

Paul A. Gardner, M.D. – Professional Activities

Refereed Articles:

1. Hadjipanayis CG, Kondziolka D, **Gardner P**, Niranjan A, Dagam S, Flickinger JC, Lunsford LD. Stereotactic radiosurgery for pilocytic astrocytomas when multimodal therapy is necessary. *J Neurosurg.* 2002 Jul;97:56-64.
2. Kassam AB, Snyderman C, **Gardner P**, Carrau R, Spiro R. The expanded endonasal approach: a fully endoscopic transnasal approach and resection of the odontoid process: technical case report. *Neurosurgery.* 2005 Jul;57(1 Suppl):E213; discussion E213.
3. Kassam A, Snyderman CH, Mintz A, **Gardner P**, Carrau RL. Expanded endonasal approach: the rostrocaudal axis. Part I. Crista galli to the sella turcica. *Neurosurg Focus.* 2005 Jul 15;19(1):E3.
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5. Cavallo LM, Messina A, **Gardner P**, Esposito F, Kassam AB, Cappabianca P, de Divitiis E, Tschabitscher M. Extended endoscopic endonasal approach to the pterygopalatine fossa: anatomical study and clinical considerations. *Neurosurg Focus.* 2005 Jul 15;19(1):E5.
6. Kassam AB, **Gardner P**, Snyderman C, Mintz A, Carrau R. Expanded endonasal approach: fully endoscopic, completely transnasal approach to the middle third of the clivus, petrous bone, middle cranial fossa, and infratemporal fossa. *Neurosurg Focus.* 2005 Jul 15;19(1):E6.
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8. Kassam A, Carrau RL, Snyderman CH, **Gardner P**, Mintz A. Evolution of reconstructive techniques following endoscopic expanded endonasal approaches. *Neurosurg Focus.* 2005 Jul 15;19(1):E8.
9. **Gardner PA**, Albright AL. "Like mother, like son:" hereditary anterior sacral meningocele. Case report and review of the literature. *J Neurosurg.* 2006 Feb;104(2 Suppl):138-42.
10. Kassam AB, Mintz AH, **Gardner PA**, Horowitz MB, Carrau RL, Snyderman CH. The expanded endonasal approach for an endoscopic transnasal clipping and aneurysmorrhaphy of a large vertebral artery aneurysm: technical case report. *Neurosurgery.* 2006 Jul;59(1 Suppl 1):162-5; discussion ONSE162-5.
11. Kassam A, Thomas AJ, Snyderman C, Carrau R, **Gardner P**, Mintz A, Kanaan H, Horowitz M, Pollack IF. Fully endoscopic expanded endonasal approach treating skull base lesions in pediatric patients. *J Neurosurg.* 2007 Feb;106(2 Suppl Pediatrics):75-86.
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13. Prevedello DM, Thomas A, **Gardner P**, Snyderman CH, Carrau RL, Mintz A, Kassam AB: Endoscopic endonasal resection of a synchronous pituitary adenoma and tuberculum sellae meningioma: technical case report. *Neurosurgery.* 2007 Apr;60(4 Suppl 2):E401; discussion E401.
14. Fortes FS, Carrau RL, Snyderman CH, Kassam A, Prevedello D, Vescan A, Mintz A, **Gardner P**. Transpterygoid transposition of a temporoparietal fascia flap: a new method for skull base reconstruction after endoscopic expanded endonasal approaches. *Laryngoscope.* 2007 Jun;117(6):970-6.

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20. Nayak JV, **Gardner PA**, Vescan AD, Carrau RL, Kassam AB, Snyderman CH. Experience with the expanded endonasal approach for resection of the odontoid process in rheumatoid disease. *Am J Rhinol*. 2007 Sep-Oct;21(5):601-6.
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26. Kassam AB, **Gardner PA**, Snyderman CH, Carrau RL, Mintz AH, Prevedello DM. Expanded endonasal approach, a fully endoscopic transnasal approach for the resection of midline suprasellar craniopharyngiomas: a new classification based on the infundibulum. *J Neurosurg*. 2008 Apr;108(4):715-28
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41. Fernandez-Miranda JC, **Gardner PA**, Prevedello DM, Kassam AB. Letter to the Editor: Expanded endonasal approach for olfactory groove meningioma. *Acta Neurochir*. 2009 Mar;151:287-8.
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77. Rivera-Serrano CM, Snyderman CH, Carrau RL, Durmaz A, **Gardner PA**. Transparapharyngeal and transpterygoid transposition of a pedicled occipital galeopericranial flap: a new flap for skull base reconstruction. *Laryngoscope*. 2011 May;121(5):914-22.
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Accepted:

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Submitted:

1. Snyderman C, Pinheiro-Neto C, Grunert R, Moeckel H, **Gardner P**. A surgical training model for endoscopic skull base surgery. *Otolaryngol Head Neck Surg*, submitted for publication, April 2011.

2. Koutourousiou M, **Gardner PA**, Tormenti MJ, Henry SL, Stefko ST, Fernandez-Miranda JC, Snyderman CH. Endoscopic endonasal approach for resection of skull base chordomas: outcomes and learning curve. *J Neurosurg*, submitted for publication, May 2011
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61. Pinheiro-Neto C, Snyderman C, Fernandez-Miranda J, Vaezi A, **Gardner P**. Extended dissection of nasoseptal flap pedicle for the transpterygoid approach. *Skull Base*. 2011;21:36
62. Vaezi A, Pinheiro-Neto C, Branstetter H, **Gardner P**, Fernandez-Miranda J, Snyderman C. Pneumatization of the lateral recess of the sphenoid is correlated with increased separation between the V2 and vidian nerves. *Skull Base*. 2011;21:46.
63. Fernandez-Miranda J, Pinheiro-Neto C, Vaezi A, Paluzzi A, Snyderman C, **Gardner P**. Transposition of the pterygopalatine fossa during endonasal endoscopic transpterygoid approaches. *Skull Base*. 2011;21:62.
64. Rivera-Serrano C, Carlos D, Pinheiro-Neto C, Snyderman C, Fernandez-Miranda J, Vaezi A, **Gardner P**. Posterior pedicle nasoseptal flap for velopharyngeal insufficiency: a novel flap for pharyngoplasty and pharyngeal reconstruction. 2011;21:62.

PROFESSIONAL ACTIVITIES

TEACHING:

Peer Reviewed Lectures:

1. Endoscopic endonasal resection of anterior skull base meningiomas: a case series. Annual Meeting of the North American Skull Base Society. Toronto, Canada. April 9, 2005.
2. Outcomes following endoscopic resection of pituitary tumors. 1st World Congress for Endoscopic Surgery of the Brain, Spine and Skull Base, Pittsburgh, PA, September 30, 2005.
3. Outcomes following endoscopic resection of anterior skull base meningiomas. 1st World Congress for Endoscopic Surgery of the Brain, Spine and Skull Base, Pittsburgh, PA: October 1, 2005.
4. Outcomes following endoscopic endonasal resection of suprasellar craniopharyngiomas. 2nd World Congress for Endoscopic Surgery of the Brain, Skull Base and Spine, Paris, France, May 10, 2007.
5. Endoscopic expanded endonasal approach for the resection of skull base chondrosarcomas. 2nd World Congress for Endoscopic Surgery of the Brain, Skull Base and Spine, Paris, France, May 11, 2007.
6. Outcomes following purely endoscopic endonasal resection of pituitary adenomas. 2nd World Congress for Endoscopic Surgery of the Brain, Skull Base and Spine, Paris, France, May 11, 2007
7. Endoscopic endonasal resection of odontoid lesions. 2nd World Congress for Endoscopic Surgery of the Brain, Skull Base and Spine, Paris, France, May 11, 2007.

8. Endoscopic endonasal resection of the odontoid process – clinical outcomes in 24 patients. Annual Meeting of the Pennsylvania Neurosurgical Society, Hershey, PA, July 10-11, 2009.
9. Management of injury to the internal carotid artery and its branches during endoscopic cranial base surgery. 20th Annual Meeting of the North American Skull Base Society, New Orleans, LA, October 16, 2009.
10. Anatomy, technique and clinical correlation in the endoscopic endonasal approach to sellar and medial cavernous sinus lesions. 20th Annual Meeting of the North American Skull Base Society, New Orleans, LA, October 17, 2009.
11. Outcomes of a modular approach to the paramedian plane using the expanded endoscopic endonasal approach for resection of skull base chondrosarcomas. 20th Annual Meeting of the North American Skull Base Society, New Orleans, LA, October 17, 2009.
12. The lateral extension of the expanded endoscopic endonasal approach to the inferior third of the clivus: the transcondylar and transjugular tuberculum approach. 20th Annual Meeting of the North American Skull Base Society, New Orleans, LA, October 17, 2009.
13. Identifying Differential Gene Expression Between Recurrent Versus Non-Recurrent Chordomas. 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 19, 2011.
14. Concurrent Session # 14: Craniovertebral Junction-Transoral /Endoscopic Fusions: Endoscopic Approaches 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 19, 2011.
15. Expanded Endoscopic Surgery for Clival Chordomas: A 7 year experience. Third International Chordoma Research Workshop. Bethesda, MD, March 17-19, 2011

Invited Lectures: International

1. Expanded endoscopic endonasal skull base surgery. Stichting Kwaliteitsbevordering Neurochirurgie., Amsterdam, The Netherlands, May 15, 2009.
2. Endonasal Endoscopic Approaches to the Paranasal Sinuses and Skull Base, University Medical Center Maribor and Faculty of Medicine, University of Maribor, Maribor, Slovenia, November 12 – 14, 2010.
3. Paravati A, Heron DE, Gardner PA, Snyderman C, Ozhasoglu C, Quinn A, Burton S, Seelman K, Mintz AH. Combined endoscopic endonasal surgery (EES) and fractionated stereotactic radiosurgery (FSRS) for complex cranial base tumors-early clinical outcomes. 15th Annual Society Neuro-Oncology Meeting, Montreal, Quebec, Canada. November 18, 2010.
4. Approaches to the skull base. Latin American Congress of Rhinology and Facial Surgery, Rio de Janeiro, Brazil, June 16, 2011.
5. Endoscopic Endonasal Surgery for Growth Hormone Secreting Pituitary Adenomas. The 14th European Congress of Neurosurgery, Rome, Italy, October 10, 2011.
6. Carotid Artery Injury During Endoscopic Endonasal Surgery: Incidence and Outcomes in 1643 Cases. The 14th European Congress of Neurosurgery, Rome, Italy, October 10, 2011.
7. Endoscopic endonasal approach to the skull base: an overview. Xi'an International Neurosurgical Forum, Xi'an, China, October 20, 2011.
8. Endoscopic endonasal skull base surgery: advances and limitations. Neuroendoscopic and Minimally Invasive Neurosurgical Seminar, Chongqing, China, October 22, 2011.
9. Pituitary macroadenoma surgery. 1st Kuala Lumpur International Multi-Disciplinary Endonasal Endoscopic

Approach to Cranial Skull Base and Pituitary Fossa Course and Workshop, Kuala Lumpur, Malaysia, December 7, 2011.

10. Cavernous sinus surgery. 1st Kuala Lumpur International Multi-Disciplinary Endonasal Endoscopic Approach to Cranial Skull Base and Pituitary Fossa Course and Workshop, Kuala Lumpur, Malaysia, December 7, 2011.
11. Clival meningioma/chordoma surgery. 1st Kuala Lumpur International Multi-Disciplinary Endonasal Endoscopic Approach to Cranial Skull Base and Pituitary Fossa Course and Workshop, Kuala Lumpur, Malaysia, December 7, 2011.
12. Incidence and management of carotid artery injury during endoscopic sinus surgery. 1st Kuala Lumpur International Multi-Disciplinary Endonasal Endoscopic Approach to Cranial Skull Base and Pituitary Fossa Course and Workshop, Kuala Lumpur, Malaysia, December 7, 2011.

Invited Lectures: National

1. The expanded endoscopic approach to skull base lesions. Innovations in Skull Base Surgery, Baylor Neuroscience Center, Baylor, TX, January 24, 2009.
2. Endoscopic excision of pituitary neoplasms. Innovations in Skull Base Surgery, Baylor Neuroscience Center, Baylor, TX, January 24, 2009.
3. Endoscopic Endonasal Approach to clival chordoma. 2nd Chordoma Community Conference: Preserving to find a cure. Bethesda, MD, June 26-28, 2009.
4. Endoscopic resection of skull base tumors (non-pituitary). 2009 Skills in Neurosurgery Program, Phoenix, AZ, October 2, 2009.
5. Endoscopic endonasal resection for olfactory groove meningiomas. 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 19, 2011.
6. Outcomes after Endoscopic Endonasal Surgery for Nonvestibular Schwannomas. 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 20, 2011
7. Third International Chordoma Research Workshop. Bethesda, MD, March 17-19, 2011.
8. Expanded Endoscopic Surgery for Clival Chordomas: Experience with 60 cases. 2011 Annual CNS Meeting, Washington, DC October 1-6, 2011.

Invited Lectures: Local

1. Endoscopic endonasal resection of pituitary and skull base tumors. Grand Rounds, Department of Neurosurgery, UPMC Passavant Hospital, Pittsburgh, PA, June 30, 2009.
2. Endonasal endoscopic brain surgery: a paradigm shift. Grand Rounds, Department of Anesthesia, UPMC Mercy Hospital, Pittsburgh, PA, September 9, 2009.
3. Evaluation and controversies in diagnosis of subarachnoid hemorrhage. Department of Emergency Medicine, Hamot Medical Center, Erie, PA, September 30, 2009.
4. Transnasal surgery. Pittsburgh Chapter of the Association of periOperative Nurses, Pittsburgh, PA, January 26, 2010.

5. Skull Base Chordomas: Surgical Results After Endoscopic Endonasal Approach. Pennsylvania Neurosurgical Society 98th Scientific Meeting, Hershey, PA. July 8-9, 2011

Panel Participation:

1. State-of-the-Art: Endoscopic Skull Base Surgery in 2009: Endonasal clival and odontoid surgery. Annual Clinical Congress of the American College of Surgeons, Chicago, IL, October 13, 2009.
2. Management of the craniovertebral junction in skull base surgery: operative strategies and stabilization. 20th Annual Meeting of the North American Skull Base Society, New Orleans, LA, October 17, 2009.
3. Moderator: Proffered Paper SSO5: Craniovertebral Junction/Pituitary. 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 18, 2011.
4. Panel Lecture: Concurrent Session #9: Pituitary Surgery, 21st Annual Meeting of the North American Skull Base Society, Denver, CO, February 19, 2011.

Visiting Professorships:

1. Endoscopic endonasal approach: from the crista galli to the dens. Department of Neurological Surgery, University of Louisville, Louisville, KY, January 28, 2010.
2. Principles of endoscopic endonasal surgery. Neuroscience Combined Grand Rounds, Department of Neurological Surgery, University of Louisville, Louisville, KY, January 29, 2010.
3. Endoscopic Endonasal Approaches to the Skull Base: Principles and Limitations, Department of Neurosurgery, Memorial Sloan-Kettering Cancer Center, New York, NY, March 26-29, 2010.

Course Faculty:

1. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 10-11, 2004. (Cadaveric Dissection)
2. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, January 7-8, 2005. (Cadaveric Dissection)
3. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, June 3-4, 2005. (Cadaveric Dissection).
4. Kassam AB, Snyderman, CH, Carrau RL, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Mintz AH: Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa, University of Pittsburgh Medical Center, Pittsburgh, PA, October 3-4 , 2005. (Cadaveric Dissection).
5. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, January 27-28, 2006. (Cadaveric Dissection).
6. Kassam AB, Snyderman CH, Carrau RL, Mintz AH, **Gardner PA**. Minimally Invasive Surgery and Endoscopic Skull Base Dissection Course. University of Toronto, Toronto, Ontario, Canada, February 2-3, 2006. (Cadaveric Dissection)

7. Kassam AB, **Gardner PA**. Endoscopic Endonasal Skull Base Surgery. 6th International Hands on Workshop, Naples, Italy, May 22-23, 2006.
8. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, June 2-3, 2006. (Cadaveric Dissection)
9. Kassam AB, Snyderman CH, Carrau R, Scwabassi R, Hirsch B, Horowitz MB, **Gardner P**, Zimmer L. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 21-23, 2006. (Cadaveric Dissection).
10. Kassam AB, **Gardner P**. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa, Las Vegas, NV, December 14, 2006. (Cadaver Prosection)
11. Kassam AB, Snyderman CH, Carrau R, **Gardner P**, Mintz AH, Scwabassi R. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, January 13-15, 2007. (Cadaveric Dissection).
12. Kassam AB, Snyderman CH, Carrau R, **Gardner P**, Mintz AH, Scwabassi R, Vescan A. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, May 31-June 2, 2007. (Cadaveric Dissection).
13. Kassam AB, Snyderman CH, Balzer J, Carrau R, **Gardner P**, Mintz AH, Prevedello DM, Schaitkin BM, Scwabassi R, Stefko ST, Zanation A. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 6-8, 2007. (Cadaveric Dissection).
14. Kassam AB, Snyderman CH, Balzer J, Carrau R, **Gardner P**, Mintz AH, Prevedello DM, Stefko ST, Zanation A. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 23-25, 2007. (Cadaveric Dissection).
15. Kassam AB, Snyderman CH, Balzer J, Carrau R, **Gardner P**, Prevedello DM, Zanation A. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, January 23-25, 2008. (Cadaveric Dissection).
16. Kassam AB, Snyderman CH, Carrau R, **Gardner P**, Prevedello DM, Stefko ST, Zanation A. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, June 1-3, 2008. (Cadaveric Dissection).
17. Kassam AB, Snyderman CH, Carrau R, **Gardner P**, Prevedello DM. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 3-6, 2008. (Cadaveric Dissection).
18. Kassam AB, Snyderman CH, Carrau R, **Gardner P**, Prevedello DM. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, October 22-25, 2008. (Cadaveric Dissection).
19. Kassam AB, Snyderman CH, Carrau R, Prevedello D, **Gardner P**, Stefko ST. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, January 14-17, 2009. (Cadaveric Dissection).
20. Kelly D, Cappabianca P, Teo C, **Gardner P**. 3rd Endonasal & Skull Base Keyhole Surgery Course. Saint John's Health Center, Palm Beach Gardens, FL, February 13-14, 2009.
21. **Gardner P**. Endoscopic Skull Base Surgery. 9th Congress of the European Skull Base Society, Rotterdam, The Netherlands, April 16-19, 2009.

22. **Gardner P.** Endoscopic Transnasal Pituitary Surgery. 8th Hands-On Workshop, Trier, Germany, May 13-14, 2009.
23. **Gardner P.** Duraplasty – How to Create a Nasoseptal Flap. 8th Hands-On Workshop, Trier, Germany, May 13-14, 2009.
24. **Gardner P.** Expanded Endoscopic Endonasal Skull Base Surgery. 8th Hands-On Workshop, Trier, Germany, May 13-14, 2009.
25. **Gardner P.** Transtuberculum/Transplanum Approach. 8th Hands-On Workshop, Trier, Germany, May 13-14, 2009.
26. Snyderman CH, Carrau R, Prevedello D, **Gardner P.** Mini Course: Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, May 20-22, 2009. (Cadaveric Dissection)
27. Snyderman CH, **Gardner P**, Carrau R, Prevedello D. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 13-16, 2009. (Cadaveric Dissection).
28. Kim J, Hsu F, Carrau RL, **Gardner P.** Annual Skull Base Course. Loma Linda University, Loma Linda, CA, September 27-28, 2009. (Cadaveric Dissection)
29. **Gardner P.** Endoscopic Surgical Approaches. 2009 Skills in Neurosurgery Program, Phoenix, AZ, October 2, 2009.
30. Snyderman CH, **Gardner P**, Carrau R, Prevedello D, Fernandez-Miranda J, Stefko ST. Minimally Invasive Endoscopic Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, December 2-5, 2009. (Cadaveric Dissection).
31. Snyderman CH, **Gardner P**, Fernandez-Miranda J, Stefko ST, Ong YK, Lee S, Madhok R. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, March 17-20, 2010. (Cadaveric Dissection)
32. Snyderman CH, **Gardner P**, Fernandez-Miranda J, Stefko ST. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, May 23 - 26, 2010. (Cadaveric Dissection)
33. Snyderman CH, **Gardner P**, Fernandez-Miranda J, Stefko ST. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, September 19-22, 2010. (Cadaveric Dissection)
34. Snyderman CH, **Gardner P**, Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa. Slovenia, November 12 – 14, 2010.
35. Snyderman CH, **Gardner P**, Fernandez-Miranda J, Stefko ST. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa. University of Pittsburgh Medical Center, Pittsburgh, PA, December 7-10, 2010. (Cadaveric Dissection)
36. Snyderman CH, **Gardner PA**, Fernandez-Miranda JC. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa Course. University of Pittsburgh School of Medicine, Pittsburgh, PA, May 18-21, 2011.
37. Snyderman CH, **Gardner PA**, Fernandez-Miranda JC. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa Course. University of Pittsburgh School of Medicine, Pittsburgh, PA, September 18-21, 2011.

38. Snyderman CH, **Gardner PA**, Fernandez-Miranda JC. Endoscopic Endonasal Surgery of the Cranial Base and Pituitary Fossa Course. University of Pittsburgh School of Medicine, Pittsburgh, PA, November 9-12, 2011.

Peer Reviewed Poster Presentations:

1. Maroon J, **Gardner P**: Golf induced stroke from vertebral artery dissection. Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA, October 2001.
2. McFadden K, Hamilton R, Visvisvera G, **Gardner P**, Couce M. Granulomatous amebic encephalitis in a patient with Gardner's syndrome and multiorgan transplant. 8th Annual Meeting of the American Association of Neuropathologists, June 2004.
3. **Gardner P**, Kassam AB, Snyderman C, Carrau R: Lessons learned in endoscopic, endonasal resection of anterior skull base meningiomas. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA, October 2005.
4. **Gardner P**, Kassam AB, Snyderman C, Carrau R: Endoscopic endonasal resection of anterior skull base craniopharyngiomas. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA, October 2005.
5. Kassam AB, **Gardner P**, Snyderman C, Carrau R: Vascular complications of endoscopic cranial base surgery. Annual Meeting of the Congress of Neurological Surgeons, Boston, MA, October 2005.
6. **Gardner P**, Engh JA, Atteberry DS. Hemorrhage rates associated with external ventricular drain placement. Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA, April 2005.
7. Fernandez-Miranda JC, Rivera-Serrano CM, Vaezi AE, Snyderman CH, **Gardner PA**. Endoscopic anatomy of the palatovaginal canal (palatosphenoidal canal): a landmark for dissection of the vidian nerve during endonasal transpterygoid approaches. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 18, 2011.
8. Paluzzi A, Fernandez-Miranda JC, Tormenti M, Pinheiro-Neto C, Snyderman C, **Gardner P**. Anatomico-surgical classification of endoscopic endonasal transclival approaches. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 18, 2011.
9. **Gardner PA**, Shin SS, Tormenti MJ, Challinor SM, Wang T, Fernandez-Miranda JC, Snyderman CH. Endoscopic endonasal surgery for growth hormone secreting pituitary adenomas. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 18, 2011.
10. Vaezi A, Pinheiro-Neto C, Branstetter BH, **Gardner P**, Fernandez-Miranda JC, Snyderman CH. Pneumatization of the lateral recess of sphenoid is correlated with increased separation between the V2 and vidian nerves. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 18, 2011.
11. Pinheiro-Neto CD, Snyderman CH, Fernandez-Miranda JC, Vaezi AE, **Gardner PA**. Extended dissection of nasoseptal flap pedicle for ipsilateral transpterygoid approach. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 19, 2011.
12. Tormenti MJ, Tomycz ND, Wang T, Fernandez-Miranda JC, Snyderman CH, **Gardner PA**. Endoscopic endonasal resection for olfactory groove meningiomas. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 19, 2011.

13. Fernandez-Miranda JC, Pinheiro-Neto CD, Vaezi AE, Paluzzi A, Snyderman CH, **Gardner PA**. Transposition of the pterygopalatine fossa during endonasal endoscopic transpterygoid approaches. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 20, 2011.
14. Rivera-Serrano CM, Pinheiro-Neto CD, Snyderman CH, Fernandez-Miranda JC, Vaezi AE, **Gardner PA**. Posterior pedicle nasoseptal flap for velopharyngeal insufficiency: a novel flap for pharyngoplasty and pharyngeal reconstruction. 21st Annual Meeting of the North American Skull Base Society, Scottsdale, AZ, February 20, 2011.

International Surgical Activities

Telementoring

1. Snyderman CH, **Gardner P**. Endoscopic endonasal surgery for removal of a pituitary macroadenoma performed by Drs. Bostjan Lanisnik and Janez Ravnik, University of Maribor, Slovenia, November 17, 2011.

Live Surgery

1. Snyderman CH, **Gardner P**. Endoscopic endonasal surgery for removal of a pituitary adenoma. Xijing Hospital, Xi'an, China, October 20, 2011.
2. Snyderman CH, **Gardner P**. Endoscopic endonasal surgery for removal of a pituitary macroadenoma. National University of Malaysia Medical Center, Kuala Lumpur, Malaysia, December 9, 2011.
3. Snyderman CH, **Gardner P**. Endoscopic endonasal surgery for removal of a clival chordoma. National University of Malaysia Medical Center, Kuala Lumpur, Malaysia, December 9, 2011.

Fellows Trained: Skull Base Surgery

- | | |
|-------------------------------|----------------|
| 1. Ricky Madhok, MD | 7/1/07-6/30/09 |
| 2. Juan Fernandez-Miranda, MD | 7/1/08-6/30/10 |
| 3. Alessandro Paluzzi, MD | 7/1/10-Present |

RESEARCH

Current Grant Support:

<u>Source / Type</u>	<u>Grant Title / Number</u>	<u>Role in Project and % Effort</u>	<u>Years Inclusive</u>	<u>Amount</u>
Micro Therapeutics, Inc.	ev3 Researching AXIUM Coiling Experience and Recanalization (RACER) Study	Principal Investigator	04/01/2008-Total Patient Recruitment (100)	\$1,500/patient

Pending Grant Support:

<u>Source / Type</u>	<u>Grant Title / Number</u>	<u>Role in Project and % Effort</u>	<u>Years Inclusive</u>	<u>Amount</u>
National Science Foundation	Distributed Active Fiber Sensors in Microstructural Fibers	Co-PI	5/1/12-4/30/15	\$391,718

SERVICE

University of Pittsburgh Medical Center

Center for Cranial Base, Co-Director

2008-Present