

# CURRICULUM VITAE

**Irene Kim MD**

**Assistant Professor  
Department of Neurosurgery  
Division of Pediatric Neurosurgery**

**OFFICE ADDRESS:**

Children's Corporate Center  
999 N 92 St  
Milwaukee, WI 53226

**EDUCATION:**

08/2001 - 05/2005 B.S. Biochemistry, Indiana University, Bloomington, IN  
08/2001 - 05/2005 B.S. Biology, Indiana University, Bloomington, IN  
08/2001 - 05/2005 B.S. Psychology, Indiana University, Bloomington, IN  
07/2003 - 11/2003 University of Adelaide, Adelaide, Australia  
01/2004 - 05/2004 University College London, London, England  
08/2005 - 05/2009 M.D., Duke University School of Medicine, Durham, NC

**POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

07/2009 - 06/2016 Residency, Neurological Surgery, New York University School of Medicine, New York, NY  
07/2016 - 06/2017 Fellowship, Pediatric Neurosurgery, University of Alabama at Birmingham / Children's of Alabama, Birmingham, AL

**FACULTY APPOINTMENTS:**

09/2017 - Present Assistant Professor, Neurosurgery, Pediatric Neurosurgery, Medical College of Wisconsin, Milwaukee, WI

**EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:**

07/01/2018 - Present Site Director, Children's Wisconsin, Neurosurgery Residency Program, Medical College of Wisconsin

**HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

01/01/2023 - Present Co-Director, Head Shape Program, Children's Wisconsin

**HOSPITAL STAFF PRIVILEGES:**

09/2017 - Present Neurosurgery, Children's Hospital of Wisconsin, Milwaukee, WI  
09/2017 - Present Neurosurgery, Froedtert Hospital, Milwaukee, WI

**SPECIALTY BOARDS AND CERTIFICATION:**

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Neurological Surgery	05/07/2021	12/31/2031
American Board of Pediatric Neurological Surgery (Recognition of Focused Practice (RFP) in Pediatric Neurological Surgery)	06/12/2021	12/31/2031

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
Comprehensive Training Program in Gamma Knife Radiosurgery	Center for Advanced Radiosurgery, New York University Langone Medical Center	06/2016	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
New York	270731	06/13/2013	04/30/2025
Alabama	35065	04/20/2016	12/31/2017
Wisconsin	67679-20	07/19/2017	10/31/2025

**AWARDS AND HONORS:**

- 08/2001 - 05/2005 Wells Scholarship, Indiana University
- 10/2004 Howard Hughes Medical Institute Capstone Independent Research Opportunities Program Award, Indiana University
- 2005 Excellence in Research Award, Indiana University Department of Psychology
- 03/2017 Presentation Award, 3rd Place, Third World Congress on Spina Bifida Research & Care
- 2023 - 2024 Nominated and selected for MCW Leadership Academy, Medical College of Wisconsin (MCW) / University of Wisconsin Milwaukee (UWM) Sheldon B. Lubar School of Business Executive Programs

**MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

- 2017 - Present Congress of Neurological Surgeons
- 2017 - Present American Association of Neurological Surgeons
- 2021 - Present AANS/CNS Section on Pediatric Neurological Surgery
- 2022 - Present American Society of Pediatric Neurosurgeons
- 2023 - Present International Society for Pediatric Neurosurgery

**EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

- Editorial Board
  - 05/2021 - Present Journal of Neurosurgery: Case Lessons
- Ad-Hoc Reviewer
  - 2023 - Present Journal of Neurosurgery: Pediatrics

**NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

- 12/2020 Judge for Bobby Jones Chiari and Syringomyelia Foundation Award, 2020 Annual Meeting, AANS/CNS Section on Pediatric Neurological Surgery
- 2021 - 2023 Co-Chair, Membership Committee, AANS/CNS Section on Pediatric Neurological Surgery
- 05/2022 - 07/2022 Abstract Reviewer, 2022 Annual Meeting, Congress of Neurological Surgeons
- 10/2022 Session Moderator, "Fetal Repair of Myelomeningoceles--What Have We Learned in the Past Decade", 2022 Annual Meeting, Congress of Neurological Surgeons
- 10/2022 Session Moderator, "My Worst Complication in Pediatric Neurosurgery", 2022 Annual Meeting, Congress of Neurological Surgeons
- 12/2022 Judge for Bobby Jones Chiari and Syringomyelia Foundation Award, 2022 Annual Meeting, AANS/CNS Section on Pediatric Neurological Surgery
- 2023 - 2025 Advisor, Membership Committee, AANS/CNS Section on Pediatric Neurological Surgery

**INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

- 2023 - Present Education Committee, International Society for Pediatric Neurosurgery

**INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

**Local**

- Kim I, Head Injuries in the Pediatric Patient, Pediatric Emergency Medicine Grand Rounds, Children's Wisconsin / Medical College of Wisconsin, Milwaukee, WI, 06/26/2019
- Kim I, Hydrocephalus: What Pediatric Surgeons Should Know, Pediatric Surgery Grand Rounds, Children's Wisconsin / Medical College of Wisconsin, Milwaukee, WI, 09/30/2021
- Kim I, Neurosurgical Emergencies, Pediatric Residency Noon Conference, Children's Wisconsin / Medical College of Wisconsin, Milwaukee, WI, 03/25/2022
- Kim I, Neurosurgical Emergencies, Pediatric Emergency Medicine Fellowship Education Lecture Series, Children's Wisconsin / Medical College of Wisconsin, Milwaukee, WI, 04/27/2022

## **PEER REVIEWED WORKSHOPS/PRESENTATIONS:**

### **National**

- Kim I, Harrison AM, Betts J, Killen J, Backensto E, Parks P, Goyal M, Kankirawatana P, Singh R, Rozzelle CJ, Blount JP, Multimodality Imaging for Intracranial Electrode Implantation in Epilepsy Surgery, 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, 12/05/2016 - 12/08/2016
- Kim I, Hopson B, Rizk E, Dias M, Bowman R, Ackerman L, Partington M, Castillo H, Castillo J, Peterson P, Blount JP, Rocque BG, Chiari II decompression in patients with myelomeningocele in the National Spina Bifida Patient Registry (NSBPR), 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, 12/05/2016 - 12/08/2016
- Kim I, Hopson B, Rizk E, Dias M, Bowman R, Ackerman L, Partington M, Castillo H, Castillo J, Peterson P, Blount JP, Rocque BG, Treated hydrocephalus in patients with myelomeningocele in the National Spina Bifida Patient Registry (NSBPR), 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, 12/06/2016
- Kim I, Hopson B, Rizk E, Dias M, Bowman R, Ackerman L, Partington M, Castillo H, Castillo J, Peterson P, Blount JP, Rocque BG, Treated hydrocephalus in patients with myelomeningocele in the National Spina Bifida Patient Registry (NSBPR), Third World Congress on Spina Bifida Research & Care, San Diego, CA, 03/17/2017
- Kim I, Hopson B, Rizk E, Dias M, Bowman R, Ackerman L, Partington M, Castillo H, Castillo J, Peterson P, Blount JP, Rocque BG, Chiari II decompression in patients with myelomeningocele in the National Spina Bifida Registry (NSBPR), Third World Congress on Spina Bifida Research & Care, San Diego, CA, 03/17/2017
- Kim I, Lew SM, Augmentation of Occiput-C2 Posterior Spinal Instrumentation with C1 Sublaminar-Graft Cabling, Congress of Neurological Surgeons 2018 Annual Meeting, Houston, TX, 10/06/2018 - 10/10/2018
- Lew SM, Marshly A, Koop J, Kim I, Multiple hippocampal transection in pediatric epilepsy--early experience and short-term seizure and neuropsychological outcomes, 47th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Nashville, TN, 12/06/2018 - 12/09/2018
- Lepard JR, Rozzelle CJ, Bollo RJ, O'Neill BR, Lew SM, Kim I, Blount JP, Developing a de novo stereotactic electroencephalography (SEEG) program: A multi-institutional pediatric experience, 47th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Nashville, TN, 12/08/2018
- Kim I, Kaiser K, Duesing LA, Jensen JN, Foy AB, Kaufman BA, Lew SM, Transfusions in surgical repair of craniosynostosis, 42nd Annual Meeting American Society of Pediatric Neurosurgeons, Kauai, HI, 01/29/2019
- Marshly M, Loman M, Koop J, Kim I, Lew SM, Examining the utility of resective epilepsy surgery in children with Electrical Status Epilepticus in Sleep: Long term clinical and electrophysiological outcome, 2019 Annual Meeting of the American Epilepsy Society, Baltimore, MD, 12/06/2019 - 12/10/2019
- Barkley A, Arynchyna-Smith A, Shamblin I, Slingerland A, Papadakis J, Staulcup SJ, Best B, Fehnel K, Hankinson T, Kim I, Thompson E, Rocque BG, Hydrocephalus operative volume during the COVID-19 pandemic, 50th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Salt Lake City, UT, 12/08/2021
- Best B, Massman L, Derflinger T, Matthews A, Feller C, Porwal M, Zwienenberg M, Foy AB, Kaufman BA, Kim I, Lew SM, Can CXA and PBC2 predict the need for occipitocervical fusion in pediatric Chiari patients?, 50th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Salt Lake City, UT, 12/10/2021
- Best B, Cabacungan E, Cohen C, Kim I, Sherburne E, Sawin K, Roach A, Foy AB, Trends in the Early Care

- of Infants with Myelomeningocele in the United States 2012-2018, Congress of Neurological Surgeons 2022 Annual Meeting, San Francisco, CA, 10/08/2022 - 10/12/2022
- Best B, Kim I, Lew, SM, MRI-guided LITT for Complete Corpus Callosotomy: Technique and 1-year Outcomes, Congress of Neurological Surgeons 2022 Annual Meeting, San Francisco, CA, 10/08/2022 - 10/12/2022
- Sawdy R, Farias-Moeller R, Kim I, Balakrishnan B, Narayan S, Rajzer-Wakeham K, Kelly T, Nallamotheu R, Rehborg R, Mehta N, A Retrospective Descriptive Analysis of Mortality in Pediatric Neurocritical Care, Neurocritical Care Society 20th Annual Meeting, San Antonio, TX, 10/17/2022 - 10/21/2022
- Lundy P, Barkley A, Arynchyna-Smith A, Thrower J, Stewart A, Dziugan K, Hall K, Shrestha K, Staulcup S, Best B, Yea J, Park C, Sexton D, Slingerland A, Papadakis J, Wisor-Martinez S, Lam S, Hauptman J, Hankinson T, Kim I, Jackson E, Thompson E, Fehnel K, Bauer D, Akbari SH, Rocque B, Influence of the COVID-19 pandemic on incidence of CSF diversion procedures for hydrocephalus: nationally representative multi-center study, 51st Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Washington, D.C., 12/02/2022
- Best BJ, Cabacungan E, Cohen S, Kim I, Sherburne E, Sawin KJ, Roach A, Foy A, Trends in the early care of infants with myelomeningocele in the United States 2012-2018, 2023 World Congress on Spina Bifida Research & Care, Tuscon, AZ, 03/24/2023
- Joyal F, Koop J, Nader A, Farias-Moeller R, Kim I, Lew S, Examination of variability in predicted outcomes of epilepsy surgery in multi-disciplinary consensus conference, 2024 Annual Meeting of the American Epilepsy Society, Los Angeles, CA, 12/06/2024 - 12/10/2024

**Local**

- Kim I, Keir ST, Zeidner J, Gasinski D, Kurtzberg J, Bigner DD, Friedman HS, Effect of Bevacizumab Plus Temozolomide Against Malignant Glioma and Medulloblastoma Xenografts, Alpha Omega Alpha 39th Annual Scientific Research Symposium, Duke University School of Medicine, Durham, NC, 08/2008
- Kim I, Hopson B, Rizk E, Dias M, Bowman R, Ackerman L, Partington M, Castillo H, Castillo J, Peterson P, Blount JP, Rocque BG, Chiari II decompression in patients with myelomeningocele in the National Spina Bifida Registry (NSBPR), 33rd Annual J. Garber Galbraith Scientific Session and Lecture, University of Alabama at Birmingham, Birmingham, AL, 11/11/2016

**COMMITTEE SERVICE:**

**Medical College of Wisconsin**

- 11/2021 - 05/2022 Surgeon-in-Chief Search Committee, Children's Wisconsin
- 01/2023 - 10/2023 Pediatric Hematology, Oncology & BMT Chief Search Committee, Children's Wisconsin
- 11/2023 - 04/2024 Pediatric Emergency Medicine Chief Search Committee, Children's Wisconsin

**Hospital**

- 01/2018 - Present Surgical Quality Improvement Review Team (SQIRT), Children's Wisconsin
- 03/2018 - 10/2019 MCIP Surgery / OR Work Group, Children's Wisconsin
- 11/2018 - Present Medical Economics & Outcomes Committee, Children's Wisconsin
- 04/2019 - Present Professional Review Committee, Children's Wisconsin
- 07/2020 - Present Surgical Site Infection Oversight Team, Children's Wisconsin
- 09/2022 - 11/2022 Medical Staff Nominating Committee, Children's Wisconsin
- 04/2023 - Present Surgery At Large Member, Medical Executive Committee, Children's Wisconsin

**PROGRAMMATIC DEVELOPMENTS:**

**Clinical Programs**

- 01/01/2023 - Present Co-founder, Head Shape Program, Children's Wisconsin

## **LEADERSHIP DEVELOPMENT:**

2023 - 2024 Nominated and selected for MCW Leadership Academy, a collaborative program between Medical College of Wisconsin (MCW) and the University of Wisconsin Milwaukee (UWM) Sheldon B. Lubar School of Business Executive Programs

## **BIBLIOGRAPHY**

### **Refereed Journal Publications/Original Papers**

1. Kim I, Wilson RE, Wellman CL. Aging and cholinergic deafferentation alter GluR1 expression in rat frontal cortex. *Neurobiol Aging*. 2005 Jul;26(7):1073-81.
2. Garrett JE, Kim I, Wilson RE, Wellman CL. Effect of N-methyl-d-aspartate receptor blockade on plasticity of frontal cortex after cholinergic deafferentation in rat. *Neuroscience*. 2006 Jun 19;140(1):57-66.
3. Shekhtman Y, Kim I, Riviello JJ Jr, Milla SS, Weiner HL. Focal resection of leptomeningeal angioma in a rare case of Sturge-Weber syndrome without facial nevus. *Pediatr Neurosurg*. 2013;49(2):99-104.
4. Kondziolka D, Shin SM, Brunswick A, Kim I, Silverman JS. The biology of radiosurgery and its clinical applications for brain tumors. *Neuro Oncol*. 2015 Jan;17(1):29-44. PMID: PMC4483054
5. Pacione D, Kim I, Wilson TA, Frempong-Boadu A. Cortical screw trajectory for instrumentation and fusion in the setting of osteopathic compression fracture allows for percutaneous kyphoplasty for adjacent level compression fractures. *J Clin Neurosci*. 2015 May;22(5):899-904.
6. Kim I, Hopson B, Aban I, Rizk EB, Dias MS, Bowman R, Ackerman LL, Partington MD, Castillo H, Castillo J, Peterson PR, Blount JP, Rocque BG. Treated hydrocephalus in individuals with myelomeningocele in the National Spina Bifida Patient Registry. *J Neurosurg Pediatr*. 2018 Dec 01;22(6):646-651. PMID: PMC8927992
7. Kim I, Hopson B, Aban I, Rizk EB, Dias MS, Bowman R, Ackerman LL, Partington MD, Castillo H, Castillo J, Peterson PR, Blount JP, Rocque BG. Decompression for Chiari malformation type II in individuals with myelomeningocele in the National Spina Bifida Patient Registry. *J Neurosurg Pediatr*. 2018 Dec 01;22(6):652-658. PMID: PMC8934589
8. Marashly A, Koop J, Loman M, Kim I, Maheshwari M, Lew SM. Multiple hippocampal transections for refractory pediatric mesial temporal lobe epilepsy: seizure and neuropsychological outcomes. *J Neurosurg Pediatr*. 2020 Oct 01;26(4):379-388.
9. Koop JI, Credille K, Wang Y, Loman M, Marashly A, Kim I, Lew SM, Maheshwari M. Determination of language dominance in pediatric patients with epilepsy for clinical decision-making: Correspondence of intracarotid amobarbital procedure and fMRI modalities. *Epilepsy Behav*. 2021 Aug;121(Pt A):108041.
10. Balakrishnan B, VanDongen-Trimmer H, Kim I, Hanson SJ, Zhang L, Simpson PM, Farias-Moeller R. GCS-Pupil Score Has a Stronger Association with Mortality and Poor Functional Outcome than GCS Alone in Pediatric Severe Traumatic Brain Injury. *Pediatr Neurosurg*. 2021;56(5):432-439.
11. Lepard JR, Kim I, Arynchyna A, Lew SM, Bollo RJ, O'Neill BR, Perry MS, Donahue D, Smyth MD, Blount J. Early implementation of stereoelectroencephalography in children: a multiinstitutional case series. *J Neurosurg Pediatr*. 2021 Dec 01;28(6):669-676.
12. King JA, Rodriguez B, Kim I, Nimmer M, Nelson LD, Szabo A, Dong H, Thomas D. Incidence of Neck Pain in Patients With Concussion in a Pediatric Emergency Department. *Pediatr Emerg Care*. 2022 Apr 01;38(4):e1185-e1191. PMID: PMC8934308
13. Best BJ, Kim I, Lew SM. Magnetic resonance imaging-guided laser interstitial thermal therapy for complete corpus callosotomy: technique and 1-year outcomes. Patient series. *J Neurosurg Case Lessons*. 2022 Dec 19;4(25). PMID: PMC9764374
14. Best BJ, Cabacungan ET, Cohen SS, Kim I, Sherburne EC, Sawin KJ, Roach A, Foy AB. Trends in the early care of infants with myelomeningocele in the United States 2012-2018. *Childs Nerv Syst*. 2023 Sep;39(9):2413-2421.
15. Carlton K, Adams S, Fischer E, Foy A, Heffelfinger A, Jozwik J, Kim I, Koop J, Miller L, Stibb S, Cohen S. HOPE and DREAM: A Two-Clinic NICU Follow-up Model. *Am J Perinatol*. 2024 May;41(S 01):e1570-e1574. PMID: PMC11404723
16. Andrade-Machado R, Javarayee P, Koop JI, Farias-Moeller R, Kim I, Lew SM. Neural representations of self-perception of voice: An intracortical evoked potential analysis based on an adolescent with right temporal lobe epilepsy. *Seizure*. 2023 Jul;109:1-4.
17. Tamber MS, Jensen H, Clawson J, Nunn N, Wellons JC, Smith J, Martin JE, Kestle JRW, HCRNq Investigators and Staff . Shunt infection prevention practices in Hydrocephalus Clinical Research

- Network-Quality: a new quality improvement network for hydrocephalus management. *J Neurosurg Pediatr.* 2024 Feb 01;33(2):157-164.
18. Reecher HM, Koop JI, Awad AJ, Kim I, Foy AB, Kaufman BA, Meier NA, Lew SM. Awake craniotomy for supratentorial tumors or epileptogenic lesions in pediatric patients: a 16-year retrospective cohort study. *J Neurosurg Pediatr.* 2024 Mar 01;33(3):214-222.
  19. Sampat V, Whiting J 4th, Flynn-O'Brien K, Kim I, Balakrishnan B, Mehta N, Sawdy R, Patel ND, Nallamothe R, Zhang L, Yan K, Zvara K, Farias-Moeller R. Accuracy of Early Neuroprognostication in Pediatric Severe Traumatic Brain Injury. *Pediatr Neurol.* 2024 Jun;155:36-43.
  20. Andrade Machado R, Narayan SL, Norton NB, Javarayee P, Kim I, Lew SM. Temporal lobe epilepsy page: Role of temporal lobe structures and subjacent pathology in the intracranial ictal onset pattern in pediatric patients with temporal lobe epilepsy: A stereo-electroencephalogram analysis. *Epilepsy Behav.* 2024 Oct;159:109967.
  21. Lundy P, Barkley A, Rahman AKMF, Arynchyna-Smith A, Thrower J, Stewart A, Dziugan K, Lam S, Hall K, Hauptman J, Shrestha K, Staulcup S, Hankinson TC, Best B, Kim I, Yea J, Weber-Levine C, Jackson EM, Park C, Sexton D, Thompson EM, Slingerland AL, Papadakis J, Pricola Fehnel K, Wisor-Martinez S, Bauer DF, Akbari SHA, Rocque BG. Pediatric CSF diversion procedures for treatment of hydrocephalus during the COVID-19 pandemic. *J Neurosurg Pediatr.* 2025 Jan 01;35(1):57-63.

### **Books, Chapters, and Reviews**

1. Rubin B, Kim I, Wisoff JH. Management of the Recurrence of Craniopharyngiomas. In: Evans JJ, Kenning TJ, ed. *Craniopharyngiomas: Comprehensive Diagnosis, Treatment and Outcome.* San Diego, CA: Elsevier; 2015: 419-425.
2. Kim I, Shekhtman E, Wisoff JH, Kondziolka D. Stereotactic Radiosurgery as Part of Multimodality Craniopharyngioma Management. In: Evans JJ, Kenning TJ, ed. *Craniopharyngiomas: Comprehensive Diagnosis, Treatment and Outcome.* San Diego, CA: Elsevier; 2015: 327-334.
3. Ard JL, Kim I. Is It Better to Perform a Craniotomy for Brain Tumor Resection Awake? In: Scher CS, Clebone A, Miller SM, Roccaforte JD, Capan LM, ed. *You're Wrong, I'm Right: Dueling Authors Reexamine Classic Teachings in Anesthesia.* Springer; 2017: 205-206.
4. Pacione D, Kim I, Placantonakis D, Frempong-Boadu A. Tumors of the Spine. In: Errico TJ, Cheriyan T, Variotta GP, ed. *Spinal Disorders & Treatment: The NYU-HJD Comprehensive Textbook.* New Dehli: Jaypee Brothers; 2015: 456-481.
5. Kim I, Wisoff JH. Adult Craniopharyngiomas. In: Winn HR, ed. *Youmans and Winn Neurological Surgery.* 7th ed. Philadelphia, PA: Elsevier. 2017.
6. Kim I, Wisoff JH. Pediatric Craniopharyngiomas. In: Winn HR, ed. *Youmans and Winn Neurological Surgery.* 7th ed. Philadelphia, PA: Elsevier. 2017.
7. Kim I, Strom RG, Golfinos JG. Positioning for Cranial Surgery. In: Winn HR, ed. *Youmans and Winn Neurological Surgery.* 7th ed. Philadelphia, PA: Elsevier. 2017.
8. Kim I, Oakes WJ. Complications After Myelomeningocele Repair: CSF Leak and Retethering. In: Nanda A, ed. *Complications in Neurosurgery.* Elsevier; 2019: 178-183.
9. Kim I, Oakes WJ. Clinical Presentation of the Occult Spinal Dysraphisms. In: Tubbs RS, Oskouian RJ, Blount JP, Oakes WJ, ed. *Occult Spinal Dysraphism.* Springer, 2019: 99-114.
10. Kim I, Oakes WJ. Interface Between Occult Spinal Dysraphisms and Myelomeningoceles. In: Tubbs RS, Oskouian RJ, Blount JP, Oakes WJ, ed. *Occult Spinal Dysraphism.* Springer, 2019: 281-288.
11. Deshmukh T, Chandra T, Kim I, Maheshwari M. Spine Trauma. In: Otero HJ, Kaplan SL, Medina LS, Blackmore CC, Applegate KE, ed. *Evidence-Based Imaging in Pediatrics: Clinical Decision Support for Optimized Imaging in Pediatric Care.* 2nd ed. Springer, 2024.  
[https://doi.org/10.1007/978-3-030-89688-1\\_80](https://doi.org/10.1007/978-3-030-89688-1_80).