

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel on page 1 of the Detailed Cost Estimate form for the initial budget period.

NAME John B. Emans, II, M.D.		POSITION TITLE Director, Division of Spinal Surgery; Professor of Orthopaedic Surgery at Harvard Medical School Associate in Orthopaedic Surgery - Children's Hospital, Boston	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Harvard College	AB	1962-66	Biochemical sciences
Harvard Medical School	MD	1966-70	Medicine
Peter Bent Brigham Hospital	Intern, Resident	1970-72	General Surgery
Harvard Combined Orthopaedic Surgery Residency	Resident	1972-76	Orthopedic Surgery
Children's Hospital, Boston	Chief Res & Fellow	1976	Pediatric Orthopedic Surgery

**A. Positions and Honors.****Academic Appointments:**

2001- present Professor of Orthopaedic Surgery, Harvard Medical School, Boston, MA

**Hospital Appointments:**

1978-1983 Assistant in Orthopaedic Surgery, Children's Hospital Boston, Boston, MA

1983- present Associate in Orthopaedic Surgery, Children's Hospital Boston, Boston, MA

**Licensure and Certification:**

Massachusetts Medical License 1976

American Board of Orthopaedic Surgery 1977

**Awards and Honors:**

1992 Pediatric Orthopaedic Society of North America – Huene Award for best clinical paper presentation

1999 Nominated for Harvard Medical School *Excellence in Teaching* award**B. Selected peer-reviewed publications (in chronological order)**

1. Mooney JF, 3rd, Emans JB. Progressive kyphosis and neurologic compromise complicating spondylothoracic dysplasia in infancy (Jarcho-Levin syndrome). *Spine* 1995; 20:1938-42.
2. Schwend RM, Hennrikus W, Hall JE, Emans JB. Childhood scoliosis: clinical indications for magnetic resonance imaging. *Journal of Bone & Joint Surgery - American Volume* 1995; 77:46-53.
3. Snyder BD, Zaltz I, Breitenbach MA, Kido TH, Myers ER, Emans JB. Does bracing affect bone density in adolescent scoliosis? *Spine* 1995; 20:1554-60.
4. Snyder BD, Zaltz I, Hall JE, Emans JB. Predicting the integrity of vertebral bone screw fixation in anterior spinal instrumentation. *Spine* 1995; 20:1568-74.
5. Hamner DL, Lyon RM, Emans JB. Sudden death of a child who had pain in the knee and varicella. A case report. *J Bone Joint Surg Am* 1996; 78:594-6.

6. Hoffer FA, Emans J. Percutaneous drainage of subperiosteal abscess: a potential treatment for osteomyelitis. *Pediatr Radiol* 1996; 26:879-81.
7. Mejia EA, Hennrikus WL, Schwend RM, Emans JB. A prospective evaluation of idiopathic left thoracic scoliosis with magnetic resonance imaging. *J Pediatr Orthop* 1996; 16:354-8.
8. Barr SJ, Schuette AM, Emans JB. Lumbar pedicle screws versus hooks. Results in double major curves in adolescent idiopathic scoliosis. *Spine* 1997; 22:1369-79.
9. Flynn JM, Otsuka NY, Emans JB, Hall JE, Hresko MT. Segmental spinal dysgenesis: early neurologic deterioration and treatment. *J Pediatr Orthop* 1997; 17:100-4.
10. Rodgers WB, Coran DL, Kharrazi FD, Hall JE, Emans JB. Increasing lordosis of the occipitocervical junction after arthrodesis in young children: the occipitocervical crankshaft phenomenon. *J Pediatr Orthop* 1997; 17:762-5.
11. Rodgers WB, Schwend RM, Jaramillo D, Kasser JR, Emans JB. Chronic physeal fractures in myelodysplasia: magnetic resonance analysis, histologic description, treatment, and outcome. *J Pediatr Orthop* 1997; 17:615-21.
12. Rodgers WB, Williams MS, Schwend RM, Emans JB. Spinal deformity in myelodysplasia. Correction with posterior pedicle screw instrumentation. *Spine* 1997; 22:2435-43.
13. Rowe DE, Bernstein SM, Riddick MF, Adler F, Emans JB, Gardner-Bonneau D. A meta-analysis of the efficacy of non-operative treatments for idiopathic scoliosis [see comments]. *J Bone Joint Surg Am* 1997; 79:664-74.
14. Waters PM, Van Heest AE, Emans J. Acute forearm lengthenings. *J Pediatr Orthop* 1997; 17:444-9.
15. Pontari MA, Bauer SB, Hall JE, Emans JB. Adverse urologic consequences of spinal cord resection at the time of kyphectomy: value of preoperative urodynamic evaluation. *J Pediatr Orthop* 1998; 18:820-3.
16. Coran DL, Rodgers WB, Keane JF, Hall JE, Emans JB. Spinal fusion in patients with congenital heart disease. Predictors of outcome. *Clin Orthop* 1999:99-107.
17. Rodgers WB, Coran DL, Emans JB, Hresko MT, Hall JE. Occipitocervical fusions in children. Retrospective analysis and technical considerations. *Clin Orthop* 1999:125-33.
18. Kim YJ, Otsuka NY, Flynn JM, Hall JE, Emans JB, Timothy Hresko M. Surgical treatment of congenital kyphosis. *Spine*. 26(20):2251-7, 2001 October 15.
19. Lerman, J. A., J. B. Emans, et al. (2001). "Early failure of Pavlik harness treatment for developmental hip dysplasia: clinical and ultrasound predictors." *J Pediatr Orthop* 21(3): 348-53.
20. Ralston, M. E., K. Chung, et al. (2001). "Role of flexion-extension radiographs in blunt pediatric cervical spine injury." *Acad Emerg Med* 8(3): 237-45.
21. Hedequist, D., J. Kasser, et al. (2003). "Use of an abduction brace for developmental dysplasia of the hip after failure of pavlik harness use." *J Pediatr Orthop* 23(2): 175-7.
22. Lerman, J. A., J. B. Emans, et al. (2003). "Spinal arthrodesis for scoliosis in down syndrome." *J Pediatr Orthop* 23(2) 159-61:.
23. Hedequist, D., J. Emans, JB. (2003). "The Correlation of Preoperative Three-Dimensional Computed Tomography Reconstructions With Operative Findings in Congenital Scoliosis.." *Spine* 28(22): 2531-2534.
24. Hedequist, DJ, Emans, JB. Congenital Scoliosis. *J Am Acad Orthop Surg*. 2004 July-August; 12(4): 266-275.
25. Hedequist DJ, Hall JE, Emans JB. The safety and efficacy of spinal instrumentation in children with congenital spine deformities. *Spine*. 2004 Sep 15; 29(18): 2081-6.
26. Hedequist DJ, Hall JE. Hemivertebra excision in children via simultaneous anterior and posterior exposures. *J. Ped. Ortho.* 2005 Jan-Feb; 25(1): 60-3.
27. Kim YJ, Kassab F, Berven SH, Zurakowski D, Hresko MT, Emans JB, Kasser JR. Serum levels of nickel and chromium after instrumented posterior spinal arthrodesis. *Spine*. 2005 Apr 15; 30(8): 923-6.