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EDUCATION/POST GRADUATE TRAINING

1999	M.D. Keio University School of Medicine Tokyo, JAPAN
2006	Ph.D. Bone Biology Keio University Graduate School of Medicine Tokyo, JAPAN
1999-2002	Orthopedic Surgery Residency Keio University Hospital Tokyo, JAPAN
2006-2007	Spine Surgery Fellowship, Kawasaki Municipal Hospital, Kanagawa, JAPAN
2009-2010	Scoliosis Fellowship, (Scoliosis, Research) Hospital for Special Surgery, New York, US

ACADEMIC APPOINTS

2007-2009	Associate attending physician Kawasaki Municipal Hospital, Kanagawa, JAPAN
2010-2014	Associate attending physician National Hospital Organization Murayama Medical Center Tokyo, JAPAN
2014-2016	Attending physician National Hospital Organization Murayama Medical Center

Tokyo, JAPAN

2016-2023	Assistant professor Department of orthopedic surgery, Keio University School of Medicine, Tokyo, JAPAN
2023-2024.	Specially Appointed Associate Professor Department of orthopedic surgery, Keio University School of Medicine, Tokyo, JAPAN
2023-present	Professor and Chairman Department of Orthopaedic Surgery, International University of Health and Welfare, School of Medicine, Chiba, JAPAN Director Department of Orthopaedic Surgery, International University of Health and Welfare Narita Hospital, Chiba, JAPAN Chief Spine Service, International University of Health and Welfare Narita Hospital, Chiba, JAPAN
2024-present.	Visiting Professor Department of orthopedic surgery, Keio University School of Medicine, Tokyo, JAPAN

MEDICAL LICENSURE

1999	Full Medical License (Japan) #400538
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BOARD CERTIFICATIONS

2007	Approved Orthopedic doctor Japanese Orthopedic Association
2008	Spine Specialist Japanese Orthopedic Association
2009	Spine Instructor Japanese Society for Spine Surgery and Related Research

PROFESSIONALS AND SOCIETY MEMBERSHIPS

Fellowship

2007	The Japanese Orthopedic Association
2010-2015	Candidate fellow, Scoliosis Research Society
2016	Active fellow, Scoliosis Research Society

Membership

1999	The Japanese Orthopedic Association
1999	The Kanto Society of Orthopedics and Traumatology
2003	The Japanese Society for Bone and Mineral Research
2005	The Japanese Society for Spine Surgery and Related Research
2006	The Japanese Society for the Study of Endoscopic and Minimally Invasive Spine Surgery
2010	Volunteer Surgeon, Foundation of Orthopedics and Complex Spine
2010	Scoliosis Research Society
2011-2013	Complex Spine Study Group, Adolescent Subgroup
2011-2013	Complex Spine Study Group, Adult Subgroup
2011	Japan Scoliosis Society
2011	Asia XLIF group
2011	North American Spine Society
2013-2014	Scoliosis Research Society, Global Outreach Committee
2014-2015	Scoliosis Research Society, Adult Deformity Committee
2015-	International Spine Study Group Contributing Member
2017-	Society of Lateral Access Surgery

2017-2019	The Japanese Society for Spine Surgery and Related Research, Database committee
2017-	Japan Scoliosis Society, International committee
2017-	The Japanese Society for Spine Surgery and Related Research, International committee
2018-	Japan Scoliosis Society, Insurance Committee
2018-	Japanese Orthopedic Association, Database Committee
2019-	Scoliosis Research Society, Communications Committee
2020-	The Japanese Society for Spine Surgery and Related Research, Project committee
2020-	The Japanese Society for Spine Surgery and Related Research, New Technology Assessment committee
2022-	The Japanese Society for Spine Surgery and Related Research, Education Committee, chair
2021-2022	Scoliosis Research Society, Research Grant Committee, chair
2023-	Scoliosis Research Society, Program Committee, Co-chair
2023-	Scoliosis Research Society, Adult Deformity Task Force

AWARDS AND HONORS

2005	Best Presentation Award The Japanese Society for Bone and Mineral Research Meeting
2005	Traveling Award The American Society for Bone and Mineral Research Meeting
2006	President Award Keio University
2006	School of Medicine Award Keio University School of Medicine
2012	Top Cited Article Spine Journal (Scoliosis Field)

2013	Russel Hibbs Clinical Science Award Nominee Scoliosis Research Society
2013	John Moe Award Nominee Scoliosis Research Society
2014	Hirabayashi-Hijikata Award Keio University School of Medicine
2016	Russel Hibbs Clinical Science Award Nominee Scoliosis Research Society
2016	Russel Hibbs Basic Science Award Scoliosis Research Society
2018	Value Award Nominee North American Spine Society
2020	Value Award Nominee North American Spine Society
2021	Value Award Nominee North American Spine Society
2022	Russel Hibbs Clinical Science Award Nominee Scoliosis Research Society
2022	Louis A. Goldstein Award Nominee Scoliosis Research Society
2024	Russel Hibbs Clinical Science Award Scoliosis Research Society

GRANTS

2006-2008	Grant-in-Aid for Young Scientists (B)	3,300,000 Yen
2009-2010	Uehara Memorial Foundation	4,000,000 Yen
2009-2010	Naito Memorial Foundation	500,000 Yen
2011-2013	Grant-in-Aid for Young Scientists (B)	4,160,000 Yen
2012-2013	Orthopedics and Traumatology Foundation	1,000,000 Yen

2013-2014	The Nakatomi Foundation	1,000,000 Yen
2013-2014	The Osteoporosis Foundation	500,000 Yen
2014-2015	The Takeda Science Foundation	2,000,000 Yen
2014-2015	Nakayama Human Science Foundation	800,000 Yen
2015-2017	Grant-in-Aid for Scientific Research (C)	4,690,000 Yen
2015	Toyota Automobile Research Grant	500,000 Yen
2016	Toyota Automobile Research Grant	300,000 Yen
2016	Nippon Zouki Research Grant	300,000 Yen
2017	The Nakatomi Foundation	1,500,000 Yen
2017	Toyota Automobile Research Grant	500,000 Yen
2018	The Osteoporosis Foundation	800,000 Yen
2019	AMED ACT-MS	55,000,000 Yen
2019-2021	Grant-in-Aid for Scientific Research (C)	4,690,000 Yen
2020	The Sakaguchi memorial research grant	700,000Yen
2021	Johnson and Johnson research grant	1,500,000Yen
2022-2024	Grant-in-Aid for Scientific Research (C)	4,410,000 Yen
2022-2024	Takahashi Industrial technology research grant	9,000,000Yen
2022-2024	AMED Medical Device Development	184,000,000Yen

REVIEWER AND EDITORIAL BOARD

2014-	European Spine Journal regular reviewer
2015-	Spine Journal regular reviewer
2015-	The Spine Journal regular reviewer

2016-	Journal of Orthopedic Surgery corresponding editor
2017-	Journal of Neurosurgery guest editor
2017-	The Journal of Spinal Cord Medicine regular reviewer
2017-	New England Journal of Medicine reviewer
2020-	Spinal Cord regular reviewer
2020-	Neurospine regular reviewer
2021-	Neurospine guest editor
2021-	Journal of Orthopaedic Science associate editor
2024-	Scientific Report editor

PEER REVIEWED INTERNATIONAL ARTICLES (SELECTED)

1. Onafowokan OO, Lafage R, Tretiakov P, Smith JS, Line B, Diebo BG, Daniels AH, Gum JL, Protopsaltis T, Hamilton DK, Buell T, Soroceanu A, Scheer JK, Eastlack R, Mullin JP, Mundis GM, Hosogani N, **Yagi M**, Anand N, Okonkwo D, Wang M, Klineberg EO, Khabeish K, Lewis S, Hostin R, Gupta M, Lenke L, Kim HJ, Ames C, Shaffrey C, Bess S, Schwab F, Lafage V, Burton D, Passias PG, International Spine Study Group. Comparative Analysis of Outcomes in Adult Spinal Deformity Patients with Proximal Junctional Kyphosis or Failure Initially Fused to the Upper Versus Lower Thoracic Spine. *J Clin Med*. 2024. In press
2. Mizukoshi R, **Yagi M**, Yamada Y, Yokoyama Y, Yamada M, Watanabe K, Nakamura M, Nagura T, Jinzaki M. G Physiological Rotation Patterns of the Thoracolumbar Spine Across Different Ages: A Detailed Analysis Using Upright CT. *Gait Posture*. 2024;114:305-312
3. Tomita Y, **Yagi M**, Seki F, Komaki Y, Matsumoto M, Nakamura M. Cerebrospinal fluid dynamics analysis using Time Spatial Labeling Inversion Pulse (Time-SLIP) MR imaging in mice. *J Clin Med*. 2024;13(15):4550
4. Kim AH, Mo KC, Harris AB, Lafage R, Neuman BJ, Hostin RA, Soroceanu A, Kim HJ, Klineberg EO, Gum JL, Gupta MC, Hamilton DK, Schwab F, Burton D, Daniels A, Passias PG, Hart RA, Line BG, Ames C, Lafage V, Shaffrey CI, Smith JS, Bess S, Lenke L, Kebaish KM; **International Spine Study Group**. High-Dose TXA Is Associated with Less Blood Loss Than Low-Dose TXA without Increased

Complications in Patients with Complex Adult Spinal Deformity. J Bone Joint Surg Am. 2024 in press

5. Diebo BG, Alsoof D, Balmaceno-Criss M, Daher M, Lafage R, Passias PG, Ames CP, Shaffrey CI, Burton DC, Deviren V, Line BG, Soroceanu A, Hamilton DK, Klineberg EO, Mundis GM, Kim HJ, Gum JL, Smith JS, Uribe JS, Kebaish KM, Gupta MC, Nunley PD, Eastlack RK, Hostin R, Protopsaltis TS, Lenke LG, Hart RA, Schwab FJ, Bess S, Lafage V, Daniels AH; **International Spine Study Group**. Hip Osteoarthritis in Patients Undergoing Surgery for Severe Adult Spinal Deformity: Prevalence and Impact on Spine Surgery Outcomes. J Bone Joint Surg Am. 2024;106(13):1171-1180.
6. Nakayama M, Kiyota Y, Watanabe N, Yamanouchi K, Nakamura S, Takeshima K, Funao H, Ebata S, **Yagi M**. Therapeutic Intervention for Osteoporosis of Surgical Cases With Non-Vertebral Fractures for Three Years in a Newly Established Rural Hospital in Japan. Cureus. 2024;16(7):e63864.
7. Shintaku T, Nakayama M, **Yagi M**, Ikegami T. Long-Term Outcome Over 15 Years of Prosthesis for Thumb Carpometacarpal Joint Arthritis: A Case Series. Cureus 16(11): e73480
8. Tomita Y, **Yagi M**, Seki F, Komaki Y, Suzuki S, Watanabe K, Matsumoto M, Nakamura M. The significance of cerebrospinal fluid dynamics in adolescent idiopathic scoliosis using time-SLIP MRI. *Sci Rep*. 2024;14(1):12214
9. Passias PG, Tretiakov, Onafowokan OO, Das A, Lafage R, Smith JS, Line B, Nayak P, Diebo B, Daniel AH, Gum JL, Hamilton K, Buell TJ, Soroceanu A, Scheer JK, Eastlack R, Mullin JP, Schoenfeld AJ, Mundis Jr GM, Hosogane N, **Yagi M**, Mummaneni PV, Chou D, Fu KM, Than KD, Anand N, Okonkwo DO, Wang MY, Klineberg E, Kebaish KM, Lewis S, Hostin R, Gupta M, Lenke LG, Kim HJ, Ames CP, Shaffrey CI, MD, Bess S, Schwab FJ, Lafage V, Burton D, ISSG. When is Staging Complex Adult Spinal Deformity Advantageous? Identifying Subsets of Patients Who Benefit from Staged Interventions. *J. Neurosurg Spine*. 2024 in press
10. Takeda K, Suzuki S, Ozaki M, Takahashi Y, Tsuji O, Nagoshi N, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Influence of slippage reduction and correction of lumbosacral kyphosis by single-level posterior lumbar interbody fusion on spinal alignment in patients with dysplastic spondylolisthesis. *Spine Deform*. 2024;12(6):1761-1772.
11. Passias, PG Jamshaid M, Pooja DR, Tretiakov P, Smith , Lafage R, Gum J, Line B, Diebo B, Daniels A, Protopsaltis T, Hamilton K, Buell T, Scheer J, Eastlack R, Mundis G, Hosogane N, **Yagi M**, Kelly M, Uribe J, Anand N, Mummaneni P, Chou D, Kebaish K, Lewis S, Gupta M, Kim HJ, Hart R, Lenke LG, Ames CP, Shaffrey CI, Schwab FJ, Lafage V, Hostin R, Bess S, Burton D, ISSGF. Factors Associated with the Maintenance of Cost-Effectiveness at 5 Years in Adult Spinal Deformity Corrective Surgery. *Spine* 2024;49(20):1401-1409.

12. **Yagi M**, Mizukoshi R, Fujita N, Funao H, Ebata S. Satisfaction following correction of spinal deformity: Cultural and regional effects on outcome. *N Am Spine Soc J*. 2024;18:100319.
13. Kawai M, **Yagi M**, Ozaki M, Suzuki S, Takahashi Y, Tsuji O, Nagoshi N, Matsumoto M, Nakamura M, Watanabe K. The effect of age-adjusted sagittal alignment on the result of posterior decompression surgery for lumbar spinal canal stenosis. *Spine*. 2023;49(14):1004-1011.
14. Yamanouchi K, Funao H, Fujita N, Ebata S, **Yagi M**. Safety and Efficacy of Tranexamic Acid in Spinal Surgery: A Systematic Review and Meta-Analysis 2023. *Spine Surg Relat Res*. 2023;8(3):253-266.
15. Kitagawa T, Suzuki S, Takeda K, Okubo T, Ozaki M, Takahashi Y, Tsuji O, Nagoshi N, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Pelvic Incidence As a Predictor of Proximal Junctional Kyphosis in Patients with Lenke type 5 Adolescent Idiopathic Scoliosis. *Spine*. 2024 in press
16. **Yagi M**, Yamanouchi K, Funao H, Ebata S. Proximal Junctional Failure in Adult Spinal Deformity Surgery: An In-depth Review. *Neurospine*. 2023 In press.
17. Morimoto T, Yamamoto Y, Suzuki S, **Yagi M**, Kobayashi T, Mawatari M, Matsumoto M, Watanabe K. Medicine Analysis of the sacroiliac joint vacuum phenomenon in adolescent thoracic idiopathic scoliosis (Lenke types 1 and 2). *Medicine* 2023;102(34):e34487.
18. Horiuchi Y, **Yagi M**, Suzuki S, Takahashi Y, Nori S, Tsuji O, Nagoshi N, Matsumoto M, Nakamura M, Watanabe K. Radiographical Results of Adolescent Idiopathic Scoliosis with Major Curve at Proximal Thoracic Spine. *Spine Surg Relat Res*. 2023;7(4):371-376.
19. **Yagi M**, Yamanouchi K, Funao H, Ebata S. Revolutionizing Spinal Care: Current Applications and Future Directions of Artificial Intelligence and Machine Learning. *J Clin Med*. 2023;12(13): 4188
20. **Yagi M**, Fujita N, Hasegawa T, Inoue G, Kotani Y, Ohtori S, Orita S, Oshima Y, Sakai D, Sakai T, Taneichi H, Togawa D, Nakanishi K, Nakashima H, Yoshii T, Nakamura M, Iwasaki M, Watanabe M, Haro H, Kanemura T, Hosogane N; New Technology Assessment Committee of The Japanese Society for Spine Surgery and Related Research. Nationwide Survey of the Surgical Complications Associated with Lateral Lumbar Interbody Fusion in 2015-2020. *Spine Surg Relat Res*. 2022 ;7(3):249-256.
21. Tsuji O, Nagoshi N, Suzuki S, Takahashi Y, Nori S, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Clinical Features of Recurrent Spinal Cord Tumors. *Spine Surg Relat Res*. 2022;7(3):225-234.

22. Kitamura K, Nagoshi N, Tsuji O, Suzuki S, Nori S, Okada E, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Remnant Tumor Margin as Predictive Factor for Its Growth After Incomplete Resection of Cervical Dumbbell-Shaped Schwannomas. *Neurospine*. 2022;19(1):32-40.
23. Okubo T, Nagoshi N, Tsuji O, Suzuki S, Takahashi Y, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Resection of Cervical Dumbbell-Shaped Schwannoma Using Posterior Unilateral Approach: Impact on Postoperative Cervical Function and Clinical Outcomes. *Global Spine J*. 2023;21925682231178205.
24. Koike I, Nori S, Suzuki S, Takahashi Y, Tsuji O, Nagoshi N, **Yagi M**, Watanabe K, Matsumoto M, Nakamura M. Acute Calcium Pyrophosphate Deposition at the Surgical Site after Posterior Lumbar Decompression. *Spine Surg Relat Res*. 2022;7(2):188-191.
25. Fujii T, Daimon K, Ozaki M, Suzuki S, Takahashi Y, Tsuji O, Nagoshi N, **Yagi M**, Michikawa T, Matsumoto M, Nakamura M, Watanabe K. 10-year Longitudinal MRI Study of Intervertebral Disk Degeneration in Patients With Lumbar Spinal Canal Stenosis After Posterior Lumbar Decompression Surgery. *Spine*. 2023;48(12):815-824.
26. Taneichi H, Kanemura T, Inoue G, Iwase Y, Ueda H, Kuzuhara A, Kurozumi T, Takahashi E, Takahashi H, Nakamae A, Hashiguchi H, Hiraizumi Y, Mae T, Morioka H, **Yagi M**, Sairenchi T, Nishiwaki Y, Inagaki T, Akiyama H, Nakashima Y. Current status and future prospects of the Japanese orthopaedic association national registry (JOANR), Japan's first national registry of orthopaedic surgery. *J Orthop Sci*. 2023;28(3):683-692.
27. **Yagi M**, Shimizu T, Suzuki S, Takahashi Y, Ozaki M, Tsuji O, Nagoshi N, Yato Y, Matsumoto M, Nakamura M, Watanabe K; Keio Spine Research Group. Long-Term Clinical, Radiographic, and Cost Analysis of Corrective Spine Surgery for Adult Symptomatic Lumbar Deformity With a Mean of 7.5 years Follow-Up. *Spine*. 2023;48(5):335-343.
28. Yamanouchi K, Takano S, Mima Y, Matsunaga T, Ohnishi K, Matsumoto M, Nakamura M, Shimono T, **Yagi M**. Validation of a surgical drill with a haptic interface in spine surgery. *Sci Rep*. 2023;13(1):598.
29. Kajikawa K, Nagoshi N, Tsuji O, Suzuki S, Ozaki M, Takahashi Y, **Yagi M**, Matsumoto M, Nakamura M, Watanabe K. Clinical and Imaging Characteristics of Non-Neoplastic Spinal Lesions: A Comparative Study with Intramedullary Tumors. *Diagnostics*. 2022;12(12):2969.
30. Yonezawa Y, Guo L, Kakinuma H, Otomo N, Yoshino S, Takeda K, Nakajima M, Shiraki T, Ogura Y, Takahashi Y, Koike Y, Minami S, Uno K, Kawakami N, Ito M, Yonezawa I, Watanabe K, Kaito T, Yanagida H, Taneichi H, Harimaya K, Taniguchi

Y, Shigematsu H, Iida T, Demura S, Sugawara R, Fujita N, **Yagi M**, Okada E, Hosogane N, Kono K, Chiba K, Kotani T, Sakuma T, Akazawa T, Suzuki T, Nishida K, Kakutani K, Tsuji T, Sudo H, Iwata A, Sato T, Inami S, Nakamura M, Matsumoto M, Terao C, Watanabe K, Okamoto H, Ikegawa S. Identification of a Functional Susceptibility Variant for Adolescent Idiopathic Scoliosis that Upregulates Early Growth Response 1 (EGR1)-Mediated UNCX Expression. *J Bone Miner Res.* 2023;38(1):144-153.

31. Neuman BJ, Wang KY, Harris AB, Raad M, Hostin RA, Protopsaltis TS, Ames CP, Passias PG, Gupta MC, Klineberg EO, Hart R, Bess S, Kebaish KM; International Spine Study Group. Return to work after adult spinal deformity surgery. *Spine Deform.* 2023;11(1):197-204.
32. Okubo T, **Yagi M**, Suzuki S, Takahashi Y, Nori S, Tsuji O, Nagoshi N, Matsumoto M, Nakamura M, Watanabe K. Cervical sagittal alignment is influenced by changes in thoracic and lumbar sagittal alignments after correction surgery in patients with lenke type 6 adolescent idiopathic scoliosis. *N Am Spine Soc J.* 2022;12:100166.
33. Fujita N, **Yagi M**, Yamada Y, Yokoyama Y, Yamada M, Watanabe K, Nakamura M, Nagura T, Jinzaki M. Changes in the lumbar intervertebral foramen between supine and standing posture in patients with adult spinal deformity: a study with upright computed tomography. *Skeletal Radiol.* 2023;52(2):215-224.
34. Aibara N, Watanabe K, Asano N, Suzuki S, Takahashi Y, Nori S, Tsuji O, Nagoshi N, **Yagi M**, Nakamura M, Matsumoto M. Bilateral Osteotomy of Pedicles for En Bloc Resection of a Malignant Tumor of the Posterior Thoracic Spine: A Case Report. *JBJS Case Connect.* 2022;12(3).
35. Mima Y, **Yagi M**, Suzuki S, Tsuji O, Nagoshi N, Okada E, Fujita N, Nakamura M, Matsumoto M, Watanabe K. Hidden blood loss in extreme lateral interbody fusion for adult spinal deformity. *J Orthop Sci.* 2022:S0949-2658(22)00014-8.
36. **Yagi M**, Michikawa T, Yamamoto T, Iga T, Ogura Y, Tachibana A, Miyamoto A, Suzuki S, Nori S, Okada E, Tsuji O, Nagoshi N, Kono H, Ogawa J, Nakamura M, Matsumoto M, Watanabe K. Development and Validation of Machine Learning-Based Predictive Model for Clinical Outcome of Decompression Surgery for Lumbar Spinal Canal Stenosis. *Spine J.* 2022;22(11):1768-1777.
37. Ueda H, Arima H, **Yagi M**, Kanemura T, Koda M, Yamada K, Matsuyama Y, Taneichi H. The development of a nation-wide, multicenter electronic database for spinal instrumentation surgery in Japan: Japanese Spinal Instrumentation Society-Database (JSIS-DB). *Healthcare.* 2021;10(1):78.
38. **Yagi M**, Suzuki S, Nori S, Okada E, Tsuji O, Nagoshi N, Nakamura M, Matsumoto M, Watanabe K. Sublaminar tethers significantly reduce the risk of proximal junctional

failure in surgery for severe adult spinal deformity – A propensity score matched analysis -. *Clin. Spine Surg.* 2022;2022;35(5):E496-E503.

39. Yamamoto T, **Yagi M**, Suzuki S, Takahashi Y, Nori S, Tsuji O, Nagoshi N, Ogawa J, Matsumoto M, Nakamura M, Watanabe K. Multilevel Decompression Surgery for Degenerative Lumbar Spinal Canal Stenosis is Similarly Effective with Single-level Decompression Surgery. *Spine.* 2022;47(24):1728-1736.
40. **Yagi M**, Hosogane N, Ames CP, Smith JS, Shaffrey CI, Schwab FJ, Lafage V, Bess S, Suzuki S, Nori S, Takahashi Y, Tsuji O, Nagoshi N, Nakamura M, Matsumoto M, Watanabe K, Improvement and international validation of the predictive probability of the patient demographics, radiographic index and surgical invasiveness for mechanical failure (PRISM) model for preventive procedures in adult spinal deformity surgery. *Spine.* 2022;47(9):680-690.
41. **Yagi M**, Suzuki S, Nori S, Okada E, Tsuji O, Nagoshi N, Nakamura M, Matsumoto M, Watanabe K. How decompression surgery improves the lower back pain in patient with lumbar degenerative stenosis-A propensity-score matched analysis-. *Spine.* 2021 in press
42. **Yagi M**, Ogiri M, Chantal HE, Bourcet A. Comparison of Clinical Effectiveness of Fenestrated and Conventional Pedicle Screws in Patients Undergoing Spinal Surgery: A Systematic Review and Meta-Analysis. *Expert Review of Medical Devices.* 2021;18(10):995-1022
43. **Yagi M**, Ames CP, Keefe M, Hosogane N, Smith JS, Shaffrey CI, Schwab FJ, Lafage V, Bess S, Matsumoto M, Watanabe K, International Spine Study Group (ISSG). Comparable satisfaction and clinical outcomes after surgery for adolescent idiopathic scoliosis in the adult (AISA) between the US and Japan. *J Orthop Sci.* 2021 S0949-2658(21)00286-4.
44. Fujita N, **Yagi M**, Watanabe K, Nakamura M, Matsumoto M, Yokoyama Y, Yamada M, Yamada Y, Nagura T, Jinzaki M. Determining the validity and reliability of spinopelvic parameters through comparing standing whole spinal radiographs and upright computed tomography images. *BMC musculoskeletal Disorders.* 2021;22(1):899
45. de Kleuver M, Faraj SSA, Haanstra TM, Wright AK, Polly DW, van Hooff ML, Glassman SD; COSSCO study group. The Scoliosis Research Society adult spinal deformity standard outcome set. *Spine Deform.* 2021;9(5):1211-1221.
46. **Yagi M**, Suzuki S, Nori S, Okada E, Tsuji O, Nagoshi N, Nakamura M, Matsumoto M, Watanabe K. How pre-operative motor weakness affects the extent of recovery after elective spine surgery in patients with degenerative lumbar spinal stenosis. *Spine.* 2021;46(16):1118-1127

47. **Yagi M**, Michikawa T, Suzuki S, Okada E, Suzuki S, Tsuji O, Nagoshi N, Asazuma T, Hosogane N, Fujita N, Nakamura M, Matsumoto M, Watanabe K; Keio Spine Research Group. Characterization of Patients with Poor Risk for Clinical Outcomes in Adult Symptomatic Lumbar Deformity Surgery. *Spine*. 2021;46(12):813-821.
48. **Yagi M**, Daimon K, Hosogane N, Okada E, Suzuki S, Tsuji O, Nagoshi N, Fujita N, Nakamura M, Matsumoto M, Watanabe K; Keio Spine Research Group. Predictive Probability of the Global Alignment and Proportion Score for the Development of Mechanical Failure Following Adult Spinal Deformity Surgery in Asian Patients. *Spine*. 2021;46(2):E80-E86.
49. Okada E, Ishihara S, Azuma K, Michikawa T, Suzuki S, Tsuji O, Nori S, Nagoshi N, **Yagi M**, Takayama M, Tsuji T, Fujita N, Nakamura M, Matsumoto M, Watanabe K. Metabolic Syndrome is a Predisposing Factor for Diffuse Idiopathic Skeletal Hyperostosis. *Neurospine*. 2021;18(1):109-116.
50. Ninomiya K, Yamane J, Aoyama R, Suzuki S, Shiono Y, Takahashi Y, Fujita N, Okada E, Tsuji O, **Yagi M**, Watanabe K, Iga T, Nakamura M, Matsumoto M, Ishii K, Nagoshi N. Clinical Effects of Anterior Cervical Spondylolisthesis on Cervical Spondylotic Myelopathy After Posterior Decompression Surgery: A Retrospective Multicenter Study of 732 Cases. *Global Spine J*. 2020
51. Tsuji O, Kosugi S, Suzuki S, Nori S, Nagoshi N, Okada E, Fujita N, **Yagi M**, Nakamura M, Matsumoto M, Watanabe K. Effectiveness of Duloxetine for Postsurgical Chronic Neuropathic Disorders after Spine and Spinal Cord Surgery. *Asian Spine J*. 2020
52. Nori S, Nagoshi N, Yoshioka K, Nojiri K, Takahashi Y, Fukuda K, Ikegami T, Yoshida H, Iga T, Tsuji O, Suzuki S, Okada E, **Yagi M**, Nakamura M, Matsumoto M, Watanabe K, Ishii K, Yamane J. Diabetes Does Not Adversely Affect Neurological Recovery and Reduction of Neck Pain After Posterior Decompression Surgery for Cervical Spondylotic Myelopathy: Results from a Retrospective Multicenter Study of 675 Patients. *Spine*. 2020
53. Yamamoto T, **Yagi M**, Suzuki S, Nori S, Tsuji O, Nagoshi N, Okada E, Fujita N, Nakamura M, Matsumoto M, Watanabe K. Limited Cost Benefit of Lateral Interbody Fusion (LIF) for Adult Spinal Deformity (ASD) Surgery. *Spine*. 2021;46(1):48-53.
54. Iwami T, **Yagi M**, Okada E, Suzuki S, Nori S, Tsuji O, Nagoshi N, Watanabe K, Fujita N, Nakamura M, Matsumoto M. A Rare Case of Proximal Junctional Failure with Delayed Infection after Adult Spinal Deformity Surgery: A Report of Two Cases. *Case Rep Orthop*. 2020;2020:8883828
55. Arima H, Ohba T, Kudo D, Shigematsu H, Kaito T, Saito W, Sudo H, Seki S, **Yagi M**, Ito M, Sakai D. Expert consensus on surgical treatment for adolescent idiopathic scoliosis in Japan. *J Orthop Sci*. 2020 Sep 18:S0949-2658(20)30250-5.

56. Okada E, Suzuki S, Nori S, Tsuji O, Nagoshi N, **Yagi M**, Fujita N, Nakamura M, Matsumoto M, Watanabe K. The effectiveness of chemonucleolysis with condoliase for treatment of painful lumbar disc herniation. *J Orthop Sci.* 2020:S0949-2658(20)30186-X.
57. **Yagi M**, Watanabe K. To the Editor We thank Dr. Ahmed Ansari for his Knowledgeable Comments on our Study. *Spine.* 2020;45(18):E1214.
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INTERNATIONAL PRESENTATIONS (SELECTED)

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2. **Yagi M**, Shimizu T, Suzuki S, Takahashi Y, Nori S, Tsuji O, Nagoshi N, Yato Y, Matsumoto M, Nakamura M, Watanabe K. Long-Term Clinical, Radiographic, and Cost Analysis of the Corrective Spine Surgery for Adult Symptomatic Lumbar Deformity at Mean 7.5-Year-Follow-Up. *Scoliosis Research Society* 2023. Russel Hibbs Award Nominee
3. Nori S, Nagoshi N, Yamane J, Aoyama R, Ishihara S, Fujiyoshi K, Shiono Y, Kitamura K, Ishikawa M, Suzuki S, Takahashi Y, Tsuji O, **Yagi M**, Ishii K, Matsumoto M, Nakamura M, Watanabe K. Influence of intervertebral level of stenosis on neurological recovery and reduction of neck pain after posterior decompression surgery for cervical

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4. **Yagi M.** Improvement of the patient demographics, radiographic index and surgical invasiveness for mechanical failure (PRISM) with prevention procedures of mechanical failures in adult spinal deformity surgery. *APSS-APOA* 2021
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13. **Yagi M**. Risk Stratification of Implant-related Complication in Adult Spinal Deformity Surgery. *Spring Annual Meeting of the Korean Society of Spine Surgery* 2020
14. **Yagi M**. Treatment for Frailty Does Not Improve Complication Rates in Corrective Surgery for Adult Spinal Deformity. *Korean Society of Spine Surgery* 2020
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59. Okada E, Watanabe K, **Yagi M**, Kaneko S, Toyama Y, Matsumoto M. Spinal Fractures in Patients with Diffused Idiopathic Skeletal Hyperostosis. *International Society for the Study of the Lumbar* 2014
60. **Yagi M**, Boachie-Adjei O. Characterization and Surgical Outcomes of Proximal Junctional Failure (PJF) in Surgically Treated Adult Spine Deformity Patients. *Scoliosis Research Society* 2013
61. **Yagi M**, Sacramento C, Kim HJ, Boachie-Adjei O, FOCOS associates. Incidence and the risk factors of major surgical complication in patients with complex spine deformity. A report from an SRS GOP site. *Scoliosis Research Society* 2013

62. **Yagi M**, Takemitsu M, Machida M. Targeting the genomic locus of familial idiopathic scoliosis. *Scoliosis Research Society* 2013
63. **Yagi M**, Nagoshi N, Fujiyoshi K, Iizuka S, Kaneko S, Fukuda K, Takemitsu M, Machida M, Shioda M. Does the Intra-Operative Tranexamic Acid Decrease Operative Blood Loss During Posterior Spinal Fusion for Treatment of Adolescent Idiopathic Scoliosis? *International Society for the Study of the Lumbar* 2012
64. **Yagi M**, Nagoshi N, Fujiyoshi K, Iizuka S, Kaneko S, Fukuda K, Takemitsu M, Machida M, and Shioda M. Does the Intra-Operative Tranexamic Acid Decrease Operative Blood Loss During Posterior Spinal Fusion for Treatment of Adolescent Idiopathic Scoliosis? *International Meeting of Advanced Spine Technology* 2012
65. **Yagi M**, Nagoshi N, Fujiyoshi K, Iizuka S, Kaneko S, Fukuda K, Takemitsu M, Machida M, Shioda M. Does the Intra-Operative Tranexamic Acid Decrease Operative Blood Loss During Posterior Spinal Fusion for Treatment of Adolescent Idiopathic Scoliosis? *North American Spine Society* 2012
66. **Yagi M**, King A, Cunningham M, Boachie-Adjei O. Long Term Clinical and Radiographic Outcomes of Pedicle Subtraction Osteotomy for Fixed Sagittal Imbalance: Does Level of Proximal Fusion Affect The Outcome? -Minimum 5years follow-up- *International Meeting of Advanced Spine Technology* 2012
67. Boachie-Adjei O, Hess W, Woo R, Rahm M, Gaines R, Trammell T, Mhaidli H Sanchez Perez-Grueso F, Ross T, **Yagi M**, and Complex Spine Study Group. Surgical Characteristics, Perioperative and Early Post-Operative Complications in Adult Idiopathic Scoliosis and Adult Scheuermann's Kyphosis: A Prospective Multi-Center Study *International Meeting of Advanced Spine Technology* 2012
68. Boachie-Adjei O, Hess W, Woo R, Rahm M, Gaines R, Trammell T, Mhaidli H Sanchez Perez-Grueso F, Ross T, **Yagi M**, and Complex Spine Study Group. Pre-Operative Health-Related Quality of Life (HRQOL) in Scheuermann's Kyphosis Patients and Idiopathic Scoliosis Patients who underwent Surgical Fusion as an Adult *International Meeting of Advanced Spine Technology* 2012
69. Boachie-Adjei O, Hess W, Woo R, Rahm M, Gaines R, Trammell T, Mhaidli H Sanchez Perez-Grueso F, Ross T, **Yagi M**, and Complex Spine Study Group. A Comparative Analysis of Perioperative Complications in Patients Undergoing Spinal Fusion for Adolescent Idiopathic Scoliosis and Adolescent Scheuermann's Kyphosis. *International Meeting of Advanced Spine Technology* 2012
70. Boachie-Adjei O, Hess W, Woo R, Rahm M, Gaines R, Trammell T, Mhaidli H Sanchez Perez-Grueso F, Ross T, **Yagi M**, and Complex Spine Study Group. Quality of Life Differential in Adolescent vs Adult Patients Undergoing Surgery for Scheuermann's Kyphosis. *International Meeting of Advanced Spine Technology* 2012

71. Kaneko S, **Yagi M**, Nagoshi N, Fujiyoshi K, Iizuka S, Fukuda K, Takemitsu M, Machida M, Shioda M. Anterior Spinal Reconstruction Surgery with Iliac Autograft for Osteoporotic Vertebral Collapse for Patients with Adjacent Old Vertebral Fractures. *International Meeting of Advanced Spine Technology* 2012
72. Kaneko S, **Yagi M**, Nagoshi N, Fujiyoshi K, Iizuka S, Fukuda K, Takemitsu M, Machida M, and Shioda M. Evaluation of Kyphosis Correction and Correction Loss by Anterior Spinal Fusion for the Patients of Tubercular Spondylitis. *International Meeting of Advanced Spine Technology* 2012
73. Hosogane N, Watanabe K, **Yagi M**, Kaneko S, and Matsumoto M. Gastroesophageal reflux disease in degenerative lumbar kyphoscoliosis. *International Meeting of Advanced Spine Technology* 2012
74. **Yagi M**, Kaneko S, Nagoshi N, Fujiyoshi K, Iizuka S, Fukuda K, Takemitsu M, Machida M, Shioda M. Does the Intra-Operative Tranexamic Acid Decrease Operative Blood Loss During Posterior Spinal Fusion for Treatment of Adolescent Idiopathic Scoliosis. *The 41st Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2012
75. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors, and Clinical Outcome of Proximal Junctional Kyphosis for Patients with Adult Idiopathic Scoliosis: Minimum 2 Year Follow-Up. *The 41st Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2012
76. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors, and Clinical Outcome of Proximal Junctional Kyphosis for Patients with Adult Idiopathic Scoliosis: Minimum 2 Year Follow-Up. *The 45th Annual Meeting of the Japanese Scoliosis Society* 2011
77. **Yagi M**, King A, and Boachie-Adjei O. Incidence, Risk Factors, and Clinical Outcome of Proximal Junctional Kyphosis for Patients with Adult Idiopathic Scoliosis: Minimum 2 Year Follow-Up. *The 40th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2011
78. **Yagi M**, King A, Cunningham M, Boachie-Adjei O. Complications and Unfavorable Clinical Outcomes in Obese and Overweight Patients Treated for Adult Lumbar or Thoracolumbar Scoliosis with Combined Anterior/Posterior Surgery. *North American Spine Society* 2011
79. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors, and Clinical Outcome of Proximal Junctional Kyphosis for Patients with Adult Idiopathic Scoliosis: Minimum 5 Year Follow-Up. *North American Spine Society* 2011
80. **Yagi M**, King A, Cunningham M, and Boachie-Adjei O. Outcome of revision surgery in pediatric spine deformity patients. *American Academy of Orthopedic Surgery* 2011

81. **Yagi M**, King A, Cunningham M, and Boachie-Adjei O. Complications and Unfavorable Clinical Outcomes in Obese and Overweight Patients Treated for Adult Lumbar or Thoracolumbar Scoliosis with Combined Anterior/Posterior Surgery. *International Meeting of Advanced Spine Technology* 2011
82. Kebaish K, Boachie-Adjei O, King A, **Yagi M**, Skolasky, R, and Kostuik J. The Effect of Prophylactic Vertebroplasty on the Incidence of Proximal Junctional Kyphosis Following Long Posterior Spinal Fusion in Adult Spinal Deformity: A Case Control Study. *International Meeting of Advanced Spine Technology* 2011
83. Kim HJ, Cunningham M, Boatey J, Mendelow M, Hess WF, Paonessa K, King A, **Yagi M**, Boachie-Adjei O, Complex Spine Study Group and FOCOS. Infection Rates for Spine Surgery in Underserved and Underdeveloped Nations: A Review of a Consecutive Series in a SRS Global Outreach Program in Africa. *International Meeting of Advanced Spine Technology* 2011
84. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors, and Clinical Outcome of Proximal Junctional Kyphosis for Patients with Adult Idiopathic Scoliosis: Minimum 5 Year Follow-Up. *Scoliosis Research Society* 2011
85. Boachie-Adjei O, **Yagi M**, King A, Cunningham ME. Clinical and Radiographic Outcomes of Pedicle Subtraction Osteotomy (PSO) for Fixed Adult Sagittal Imbalance: Does Level of Proximal Fusion Affect Outcome? *Scoliosis Research Society* 2011
86. **Yagi M**, King A, Boachie-Adjei O. Clinical Case Review of Complex spine deformity in Adult Idiopathic Scoliosis. *Complex Spine Study Group Meeting*. 2011
87. **Yagi M**, King A, Boachie-Adjei O. Characterization of osteopenia/osteoporosis in adult scoliosis. Does bone density affect surgical outcome? *Scoliosis Research Society* 2010
88. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors and Classification of Proximal Junctional Kyphosis: Surgical Outcomes Review of Adult Idiopathic Scoliosis. *Scoliosis Research Society* 2010
89. **Yagi M**, King A, Cunningham M, Boachie-Adjei O. Outcome of revision surgery in pediatric spine deformity patients. *International Meeting of Advanced Spine Technology* 2010
90. **Yagi M**, King A, Boachie-Adjei O. Characterization of osteopenia/osteoporosis in adult scoliosis. Does bone density affect surgical outcome? *International Meeting of Advanced Spine Technology* 2010

91. **Yagi M**, King A, Boachie-Adjei O. Incidence, Risk Factors and Classification of Proximal Junctional Kyphosis: Surgical Outcomes Review of Adult Idiopathic Scoliosis. *Complex Spine Study Group Meeting*. 2010
92. **Yagi M**, Okada E, Ninomiya K, Horiuchi Y, Kihara M. Long-term Surgical Outcome and Risk Factors for Cervical Myelopathy Patients with Intramedullary Spinal Cord Change in Signal Intensity on Magnetic Resonance Imaging. *Spine across the sea* 2009
93. Ninomiya K, **Yagi M**, Okada E, Horiuchi Y, Kihara M. Prevalence Outcomes and Risk Factors of adjacent disc degeneration after posterior spinal fusion. *The 38th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2009
94. Okada E, **Yagi M**, Ninomiya K, Horiuchi Y, Kihara M. Does Post Operative Antibiotics Treatment Affect the Infection Ratio? *The 38th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2009
95. **Yagi M**, Okada E, Ninomiya K, Horiuchi Y, Kihara M. Long-term surgical outcome and risk factors for cervical myelopathy patients with intramedullary spinal cord change in signal intensity on magnetic resonance imaging. *The 38th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2009
96. **Yagi M**, Okada E, Ninomiya K, Horiuchi Y, Kihara M. Postoperative outcome after a modified unilateral-approach microendoscopic midline decompression for degenerative spinal stenosis. *The 38th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2009
97. **Yagi M**, Okada E, Ninomiya K, Horiuchi Y, Kihara M. Long-term Surgical Outcome and Risk Factors for Cervical Myelopathy Patients with Intramedullary Spinal Cord Change in Signal Intensity on Magnetic Resonance Imaging. *The 38th Annual Meeting of the Japanese Society for Spine Surgery and Related Research* 2009
98. **Yagi M**, Miyamoto T, Toyama Y, Suda T. Role of DC-STAMP in cellular fusion of osteoclasts and macrophage giant cells. *The American Society for Bone and Mineral Research Annual Meeting* 2006
99. Fujita N, Miyamoto T, Hosogane N, **Yagi M**, Chiba K, Watanabe S, Toyama Y, Suda T. CD24 is expressed specifically in the nucleus pulposus of intervertebral discs. *The American Society for Bone and Mineral Research Annual Meeting* 2005
100. **Yagi M**, Miyamoto T, K, Hosogane N, Fujita N, Miyamoto K, Toyama Y, and Suda T. DC-STAMP is essential for cell-cell fusion in osteoclasts and foreign body giant cells. *The American Society for Bone and Mineral Research Annual Meeting* 2005

INTERNATIONAL INVITED LECTURES

1. **Yagi M.** In order to achieve success in ASD surgery. *Scoliosis Research Society WorldWide Course*. 2024
2. **Yagi M** Optimizing my Complex Adult Deformity Patient. *59th Scoliosis Research Society*. 2024
3. **Yagi M** The Role of Machine Learning and AI Applied to ASD. *59th Scoliosis Research Society*. 2024
4. **Yagi M** Risk stratification and prediction for mechanical failure in ASD surgery. *7th Asia Pacific Spine Society*. 2024
5. **Yagi M** The current recommendations and indications for the surgical treatment of lumbar degenerative diseases in elderly patients. *JOA/AAOS combined symposium*. 2024
6. **Yagi M** Perioperative Pharmacological Treatment for Osteoporotic Spinal Deformity Including Japan *31st International Meeting of Advanced Spinal Techniques (IMAST)*. 2024.
7. **Yagi M.** Osteoporosis in Spine Trauma Surgery. *2nd Osteoporosis Forum*. 2024.
8. **Yagi M.** How to avoid junctional problems (PJK/DJK) in a long construct. *2nd Osteoporosis Forum*. 2024.
9. **Yagi M.** Spinal Deformity Surgery in Japan. *Scoliosis Research Society*. 2023
10. **Yagi M.** The Impact of Poor Bone Quality on Outcomes Following ASD Surgery. *Scoliosis Research Society*. 2023
11. **Yagi M.** Operating on a Patient with Poor Bone Health - Pearls and Pitfalls. *Scoliosis Research Society*. 2023
12. **Yagi M.** Patient selection, surgical planning for adult spinal deformity. *Korean Spinal Deformity Society Webinar* 2023.
13. **Yagi M.** How to Reduce Complication Rates: PJK and Revision Surgery. *Scoliosis Research Society Global Current Concepts in Spine Deformity Course*. 2021
14. **Yagi M.** DECIDING FUSION LEVELS IN SCOLIOSIS SURGERY -Selection of LIV and Adding On -. *7th Pune spine weekend - Meet the masters Conference* 2021
15. **Yagi M.** Proximal Junctional Kyphosis/Failure. *1st International Joint Meeting of KSNS & WSCS, Annual SMISS-AP Meeting* 2021
16. **Yagi M.** How to correct severe deformity in adults. *APSS-APOA* 2021

17. **Yagi M.** How to reduce implant-related complication rates, pseudo, and revision surgery in adult spinal deformity surgery. *Spine Across the Sea* 2021
18. **Yagi M.** Definition, Classification, Incidence, and Clinical Significance of PJK/PJF *Scoliosis Research Society Webinar PJK Prevention in ASD: How Do We Mitigate the Risk?* 2021
19. **Yagi M.** Current Concept of Adult Spinal Deformity. *Asia Pacific Spine Society.* Basic Course 2019
20. **Yagi M.** Surgical Technique and Pitfalls in ASD surgery. *Asia Pacific Spine Society.* Basic Course 2019
21. **Yagi M.** Selection of LIV and Adding On. *Asia Pacific Spine Society.* 2018
22. **Yagi M.** Proximal Junctional Failure: Prevention and Managements. *Asia Pacific Spine Society.* 2018
23. **Yagi M.** Role of limited fusion in de novo scoliosis. *Scoliosis Research Society.* World Wide Course 2017
24. **Yagi M.** Adult scoliosis Alignment and Junctional pathology PJK/PJF. *Scoliosis Research Society.* World Wide Course 2017
25. **Yagi M.** Alignment and Junctional pathology PJK/PJF. *Scoliosis Research Society.* 2017
26. **Yagi M.** Adult scoliosis Prevention strategies of PJK. *Scoliosis Research Society.* 2016
27. **Yagi M, Kaneko S, Yato Y, Asazuma T, Matsumoto M.** Adult Spinal Deformity, PI-LL mismatch: Indication and Surgery Method for Post Traumatic Kyphosis. *Japan Orthopedic Association Annual meeting international symposium* 2016
28. **Yagi M.** Adult Spinal Deformity; Diagnosis and the Treatment. *55th Hiroshima Spine and Spinal cord Seminar.* 2015
29. **Yagi M.** Does prophylactic use of Forteo decrease the incidence of PJF in ASD? *15th Hibbs Society.* 2014
30. **Yagi M.** The classification of PJK/PJF based on the pathogenesis. *15th Hibbs Society.* 2014
31. **Yagi M.** Current Concept of PJK/PJF-Special Invited Expert. *14th Hibbs Society* 2013

32. **Yagi M**, Boachie-Adjei O. Proximal Junctional Kyphosis. Characterization, natural course, and the risk factors - a clinical review-. *13rd Hibbs Society* 2012