

Weerasak Singhatanadgige



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Spine unit, Orthopedic department,
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Personal Information

Place of Birth: Bangkok, Thailand

Marital Status: Marriage

Education

Primary school

Grade 1-6 Wat Lanboon school, Bangkok, Thailand

Secondary school

Triam Udom Suksa Pattanakarn school, Bangkok, Thailand

Education & Qualifications

2015 Fellowship in Minimal Invasive Spine Surgery, Rush university, Chicago, IL, USA.

2014 Fellowship in Cervical Spine Surgery, Washington University Orthopedics, St louis, MO, USA.

2012 Certified Clinical Spine Fellowship, Chulalongkorn University, Bangkok, Thailand.

2010 Higher Grade Diploma in Clinical Science Program in Orthopedic surgery, Chulalongkorn University, Bangkok, Thailand

2010 Certified Thai board of Orthopaedic Surgery. The medical council of Thailand and Royal Thai College of Orthopedic Surgeons

2009 Certified Thai MS of Biomechanical engineering .Chulalongkorn University, Bangkok, Thailand

2007 Certified ATLS (Advance Trauma Life Support) Student Program

2007 Diploma in Clinical Science Program in Surgery, Chulalongkorn University, Bangkok, Thailand

2003 Doctor of Medicine (First class honor), Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

Surgical Residency and Training

2015 Fellowship in Minimal invasive spine surgery, Rush university, Chicago, IL, USA.

2014 Fellowship in Spine surgery, Washington University Orthopedics, St louis, MO, USA.

2011-2012 Spine Fellow: Faculty of Medicine, Chulalongkorn University,

2009-2010 Chief Resident in Orthopedic Surgery (Best performance award): Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

2007-2008 Surgical Residency : Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

Professional Appointments

2003-2005 Medical Intern (Chief) Orthopedic Unit, Thammasat hospital, Patumthani, Thailand

2013-now Clinical lecturer at Department of Orthopedic, Faculty of Medicine: Chulalongkorn university and Chulalongkorn Hospital, Thai Red Cross Soceity, Bangkok, Thailand.

June 2020-now Asso. Prof. in Orthopedic, Department of Orthopedic, Faculty of Medicine: Chulalongkorn university and Chulalongkorn Hospital, Thai Red Cross Soceity, Bangkok, Thailand.

PUBLICATION

1. Limthongkul W, Wannaratsiri N, Sukjamsri C, Benyajati CN, Limthongkul P, Tanasansomboon T, et al. Biomechanical Comparison Between Posterior Long-Segment Fixation, Short-Segment Fixation, and Short-Segment Fixation With Intermediate Screws for the Treatment of Thoracolumbar Burst Fracture: A Finite Element Analysis. *International journal of spine surgery*. 2023.
2. Chalermkitpanit P, Pannangpetch P, Kositworakitkun Y, Singhatanadgige W, Yingsakmongkol W, Pasuhirunnikorn P, et al. Ultrasound-guided pulsed radiofrequency of cervical nerve root for cervical radicular pain: a prospective randomized controlled trial. *The spine journal : official journal of the North American Spine Society*. 2023.
3. Singhatanadgige W, Tangchitcharoen N, Kerr SJ, Tanasansomboon T, Yingsakmongkol W, Kotheeranurak V, et al. A Comparison of Polyetheretherketone and Titanium-Coated Polyetheretherketone in Minimally Invasive Transforaminal Lumbar Interbody Fusion: A Randomized Clinical Trial. *World neurosurgery*. 2022;168:e471-e9.
4. Singhatanadgige W, Suranaowarat P, Jaruprat P, Kerr SJ, Tanasansomboon T, Limthongkul W. Indirect Effects on Adjacent Segments After Minimally Invasive Transforaminal Lumbar Interbody Fusion. *World neurosurgery*. 2022.
5. Yingsakmongkol W, Jitpakdee K, Kerr S, Limthongkul W, Kotheeranurak V, Singhatanadgige W. Successful Criteria for Indirect Decompression With Lateral Lumbar Interbody Fusion. *Neurospine*. 2022;19(3):805-15.
6. Singhatanadgige W, Chamadol H, Tanasansomboon T, Kang DG, Yingsakmongkol W, Limthongkul W. Surgical Outcomes of Minimally Invasive Transforaminal Lumbar Interbody Fusion Using Surgical Microscope vs Surgical Loupes: A Comparative Study. *International journal of spine surgery*. 2022;16(4):625-30.
7. Thepsoparn M, Punyawattanakit P, Jaruwangsanti N, Singhatanadgige W, Chalermkitpanit P. Effects of general anesthesia with and without thoracic epidural block on length of stay after open spine surgery: a single-blinded randomized controlled trial. *The spine journal : official journal of the North American Spine Society*. 2022;22(10):1694-9.
8. Singhatanadgige W, Jaruprat P, Kerr SJ, Yingsakmongkol W, Kotheeranurak V, Limthongkul W. Incidence and risk factors associated with superior-segmented facet joint violation during minimal invasive lumbar interbody fusion. *The spine journal : official journal of the North American Spine Society*. 2022;22(9):1504-12.
9. Kotheeranurak V, Pholprajug P, Jitpakdee K, Pruttikul P, Chitragran R, Singhatanadgige W, et al. Full-Endoscopic Anterior Odontoid Screw Fixation: A Novel Surgical Technique. *Orthopaedic surgery*. 2022;14(5):990-6.

10. Tanasansomboon T, Kittipibul T, Limthongkul W, Yingsakmongkol W, Kotheeranurak V, Singhatanadgige W. Thoracolumbar Burst Fracture without Neurological Deficit: Review of Controversies and Current Evidence of Treatment. *World neurosurgery*. 2022;162:29-35.
11. Kotheeranurak V, Liawrungrueang W, Kuansongtham V, Sriphirom P, Bamrunghin N, Keorochana G, et al. Surgeons' Perspective, Learning Curve, Motivation, and Obstacles of Full-Endoscopic Spine Surgery in Thailand: Results From A Nationwide Survey. *BioMed research international*. 2022;2022:4971844.
12. Kotheeranurak V, Jitpakdee K, Rujiramongkolchai N, Atikankul T, Singhatanadgige W, Limthongkul W, et al. Remodeling of the Lumbar Facet Joint After Full Endoscopic Resection for Lumbar Osteoid Osteoma: Case Report and Literature Review. *International journal of spine surgery*. 2022;16(2):378-83.
13. Chalermkitpanit P, Limthongkul W, Yingsakmongkol W, Thepsoparn M, Pannangpetch P, Tangchitcharoen N, et al. Analgesic Effect of Intravenous Nefopam for Postoperative Pain in Minimally Invasive Spine Surgery: A Randomized Prospective Study. *Asian spine journal*. 2022;16(5):651-7.
14. Singhatanadgige W, Pholprajug P, Songthong K, Yingsakmongkol W, Triganjananun C, Kotheeranurak V, et al. Comparative Radiographic Analyses and Clinical Outcomes Between O-Arm Navigated and Fluoroscopic-Guided Minimally Invasive Transforaminal Lumbar Interbody Fusion. *International journal of spine surgery*. 2022;16(1):151-8.
15. Kotheeranurak V, Jitpakdee K, Singhatanadgige W, Limthongkul W, Yingsakmongkol W, Kim JS. Anterior transcorporeal full-endoscopic drainage of a long-span ventral cervical epidural abscess: A novel surgical technique. *North American Spine Society journal*. 2021;5:100052.
16. Yingsakmongkol W, Poriswanich K, Kotheeranurak V, Numkarunarunrote N, Limthongkul W, Singhatanadgige W. How Prone Position Affects the Anatomy of Lumbar Nerve Roots and Psoas Morphology for Prone Transpsoas Lumbar Interbody Fusion. *World neurosurgery*. 2022;160:e628-e35.
17. Yingsakmongkol W, Jitpakdee K, Varakornpipat P, Choentrakool C, Tanasansomboon T, Limthongkul W, et al. Clinical and Radiographic Comparisons among Minimally Invasive Lumbar Interbody Fusion: A Comparison with Three-Way Matching. *Asian spine journal*. 2022;16(5):712-22.
18. Limthongkul W, Chantharakomen R, Tanasansomboon T, Yingsakmongkol W, Yoong-Leong Oh J, Kotheeranurak V, et al. Comparison of Unremoved Intervertebral Disc Location Between 2 Lateral Lumbar Interbody Fusion (LLIF) Techniques. *World neurosurgery*. 2022;160:e322-e7.

19. Kotheeranurak V, Jitpakdee K, Lin GX, Mahatthanatrakul A, Singhatanadgige W, Limthongkul W, et al. Subsidence of Interbody Cage Following Oblique Lateral Interbody Fusion: An Analysis and Potential Risk Factors. *Global Spine J.* 2021;21925682211067210.
20. Singhatanadgige W, Sukthuayat A, Tanaviriyachai T, Kongtharvonskul J, Tanasansomboon T, Kerr SJ, et al. Risk factors for polyetheretherketone cage subsidence following minimally invasive transforaminal lumbar interbody fusion. *Acta neurochirurgica.* 2021;163(9):2557-65.
21. Yingsakmongkol W, Wathanavasin W, Jitpakdee K, Singhatanadgige W, Limthongkul W, Kotheeranurak V. Psoas Major Muscle Volume Does Not Affect the Postoperative Thigh Symptoms in XLIF Surgery. *Brain sciences.* 2021;11(3).
22. Singhatanadgige W, Promsuwan M, Tanasansomboon T, Yingsakmongkol W, Limthongkul W. Is unilateral MIS-TLIF sufficient in patients with claudication?: A comparative matched cohort study. *World neurosurgery.* 2021.
23. Techanivate A, Athibai N, Siripongsaporn S, Singhatanadgige W. Risk Factors for Facial Pressure Ulcers in Patients Underwent Prolonged Prone Orthopedic Spine Surgery. *Spine.* 2020;Publish Ahead of Print.
24. Tanasansomboon T, Tejapongvorachai T, Yingsakmongkol W, Limthongkul W, Kotheeranurak V, Singhatanadgige W. Minimally Invasive Percutaneous Modified Iliac Screw Placement Using Intraoperative Navigation: A Technical Note. *World neurosurgery.* 2020;146:240-5.
25. Kotheeranurak V, Singhatanadgige W, Ratanakornphan C, Yingsakmongkol W, Hynes RA, Limthongkul W. Neutral hip position for the oblique lumbar interbody fusion (OLIF) approach increases the retroperitoneal oblique corridor. *BMC musculoskeletal disorders.* 2020;21(1):583.
26. Singhatanadgige W, Chanchaoenchai T, Honsawek S, Kotheeranurak V, Tanavalee C, Limthongkul W. No Difference in Pain After Spine Surgery with Local Wound Filtration of Morphine and Ketorolac: A Randomized Controlled Trial. *Clinical orthopaedics and related research.* 2020.
27. Tejapongvorachai T, Tanaviriyachai T, Daniel Riew K, Limthongkul W, Tanavalee C, Keeratihattayakorn S, et al. Curved versus straight-cut hinges for open-door laminoplasty: A finite element and biomechanical study. *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia.* 2020.
28. Limthongkul W, Tanasansomboon T, Yingsakmongkol W, Tanaviriyachai T, Radcliff K, Singhatanadgige W. Indirect Decompression Effect to Central Canal and Ligamentum Flavum

After Extreme Lateral Lumbar Interbody Fusion (XLIF) and Oblique Lumbar Interbody Fusion (OLIF). *Spine*. 2020.

29. Singhatanadgige W, Zebala LP, Luksanapruksa P, Riew KD. Answer to the Letter to the Editor of V. Kumar et al. concerning "Can standard anterior Smith-Robinson supramanubrial approach be utilized for approach down to T2 or T3?" by Singhatanadgige W, Zebala LP, Luksanapruksa P, Riew KD [*Eur Spine J* (2017) 26:2357-2362]. *Eur Spine J*. 2019;28(12):3095-6.
30. Tanavalee C, Limthongkul W, Yingsakmongkol W, Luksanapruksa P, Singhatanadgige W. A comparison between repeat discectomy versus fusion for the treatment of recurrent lumbar disc herniation: Systematic review and meta-analysis. *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*. 2019;66:202-8.
31. Singhatanadgige W, Suebsombut Y, Riew KD, Tanavalee C, Yingsakmongkol W, Limthongkul W. Cervical paraspinal muscle compartment pressure after laminoplasty: A cadaveric study. *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*. 2019;60:132-7.
32. Mahatthanatrakul A, Itthipanichpong T, Ratanakornphan C, Numkarunarunrote N, Singhatanadgige W, Yingsakmongkol W, et al. Relation of lumbar sympathetic chain to the open corridor of retroperitoneal oblique approach to lumbar spine: an MRI study. *Eur Spine J*. 2018.
33. Dechsupa S, Yingsakmongkol W, Limthongkul W, Singhatanadgige W, Honsawek S. Relative telomere length and oxidative DNA damage in hypertrophic ligamentum flavum of lumbar spinal stenosis. *PeerJ*. 2018;6:e5381.
34. Bonani W, Singhatanadgige W, Pornanong A, Motta A. Natural Origin Materials for Osteochondral Tissue Engineering. *Advances in experimental medicine and biology*. 2018;1058:3-30.
35. Pluemvitayaporn T, Jindahra S, Pongpinyopap W, Kunakornsawat S, Thiranon C, Singhatanadgige W, et al. Concomitant mycotic abdominal aortic aneurysm and lumbartuberculous spondylitis with cauda equina syndrome: a rare condition - a case report and literature review. *Spinal cord series and cases*. 2018;4:13.
36. Singhatanadgige W, Kang DG, Wiranuwat D, Tanavalee C, Yingsakmongkol W, Limthongkul W. Awareness of middle sacral artery pathway: A cadaveric study of the presacral area. *Journal of orthopaedic surgery*. 2018;26(1):2309499017754094.
37. Luksanapruksa P, Buchowski JM, Tongchai S, Singhatanadgige W, Jennings JW. Systematic review and meta-analysis of effectiveness of preoperative embolization in surgery for metastatic spine disease. *Journal of neurointerventional surgery*. 2018;10(6):596-601.

38. Hershman SH, Kunkle WA, Kelly MP, Buchowski JM, Ray WZ, Bumpass DB, et al. Esophageal Perforation Following Anterior Cervical Spine Surgery: Case Report and Review of the Literature. *Global Spine J.* 2017;7(1 Suppl):28S-36S.
39. Luksanapruksa P, Buchowski JM, Zebala LP, Kepler CK, Singhatanadgige W, Bumpass DB. Perioperative Complications of Spinal Metastases Surgery. *Clin Spine Surg.* 2017;30(1):4-13.
40. Mabey T, Singhatanadgige W, Yingsakmongkol W, Limthongkul W, Honsawek S. Vitamin D and spine surgery. *World J Orthop.* 2016;7(11):726-30.
41. Luksanapruksa P, Buchowski JM, Singhatanadgige W, Bumpass DB. Systematic Review and Meta-analysis of En Bloc Vertebrectomy Compared with Intralesional Resection for Giant Cell Tumors of the Mobile Spine. *Global Spine J.* 2016;6(8):798-803.
42. Singhatanadgige W, Limthongkul W, Valone F, 3rd, Yingsakmongkol W, Riew KD. Outcomes following Laminoplasty or Laminectomy and Fusion in Patients with Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament: A Systematic Review. *Global Spine J.* 2016;6(7):702-9.
43. Singhatanadgige W, Kang DG, Luksanapruksa P, Peters C, Riew KD. Correlation and Reliability of Cervical Sagittal Alignment Parameters between Lateral Cervical Radiograph and Lateral Whole-Body EOS Stereoradiograph. *Global Spine J.* 2016;6(6):548-54.
44. Singhatanadgige W, Zebala LP, Luksanapruksa P, Daniel Riew K. Can standard anterior Smith-Robinson supramanubrial approach be utilized for approach down to T2 or T3? *Eur Spine J.* 2016.
45. Tanavalee C, Luksanapruksa P, Singhatanadgige W. Limitations of Using Microsoft Excel Version 2016 (MS Excel 2016) for Statistical Analysis for Medical Research. *Clin Spine Surg.* 2016;29(5):203-4.
46. Jirathanathornnukul N, Limthongkul W, Yingsakmongkol W, Singhatanadgige W, Parkpian V, Honsawek S. Increased expression of vascular endothelial growth factor is associated with hypertrophic ligamentum flavum in lumbar spinal canal stenosis. *J Investig Med.* 2016;64(4):882-7.
47. Luksanapruksa P, Buchowski JM, Singhatanadgige W, Rose PC, Bumpass DB. Management of spinal giant cell tumors. *The spine journal : official journal of the North American Spine Society.* 2016;16(2):259-69.
48. Singhatanadgige W, Tangpornprasert P, Wangroongsub Y, Itiravivong P, Limpaphayom N. A biomechanical cadaveric study of a modified U-shaped interspinous distraction device. *J Spinal Disord Tech.* 2014;27(5):290-6.

Book Chapter

- Bonani W, Singhatanadgige W, Pornanong A, Motta A. Natural Origin Materials for Osteochondral Tissue Engineering. Advances in experimental medicine and biology. 2018;1058:3-30.
- ออร์โธปิดิกส์วิวัฒน์ 3
 - o Cervical spondylotic myelopathy : Principle and management
- Textbook of spine surgery (RCORST)
 - o Spinal dural injury with cerebrospinal fluid leakage
 - o Spinal dysraphism
 - o Sacroiliac joint dysfunction :Textbook of spine surgery

POSTER PRESENTATION AT SCIENTIFIC MEETINGS

- **European Spine Meeting 2020 virtually.**
 - o Comparative radiographic analysis and clinical outcomes between O-arm navigated and fluoroscopic-guided MISTLIF:
(**Weerasak Singhatanadgige**, Phattareeya Pholprajug, Kittisak Songthong, Chanonta Triganjananun, wicharn Yingsakmongkol, worawat limthongkul)
- **European Spine Meeting 2017. Dublin, Ireland.**
 - o A Comparison between Repeat Discectomy versus Fusion for the Treatment of Recurrent Lumbar disc herniation: Systematic Review and Meta-analysis.:
(Chotetawan Tanavalee, MD, **Weerasak Singhatanadgige**, MD, MS. Worawat Limthongkul , M.D. Wicharn Yingsakmongkol , M.D.)
 - o Radiographic outcome of MIS lateral and MIS Transforaminal Lumbar Interbody Fusion in the treatment of Degenerative Lumbar Disease: A Single Institute study.
(**Weerasak Singhatanadgige**, MD, MS. Worawat Limthongkul , M.D. Wicharn Yingsakmongkol , M.D.)
 - o Predictive Parameters for Successful Indirect Decompression with Lateral Lumbar Interbody Fusion. (**Weerasak Singhatanadgige**, MD, MS. Suthee Laokomen,MD. Worawat Limthongkul , M.D. Wicharn Yingsakmongkol , M.D.)
 - o DOES THE POSITION OF THE HIP IN THE RIGHT LATERAL DECUBITUS POSITION AFFECT THE RETROPERITONEAL OBLIQUE CORRIDOR? AN MRI EVALUATION FROM L2 TO L5
Vit Kotheeranurak, Worawat Limthongkul, **Weerasak Singhatanadgige**, Wicharn Yingsakmongkol)

- RELATION OF LUMBAR SYMPATHETIC CHAIN TO THE OPEN CORRIDOR OF RETROPERITONEAL OBLIQUE APPROACH TO LUMBAR SPINE: AN MRI STUDY
Akaworn Mahatthanatrakul, Thun Itthipanichpong, Chindarat Ratanakornphan, Numphung
Numkarunarunrote, **Weerasak Singhatanadgige**, Wicharn Yingsakmongkol, Worawat
Limthongkul.

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

- Surgical wound infiltration of Multimodal cocktail analgesia compared with local anesthetic for reduce postoperative pain in MIS-TLIF: A Randomized Controlled Trial. (**Weerasak Singhatanadgige**, worawat limthongkul, wicharn Yingsakmongkol, Todsapon Chancharoenchai) . European Spine meeting 2019Helsinki, Finland, 16-18 October 2019.
- Clinical and Radiographic outcomes analysis of MIS/TLIF and LLIF in treating L-degenerative stenosis: A comparative study. 21th Operative Spine Course 2017(Jan 17-20, 2017: Khonkaen)
- The biomechanic cadaveric study of a new interspinous distraction device. (**Weerasak Singhatanadgige MD**,Pibul Itiravivong, Noppachart Limpaphayom). Annual RCORST meeting 2010 Pattaya , Thailand.
- The biomechanic cadaveric study of a new interspinous distraction device. (**Weerasak Singhatanadgige MD**,Pibul Itiravivong, Noppachart Limpaphayom). Annual Chulalongkorn hospital conference 2010

INVITED TALKS/LECTURES

2020 24nd Operative Spine Course 2020(Jan 14-17, 2020: Ubon Rachatani)\

- Complication avoidance in MIS TLIF
- Video session : MIS TLIF

2019 23nd Operative Spine Course 2019(Jan 15-18, 2019: Chiang Mai)

- Case discussion : MIS deformity
- ACDF vs TDR : Current evidence

- 2018 22nd Operative Spine Course 2018(Jan 15-19, 2018: Hat Yai)
- ASD I will do lateral approach
- 2017 Faculty of Scoliosis Research Society (SRS) workshop : 9th Spinal Deformity Solution: A hand on course
- Direct Lateral (trans psoas) and Oblique Lateral approach to the Lumbar Spine : Degenerative conditions
 - Complications of Anterior and Lateral surgery: How to deal with them?
 - Instructor on workshop: Lateral approach to lumbar spine.
- 2017 The 39th Annual meeting of the Royal College of Orthopedic Surgeon of Thailand
- Principle and Management of Cervical Spondylotic Myelopathy
 - Case presentation: Adjacent segment degeneration
- 2017 JCMS 2017: Hand in Hand towards Healthy Society
- Low back pain: How to deal with it? - Surgery for low back pain: MIS
- 2017 Spine night 2017
- Simplification of current classification of adult spinal deformity (ASD) and its implementation to clinical practice.
- 2017 First MIS-SST dinner symposium
- Expert around the world part I
- 2017 First That Scoliosis Research Society dinner symposium
- Interesting case presentation(MIS deformity correction)
- 2017 21th Operative Spine Course 2017(Jan 17-20, 2017: Khonkaen)
- Pre congress case presentation and Lecture “Burst fracture without neurological deficit”
 - Degenerative spondylolisthesis “I will do MIS TLIF”
 - Choice of surgery in OPLL- How to deal with the surgical complications?
- 2016 Spine night 2016
- MIS TLIF: How I do it?

- XLIF: How I do it?

2014 Interesting case presentation in Operative spine course 2014, Spine section, Royal College of Orthopedic Surgeons of Thailand.

2013 Co-modulator of free paper presentation “current trend in orthopedics” in 35th Annual Meeting of the Royal college of orthopaedic Surgeons of Thailand.

2013 Evidence base in radiofrequency abrasion and nucleoplasty in Spine night, Spine section, Royal College of Orthopedic Surgeons of Thailand.

2013 Spinal Metastasis, Spine section, Royal College of Orthopedic Surgeons of Thailand.

2013 Anatomy and function of ligament and tendon, Basic science section, Royal College of Orthopedic Surgeons of Thailand.

2013 Neoplasm of bone and joint for medical student, Faculty of medicine, Chulalongkorn University, Thailand.

2013 Bone and Joint infection joint for medical student, Faculty of medicine, Chulalongkorn University, Thailand.

2013 New intervention for spinal disorder in 52th annual scientific meeting 2013, Faculty of medicine, Chulalongkorn University.

Awards and honors

- Highest score in Forensic 2002
- Win best research presentation in Annual Chulalongkorn hospital conference 2010
- Best performance award (Residency training in Orthopedic Surgery) Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand 2010

Special Interests

1. General orthopedic
2. Spinal Trauma
3. Spinal deformity

Charity activity

- Orthopaedic Surgeon for visiting and working at the Khanh Hoa Provincial General Hospital, Nha Trang city, Vietnam. 26-28 Febuary 2013.

Extra-curriculum

- 1 Football

2 Basketball