


Neil Gesundheit

George DeForest Barnett Founders Professor of Medicine and Professor (Teaching) of Medicine (Endocrinology)

Medicine - Endocrinology, Gerontology, & Metabolism

 NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Endocrinology and Cutaneous Oncology Clinic**

900 Blake Wilbur Dr Rm W3045

MC 5309

Stanford, CA 94305

Tel (650) 724-9622 **Fax** (650) 725-7855

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Neil Gesundheit - Professor of Medicine

Email neil7@stanford.edu

Tel 650-724-5454

Bio

BIO

Dr. Neil Gesundheit is a board-certified endocrinologist who trained at Stanford and UCSF in internal medicine and at the National Institutes of Health (NIDDK) in endocrinology and metabolism. He sees hospitalized endocrine patients at Stanford and at the Palo Alto Veterans Administration Hospital. Dr. Gesundheit directs the second-year medical student endocrine physiology module, teaches in the Practice of Medicine course, and served for 26 years in the Dean's office, most recently as the Senior Associate Dean for Medical Education overseeing implementation of the Discovery Curriculum. Dr. Gesundheit served as the Faculty Lead for the LCME visit of 2022, leading to an 8-year re-accreditation of the School of Medicine.

CLINICAL FOCUS

- Endocrinology
- Thyroid disorders
- Endocrinology / Diabetes
- Diabetes and Metabolism

ACADEMIC APPOINTMENTS

- Professor (Teaching), Medicine - Endocrinology, Gerontology, & Metabolism

ADMINISTRATIVE APPOINTMENTS

- Senior Advisor in Medical Education to the Dean, Stanford University School of Medicine, (2024-2025)
- Senior Associate Dean for Medical Education, Stanford University School of Medicine, (2017-2024)
- LCME Reaccreditation Faculty Lead, Stanford University School of Medicine, (2019-2024)
- Associate Dean for Academic Advising, Stanford University School of Medicine, (2006-2019)
- Associate Dean for Medical Education, Stanford University School of Medicine, (1999-2006)
- Department of Medicine, Appointments and Promotions (A&P) Committee, Stanford University School of Medicine, (2013- present)

HONORS AND AWARDS

- The Oscar Salvatierra Award for Exceptional Service to Stanford Students and the School of Medicine, Stanford University School of Medicine (2025)
- The Lawrence H. Mathers, Jr. Award for Exceptional Commitment to Teaching and M.D. Student Education, Stanford University School of Medicine (2018)
- RISE Award (Reach, Inspire, Serve, Engage), Stanford Medicine Alumni Association, Stanford University School of Medicine (2017)
- Stanford Medicine Award for Excellence in Promotion of Humanism, Stanford University School of Medicine (2017)
- Medical School Award for Excellence in Promotion of the Learning Environment and Student Wellness, Stanford University School of Medicine (2015)
- The Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2009)
- The Lawrence H. Mathers, Jr. Award for Exceptional Commitment to Teaching and M.D. Student Education, Stanford University School of Medicine (2007)
- The Compassion in Medicine Award, Lance Armstrong Foundation (2005)
- The Department of Medicine Endocrinology Division Teaching Award, Stanford University School of Medicine (2005)
- The Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2004)
- The Arthur L. Bloomfield Award for Excellence in the Teaching of Clinical Medicine, Stanford University School of Medicine (2003)
- The Henry J. Kaiser Family Foundation Award for Excellence in Clinical Teaching, Stanford University School of Medicine (2003)
- The Department of Medicine Endocrinology Division Teaching Award, Stanford University School of Medicine (2002)
- The Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2002)
- Alpha Omega Alpha, University of California, San Francisco School of Medicine (1977)
- Harvard College Scholar, Harvard University (1970-74)

PROFESSIONAL EDUCATION

- Fellowship: National Institutes of Health (1989) MD
- Board Certification: Endocrinology, Diabetes and Metabolism, American Board of Internal Medicine (1985)
- Chief Residency, Santa Clara Valley Medical Center , CA (1982)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1981)
- Residency: UCSF Dept of Internal Medicine (1981) CA
- Residency: Stanford University Internal Medicine Residency (1980) CA
- Internship: Stanford University Internal Medicine Residency (1979) CA
- M.P.H., University of California, Berkeley School of Public Health (1978)
- M.D., University of California, San Francisco School of Medicine (1978)
- A.B., Harvard College , Biochemical Sciences (1974)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our medical education research group is developing and validating the best educational practices to train competent, compassionate, and ethical physicians and physician-scientists. We are studying the use of standardized patients and other modalities to improve clinical skill training and reasoning. We are interested in applying the rigor of clinical investigation to education research.

My areas of clinical interest in endocrinology include disorders of the pituitary, thyroid, and gonad.

Teaching

COURSES

2025-26

- Science of Medicine II-B: INDE 222B (Aut)

2024-25

- Science of Medicine II-B: INDE 222B (Aut)

2023-24

- Science of Medicine II-B: INDE 222B (Aut)

2022-23

- Science of Medicine II-B: INDE 222B (Aut)

STANFORD ADVISEES

Academic Advising Dean

Jacqueline Aredo, Laura Bloomfield, Ruth Case, Imilce Castro, Grace Cho, Megan Garland, Anjali Jotwani, Mehr Kashyap, Alice Li, Amrapali Maitra, Trishna Narula, Teresa Nguyen, Maya Ramachandran, Rosyli Reveron Miramontes, Janelle Ruiz, Chloe Stanwyck, Paige Wolstencroft, Yufan Wu

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Vasopressin deficiency: a hypothesized driver of both social impairment and fluid imbalance in autism spectrum disorder.** *Molecular psychiatry*
Clarke, L., Gesundheit, N., Sherr, E. H., Hardan, A. Y., Parker, K. J.
2024
- **Maturing through awareness: An exploratory study into the development of educational competencies, identity, and mission of medical educators.** *Medical teacher*
Ottenhoff-de Jonge, M. W., van der Hoeven, I., Gesundheit, N., Kramer, A. W., van der Rijst, R. M.
2023: 1-9
- **Use of the Community of Inquiry Framework to Measure Student and Facilitator Perceptions of Online Flipped Classroom Compared with Online Lecture Learning in Undergraduate Medical Education.** *Advances in medical education and practice*
Chang, J. J., Hain, A., Dosiou, C., Gesundheit, N.
2023; 14: 963-972
- **The Student Guidance Program: Applying an Executive Coaching Model to Medical Student Remediation.** *Academic medicine : journal of the Association of American Medical Colleges*
Ariel, D., Lau, J., Osterberg, L., Gesundheit, N., Brar, K., Merrell, S. B.
2022; 97 (11S): S117
- **The Student Guidance Program: Applying an Executive Coaching Model to Medical Student Remediation.** *Academic medicine : journal of the Association of American Medical Colleges*
Ariel, D., Lau, J., Osterberg, L., Gesundheit, N., Brar, K., Merrell, S. B.
2022; 97 (11S): S117
- **The Student Guidance Program: Applying an Executive Coaching Model to Medical Student Remediation.** *Academic medicine : journal of the Association of American Medical Colleges*
Ariel, D., Lau, J., Osterberg, L., Gesundheit, N., Brar, K., Merrell, S. B.

2022; 97 (11S): S117

- **Medical educators' beliefs about teaching, learning, and knowledge: development of a new framework.** *BMC medical education*
Ottenhoff-de Jonge, M. W., van der Hoeven, I., Gesundheit, N., van der Rijst, R. M., Kramer, A. W.
2021; 21 (1): 176
- **The National Board of Medical Examiners on Potential Conflicts of Interest Reply** *ACADEMIC MEDICINE*
Gesundheit, N.
2020; 95 (9): 1291
- **In Reply to Tallia et al.** *Academic medicine : journal of the Association of American Medical Colleges*
Gesundheit, N.
2020; 95 (9): 1291
- **Stanford University School of Medicine** *ACADEMIC MEDICINE*
Bernstein, D., Irvine, C. A., Basaviah, P., Lau, J. N., Austin, B., Utz, P. J., Gesundheit, N.
2020; 95 (9): S50–S53
- **A Crisis of Trust Between U.S. Medical Education and the National Board of Medical Examiners.** *Academic medicine : journal of the Association of American Medical Colleges*
Gesundheit, N.
2019
- **From critic to inspirer: four profiles reveal the belief system and commitment to educational mission of medical academics.** *BMC medical education*
Ottenhoff-de Jonge, M. W., van der Rijst, R. M., Gesundheit, N. n., van Staveren, L. N., Assendelft, W. J., Dekker, F. W., Scherpbier, A. J., Kramer, A. W.
2019; 19 (1): 268
- **Promoting student case creation to enhance instruction of clinical reasoning skills: a pilot feasibility study** *Advances in Medical Education and Practice*
Chandrasekar, H., Gesundheit, N., Nevins, A. B., Pompei, P., Bruce, J., Bereknyci Merrell, S.
2018; 2018 (9): 249-257
- **Is a career in medicine the right choice? The impact of a physician shadowing program on undergraduate premedical students** *ACADEMIC MEDICINE*
Wang, J. Y., Lin, H., Lewis, P. Y., Fetterman, D. M., Gesundheit, N.
2015; 90 (5): 629-33
- **Filling the treatment gap in the weight management of overweight and obese patients** *INTERNATIONAL JOURNAL OF OBESITY SUPPL.*
Gesundheit, N.
2012; 2: S39-S42
- **Does the Duration of a Scholarly Concentration Affect Medical Students' Productivity?** *ACADEMIC MEDICINE*
Laskowitz, D. T., Drucker, R. P., Gesundheit, N.
2011; 86 (1): 3
- **Impact of student ethnicity and patient-centredness on communication skills performance** *MEDICAL EDUCATION*
Hauer, K. E., Boscardin, C., Gesundheit, N., Nevins, A., Srinivasan, M., Fernandez, A.
2010; 44 (7): 653-661
- **Empowerment Evaluation: A Collaborative Approach to Evaluating and Transforming a Medical School Curriculum** *ACADEMIC MEDICINE*
Fetterman, D. M., Deitz, J., Gesundheit, N.
2010; 85 (5): 813-820
- **Engaging Students in Dedicated Research and Scholarship During Medical School: The Long-Term Experiences at Duke and Stanford** *ACADEMIC MEDICINE*
Laskowitz, D. T., Drucker, R. P., Parsonnet, J., Cross, P. C., Gesundheit, N.
2010; 85 (3): 419-428
- **Medical Education for a Healthier Population: Reflections on the Flexner Report From a Public Health Perspective** *ACADEMIC MEDICINE*

- Maeshiro, R., Johnson, I., Koo, D., Parboosingh, J., Carney, J. K., Gesundheit, N., Ho, E. T., Butler-Jones, D., Donovan, D., Finkelstein, J. A., Bennett, N. M., Shore, B., McCurdy, et al
2010; 85 (2): 211-219
- **The use of virtual patients to assess the clinical skills and reasoning of medical students: initial insights on student acceptance.** *Medical Teacher*
Gesundheit N, Brutlag P, Youngblood P, Gunning WT, Zary N, Fors U
2009; 31 (8): 739-42
 - **Integrating Collaborative Population Health Projects into a Medical Student Curriculum at Stanford** *ACADEMIC MEDICINE*
Chamberlain, L. J., Wang, N. E., Ho, E. T., Banchoff, A. W., Braddock, C. H., Gesundheit, N.
2008; 83 (4): 338-344
 - **Acute hepatitis associated with the use of an herbal supplement (Polygonum multiflorum) mimicking iron-overload syndrome.** *J Clin Gastroenterol.*
Laird AR, Ramchandani N, deGoma EM, Avula B, Khan IA, Gesundheit N
2008; 42 ((7)): 861-2
 - **Does feedback matter? Practice-based learning for medical students after a multi-institutional clinical performance examination** *MEDICAL EDUCATION*
Srinivasan, M., Hauer, K. E., Der-Martirosian, C., Wilkes, M., Gesundheit, N.
2007; 41 (9): 857-865
 - **The effect of transurethral alprostadil on the quality of life of men with erectile dysfunction, and their partners** *BRITISH JOURNAL OF UROLOGY*
Williams, G., Abbou, C. C., Amar, E. T., Desvaux, P., Flam, T. A., Nijeholt, G. A., Lynch, S. F., Morgan, R. J., Muller, S. C., Porst, H., Pryor, J. P., Ryan, P., Witzsch, et al
1998; 82 (6): 847-854
 - **Efficacy and safety of transurethral alprostadil in patients with erectile dysfunction following radical prostatectomy** *92nd Annual Meeting of the American-Urological-Association*
Costabile, R. A., Spevak, M., Fishman, I. J., Govier, F. E., Hellstrom, W. J., Shabsigh, R., Nemo, K. J., Rapport, J. L., Tam, P. Y., Weldon, K. L., Gesundheit, N.
ELSEVIER SCIENCE INC.1998: 1325–28
 - **Changes in thyroid hormone levels during growth hormone therapy in initially euthyroid patients: Lack of need for thyroxine supplementation** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Wyatt, D. T., Gesundheit, N., Sherman, B.
1998; 83 (10): 3493-3497
 - **Hemodynamic effects of transurethral alprostadil measured by color duplex ultrasonography in men with erectile dysfunction** *Annual Meeting of American-Urological-Association*
Tam, P. Y., Keller, T., Poppiti, R., Gesundheit, N., Padma-Nathan, H.
ELSEVIER SCIENCE INC.1998: 1321–24
 - **Efficacy and safety of transurethral alprostadil therapy in men with erectile dysfunction** *BRITISH JOURNAL OF UROLOGY*
Williams, G., Abbou, C. C., Amar, E. T., Desvaux, P., Flam, T. A., Lycklama a Nijeholt, G. A., Lynch, S. F., Morgan, R. J., Muller, S. C., Porst, H., Pryor, J. P., Ryan, P., Witzsch, et al
1998; 81 (6): 889-894
 - **Effects of alprostadil and prazosin on motility, viability and membrane integrity of human sperm** *JOURNAL OF UROLOGY*
Hellstrom, W. J., Wang, R., Peterson, C. A., Varady, J. C., Gesundheit, N., Sikka, S. C.
1998; 159 (5): 1559-1562
 - **Erectile response to transurethral alprostadil, prazosin and alprostadil-prazosin combinations** *Annual Meeting of American-Urological-Association*
Peterson, C. A., Bennett, A. H., Hellstrom, W. J., Kaiser, F. E., Morley, J. E., Nemo, K. J., Padma-Nathan, H., Place, V. A., Prendergast, J. J., Tam, P. Y., Tanagho, E. A., Todd, L. K., Varady, et al
ELSEVIER SCIENCE INC.1998: 1523–27
 - **Body composition of HIV/AIDS males: Effects of treatment with insulin-like growth factor (IGF-I) and growth hormone (GH)** *International Symposium on In Vivo Body Composition Studies*

- Ellis, K. J., Lee, P. D., Pivarnik, J. M., Bukar, J. G., Gesundheit, N.
PERGAMON-ELSEVIER SCIENCE LTD.1998: 653–55
- **Pilot study of the immunologic effects of recombinant human growth hormone and recombinant insulin-like growth factor in HIV-infected patients** *1995 Annual Meeting of the Laboratory-of-Tumor-Cell-Biology*
Nguyen, B. Y., CLERICI, M., VENZON, D. J., Bauza, S., Murphy, W. J., Longo, D. L., Baseler, M., Gesundheit, N., Broder, S., Shearer, G., Yarchoan, R.
LIPPINCOTT WILLIAMS & WILKINS.1998: 895–904
 - **Intravenous insulin-like growth factor-I (IGF-I) in moderate-to-severe head injury: a Phase II safety and efficacy trial.** *Neurosurgical focus*
Hatton, J., Rapp, R. P., Kudsk, K. A., Brown, R. O., Luer, M. S., Bukar, J. G., Chen, S. A., McClain, C. J., Gesundheit, N., Dempsey, R. J., Young, B.
1997; 2 (5): ECP1-?
 - **Intravenous insulin-like growth factor-I (IGF-I) in moderate-to-severe head injury: A Phase II safety and efficacy trial** *JOURNAL OF NEUROSURGERY*
Hatton, J., Rapp, R. P., Kudsk, K. A., Brown, R. O., Luer, M. S., Bukar, J. G., Chen, S. A., McClain, C. J., Gesundheit, N., Dempsey, R. J., Young, B.
1997; 86 (5): 779-786
 - **Adjunctive growth hormone during ovarian hyperstimulation increases levels of insulin-like growth factor binding proteins in follicular fluid: A randomized, placebo-controlled, cross-over study** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Rabinovici, J., Cataldo, N. A., Dandekar, P., Rosenthal, S. M., Gargosky, S. E., Gesundheit, N., Martin, M. C.
1997; 82 (4): 1171-1176
 - **Dual hormonal replacement therapy with insulin and recombinant human insulin-like growth factor (IGF)-I in insulin-dependent diabetes mellitus: Effects on the growth hormone IGF IGF-binding protein system** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Thraillkill, K., Quattrin, T., Baker, L., Litton, J., Dwigun, K., Rearson, M., POPPENHEIMER, M., KOTLOVKER, D., Giltinan, D., Gesundheit, N., Martha, P.
1997; 82 (4): 1181-1187
 - **Dual hormonal replacement with insulin and recombinant human insulin-like growth factor I in IDDM - Effects on glycemic control, IGF-I levels, and safety profile** *DIABETES CARE*
Quattrin, T., Thraillkill, K., Baker, L., Litton, J., Dwigun, K., Rearson, M., POPPENHEIMER, M., Giltinan, D., Gesundheit, N., Martha, P.
1997; 20 (3): 374-380
 - **Treatment of men with erectile dysfunction with transurethral alprostadil** *53rd Annual Meeting of the American-Geriatrics-Society*
PADMANATHAN, H., Hellstrom, W. J., Kaiser, F. E., Labasky, R. F., Lue, T. F., Nolten, W. E., NORWOOD, P. C., Peterson, C. A., Shabsigh, R., Tam, P. Y., Place, V. A., Gesundheit, N.
MASS MEDICAL SOC.1997: 1–7
 - **Recombinant human growth hormone, insulin-like growth factor 1, and combination therapy in AIDS-associated wasting - A randomized, double-blind, placebo-controlled trial** *ANNALS OF INTERNAL MEDICINE*
Waters, D., Danska, J., Hardy, K., Koster, F., Qualls, C., Nickell, D., Nightingale, S., Gesundheit, N., Watson, D., Schade, D.
1996; 125 (11): 865-?
 - **A double-blind, placebo-controlled evaluation of the erectile response to transurethral alprostadil** *55th Annual Meeting and Scientific Sessions of the American-Diabetes-Association*
Hellstrom, W. J., Bennett, A. H., Gesundheit, N., Kaiser, F. E., Lue, T. F., PADMANATHAN, H., Peterson, C. A., Tam, P. Y., Todd, L. K., Varady, J. C., Place, V. A.
ELSEVIER SCIENCE INC.1996: 851–56
 - **Changes in body composition of human immunodeficiency virus-infected males receiving insulin-like growth factor I and growth hormone** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Ellis, K. J., Lee, P. D., Pivarnik, J. M., Bukar, J. G., Gesundheit, N.
1996; 81 (8): 3033-3038
 - **A randomized, placebo-controlled trial of combined insulin-like growth factor I and low dose growth hormone therapy for wasting associated with human immunodeficiency virus infection** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Lee, P. D., Pivarnik, J. M., Bukar, J. G., Muurahainen, N., Berry, P. S., Skolnik, P. R., Nerad, J. L., Kudsk, K. A., Jackson, L., Ellis, K. J., Gesundheit, N.
1996; 81 (8): 2968-2975
 - **Pharmacokinetics of insulin-like growth factor-1 in advanced chronic renal failure** *KIDNEY INTERNATIONAL*

- Rabkin, R., Fervenza, F. C., Maidment, H., Ike, J., Hintz, R., Liu, F., Bloedow, D. C., Hoffman, A. R., Gesundheit, N.
1996; 49 (4): 1134-1140
- **MUTATIONS OF THE GROWTH-HORMONE RECEPTOR IN CHILDREN WITH IDIOPATHIC SHORT STATURE** *NEW ENGLAND JOURNAL OF MEDICINE*
Goddard, A. D., Covello, R., Luoh, S. M., Clackson, T., Attie, K. M., Gesundheit, N., Rundle, A. C., Wells, J. A., Carlsson, L. M.
1995; 333 (17): 1093-1098
 - **DYNAMIC CHANGES OF GROWTH HORMONE-BINDING PROTEIN CONCENTRATIONS IN NORMAL MEN AND PATIENTS WITH ACROMEGALY - EFFECTS OF SHORT-TERM FASTING** *METABOLISM-CLINICAL AND EXPERIMENTAL*
Ho, P. J., Gesundheit, N., Wong, W. L., Huang, S. H., FRIBERG, R. D., Barkan, A. L.
1995; 44 (5): 667-672
 - **EFFECTS OF RECOMBINANT HUMAN GROWTH-HORMONE ON METABOLIC INDEXES, BODY-COMPOSITION, AND BONE TURNOVER IN HEALTHY ELDERLY WOMEN** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Holloway, L., Butterfield, G., Hintz, R. L., Gesundheit, N., Marcus, R.
1994; 79 (2): 470-479
 - **COMPARISON OF THE METABOLIC EFFECTS OF RECOMBINANT HUMAN INSULIN-LIKE GROWTH-FACTOR-I AND INSULIN - DOSE-RESPONSE RELATIONSHIPS IN HEALTHY-YOUNG AND MIDDLE-AGED ADULTS** *JOURNAL OF CLINICAL INVESTIGATION*
BOULWARE, S. D., Tamborlane, W. V., Rennert, N. J., Gesundheit, N., Sherwin, R. S.
1994; 93 (3): 1131-1139
 - **A LONGITUDINAL ASSESSMENT OF HORMONAL AND PHYSICAL ALTERATIONS DURING NORMAL PUBERTY IN BOYS .1. SERUM GROWTH HORMONE-BINDING PROTEIN** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Martha, P. M., Rogol, A. D., Carlsson, L. M., Gesundheit, N., Blizzard, R. M.
1993; 77 (2): 452-457
 - **LIGAND-MEDIATED IMMUNOFUNCTIONAL ASSAY FOR QUANTITATION OF GROWTH HORMONE-BINDING PROTEIN IN HUMAN BLOOD** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Carlsson, L. M., Rowland, A. M., Clark, R. G., Gesundheit, N., Wong, W. L.
1991; 73 (6): 1216-1223
 - **CHANGES IN THE SIALYLATION AND SULFATION OF SECRETED THYROTROPIN IN CONGENITAL HYPOTHYROIDISM** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
GYVES, P. W., Gesundheit, N., Thotakura, N. R., Stannard, B. S., DeCherney, G. S., Weintraub, B. D.
1990; 87 (10): 3792-3796
 - **PRETRANSLATIONAL AND POSTTRANSLATIONAL REGULATION OF TSH - RELATIONSHIP TO BIOACTIVITY** *INTERNATIONAL SYMP ON PHYSIOLOGICAL REGULATION AND BIOLOGICAL FUNCTION OF THYREOTROPIN*
Weintraub, B. D., Wondisford, F. E., FARR, E. A., Steinfeld, H. J., Radovick, S., Gesundheit, N., GYVES, P. W., Taylor, T., DeCherney, G. S.
GEORG THIEME VERLAG KG.1990: 9-11
 - **A BASE MUTATION OF THE C-ERBA-BETA THYROID-HORMONE RECEPTOR IN A KINDRED WITH GENERALIZED THYROID-HORMONE RESISTANCE - MOLECULAR HETEROGENEITY IN 2 OTHER KINDREDS** *JOURNAL OF CLINICAL INVESTIGATION*
Usala, S. J., Tennyson, G. E., Bale, A. E., Lash, R. W., Gesundheit, N., Wondisford, F. E., Accili, D., Hauser, P., Weintraub, B. D.
1990; 85 (1): 93-100
 - **DIFFERENTIAL EFFECT OF INHIBITORS OF OLIGOSACCHARIDE PROCESSING ON THE SECRETION OF THYROTROPIN FROM DISPERSED RODENT PITUITARY-CELLS** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Stannard, B. S., Gesundheit, N., Thotakura, N. R., GYVES, P. W., Ronin, C., Weintraub, B. D.
1989; 165 (2): 788-794
 - **PREOPERATIVE LATERALIZATION OF PITUITARY MICROADENOMAS BY PETROSAL SINUS SAMPLING - UTILITY IN 2 PATIENTS WITH NON-ACTH SECRETING TUMORS** *AMERICAN JOURNAL OF MEDICINE*
Frank, S. J., Gesundheit, N., DOPPMAN, J. L., MILLER, D. L., Merriam, G. R., Oldfield, E. H., Weintraub, B. D.
1989; 87 (6): 679-682
 - **THYROTROPIN-SECRETING PITUITARY-ADENOMAS - CLINICAL AND BIOCHEMICAL HETEROGENEITY - CASE-REPORTS AND FOLLOW-UP OF 9 PATIENTS** *ANNALS OF INTERNAL MEDICINE*
Gesundheit, N., PETRICK, P. A., Nissim, M., DAHLBERG, P. A., DOPPMAN, J. L., Emerson, C. H., Braverman, L. E., Oldfield, E. H., Weintraub, B. D.

1989; 111 (10): 827-835

- **PRE-TRANSLATIONAL AND POSTTRANSLATIONAL REGULATION OF TSH SYNTHESIS IN NORMAL AND NEOPLASTIC THYROTROPHS** *HORMONE RESEARCH*
Weintraub, B. D., Wondisford, F. E., FARR, E. A., Steinfeldler, H. J., Radovick, S., Gesundheit, N., GYVES, P. W., Taylor, T., DeCherney, G. S.
1989; 32 (1-3): 22-24
- **CHARACTERIZATION AND CHARGE-DISTRIBUTION OF THE ASPARAGINE-LINKED OLIGOSACCHARIDES ON SECRETED MOUSE THYROTROPIN AND FREE ALPHA-SUBUNITS** *ENDOCRINOLOGY*
Gesundheit, N., GYVES, P. W., DeCherney, G. S., Stannard, B. S., Winston, R. L., Weintraub, B. D.
1989; 124 (6): 2967-2977
- **EFFECT OF TRH ON TSH GLYCOSYLATION AND BIOLOGICAL ACTION** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Weintraub, B. D., Gesundheit, N., Taylor, T., GYVES, P. W.
1989; 553: 205-213
- **ALTERATIONS IN THE GLYCOSYLATION OF SECRETED THYROTROPIN DURING ONTOGENESIS - ANALYSIS OF SIALYLATED AND SULFATED OLIGOSACCHARIDES** *JOURNAL OF BIOLOGICAL CHEMISTRY*
GYVES, P. W., Gesundheit, N., Stannard, B. S., DeCherney, G. S., Weintraub, B. D.
1989; 264 (11): 6104-6110
- **ALTERATIONS IN THE SIALYLATION AND SULFATION OF SECRETED MOUSE THYROTROPIN IN PRIMARY HYPOTHYROIDISM** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
DeCherney, G. S., Gesundheit, N., GYVES, P. W., Showalter, C. R., Weintraub, B. D.
1989; 159 (2): 755-762
- **TIGHT LINKAGE BETWEEN THE SYNDROME OF GENERALIZED THYROID-HORMONE RESISTANCE AND THE HUMAN C-ERBA-BETA GENE** *MOLECULAR ENDOCRINOLOGY*
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