokabu T, Yamada K, Abe Y, Tachi H, Suzuki H, Ohnishi T, Endo T, Ukeba D, Ura K, Takahata M, Iwasaki N, Sudo H. Prediction of Cobb angle using deep learning algorithm with three-dimensional depth sensor considering the influence of garment in idiopathic scoliosis. *J Clin Med* 12: 499, 2023.
154. Tsujimoto T, Itoga R, Kanayama M, Oha F, Shimamura Y, Tanaka M, Hasegawa Y, Fukada S, Hashimoto T, Takahata M, Iwasaki N. Clinical outcomes of short-segment lumbar fusion in patients older than 85 years with a minimum 2-year follow-up. *J Neurosurg Spine* 39: 40-46, 2023.
155. Fukada S, Endo T, Takahata M, Kanayama M, Koike Y, Fujita R, Suzuki R, Murakami T, Hasegawa T, Terkawi MA, Hashimoto T, Yamada K, Sudo H, Kadoya K, Iwasaki N. Dyslipidemia as a novel risk for the development of symptomatic ossification of the posterior longitudinal ligament. *Spine J* 23: 1287-1295, 2023.
156. Ushirozako H, Suda K, Matsumoto Harmon S, Komatsu M, Ota M, Shimizu T, Minami A, Takahata M, Iwasaki N, Matsuyama Y. Complications associated with preventive management to reduce the risk of COVID-19 spread after surgery for spinal cord injury. *J Bone Joint Surg Am* 105: 1001-1011, 2023.
157. Yamada K, Nagahama K, Abe Y, Hyugaji Y, Ukeba D, Endo T, Ohnishi T, Ura K, Sudo H, Iwasaki N, Takahata M. Evaluation of surgical indications for full endoscopic discectomy at lumbosacral disc levels using three-dimensional magnetic resonance/computed tomography fusion images created with artificial intelligence. *Medicina* 59: 860, 2023.
158. Matsukura Y, Egawa S, Inose H, Sakai K, Kusano K, Tsutsui S, Hirai T, Wada K, Katsumi K, Koda M, Kimura A, Furuya T, Maki S, Nagoshi N, Nishida N, Nagamoto Y, Oshima Y, Ando K, Nakashima H, Takahata M, Mori K, Nakajima H, Murata K, Miyagi M, Kaito T, Yamada K, Banno T, Kato S, Ohba T,

- Moridaira H, Fujibayashi S, Katoh H, Kanno H, Taneichi H, Imagama S, Kawaguchi Y, Takeshita K, Nakamura M, Matsumoto M, Yamazaki M, Okawa A, Yoshii T. Preoperative symptom duration influences neurological recovery and patient-reported outcome measures after surgical treatment of cervical ossification of the posterior longitudinal ligament. *Spine* 48: 1259-1265, 2023.
159. Fujita R, Endo T, Takahata M, Koike Y, Yoneoka D, Suzuki R, Tanaka M, Yamada K, Sudo H, Hasegawa T, Terkawi MA, Kadoya K, Iwasaki N: High whole-body bone mineral density in ossification of the posterior longitudinal ligament. *Spine J* 23: 1461-1470, 2023.
160. Koike Y, Takahata M, Nakajima M, Otomo N, Suetsugu H, Liu X, Endo T, Imagama S, Kobayashi K, Kaito T, Kato S, Kawaguchi Y, Kanayama M, Sakai H, Tsuji T, Miyamoto T, Inose H, Yoshii T, Kashii M, Nakashima H, Ando K, Taniguchi Y, Takeuchi K, Ito S, Tomizuka K, Hikino K, Iwasaki Y, Kamatani Y, Maeda S, Nakajima H, Mori K, Seichi A, Fujibayashi S, Kanchiku T, Watanabe K, Tanaka T, Kida K, Kobayashi S, Takahashi M, Yamada K, Takuwa H, Lu HF, Niida S, Ozaki K, Momozawa Y; Genetic Study Group of Investigation Committee on Ossification of the Spinal Ligaments; Yamazaki M, Okawa A, Matsumoto M, Iwasaki N, Terao C, Ikegawa S: Genetic insights into ossification of the posterior longitudinal ligament of the spine. *Elife* 12: e86514, 2023.
161. Ushiku C, Suda K, Michikawa T, Harmon SM, Komatsu M, Tsuji O, Takahata M, Saito M, Iwasaki N, Minami A: Incidence and risk factors for pneumonia in the chronic phase of cervical spinal cord injury with complete motor paralysis. *Spine Surg Relat Res* 7: 333-340, 2023.
162. Shimizu T, Suda K, Harmon SM, Komatsu M, Ota M, Ushirozako H, Minami A, Takahata M, Iwasaki N, Takahashi H, Yamazaki M: The impact of diffuse idiopathic skeletal hyperostosis on nutritional status, neurological outcome, and perioperative complications in patients with cervical spinal cord injury. *J Clin Med* 12: 5714, 2023.
163. Ishikawa Y, Kanai S, Ura K, Kokabu T, Yamada K, Abe Y, Tachi H, Suzuki H, Ohnishi T, Endo T, Ukeba D, Takahata M, Iwasaki N, Sudo H: Development of notch-free, pre-bent rod applicable for posterior corrective surgery of thoracolumbar/lumbar adolescent idiopathic scoliosis. *J Clin Med* 12: 5750, 2023.
164. Wakao N, Furuya T, Yoshii T, Arima H, Yamato Y, Nakashima H, Imagama S, Imajo Y, Miyamoto H, Inoue G, Miyagi M, Kanbara S, Iizuka Y, Chikuda H, Watanabe K, Kobayashi K, Tsushima M, Miyazaki M, Yagi M, Suzuki S, Takahata M, Hongo M, Koda M, Nagata K, Mori K, Suzuki A, Kaito T, Murotani K, Miyakoshi N, Hashizume H, Matsuyama Y, Kawakami M, Haro H; Project Committee of the Japanese Society for Spine Surgery and Related Research (JSSR). A nationwide multicenter study of the cost effectiveness of five leading drugs for pharmacological management of cervicobrachial symptoms. *J Orthop Sci.* 2023 Dec 26:S0949-2658(23)00334-2.
165. Ushirozako H, Suda K, Matsumoto Harmon S, Komatsu M, Ota M, Shimizu T, Minami A, Takahata M, Iwasaki N, Matsuyama Y. Epidemic Preventive Management during the Coronavirus Disease 2019 Pandemic Is a Risk Factor for Delirium after Spinal Cord Injury Surgery. *Spine Surg Relat Res.* 2023 Jun 9;7(6):474-481.
166. Shimizu T, Suda K, Matsumoto Harmon S, Komatsu M, Ota M, Ushirozako H, Inomata K, Minami A,

Yamada K, Endo T, Takahata M, Iwasaki N, Takahashi H, Koda M, Yamazaki M. Effect of urgent surgery within 8 hours compared to surgery between 8 and 24 hours on perioperative complications and neurological prognosis in patients older than 70 years with cervical spinal cord injury: a propensity score-matched analysis. *J Neurosurg Spine*. 2024 Jan 26:1-11.

和文

1. 高畑 雅彦, 井上 千春: 外側円板状半月の X 線学的特徴. 北海道整形災害外科学会雑誌 45: 8-12, 2003.
2. 高畑 雅彦, 京極 元, 岩田 豊英: 市立旭川病院における化膿性脊椎炎の臨床経過及び背景因子についての検討. 旭川市立病院医誌 35: 1-5, 2003.
3. 高畑 雅彦, 武田 直樹, 三浪 明男: 骨粗鬆症性脊椎骨折後におこる姿勢異常と体幹筋筋力低下が日常生活動作と生活の質に及ぼす影響. 健康医科学研究助成論文集 21: 65-73, 2006.
4. 伊東 学, 鑑 邦芳, 小谷 善久, 高畑 雅彦, 須藤 英毅, 大嶋 茂樹, 三浪 明男: ジクロフェナクナトリウムテープ製剤(ボルタレンテープ)の臨床的検討 腰痛患者における鎮痛効果と日常生活動作に与える影響について. *Progress in Medicine* 26: 1288-1294, 2006.
5. 高畑 雅彦, 伊東 学, 安倍 雄一郎, 三浪 明男: 骨吸収抑制薬(アレンドロネート、ラロキシフェン)が骨移植の治癒過程に及ぼす影響 卵巣摘出ラット脊椎固定術モデルにおける検討. *SERM: Selective Estrogen Receptor Modulator* 5: 66-67, 2007.
6. 祐川 敦, 伊東 学, 鑑 邦芳, 小谷 善久, 高畑 雅彦, 須藤 英毅, 大嶋 茂樹, 三浪 明男: 札幌市における側彎症学校検診の実態調査 平成元年から 17 年度までの検討. *脊柱変形* 22: 31-35, 2007.
7. 高畑 雅彦, 鑑 邦芳, 伊東 学, 小谷 善久, 須藤 英毅, 三浪 明男: 【胸椎後縦靭帯骨化症の治療 最近の進歩】 胸椎後縦靭帯骨化症に対する後方進入前方除圧術の治療成績と成績不良因子に関する検討. *臨床整形外科* 43: 557-562, 2008.
8. 須藤 英毅, 鑑 邦芳, 伊東 学, 小谷 善久, 高畑 雅彦, 放生 憲博, 三田 真俊, 三浪 明男: リウマチ性環軸椎亜脱臼に対する環椎外側塊スクリューの治療成績. 北海道整形災害外科学会雑誌 50: 88-91, 2008.
9. 高畑 雅彦, 武田 直樹, 伊東 学, 三浪 明男: 骨粗鬆症性脊椎椎体骨折後の姿勢異常と QOL 低下の病態に関する研究. *Osteoporosis Japan* 18: 68-70, 2010.
10. 伊東 学, 山元 功, 小熊 忠教, 葛西 一元, 成田 豊, 倉上 親治, 徳永 誠, 平井 和樹, 中下 健, 北村 三穂, 高橋 大介, 長谷川 充孜, 丹治 裕, 三宅 哲, 中野 薫, 奥泉 知郎, 須藤 英毅, 高畑 雅彦, 三浪 明男: カルシトニン製剤が骨粗鬆症患者の腰背部痛と QOL に及ぼす影響に関する多施設前向き臨床研究. *新薬と臨床* 59: 2302-2314, 2010.
11. 大嶋 茂樹, 伊東 学, 高畑 雅彦, 鑑 邦芳, 小谷 善久, 須藤 英毅, 放生 憲博, 安倍 雄一郎, 三浪 明男: 特発性側彎症に対する後方矯正固定術の臨床成績 超高分子量ポリエチレンテープを用いた hybrid 法と椎弓根スクリュー法の比較. *Journal of Spine Research* 1: 2074-2078, 2010.
12. 高畑 雅彦: 骨吸収抑制剤が脊椎固定術後の移植骨治癒に及ぼす影響 卵巣摘出閉経後骨粗鬆

症モデルラットを用いた実験的研究. 北海道整形災害外科学会雑誌 52: 166-172, 2011.

13. 高畑 雅彦, 鏡 邦芳, 伊東 学: 【脊柱再建と生体材料-中・長期成績】 A-W ガラスセラミックスによる椎体置換の長期成績. 脊椎脊髄ジャーナル 25: 721-726, 2012.
14. 村上 望, 奥原 浩之, 山本 雅史, 重松 明男, 高畑 雅彦, 鏡 邦芳, 伊東 学, 渋谷 齊, 三浪 明男, 清水 力: 当院の脊柱側彎症手術における MEP モニタリングの成績. 脊髄機能診断学 34: 153-159, 2013.
15. 中原 誠之, 安倍 雄一郎, 伊東 学, 鏡 邦芳, 高畑 雅彦, 須藤 英毅, 長濱 賢: 特発性側彎症矯正手術における脊柱管頭尾側長ならびに 3 次元矯正パラメーターの解析 単純 X 線画像と 3 次元 CT の検討. Journal of Spine Research 4: 1646-1650, 2013.
16. 亀田 裕亮, 高畑 雅彦, 清水 智弘, 濱野 博基, 岩崎 倫政: 破骨細胞誘導因子 Siglec-15 は閉経後骨粗鬆症の治療ターゲットとなり得るか? 北海道整形災害外科学会雑誌 57: 1-8, 2015.
17. 山田 勝久, 須藤 英毅, 岩崎 浩司, 佐々木 直樹, 東 秀明, 亀田 裕亮, 伊東 学, 高畑 雅彦, 鏡 邦芳, 三浪 明男, 岩崎 倫政: 生体力学的荷重負荷に起因した椎間板変性に対する caspase 3 siRNA の変性抑制効果. 北海道整形災害外科学会 57: 9-16, 2015.
18. 大羽 文博, 金山 雅弘, 橋本 友幸, 高畑 雅彦, 岩田 玲, 岩崎 倫政: 腰部脊柱管狭窄症に対する保存療法の効果とその限界. 東北整形災害外科学会雑誌 59: 5-8, 2016.
19. 濱野 博基, 高畑 雅彦, 太田 昌博, 平塚 重人, 清水 智弘, 亀田 裕亮, 岩崎 倫政: 脊椎骨増殖性病変と骨粗鬆症を併存するびまん性特発性骨増殖症に対するテリパラチドの治療効果- 靱帯骨化石灰化症自然発症モデルマウス (twy/twy) を用いた検討. 臨床整形外科 51: 458-465, 2016.
20. 清水 智弘, 高畑 雅彦, 亀田 裕亮, 濱野 博基, 伊藤 哲平, 木村 廣美[須田], 東藤 正浩, 但野 茂, 岩崎 倫政: ビタミン K 依存性グラ化オステオカルシンは副甲状腺ホルモン製剤の骨治療効果に影響する. 北海道整形災害外科学会雑誌 58: 9-14, 2016.
21. 百貫 亮太, 高畑 雅彦, 織田 格, 大嶋 茂樹, 金山 雅弘, 岩崎 倫政: 【高齢者(75 歳以上)の運動器変性疾患に対する治療】 脊椎の変性疾患に対する高齢者治療 頸椎変性疾患 非リウマチ性歯突起後方偽腫瘍の疫学と発症要因. 別冊整形外科 72: 74-77, 2017.
22. 岩田 玲, 金山 雅弘, 大羽 文博, 嶋村 之利, 橋本 友幸, 高畑 雅彦, 岩崎 倫政: 骨粗鬆症性椎体骨折後の腰痛に椎体変形や偽関節および全脊柱アライメントが及ぼす影響. Journal of Spine Research 9: 142-146, 2018.
23. 高畑 雅彦, 小甲 晃史, 遠藤 努: 【脊柱靱帯骨化症研究の進歩】 骨化症の病態 頸椎骨密度分布. 整形外科 69: 551-555, 2018.
24. 山田 勝久, 長濱 賢, 室田 栄宏, 平塚 重人, 高畑 雅彦, 岩崎 倫政: 【鏡視下手術の進歩- 小関節から脊椎まで】 新コンセプトの低侵襲腰椎椎体間固定術である全内視鏡下経椎間孔腰椎椎体間固定術の手術手技と腰椎変性すべり症に対する術後 2 年の臨床成績(原著論文/特集). 別冊整形外科 77: 2-5, 2020.

【症例報告】

1. Sudo H, Abumi K, Ito M, Kotani Y, Takahata M, Hojo Y, Sanda M, Minami A: Spinal cord compression by ligamentum flavum hematoma in the thoracic spine. *Spine* 34: E942-944, 2009.
2. Kotani Y, Takahata M, Abumi K, Ito M, Sudo H, Minami A: Cervical myelopathy resulting from combined ossification of the ligamentum flavum and posterior longitudinal ligament: report of two cases and literature review. *Spine J* 13: e1-6, 2013.
3. Yoshihara H, Abumi K, Ito M, Kotani Y, Sudo H, Takahata M: Severe fixed cervical kyphosis treated with circumferential osteotomy and pedicle screw fixation using an anterior-posterior-anterior surgical sequence. *World Neurosurg* 80: 654.e17-21, 2013.
4. Hojo Y, Ito M, Abumi K, Sudo H, Takahata M: Primary spinal marginal zone lymphoma relapse at a different spinal level after remission of the primary lesion. *Global Spine J* 3: 261-264, 2013.
5. Tsujimoto T, Takahata M, Kokabu T, Matsushashi M, Iwasaki N: Pyogenic spondylodiscitis following anti-interleukin-6 therapy in a patient with rheumatoid arthritis (implication of hematogenous infection risk in degenerative intervertebral discs): A case report and review of the literature. *J Orthop Sci* 21: 694-697, 2016.
6. Komatsu M, Suda K, Takahata M, Matsumoto S, Ushiku C, Yamada K, Yamane J, Endo T, Iwasaki N, Minami A: Delayed bilateral vertebral artery occlusion after cervical spine injury: a case report. *Spinal Cord Ser Cases* 2: 16031, 2016.
7. Ushiku C, Suda K, Matsumoto S, Komatsu M, Takahata M, Iwasaki N, Minami A: Dural penetration caused by a vertebral bone fragment in a lumbar burst fracture: a case report. *Spinal Cord Ser Cases* 3: 16040, 2017.
8. Takahata M, Iwasaki N: Cervical nerve root anomaly: Report of a case and review of the literature. *J Orthop Sci* 23: 842-844, 2018.
9. Konomi T, Suda K, Matsumoto S, Komatsu M, Takahata M, Iwasaki N, Minami A: Two-stage corrective surgery for severe rigid cervical kyphotic deformity with unilateral vertebral artery occlusion after old blunt trauma: a case report. *Spinal Cord Ser Cases* 4: 18, 2018.
10. Konomi T, Suda K, Matsumoto S, Komatsu M, Takahata M, Iwasaki N, Minami A: Awareness of traumatic occult lateral mass fracture of the cervical spine triggered by the presence of unilateral vertebral artery occlusion: a case report. *Spinal Cord Ser Cases* 4: 20, 2018.
11. Haraya K, Yamada K, Kokabu T, Iwata A, Endo T, Sudo H, Iwasaki N, Takahata M: 18F-FDG-PET/CT localizes intervertebral disc space infection following posterior lumbar interbody fusion surgery leading to successful retention of percutaneously inserted pedicle screws: a case report. *Spinal Cord Ser Cases* 4: 81, 2018.
12. Tsujimoto T, Suda K, Harmon SM, Komatsu M, Takahata M, Iwasaki N, Minami A: Two case reports of 'locked spondyloptosis': the most severe traumatic cervical spondyloptosis with locked spinous process and vertebral arch into the spinal canal. *Spinal Cord Ser Cases* 6: 10, 2020.
13. Yamada S, Hotta K, Takahata M, Iwami D, Sugito Y, Tanabe T, Iwahara N, Shinohara N: Femoral nerve palsy following kidney transplantation: A case report and review of the literature. *IJU Case Rep* 3: 248-251, 2020.

14. Shimizu H, Endo T, Takahata M, Yasui K, Sodeyama Y, Iwasaki N: Occipitoatlantoaxial rotatory fixation caused by minor traumatic occipitoatlantal rotatory fixation with compensatory counter-rotation in atlantoaxial joint: A case report. J Orthop Sci 27: 956-959, 2022.
15. Ishii C, Iwata A, Yamada K, Endo T, Tsujimoto T, Sudo H, Shimizu A, Iwasaki N, Takahata M: Radical resection for solitary thoracic spinous-process metastasis: a case report and technical note. Spinal Cord Ser Cases 8: 8, 2022.
16. Takahata M, Watanabe T, Endo T, Ogawa Y, Miura S, Iwasaki N: Pulsating Spinal Arachnoid Cyst as a Hidden Aggravating Factor for Thoracic Spondylotic Myelopathy: A Report of 3 Cases. JBJS Case Connect 12, 2022.
17. Endo T, Suda K, Fukui T, Matsumoto S, Komatsu M, Ota M, Ushiku C, Yamane J, Minami A, Takahata M, Iwasaki N: Rare case of real-time observation of paralytic deterioration after cervical dislocation in the hyperacute phase. BMC Musculoskelet Disord 23: 412, 2022.
18. Daisho T, Kagami K, Yamazaki K, Ishiguro N, Endo T, Takahata M, Suzuki H, Sugawara M, Takekuma Y: Therapeutic drug monitoring-enabled long-term use of linezolid for the successful treatment of refractory pyogenic spondylodiscitis without development of thrombocytopenia: A case report. J Orthop Sci 28: 1587-1591, 2023.
19. Takenaka J, Hirata K, Watanabe S, Takahata M, Kudo K: Bone Echinococcosis Mimicking Malignancy on FDG PET. Clin Nucl Med 48: e523-e525, 2023.

和文

1. 高畑 雅彦, 葛城 良成, 近藤 英司: 大腿骨遠位部及び遠位骨幹部骨折に対する Intramedullary supracondylar nail の使用経験. 北海道整形外科外傷研究会会誌 15: 19-23, 1998.
2. 近藤 英司, 葛城 良成, 高畑 雅彦: 膝蓋骨上極部 sleeve fracture の 1 例. 北海道整形災害外科学会雑誌 41: 28-31, 1999.
3. 高畑 雅彦, 加藤 博之, 三浪 明男: 上肢に発生したメロレオストーシスの 1 例. 北海道整形災害外科学会雑誌 42: 30-34, 2000.
4. 佐久間 隆, 景浦 暁, 黒部 恭啓, 高畑 雅彦: 橈骨神経麻痺を合併した上腕骨骨幹部骨折. 北海道整形外科外傷研究会会誌 18: 64-68, 2002.
5. 高畑 雅彦, 京極 元, 岩田 豊英: 長母指伸筋腱内に生じたガングリオンの一例: 北海道整形災害外科学会雑誌 45: 31-34, 2003.
6. 景浦 暁, 本間 信吾, 佐久間 隆, 黒部 恭啓, 高畑 雅彦, 室田 栄宏, 西岡 健吾, 畠山 尚子, 妹尾 一誠, 鈴木 智之, 梶 良行, 黒川 紘二: 長期間頻回に骨折を繰り返した Pycnodysostosis の姉妹例. 北海道整形災害外科学会雑誌 45: 9-15, 2004.
7. 山田 勝久, 小谷 善久, 伊東 学, 鏡 邦芳, 須藤 英毅, 高畑 雅彦, 大嶋 茂樹, 三浪 明男: 腰椎後方経路椎体間固定術後に発症した難治性 MRSA 感染の 2 症例. 北海道整形災害外科学会雑誌 50: 220-223, 2009.
8. 高橋 要, 新井 隆太, 校條 祐輔, 高畑 雅彦, 岩崎 倫政: 強皮症に合併した頸性 calcinosis の 1 例. 北海道整形災害外科学会雑誌 57: 98-101, 2015.

9. 平塚 重人, 高畑 雅彦, 須藤 英毅, 長濱 賢, 黒木 圭: 脊髄圧迫非優位側に運動・感覚麻痺を生じた頸椎椎間板ヘルニアによる圧迫性頸髄症の1例. 北海道整形災害外科学会誌 56: 215-218, 2015.
10. 小池 良直, 高畑 雅彦, 岩田 玲, 校條 祐輔, 小甲 晃史, 須藤 英毅, 岩崎 倫政: 児童期に発症した腰椎椎間板ヘルニアの特徴. 北海道整形災害外科学会雑誌 57: 279-282, 2016.
11. 木田 博郎, 高畑 雅彦, 小甲 晃史, 三田 真俊, 安井 啓悟, 岩崎 倫政: 髄核脱出を伴った小児頸椎椎間板石灰化症の1例. 北海道整形災害外科学会雑誌 57: 283-285, 2016.
12. 福井 隆史, 須田 浩太, 遠藤 努, 松本 聡子, 小松 幹, 牛久 智加良, 山根 淳一, 東條 泰明, 神谷 行宣, 三浪 明男, 高畑 雅彦, 岩崎 倫政: 迅速な整復固定の重要性を示唆した頸椎脱臼骨折の1例「例え運動完全麻痺であっても超早期手術により下肢筋力は完全回復する可能性がある」. 北海道整形災害外科学会雑誌 58: 203-206, 2017.
13. 中村 夢志郎, 須藤 英毅, 安倍 雄一郎, 岩田 玲, 小甲 晃史, 山田 勝久, 高畑 雅彦, 岩崎 倫政: 重度側彎症に対して二期的手術を行った一例. 北海道整形災害外科学会雑誌 60: 95-99, 2018.
14. 舘 弘之, 高畑 雅彦, 遠藤 努, 山田 勝久, 岩田 玲, 須藤 英毅, 岩崎 倫政: 胸椎黄色靭帯骨化症手術後に高齢発症の家族性アミロイドポリニューロパチーと診断された両下肢麻痺の一例. 北海道整形災害外科学会雑誌 60: 249-253, 2019.
15. 岩田 玲, 高畑 雅彦, 須藤 英毅, 山田 勝久, 遠藤 努, 岩崎 倫政: 第5腰椎骨腫瘍摘出術における腸骨稜切離回転による椎体側方へのアプローチ. 東日本整形災害外科学会雑誌 31: 39-42, 2019.
16. 長濱 賢, 安倍 雄一郎, 佐藤 栄修, 室田 栄広, 平塚 重人, 伊東 学, 高畑 雅彦: L3/4/5 腰椎除圧術後の不安定性に対し新規考案した PETLIF (Percutaneous Endoscopic Transforaminal Lumbar Interbody Fusion 経皮的内視鏡下経椎間孔腰椎椎体間固定術) で治療した1例. Journal of Spine Research 10: 910-913, 2019.
17. 辻本 武尊, 楫野 知道, 高畑 雅彦, 久田 雄一郎, 松本 大, 大灘 嘉浩: びまん性特発性骨増殖症(DISH)に伴う胸腰椎骨折術後にビタミンK欠乏に起因する凝固能異常を呈した1例. Journal of Spine Research 10: 1447-1450, 2019.
18. 高橋 遼, 荒 桃子, 近藤 享史, 奥村 一慶, 本多 昌平, 高桑 恵美, 高畑 雅彦, 武富 紹信: 肋骨軟骨腫により血胸を発症した1例. 日本小児外科学会雑誌 58: 68-72, 2022.

【総説】

欧文

1. Takahata M, Awad HA, O'Keefe RJ, Bukata SV, Schwarz EM: Endogenous tissue engineering: PTH therapy for skeletal repair. Cell Tissue Res 347: 545-552, 2012.
2. Ohnishi T, Ogawa Y, Suda K, Komatsu M, Harmon SM, Asukai M, Takahata M, Iwasaki N, Minami A: Molecular targeted therapy for the bone loss secondary to pyogenic spondylodiscitis using medications for osteoporosis: a literature review. Int J Mol Sci 22: 4453, 2021.

和文

1. 高畑 雅彦, 鏡 邦芳, 伊東 学, 小谷 善久, 須藤 英毅, 放生 憲博: 超高分子量ポリエチレンケーブルを用いた脊柱再建術. 日本脊椎脊髄病学会雑誌 19: 724-729, 2008.
2. 伊東 学, 鏡 邦芳, 小谷 善久, 高畑 雅彦, 須藤 英毅, 放生 憲博: 化膿性脊椎炎に対する後側方鏡視下病巣搔爬洗浄術. 日本脊椎脊髄病学会雑誌 19: 741-747, 2008.
3. 武田 直樹, 高畑 雅彦, 三浪 明男, 小林 徹也, 田中 隆史: 【姿勢と脊柱アライメントへの取り組み】高齢者の後彎変形と ADL、QOL. 運動療法と物理療法 21: 33-38, 2010.
4. 伊東 学, 高畑 雅彦, 須藤 英毅, 金田 清志, 佐藤 栄修, 岩崎 倫政: 骨粗鬆症性椎体骨折後後彎症(OPK)の病態と治療戦略 骨粗鬆症性椎体圧潰による遅発性麻痺の病態と治療 前方法 vs. 後方法(解説). 日本整形外科学会雑誌 90: 577-583, 2016.
5. 角家 健, 近藤 英司, 高畑 雅彦, 須藤 英毅, 古川 潤一, 小野寺 智洋, アラー・テルカウイ, 岩崎 倫政: 北海道における整形外科基礎研究 基礎研究体制と概要 北海道大学整形外科. 北海道整形災害外科学会雑誌 9: 197-203, 2018.
6. 高畑 雅彦: 北海道における整形外科基礎研究. 骨代謝研究. 北海道整形災害外科学会雑誌 59: 205-208, 2018.
7. 高畑 雅彦, 佐藤 大, 岩崎 倫政: 新しい医療技術. Siglec-15 分子標的治療の有用性. 整形災害外科 62: 405-409, 2019.
8. 高畑 雅彦: 北海道の脊椎外科と国際貢献 脊椎脊髄外科のグローバル化(解説). 北海道整形災害外科学会雑誌 61: 24-25, 2019.

【その他】

1. 伊東 学, 鏡 邦芳, 小谷 善久, 高畑 雅彦, 須藤 英毅, 大嶋 茂樹, 三浪 明男: 【化膿性脊椎炎 診断と治療】化膿性脊椎炎に対する鏡視下手術. Orthopaedics 19: 34-39, 2006.
2. 鏡 邦芳, 伊東 学, 高畑 雅彦, 小谷 善久, 須藤 英毅, 放生 憲博, 三浪 明男: 【脊柱側彎症治療の現状】特発性側彎症の矯正手術 後方 instrumentation による矯正固定. 脊椎脊髄ジャーナル 21: 27-35, 2008.
3. 伊東 学, 鏡 邦芳, 小谷 善久, 高畑 雅彦, 須藤 英毅, 放生 憲博: 新しい医療技術 化膿性脊椎炎の内視鏡を用いた病巣搔爬技術. 整形・災害外科 51: 829-834, 2008.
4. 高畑 雅彦, 鏡 邦芳, 伊東 学, 三浪 明男: 【頸椎インストゥルメンテーション】頸椎変形 頸椎後彎変形の病態と治療. 関節外科 27: 937-942, 2008.
5. 須藤 英毅, 鏡 邦芳, 伊東 学, 小谷 善久, 高畑 雅彦, 三浪 明男: 【“くび”の姿勢異常】環軸椎回旋位固定. 脊椎脊髄ジャーナル 21: 1219-1222, 2008.
6. 小谷 善久, 鏡 邦芳, 伊東 学, 高畑 雅彦, 須藤 英毅, 放生 憲博: 【脊柱後彎症の病態と手術治療】各種疾患に伴う後彎症 椎弓切除後後彎変形 椎弓切除後頸椎後彎の手術治療. 脊椎脊髄ジャーナル 22: 599-605, 2009.
7. 高畑 雅彦, 鏡 邦芳, 伊東 学, 小谷 善久, 須藤 英毅, 放生 憲博: 【脊柱後彎症の病態と手術治療】関節リウマチによる頭蓋頸椎移行部後彎の病態と矯正固定手術. 脊椎脊髄ジャーナル 22: 639-645, 2009.

8. 放生 憲博, 鏡 邦芳, 伊東 学, 小谷 善久, 高畑 雅彦, 須藤 英毅, 三浪 明男: 【脊柱後彎症の病態と手術治療】後彎を伴う頸椎症性脊髄症 後彎を伴う頸椎症性脊髄性に対する後方矯正固定術. 脊椎脊髄ジャーナル 22: 661-666, 2009.
9. 岩崎 倫政, 松橋 智弥, 瓜田 淳, 高畑 雅彦, 三浪 明男, 西村 紳一郎: 【ますます重要になる細胞周辺環境(細胞ニッチ)の最新科学技術 細胞の生存、増殖、機能のコントロールから創薬研究、再生医療まで】細胞周辺環境のための材料科学技術 高分子 糖鎖による軟骨細胞機能制御の可能性 軟骨変性に伴う N-結合型糖鎖の変化より. 遺伝子医学 MOOK 別冊ますます重要になる細胞周辺環境(細胞ニッチ)の最新科学技術: 55-59, 2009.
10. 鏡 邦芳, 高畑 雅彦, 伊東 学, 須藤 英毅, 長濱 賢: 【後縦靭帯骨化症(OPLL)の治療】胸椎 OPLL の治療 胸椎 OPLL に対する後方進入全周性脊髄除圧. 関節外科 31: 578-585, 2012.
11. 高畑 雅彦: 【脊椎骨粗鬆症・圧迫骨折に対する治療戦略-薬物治療を中心に】圧迫骨折を伴う骨粗鬆症の薬物治療 骨形成促進剤の視点から. 脊椎脊髄ジャーナル 27: 189-193, 2014.
12. 高畑 雅彦: 【顕微学的アプローチによる骨の細胞機能の解明】一副甲状腺ホルモンが骨に及ぼす影響(特集). クリニカルカルシウム 25: 107-113, 2015.
13. 亀田 裕亮, 高畑 雅彦, 清水 智弘, 濱野 博基, 平塚 重人, 太田 昌博, 岩崎 倫政: 糖鎖受容体 Siglec-15 を介した生体内骨吸収制御機構(図説). THE BONE 29: 101-105, 2015.
14. 濱野 博基, 高畑 雅彦, 太田 昌博, 平塚 重人, 清水 智弘, 亀田 裕亮, 岩崎 倫政: 最新基礎科学 知っておきたい 脊椎骨増殖性病変と骨粗鬆症を併存するびまん性特発性骨増殖症に対するテリパラチドの治療効果 靭帯骨化石灰化症自然発症モデルマウス(twy/twy)を用いた検討. 臨床整形外科 51: 458-465, 2016.
15. 高畑 雅彦: 【ハイブリッド手術室とは-現状と将来-】脊椎外科手術におけるハイブリッド手術室の現状と将来(解説/特集). 臨床麻酔 40: 1258-1262, 2016.
16. 岩田 玲, 角家 健, 須藤 英毅, 高畑 雅彦, 岩崎 倫政: 【骨折(四肢・脊椎脊髄外傷)の診断と治療(その1)】脊椎 脊椎椎体(頸椎・胸椎・腰椎) 脊椎外傷に対する手術的治療の適応と方法(解説/特集). 別冊整形外科 70: 152-158, 2016.
17. 長濱 賢, 室田 栄宏, 山田 勝久, 平塚 重人, 高畑 雅彦: 【脊椎内視鏡手術の進歩】経皮的内視鏡下腰椎椎体間固定術: PETLIF(ペトリフ) 手術手技と臨床成績(解説/特集). 脊椎脊髄ジャーナル 2: 843-849, 2019.
18. 長濱 賢, 室田 栄宏, 山田 勝久, 高畑 雅彦: 【脊椎低侵襲手術の最近の話題】低侵襲腰椎椎体間固定術である PETLIF(ペトリフ: 経皮的内視鏡下経椎間孔腰椎椎体間固定術)(解説/特集). Bone Joint Nerve 9: 491-498, 2019.
19. 高畑 雅彦: 【骨粗鬆症性椎体骨折治療の最新知見】骨粗鬆症性椎体骨折受傷時の骨粗鬆症治療薬剤の考え方(解説/特集). 整形・災害外科 63: 141-146, 2020.
20. 佐藤 大, 高畑 雅彦: Vocabulary Siglec-15(解説). 整形外科 71: 159, 2020.
21. 高畑 雅彦, 石井 賢: 骨粗鬆症に対する薬物療法の最近のトピックについて ストラテジー(treat to target)についての議論が進んでいる. 日本医事新報 5002: 51, 2020.
22. 高畑 雅彦: 治療法の再整理とアップデートのために 専門家による私の治療 外傷性脊椎椎体骨折. 日本医事新報 5056: 37-38, 2021.

23. 高畑 雅彦, 遠藤 努: 【脊椎の外科基本手技】胸椎疾患 胸椎 OPLL の病態と治療. Orthopaedics 34: 87-90, 2021.
24. 高畑 雅彦: 【外傷画像診断アトラス 2021】外傷症例に対する画像診断各論 頭頸部・顔面外傷 頸椎・頸髄損傷. 救急医学 45: 1696-1704, 2021.
25. 高畑 雅彦: 特集骨粗鬆症関連診療ガイド update. Part 3. 生活習慣病骨折リスク、骨折治療への影響. 慢性腎臓病 (CKD). Bone Joint Nerve 40 号(第 11 巻第 1 号): 23-27, 2021.
26. 高畑 雅彦: 治療法の再整理とアップデートのために 専門家による私の治療 外傷性脊椎椎体骨折. 日本医事新報 5104: 43, 2022.
27. 高畑 雅彦, 鏡 邦芳: 【上位頸椎疾患・外傷の病態と治療】頭蓋底陥入症の病態と治療(解説). 整形・災害外科 65: 1133-1139, 2022.
28. 高畑 雅彦, 小野寺 智洋, 高橋 大介, 岩崎 倫政: 目で見てわかる遺伝病 整形外科編 軟骨無形成症(図説). 遺伝子医学 12: 3-5, 2022.
29. 高畑 雅彦, 小野寺 智洋, 高橋 大介, 岩崎 倫政: 目で見てわかる遺伝病 整形外科編・先天性脊椎骨端異形成症・骨形成不全症(図説). 遺伝子医学 12: 3-4, 2022.
30. 高畑 雅彦, 小野寺 智洋, 高橋 大介, 岩崎 倫政: 目で見てわかる遺伝病 整形外科編・点状軟骨異形成症、大理石病 (図説). 遺伝子医学 12: 3-5, 2022.

【学会発表】

国際学会

特別講演

1. Takahata M: Current understanding for management of cervical OPLL: when, what, and how. Instructional course in spine. Association of Spine Surgeon of India, India, 2021, 8.

シンポジウム

1. Takahata M: Cervical myelopathy. Spine week 2023 APSS-JSR joint symposium, Melbourne, 2023, 5.

一般講演

1. Takahata M, Hyakkan R: Increasing incidence of retroodontoid pseudotumor with varied etiology in elderly. 10th annual meeting of cervical research society Asia Pacific section, Yokohama, 2019, 5.
2. Takahata M: Short plate fixation with hyper-angulated screws for multilevel cervical anterior fusion. 4th International MIST Congress, Tokyo, 2019, 10.
3. Takahata M: Cervical Pedicle Screw Placement Through the Paramedian Percutaneous Portals with Minimal Midline Approach. 7th Capital Scientific Summit on Orthopedic Surgery and 2019 China-Japan-ROK Minimal Invasive Techniques Forum, Beijing, 2019, 10.
4. Takahata M: Long-term outcome after decompression and fusion surgery for thoracic ossification of posterior longitudinal ligament with a mean follow-up period of 18 years. 2020 annual meeting of American Academy of Orthopaedic Surgeons, Orland, 2020, 3.

5. Takahata M: Therapeutic efficacy of teriparatide and bisphosphonate in imminent risk of vertebral body fracture adjacent to the initial thoracolumbar vertebral fracture. 2020 annual meeting of American Academy of Orthopaedic Surgeons, Orland, 2020, 5.
6. Takahata M: The hyper-angulated screw/plate fixation facilitates optimal bone purchase for multilevel cervical anterior fusion. Spine Across the Sea, Hawaii, 2021, 7.
7. Takahata M: Varied etiology of nonrheumatic retro-odontoid pseudotumor and its clinical implications for the selection of surgical procedure. 2021 annual meeting of American Academy of Orthopaedic Surgeons, SanDiego, 2021, 8.
8. Takahata M: Comparison of Surgical Outcomes between Laminoplasty, Posterior Decompression and Fusion, and Anterior Decompression and Fusion for K-line (-) Cervical OPLL. 14th annual meeting of Cervical Spine Research Society Asia Pacific, Singapore, 2024, 3.

国内学会

教育講演

1. 高畑雅彦: 頰椎椎弓根スクリューの光と陰. 国際頰椎学会日本機構. 第2回 Cadaver training course, 名古屋市, 2019, 2.
2. 高畑雅彦: 脆弱性骨折の鑑別診断. 原因を考えた治療の重要性. 第9回日本成人脊柱変形学会. イブニングセミナー, 東京都, 2019, 3.
3. 高畑雅彦: 知っているだけで差がつく脊椎サージカルアナトミー 危機回避と手術成績の向上に役立つ知識. 第92回日本整形外科学会総会モーニングセミナー, 横浜市, 2019, 5.
4. 高畑雅彦: 骨粗鬆症性椎体骨折後早期に生じるドミノ骨折および椎体圧潰の病態. 第39回日本骨形態計測学会. スポンサーセミナー2, 北九州市, 2019, 7.
5. 高畑雅彦: 何かおかしい脆弱性骨折の鑑別診断—それって普通の骨折ですか?—. 第54回日本脊椎脊髄障害医学会. ランチョンセミナー6, 秋田市, 2019, 11.
6. 高畑雅彦: 若年発症重症型 OPLL の疫学病態研究からみえてきた靱帯骨化の発症、進行要因. 第49回日本脊椎脊髄病学会アフタヌーンセミナー5, 神戸市, 2020, 9.
7. 高畑雅彦: Understanding and managing secondary osteoporosis. 第95回日本整形外科学会総会招待講演6, 神戸市, 2022, 5.

シンポジウム

1. 高畑雅彦: 胸椎 OPLL. 運動器疾患ゲノム研究の未来. 第34回日本整形外科学会基礎学術集会, 横浜市, 2019, 10.
2. 高畑雅彦: 病態から考える関節リウマチ患者の骨粗鬆症治療戦略. シンポジウム4「骨形態計測から見たRAの骨病変». 第40回日本骨形態計測学会, 岡山市, 2020, 6.
3. 高畑雅彦: 脊椎外傷に対する Kaneda device を用いた前方支柱再建術. シンポジウム1「脊柱再建外科アーカイブス». 第29回インストゥルメンテーション学会, 宇都宮市, 2020, 10.
4. 高畑雅彦: 脊椎椎体骨折後に生じる骨粗鬆症. シンポジウム1 運動と骨(1). 第41回日本骨形態計測学会, 東京都, 2021, 7.

5. 高畑雅彦: 関節リウマチ動物モデルにおける骨質変化. シンポジウム 3. 骨質からみた運 RA. 第 41 回日本骨形態計測学会, 東京都, 2021, 7.
6. 高畑雅彦: 脆弱性骨折の治癒・骨癒合と骨形成促進薬. シンポジウム 60 骨粗鬆症治療の最前線. 第 95 回日本整形外科学会総会招待講演 6, 神戸市, 2022, 5.
7. 高畑雅彦: 実は大事な後療法. 骨粗鬆症患者の脊椎再建手術. シンポジウム 3. 骨粗鬆症脊椎疾患治療: 痛い目に合わないための対応テクニック. 第 12 最小侵襲脊椎治療学会, 富山市, 2022, 6.
8. 高畑雅彦: ロコモと骨粗鬆症. シンポジウム 1、ロコモを極める—ロコモと運動器疾患—. 第 33 回日本運動器科学会, 札幌市, 2022, 7.
9. 高畑雅彦: 脊柱靭帯骨化症の診療・研究の最前線 患者・市民参画(PPI)により深化する脊柱靭帯骨化症の病態解明および実態調査研究. 第 38 回日本整形外科学会基礎学術集会, つくば市, 2023, 10.

一般講演

1. 高畑 雅彦: 新鮮椎体骨折後早期の隣接椎体骨粗鬆症化に対する薬物治療効果 高空間分解能 CT を用いた縦断的骨形態解析. 第 92 回日本整形外科学会学術総会, 横浜, 2019, 5.
2. 高畑 雅彦, 遠藤 努, 辻本 武尊, 小池 良直, 岩田 玲, 山田 勝久, 岩崎 倫政: 頸椎後縦靭帯骨化症による脊髄障害性疼痛 手術治療による改善効果と術式による違い. 第 94 回日本整形外科学会学術総会, 東京都, 2021, 5.
3. 高畑 雅彦: 非リウマチ性軸椎突歯起後方偽腫瘍による頸髄症: 解剖学的、機能的発生要因から考える最適な術式選択. 第 51 回日本脊椎脊髄病学会, 横浜市, 2022, 4.
4. 高畑 雅彦: 肥満による脊柱後縦靭帯骨化症重症化と脂肪由来生理活性分子アディポカインの特徴的分泌パターン. 第 95 回日本整形外科学会総会, 神戸市, 2022, 5.
5. 高畑 雅彦: 非リウマチ性軸椎突歯起後方偽腫瘍による頸髄症: 解剖学的、機能的発生要因から考える最適な術式選択. 第 95 回日本整形外科学会総会, 神戸市, 2022, 5.
6. 高畑 雅彦: 新時代の肥満治療がもたらす脊柱後縦靭帯骨化症の骨化進展抑制効果. 第 53 回日本脊椎脊髄病学会, 横浜市, 2024, 4.
- 7.

招待講演

1. 高畑 雅彦: 整形外科領域における PTH 製剤の有用性と落とし穴. 沖縄 PTH 研究会, 那覇市, 2019, 5.
2. 高畑 雅彦: 脊柱靭帯骨化症に挑む～病態解明へのアプローチから治療のピットフォールまで～. 第 17 回 Shinsyu Orthopaedic Seminar, 松本市, 2019, 6.
3. 高畑 雅彦: 頸椎手術の危機回避と手術成績を向上させるための工夫. 第 35 回 University of Tokyo Spine Group 研究会, 東京都, 2019, 6.
4. 高畑 雅彦: 骨の研究からみえてくる脊椎脊髄疾患の病態と治療のピットフォール. 尾北整形外科連携懇話会, 名古屋市, 2019, 7.

5. 高畑 雅彦：整形外科診療に役立つ骨代謝学. 第 61 回獨整会公開学術講演会, 宇都宮市, 2019, 9.
6. 高畑 雅彦：脆弱性骨折の鑑別診断—何かおかしい骨折の見分け方と治療上の注意—西新宿整形外科研究会オータムセミナー, 東京都, 2019, 10.
7. 高畑 雅彦：骨代謝学から読み解く脊椎疾患の病態と治療. 第 70 回神戸整形外科セミナー, 神戸市, 2019, 11.
8. 高畑 雅彦：見逃してはいけない脆弱性椎体骨折の原因と骨粗鬆症治療の落とし穴. 第 18 回新潟運動器 QOL 研究会, 新潟市, 2019, 11.
9. 高畑 雅彦：サージカルアナトミー—頸椎手術のコツと落とし穴—愛媛脊椎カンファレンス Web 講演, 2020, 12.
10. 高畑 雅彦：頸椎手術を安全かつ確実にを行うための工夫～変形矯正から靭帯骨化、骨粗鬆症まで～. Web 講演, Shiga Spine Web Conference, 2021, 1.
11. 高畑 雅彦：「MOCHIDA Web Seminar」骨粗鬆症治療薬を有効かつ安全に使うために必要な知識, ウェブ, 2021, 3.
12. 高畑 雅彦：重症骨粗鬆症患者の脊椎再建手術—どうしても手術が必要な場合の術式の工夫から原因探索, 薬物治療まで—. Web 脊椎骨粗鬆症セミナー—東京医科歯科大学, 東京都, 2021, 6.
13. 高畑 雅彦：知っているだけで差のつく臨床骨代謝学と脊椎外科診療. Osteoporosis Diagnosis and Treatment Web Symposium, 福岡市, 2021, 9.
14. 高畑 雅彦：頸椎手術の危機回避と手術成績を向上させるためのコツ. 第 3 回 Mie Spine Group On-line Meeting, 津市, 2022, 7.
15. 高畑 雅彦：頸椎手術の危機回避と手術成績工場のための工夫～サージカルアナトミーから骨粗鬆症まで～. 第 45 回多摩脊椎脊髄カンファレンス, 立川市, 2022, 12.
16. 高畑 雅彦：Siglec15 is a critical DAPI2-associated immunoreceptor of remodeling osteoclasts. Japan Bone Academy 2022, ウェブ, 2022, 12.
17. 高畑 雅彦：何かおかしい脆弱性骨折の鑑別診断と治療のピットフォール. 第 4 回信州骨代謝多職種セミナー, 松本市, 2023, 5.