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RESEARCH GOALS: Study the clinical and functional outcome in spine surgery with special focus on adult deformity surgery. Biomechanical testing and evaluation of different fixation devices and techniques in the adult spine.

RESEARCH SUMMARY AND SIGNIFICANCE:

1. Evaluate our current treatment for adult spine deformity patients.
2. Identify factors affecting outcome in different spine condition with emphasis on spine deformity and spine tumors.

FUTURE DIRECTIONS/AVAILABLE RESEARCH PROJECTS:

1. Evaluate the prevalence of scoliosis in the adult population.
2. Evaluate the significance vertebral augmentation in proximal fusion levels in spine deformity surgery.

RECENT PUBLICATIONS:

1. Khanna AJ, **Kebaish KM**, Ozdemir HM, Cohen DB, Gonzales RA, Kostuik JP: Sacral insufficiency fracture surgically treated by fibular allograft. *J Spinal Disord Tech*. 2004 Jun;17(3):167-73.
2. Donigan JA, **Kebaish KM**, McCarthy EF: Metachronous aneurysmal bone cysts with involvement of the humerus and the thoracic vertebrae. *Skeletal Radiol*. 2003 Aug;32(8):468-71. Epub 2003 Jul 15.
3. **Kebaish KM**, Awad JN: Spinal epidural hematoma causing acute cauda equina syndrome. *Neurosurg Focus*. 2004 Jun 15;16(6):e1. Review
4. Buchowski JM, **Kebaish KM**, Suk KS, Kostuik JP: Central cord syndrome after total hip arthroplasty: a patient report. *Spine*. 2005 Feb 15;30(4):E103-5.
5. Buchowski JM, **Kebaish KM**, Sinkov V, Cohen DB, Sieber AN, Kostuik JP. Functional and radiographic outcome of sacroiliac arthrodesis for the disorders of the sacroiliac joint. *Spine J*. 2005 Sep-Oct;5(5):520-8.
6. Awad JN, **Kebaish KM**, Donigan J, Cohen DB, Kostuik JP. Analysis of the risk factors for the development of post-operative spinal epidural haematoma. *J Bone Joint Surg Br*. 2005 Sep;87(9):1248-52.

PAST RESIDENT RESEARCH PROJECTS: (Noted above)