

HERBERT SILVERSTEIN, MD, FACS
Curriculum Vitae
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BUSINESS ADDRESS:

1901 Floyd Street
Sarasota, FL 34239
(941) 366-9222 FAX(941) 365-2269
E-mail: hsilverste@aol.com

PERSONAL INFORMATION:

Born: Philadelphia, Pennsylvania - August 6, 1935
Children: Gary Robert and David Neal

SCHOOLING

Central High School - Philadelphia, PA, BA 1949-1953
Dickenson College - Carlisle, PA, Cum Laude, B.Sc., 1953-1957
Temple University Medical School - Phila., PA. MD, 1957-1961
Temple University Medical School - Phila., PA, M.Sc. (Physiology), 1957-1963

PROFESSIONAL TRAINING

Intern: Rotating - Philadelphia General Hospital, Phila., PA. 1961 - 1962
Resident: Surgery - Philadelphia Veterans Hospital, Phila., PA. 1962-1963
Resident: Otolaryngology - Massachusetts Eye & Ear Infirmary Boston, MA. 1963-1966

MILITARY SERVICE

Captain, US Army Medical Corps. Staff Otolaryngologist
Tripler General Hospital - Honolulu, HI 1966-1968

LICENSURE

Diplomat, National Board of Examiners 1962
Pennsylvania 1962
Hawaii 1967
California 1968
Florida 1973

SPECIALTY BOARDS

Diplomat, American Board of Otolaryngology 1967
Sarasota Memorial Hospital 1975

FACULTY APPOINTMENTS

Teaching Fellow: Department of Otolaryngology, Harvard Medical School, Massachusetts Eye & Ear Infirmary, Boston, MA. 1965 - 1966
Clinical Instructor in Otolaryngology: Department of Otolaryngology, Harvard Medical School, Massachusetts Eye & Ear Infirmary, Boston, MA. 1968 – 1971

FACULTY APPOINTMENTS (continued)

Assistant Professor in Otolaryngology: Department of Otorhinolaryngology and Human Communications, University of Pennsylvania Medical School, Philadelphia, PA. 1971-1973

Acting Chairman: Same as above. June – July, 1972

Associate Professor: University of South Florida School of Medicine, Tampa, FL. 1974 – 1975

Assistant Clinical Professor of Surgery: Division of Otolaryngology, University of Florida, Gainesville, FL. 1977 - 1980

Clinical Professor Otorhinolaryngology - Head & Neck Surgery: University of South Florida, School of Medicine, Tampa, FL. 1984

Clinical Professor Otorhinolaryngology - Head & Neck Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA. 1993

EDITORIAL BOARD APPOINTMENTS

ENT Journal

OTHER APPOINTMENTS

Director: Walker Biochemistry Laboratory, Massachusetts Eye & Ear Infirmary, Boston, MA. 1968-1971

Associate Director of Otology Research Laboratory: Presbyterian University of Pennsylvania Medical Center, Philadelphia, PA. 1971-1972

President: Florida Ear & Sinus Center. 1975 - Present

President and Founder: Ear Research Foundation. 1979 - Present

President: Silverstein Institute. 2003 - Present

Director: Clinical Fellowship Program, Ear Research Foundation. 1983 - Present

Medical Director: Ear Research Foundation. 1984 - Present

HOSPITAL APPOINTMENTS

Assistant in Otolaryngology: Massachusetts Eye & Ear Infirmary, Boston, MA. 1968-1971

Attending Otolaryngologist: Hospital of the University of Pennsylvania, Philadelphia, PA. 1971-1974

Associate in Otolaryngology and Bronchoesophagology: Presbyterian University of Pennsylvania Medical Center, Philadelphia, PA. 1971

Consultant: Philadelphia Veterans Administration Hospital, Philadelphia, PA. 1971-1974

Consultant Surgeon: Children's Hospital, Division of Otolaryngology, Philadelphia, PA. 1971

Staff: Tampa Veterans Hospital, Tampa, FL. 1974 - 1975

Active Staff: Sarasota Memorial Hospital, Sarasota, FL. 1975 – Present

HOSPITAL APPOINTMENTS (continued)

Active Staff: Columbia Doctors Hospital - Sarasota, FL. 1975 – 1990

Active Staff: Cape Surgery Center, Sarasota, FL. 1985 – Present

HONORS

- 1957 Cum Laude: Dickenson College
1960 Alpha Omega Alpha: Temple University
1961 SAMA, Honorable Mention: Scientific Forum
1962 Charles Burr Award for Research: Philadelphia General Hospital
1966 First Prize Research Award: American Academy of Otolaryngology
1979 Best Doctors in USA: John Pekkanen, Simon and Shuster
1983 Tracoustics Outstanding Faculty Award: XVII Colorado Otology-Audiology
1984 Best Medical Specialist in the US: Town and Country
1992 Howard P. House Award: Ear Foundation, Nashville, Tennessee
1993 Best Doctors in America: Woodward & White. 1992 & 1993
1995 Guest of Honor: Intituto Otorrinolaringologico Antolicandela (Spain)
1995 Guest Speaker: XXX Graduation of Department of OTO-HNS, University of Puerto Rico School of Medicine
1996 Gold Medal Honor Award & Guest of Honor: Prosper Meniere Society
1997 Distinguished Service Award: American Academy of Otolaryngology-Head and Neck Surgery
1998 Best Doctors in America: Woodward & White
1998 President: Otosclerosis Study Group
1999 Guest of Honor: Canadian ENT Society
2002 Guest of Honor: The Triological Society Southern Section
2002 Presidential Citation: American Academy of Otolaryngology
2004 Guest of Honor: Otosclerosis Study Group
2006 Award of Merit: American Otological Society
2011 American Academy of Otolaryngology Board of Governor's Award
2012 City of Sarasota Proclamation, "Dr. Herbert Silverstein Day", March 9, 2012
2013 Triological Society Vice President Citation, January 2013
2017 Presenter: AAO-HNS Howard House Memorial Lecture
2017 Honor Award – Foundation for Innovation, Education and Research in Otolaryngology
2018 7th Howard House Memorial Lecture, Otology/Neurotology Innovations:
 Despite Skeptics at the AAO-HNS
2019 Marquis Who's Who Top Doctor

RESEARCH ENDOWMENTS

2000. Established the Bi-Annual Young Investigator Award, AAO-HNS and AN Society
2000 Established the Herbert Silverstein Award for Research, Massachusetts Eye and Ear Infirmary/Harvard Medical School

SOCIETY AFFILIATIONS

- 1967 Fellow of the American Academy of Ophthalmology & Otolaryngology
1967 American Board of Otolaryngology
1968 American Neurotology Society
1969 Member- Deafness Research Foundation
1970 New England Otolaryngological Society
1970 Massachusetts Medical Society

SOCIETY AFFILIATIONS (Continued)

- 1970 Otosclerosis Study Group
1970 Association for Research in Otolaryngology
1971 Fellow American College of Surgeons
1971 American Medical Association
1971 American Council of Otolaryngology
1971 Philadelphia County Medical Society

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| 1971 | The College of Physicians of Philadelphia |
| 1972 | Fellow-American Society of Head and Neck Surgery |
| 1972 | Society of University of Otolaryngologists |
| 1972 | Philadelphia Laryngological Society |
| 1972 | Pan Pacific Surgical Association |
| 1972 | The Neurotology Group |
| 1972 | The Triologic Society |
| 1973 | American Otological Society |
| 1973 | Florida Chapter, American College of Surgeons |
| 1973 | Florida Medical Society |
| 1973 | Florida Society of Otolaryngology – Head & Neck Surgery |
| 1973 | Sarasota County Medical Society |
| 1979 | President and Founder of Ear Research Foundation |
| 1989 | Barany Society |
| 1989 | North American Skull Base Society |
| 2003 | President and Founder Silverstein Institute |

SCIENTIFIC PUBLICATIONS

1. Silverstein H. The cortical influence on the vestibular apparatus. *Arch Otolaryngol* 1962;6:158-66.
2. Lindeman RD, Silverstein H. The arrow tube. *Arch Otolaryngol* 1964;80:473.
3. Schuknecht HF, Silverstein H, Lindeman RD, Miller G. Chronic serous otitis media in childhood. *Clin Pediatr* 1964;3:718-27.
4. Silverstein H, Wiener LM. Effect of unilateral cerebral lesions on nystagmus. *Arch Otolaryngol* 1965;81:64-7.
5. Silverstein H. Induced rotational nystagmus in normal infants. *J Pediatr* 1965;67:432-7.
6. Silverstein H, Miller G Jr, Lindeman, RD. Eustachian tube dysfunction as a cause for chronic secretory otitis in children. *Laryngoscope* 1966;76:259-273.
7. Silverstein H. Biochemical and physiologic studies of the endolymphatic sac in the cat. *Laryngoscope* 1966;76:498-512.
8. Bernstein JM, Silverstein H. A study of the anterior cerebellar and labyrinthine arteries in the cat. *Arch Otolaryngol* 1966;83:422-35.
9. Silverstein H, Bernstein JM, Lerner PI. Antibiotic concentrations in middle ear effusions. *Pediatrics* 1966;38:33-9.
10. Ishii T, Silverstein H, Balough K Jr. Metabolic activities of the endolymphatic sac. An enzyme histochemical and autoradiographic study. *Acta Otolaryngol* 1966;62:61-73.
11. Silverstein H. The biochemical study of the inner ear fluids in the cat. *Ann Otol Rhinol Laryngol* 1966;75:48-64.
12. Silverstein H. The malleus clip tube. *Trans Am Acad Ophthalmol Otolaryngol* 1966;640-2.
13. Silverstein H, Schuknecht HF. The biochemical studies of inner ear fluid in man. *Arch Otolaryngol* 1966;84:395-402.
14. Silverstein H, Griffin WL Jr, Balough K Jr. Teratoma of the middle ear and mastoid process with aberrant innervation of the facial musculature. *Arch Otolaryngol* 1966;85:243-8.
15. Silverstein H, Bernstein JM, Davies G. Salicylate ototoxicity - a biochemical and electrophysiological study. *Ann Otol Rhinol Laryngol* 1967;76:118-28.
16. Schuknecht HF, Griffin WL Jr, Davies G, Silverstein H. Chemical evaluation of inner ear fluid as a diagnostic aid. *Acta Otolaryngol* 1968;65:169-73.
17. Griffin WL Jr, Silverstein H, Davies G. Chemical analysis of the inner ear fluids as a diagnostic test for Meniere's disease. *Otolaryngol Clin North Am* 1968 Oct:389-96.
18. Silverstein H. Water-tight aeration plug for indwelling tympanic membrane tubes. *Arch Otolaryngol* 1968;88:118-9.

19. Silverstein H, Davies G, Griffin WL Jr. Cochlear aqueduct obstruction. Changes in perilymph biochemistry. *Ann Otol Rhinol Laryngol* 1968;78:532-42.
20. Silverstein H, Call DL. Tetracaine base - An effective surface anesthetic for the tympanic membrane. *Arch Otolaryngol* 1969;90:150-1.
21. Hale MS, Silverstein H. Practical and theoretical considerations in nerve excitability (NE) testing. *Mil Med* 1969;134:341-7.
22. Silverstein H. Diagnostic labyrinthotomy. Proceedings of the Ninth International Congress of Otolaryngology; 1969 Aug 10-14; Mexico D.F. p. 645-8
23. Griffin WL Jr, Silverstein H. Inner ear fluids in certain human otologic disorders. In: Paparella, MM, editor. *Biochemical Mechanisms in Hearing and Deafness*. Illinois: Charles C Thomas Publisher; 1970. p. 309-21.
24. Silverstein H, Griffin WL Jr. Biochemistry of the inner ear fluids in the cat. In: Paparella, MM, editor. *Biochemical Mechanisms in Hearing and Deafness*. Illinois: Charles C Thomas Publisher; 1970. p. 221-48.
25. Silverstein H, Griffin WL Jr. Diagnostic labyrinthotomy in otologic disorders. *Arch Otolaryngol* 1970;91:414-23.
26. Silverstein H, Griffin WL Jr. Comparison of inner ear fluids in the ante mortem and post-mortem state of the cat. *Ann Otol Rhinol Laryngol* 1970;79:178-86.
27. Silverstein H. Permanent middle ear aeration. *Arch Otolaryngol* 1970;91:313-8.
28. Silverstein H. Diagnostic labyrinthotomy: A new procedure. *Trans Amer Laryngol Rhinol Otol Society* 1970;264-7.
29. Silverstein H. The effects of perfusing the perilymphatic space with artificial endolymph. Presentation Am Otol Society. *Ann Otol Rhinol Laryngol* 1970;79:754-765.
30. Silverstein H. Inner ear fluid proteins in acoustic neuroma, Meniere's disease and otosclerosis. *Ann Otol Rhinol Laryngol* 1971;80:27-35.
31. Silverstein H, Yules RB. The effect of diuretics on cochlear potentials and inner ear fluids. *Laryngoscope* 1971;81:873-88.
32. Silverstein H. Ossicular reconstruction in chronic seromucinous otitis media. *Arch Otolaryngol* 1971;93:42-5.
33. Silverstein H. A micro-chemical test kit and micropipet for inner ear fluid analysis. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:410-1.
34. Silverstein H. Indications for inner ear fluid tap (diagnostic labyrinthotomy) in acoustic neurinoma suspects. *Arch Otolaryngol* 1971;94:195-6.
35. Miller D, Silverstein H, Gacek R. Cryosurgical treatment of carcinoma of the ear. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:1363-7.
36. Palva T, Silverstein H, Forsen R, Raunio. Disc electrophoresis in acoustic neurinoma suspects. *Ann Otol Rhinol Laryngol* 1972;81:106-13.
37. Silverstein H. Surgery for chronic suppurative otitis media. *N Engl J Med* 1972;287-90.
38. Silverstein H. A rapid protein test for acoustic neurinoma. *Arch Otolaryngol* 1972;95:202-4.
39. Silverstein H. *Atlas of the Human and Cat Temporal Bone*. Springfield (IL): CC Thomas Publisher; 1972.
40. Silverstein H. A rapid protein test for inner ear fluid analysis. (New instrument). *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:1030-1.
41. Silverstein H. The dizzy patient. Part I - think first of the causes. *Consultant* 1972 May.
42. Silverstein H. Labyrinthine tap as a diagnostic test for acoustic neurinoma. *Otolaryngol Clin North Am* 1973;6(1):229-44.
43. Silverstein H. The inner ear fluids in man. *Laryngoscope* 1973;83:79-107.
44. Silverstein H, Fabian R, Stool S, Hong SW. Penetrating wounds of the tympanic membrane and ossicular chain. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:125-35.
45. Shu-Ren L, Silverstein H. The false positive roentgenologic diagnosis of small intracanalicular acoustic neurinomas. *AJR Am J Roentgenol* 1973;118:511-6.

46. Silverstein H, Naufal P, Belal A. Causes of elevated perilymph protein concentrations. *Laryngoscope* 1973;83:476-87.
47. Silverstein H, Makimoto K. Superior vestibular and singular nerve section - animal and clinical studies. *Laryngoscope* 1973;83:1414-32.
48. Silverstein H. Surgery of the internal auditory canal. *Trans Am Acad Ophthalmol Otolaryngol* 1973;26:118-25.
49. Silverstein H. Methods of collection and analysis of inner ear fluid. In: Smith C, Vernon, J, editors. *Handbook of auditory and vestibular research methods*. Springfield (IL): Charles C. Thomas Publishing; 1974 p. 420-36.
50. Silverstein H. Ethacrynic acid - its reversible ototoxicity. *Laryngoscope* 1974;84:976-89.
51. Makimoto K, Silverstein H. Sodium and potassium concentrations in the endolymph and perilymph of the cat. *Ann Otol Rhinol Laryngol* 1974;83:174-9.
52. Makimoto K, Silverstein H. Effects of insulin on glucose concentrations in inner ear fluids and cochlear microphonics. *Laryngoscope* 1974;84:722-37.
53. Silverstein H, Takeda T. Sodium loading of inner ear fluids. *Ann Otol Rhinol Laryngol* 1976;75:769-75.
54. Silverstein H. Ear, nose and throat examining console. *Trans Am Acad Ophthalmol Otolaryngol* 1976;110-2.
55. Silverstein H. Transmeatal labyrinthectomy with and without cochleovestibular neurectomy. *Laryngoscope* 1976;86:1777-91.
56. Silverstein H. Biochemistry of inner ear fluids. In: Shambaugh GE Jr, Shea J, editors. *Proceedings of the Shambaugh Fifth International Workshop on Middle Ear Microsurgery and Fluctuant Hearing Loss*. Huntsville (AL): The Strode Publishers; 1977. p. 48-55.
57. Silverstein H. Cotton-tipped applicator and other penetrating wounds of the ear. In: Shambaugh GE Jr, Shea J, editors. *Proceedings of the Shambaugh Fifth International Workshop on Middle Ear Microsurgery and Fluctuant Hearing Loss*. Huntsville (AL): The Strode Publishers; 1977. p. 307-15.
58. Silverstein H, Takeda T. Endolymphatic sac obstruction: Biochemical studies. *Ann Otol Rhinol Laryngol* 1977;86:493-9.
59. Hong SW, Silverstein H, Sadeghee S. The effect of cryosurgery on the canine and human larynx. *Laryngoscope* 1977;87:1079-85.
60. Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume I*. Birmingham (AL): Aesculapius Publishing Company; 1977.
61. Silverstein H. Indications and results of middle fossa vestibular neurectomy. In: Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume I*. Birmingham (AL): Aesculapius Publishing Company; 1977. p. 124-30.
62. Silverstein H: Posterior ampullary nerve section (singular neurectomy). In: Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume I*. Birmingham (AL): Aesculapius Publishing Company; 1977. p. 168-71.
63. Silverstein, H: Transmeatal cochleovestibular neurectomy. In: Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume I*. Birmingham (AL): Aesculapius Publishing Company; 1977. p.176-89.
64. Silverstein H: The history and status of the inner ear tap as a diagnostic test for acoustic neuroma. In: Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume I*. Birmingham (AL): Aesculapius Publishing Company; 1977. p. 216-9.
65. Silverstein H. The effect of the endolymphatic subarachnoid shunt operation on vestibular function. *Laryngoscope* 1978;88:1603-11.
66. Silverstein H. Partial or total eighth nerve section in the treatment of vertigo. *Trans Am Acad Ophthalmol Otolaryngol* 1978;83:47-60.
67. Silverstein H. Diagnostic labyrinthotomy. *Otolaryngology*. Philadelphia (PA): J.B. Lippincott; 1978. Chapter 44.
68. Silverstein H. Microsurgical and allergic treatment of nasal polyps. *Trans Am Acad Ophthalmol Otolaryngol* 1979;7:871:95-100.
69. Silverstein H. Look for all the causes of dizziness. *Consultant* 1979.
70. Silverstein H, Norrell H, editors. *Neurological surgery of the ear, Volume 2*. Birmingham (AL): Aesculapius Publishing Company; 1979.

71. Silverstein H. The endolymphatic sac and Meniere's disease, fact or fiction? Silverstein H, Norrell H, editors. Neurological surgery of the ear, Volume 2. Birmingham (AL): Aesculapius Publishing Company; 1979. p.13-6.
72. Silverstein H. Effect of endolymphatic subarachnoid shunt operation on vestibular function. Silverstein H, Norrell H, editors. Neurological surgery of the ear, Volume 2. Birmingham (AL): Aesculapius Publishing Company; 1979. p. 50-7.
73. Silverstein H. Partial or total eighth nerve section in the treatment of vertigo. Silverstein H, Norrell H, editors. Neurological surgery of the ear, Volume 2. Birmingham (AL): Aesculapius Publishing Company; 1979. p. 93-103.
74. Silverstein H, Norrell H. Subtotal resection of acoustic neuroma in the aged patient. Silverstein H, Norrell H, editors. Neurological surgery of the ear, Volume 2. Birmingham (AL): Aesculapius Publishing Company; 1979. p. 262-8.
75. Silverstein H, Norrell H. Retrolabyrinthine surgery: A direct approach to the cerebellopontine angle. Silverstein H, Norrell H, editors. Neurological surgery of the ear, Volume 2. Birmingham (AL): Aesculapius Publishing Company; 1979.318-22.
76. Silverstein H, Norrell H. Retrolabyrinthine surgery: A direct approach to the cerebellopontine angle. Otolaryngol Head Neck Surg 1980;88:462-9.
77. Silverstein H. Microsurgical and allergic treatment of nasal and sinus polyps. In: Johnson F, Spencer J, editors. Allergy: Immunology and medical treatment. Chicago: YearBook Medical Publishers; 1980. p. 95-9.
78. Silverstein H, Norrell H. Injuries to the facial nerve within the temporal bone. Brackman DE, editor. Neurological surgery of the ear and skull base. New York: Raven Press; 1981. p. 65-75.
79. Silverstein H, Norrell H. Surgical management of acoustic neuromas in the elderly. Brackman DE, editor. Neurological surgery of the ear and skull base. New York: Raven Press; 1981. p. 257-68.
80. Silverstein H, Norrell H. Retrolabyrinthine total vestibular neurectomy. Brackmann DE, editor. Neurological surgery of the ear and skull base. New York: Raven Press; 1981. p. 303-15.
81. Silverstein H. Transmeatal cochleovestibular neurectomy. Brackmann DE, editor. Neurological surgery of the ear and skull base. New York: Raven Press; 1981. p. 323-9.
82. Silverstein H. Singular neurectomy: A treatment for benign positional vertigo. Brackman DE, editor. Neurological surgery of the ear and skull base. New York: Raven Press; 1981. p. 331-5.
83. Wolfson R, Silverstein H, Marlow F, Keels E. Vertigo. Clin Symp 1981;33:1-32.
84. Silverstein H. Silverstein lateral venous sinus retractor. Otolaryngol Head Neck Surg 1981;89:303-4.
85. Silverstein H. Surgery of the facial nerve. J Otolaryngol 1981;10:449-58.
86. Silverstein H. Silverstein wrist rest. Otolaryngol Head Neck Surg 1981;89:305-6.
87. Silverstein H. Bickle knife for microsurgery. Otolaryngol Head Neck Surg 1981;80:302.
88. Silverstein H. Surgery for vertigo (you don't have to live with it.) J Otolaryngol 1981;10:5:343-58.
89. Silverstein H, Norrell H. Retrolabyrinthine vestibular neurectomy. Otolaryngol Head Neck Surg 1982;90:778-82.
90. Silverstein H, Norrell H, Hyman S. Simultaneous use of CO₂ laser with continuous monitoring of eighth cranial nerve action potential during acoustic neuroma surgery. Otolaryngol Head Neck Surg 1984;92:80-4.
91. Silverstein H, Silverstein D, Hyman SM. Cochleosacculotomy. Otolaryngol Head Neck Surg 1984;92:63-6.
92. Silverstein H. Cochlear and vestibular gross and histologic anatomy (as seen from postauricular approach.) Otolaryngol Head Neck Surg 1984;92:207-11.
93. Silverstein H, Silverstein D. Analysis of surgical procedures in patients with vertigo. Otolaryngol Head Neck Surg 1984;92:225-8.
94. Silverstein H, Hyman S, Feldbaum J, Silverstein D. Use of streptomycin sulfate in the treatment of Meniere's disease. Otolaryngol Head Neck Surg 1984;92:229-32.
95. Silverstein H. Streptomycin treatment for Meniere's disease. Ann Otol Rhinol Laryngol 1984;93 Suppl 112 (4 Pt 2):44-7.
96. Feldbaum J, Silverstein H. Streptomycin drug fever during treatment of bilateral Meniere's disease. Arch Otolaryngol 1984;110:538-9.

97. Silverstein H. Mobile treatment system. Otolaryngol Head Neck Surg 1984;92:489-90.
98. Silverstein H, Wazen J, Norrell H, Hyman S. Retrolabyrinthine vestibular neurectomy with simultaneous monitoring of eighth nerve action potentials and electrocochleography. Am J Otol 1984;5;552-5.
99. Preoperative and postoperative growth rates in acoustic neuromas documented with CT scanning. Otolaryngol Head Neck Surg 1985;93:51-155. **Summary available.**
100. Silverstein H, Wazen J, Silverstein D. Micropuncture of the tympanic membrane after tympanoplasty. Otolaryngology Head Neck Surg 1985;93:224-6. **Summary available.**
101. Silverstein H, McDaniel A, Norrell H, Wazen J. Conservative management of acoustic neuroma in the elderly patient. Laryngoscope 1985;95:766-70. **Summary available.**
102. McDaniel AB, Silverstein H, Norrell H. Retrolabyrinthine vestibular neurectomy with and without monitoring of 8th nerve potentials. Am J Otol 1985 Nov; Suppl:23-6.
103. Silverstein H, McDaniel A, Norrell H. Hearing preservation after acoustic neuroma surgery using intraoperative direct eighth cranial nerve monitoring. Am J Otol 1985 Nov; Suppl:99-105.
104. Silverstein H, McDaniel A, Wazen J, Norrell H. Retrolabyrinthine vestibular neurectomy with simultaneous monitoring of 8th nerve and brain stem auditory evoked potentials. Otolaryngol Head Neck Surg 1985;93:736-42.
105. Silverstein H, McDaniel AB, Lichtenstein R. A comparison of PORP, TORP, and incus homograft for ossicular reconstruction in chronic ear surgery. Laryngoscope 1986 Feb;96:159-65. **Summary available.**
106. Silverstein H. Microsurgical instruments and nerve stimulator monitoring for retrolabyrinthine vestibular neurectomy. Otolaryngol Head Neck Surg 1986 Mar;94:409-11.
107. Silverstein H, McDaniel, Norrell H, Haberkamp T. Hearing preservation after acoustic neuroma surgery using intraoperative direct eighth cranial nerve monitoring - Part II - A classification of results. Otolaryngol Head Neck Surg 1986 Oct;95(3 Pt I):285-91. **Summary available.**
108. Silverstein H, Haberkamp T, Smouha E. The state of tinnitus after inner ear surgery. Otolaryngol Head Neck Surg 1986 Nov;95:438-41. **Summary available.**
109. Silverstein H, Norrell H, McDaniel A, Haberkamp T. Complications of retrolabyrinthine vestibular neurectomy. In: Wiet R, Causse, JB, editors. Complications in otolaryngology, Volume 1 - The Ear and Skull Base. Philadelphia (PA): BC Decker, Inc.; 1986.
110. Silverstein H, Norrell H, McDaniel A, Haberkamp T. Retrolabyrinthine vestibular neurectomy. In: Ballantyne JC, Morrison A, editors. Operative Surgery: Ear. 4th Ed. Boston: Butterworth Publishing; 1986 p. 191-5.
111. Silverstein H, Norrell H. Vestibular neurectomy for chronic vertigo. Contemporary Neurosurgery. 1986;8(26): 1-6.
112. Silverstein H, Norrell H, Haberkamp T, McDaniel A. The unrecognized rotation of the vestibular and cochlear nerves from the labyrinth to the brainstem: Its implications in surgery of the eighth cranial nerve. Otolaryngol Head Neck Surg 1986;95:543-9. **Summary available.**
113. Silverstein H, Norrell H, Smouha E. Retrosigmoid-internal auditory canal approach vs. retrolabyrinthine approach for vestibular neurectomy. Otolaryngol Head Neck Surg 1987 Sep;97:300-7.
114. Silverstein H: Vertigo. In: Gates, G, editor. Current therapy in otolaryngology head and neck surgery. 3rd ed. Philadelphia (PA): BC Decker, Inc.; 1987. p. 44-6.
115. McDaniel A, Silverstein H. Worth a thousand words - An illustration after ear surgery. Am J Otol 1987 Jan; 8:39.
116. McDaniel AB, Silverstein H. The treatment of acoustic neuroma and Meniere's disease in the same patient. Otolaryngol Head Neck Surg 1987;96:39-42. **Summary available.**
117. Silverstein H, Norrell H, Haberkamp T. A comparison of retrosigmoid IAC, retrolabyrinthine, and middle fossa vestibular neurectomy for treatment of vertigo. Laryngoscope 1987 Feb;97:165-73.
118. Wazen J, Silverstein H, McDaniel A, Hays A. Brain tissue heterotopia in the eighth cranial nerve. Otolaryngol Head Neck Surg 1987 Apr;96:373-8.
119. Silverstein H, McDaniel A. Microsurgical sphenoethmoidectomy. In: Goldman, J, editor. Principles and practices of rhinology. New York: John Wiley & Sons; 1987. p. 435-442. **Summary available.**

120. Silverstein H, Norrell H, Smouha E, Jones R. Retrolabyrinthine or retrosigmoid vestibular neurectomy: Indications. Am J Otol 1987;8:414-8.
121. Haberkamp T, Silverstein H. Permanent middle ear aeration: Long-term follow-up of transosseous ventilating tubes. Laryngoscope 1987 Oct;97:1145-8. **Summary available.**
122. Silverstein H, Norrell H, Smouha E, Haberkamp T. The singular canal: A valuable landmark in surgery of the internal auditory canal. Otolaryngol Head Neck Surg 1988 Feb;98:138-9. **Summary available.**
123. Silverstein H, Smouha E, Jones R. New microsurgical instruments for retrosigmoid posterior fossa internal canal surgery. Otolaryngol Head Neck Surg 1988 Mar;98:262-5.
124. Silverstein H, Smouha E, Jones R. Routine intraoperative facial nerve monitoring during otologic surgery. Am J Otol 1988 Jul;9:269-75. **Summary available.**
125. Silverstein H, Smouha E, Jones. Routine identification of the facial nerve using electrical stimulation during otological and neurotological surgery. Laryngoscope 1988 Jul;98:726-30. **Summary available.**
126. Smouha E, Silverstein H, Morgan N. Multi-channel cochlear implant in a patient with bilateral Mondini deformities. Am J Otol 1988 Nov;9:451-5.
127. Silverstein H, Smouha E, Jones R. Natural history vs. surgery for Meniere's disease. Otolaryngol Head Neck Surg. 1989 Jan;100:6-16. **Summary available.**
128. Jones R, Silverstein H, Smouha E. Long-term results of transmeatal cochleovestibular neurectomy: An analysis of 100 cases. Otolaryngol Head Neck Surg 1989 Jan;100:22-9. **Summary available.**
129. Silverstein H, Rosenberg S, Jones R. Small fenestra stapedotomies with and without KTP laser: A comparison. Laryngoscope 1989 May;99:485-8. **Summary available.**
130. Silverstein H, Norrell H, Smouha E, Jones R. Combined retrolab-retrosigmoid vestibular neurectomy: An evolution in approach. Am J Otol 1989 May;10:166-9.
131. Smouha E, Silverstein, Jones R. Intratympanic & parenteral streptomycin therapy for Meniere's disease. In: Nadol JB Jr, Editor. Meniere's disease: pathogenesis, pathophysiology, diagnosis, treatment. Berkeley (CA): Kugler & Ghedini Publications; 1989. p. 451-8.
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