



## Philip M. Hanno

Clinical Professor, Urology

 Curriculum Vitae available Online

### CLINICAL OFFICES

- **Urology**

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### Bio

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#### BIO

Dr. Philip Hanno specializes in the treatment of urologic chronic pain syndromes including bladder pain syndrome/interstitial cystitis and chronic pelvic pain syndrome in men (nonbacterial prostatitis). He sees patients with voiding dysfunction, urinary tract infection, and general urologic problems as well. From 1981 to 1990 he was an Associate Professor of Urology at the Hospital of the University of Pennsylvania and Chief of Urology at the Philadelphia Veterans Administration Medical Center. For the next decade he was Chairman of Urology at Temple University School of Medicine. After a year as a medical officer in the Food and Drug Administration in Washington, he returned to the University of Pennsylvania in 1999 as Professor of Urology. He came to Stanford in October 2016.

He has studied bladder pain syndrome both from a basic science and clinical perspective for much of his career and has published extensively on the syndrome. He is co-chair of the Medical Advisory Board of the Interstitial Cystitis Association and on the executive board of the International Society for the Study of Bladder Pain Syndrome (ESSIC). He is the past Chair of the Bladder Pain Syndrome Guideline Committee of the American Urological Association.

Dr. Hanno focuses on the non-operative management of common urologic conditions with his special interest being helping patients with urologic chronic pain syndromes.

#### CLINICAL FOCUS

- Urology

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Urology

#### ADMINISTRATIVE APPOINTMENTS

- Chief of Urology, Philadelphia Veterans Administration Medical Center, (1981-1990)
- Chairman Department of Urology, Temple University School of Medicine, (1990-1998)
- Director, Center for the Study of Male Sexual Dysfunction, Hospital of University of Pennsylvania, (1981-1990)

- Director, Women's Center for the Evaluation and Treatment of Interstitial Cystitis, Hospital of the University of Pennsylvania, (1985-1990)
- Director Infection, Inflammation, and Interstitial Cystitis Program, Hospital of the University of Pennsylvania, (1999-2016)
- Medical Director, Clinical Effectiveness and Quality, University of Pennsylvania Health System, (2000-2005)
- Patient Safety Officer, Clinical Practices of the University of Pennsylvania, (2006-2007)

### **HONORS AND AWARDS**

- Best Reviewer, Journal of Urology (2013)
- Most Outstanding Reviewer, Journal of Urology (2008)
- Honorable Mention: Best Reviewers, Journal of Urology (2006)
- Immergut Honorary Lectureship, Maimonides Medical Center, Brooklyn (1996)
- Most Valuable Player Award, Interstitial Cystitis Association (1993)
- Special Award, Interstitial Cystitis Association (1990)
- Second Prize, "Urinary Tract Infection in Pregnancy", Philadelphia Urologic Society Essay Contest (1980)
- Third Prize, "The Effect of Preexisting Bacteriuria on t Bladder Resistance to Superinfection", Philadelphia Urologic Society Essay Contest (1979)
- First Prize, "Heparin as an Antibacterial Agent in the Rabbit Bladder", Philadelphia Urological Society Essay Contest (1978)

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Executive Committee, International Society for the Study of Bladder Pain Syndrome (ESSIC) (2010 - present)
- Editorial Board, Urology Times (1990 - present)
- Co-Director MultiDisciplinary Approach to the Study of Chronic Pelvic Pain, NIDDK of National Institutes of Health (2008 - 2014)
- Bone, Reproductive, and Urologic Drugs Advisory Panel, voting Ad Hoc member, Food and Drug Administration (2000 - present)
- Chair Painful Bladder Committee, International Consultation on Urinary Incontinence (2004 - present)
- Medical Advisory Board, International Painful Bladder Foundation (2005 - present)
- Co-Chair Medical Advisory Board, Interstitial Cystitis Association (1997 - present)
- Program Committee, American Urological Association (2004 - 2004)
- Education Council, American Urological Association (2003 - 2005)
- Chairman of Audio-Visual Committee, American Urological Association (2003 - 2005)
- Chairman, Video Library, American Urological Association (1998 - 2003)
- Vice Chairman, Audio Visual Committee, American Urological Association (1995 - 2003)
- Video Education Committee, American College of Surgeons (2006 - 2011)
- Examination Committee, American Board of Urology (1989 - 1993)

### **PROFESSIONAL EDUCATION**

- Residency: Hospital of the University of Pennsylvania General Surgery Residency (1975) PA
- Medical Education: Baylor College of Medicine Registrar (1973) TX
- Board Certification: Urology, American Board of Urology (1982)
- Fellowship: University of Pennsylvania Dept of GME (1980) PA
- Residency: University of Pennsylvania Dept of GME (1976) PA
- Residency: Baylor College of Medicine Surgery Residency (1974) TX
- fellowship, Southeast Hampshire Health District, England , Urology (1981)
- Residency, University of Pennsylvania , Urology (1980)

- MPH, Medical College of Wisconsin , Health Care Administration (2005)
- MD, Baylor College of Medicine , Medicine (1973)
- BA, University of Pennsylvania , Economics (1970)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Design clinical trials to evaluate new treatments for bladder pain syndrome

### CLINICAL TRIALS

- Low-dose Naltrexone for Bladder Pain Syndrome, Not Recruiting

## Publications

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### PUBLICATIONS

- **Towards a new paradigm in Bladder Pain Syndrome and Interstitial Cystitis.** *BJU international*  
Hanno, P., Fall, M., Meijlink, J., Nordling, J.  
2020
- **Comments to Editorial by J. Curtis Nickel. It is premature to categorize Hunner lesion interstitial cystitis as a distinct disease entity.** *Scandinavian Journal of Urology* 2020, Vol. 54, No. 2, 99-100; <https://doi.org/10.1080/21681805.2020.1744714>. *Scandinavian journal of urology*  
Fall, M., Nordling, J., Cervigni, M., Oliveira, P. D., Fariello, J., Hanno, P., Kabjörn-Gustafsson, C., Logadottir, Y., Meijlink, J., Moldwin, R., Nasta, L., Quaghebeur, J., Sairanen, et al  
2020: 1–2
- **Interstitial cystitis/bladder pain syndrome: The evolving landscape, animal models and future perspectives.** *International journal of urology : official journal of the Japanese Urological Association*  
Akiyama, Y., Luo, Y., Hanno, P. M., Maeda, D., Homma, Y.  
2020
- **Hunner lesion disease differs in diagnosis, treatment and outcome from bladder pain syndrome: an ESSIC working group report.** *Scandinavian journal of urology*  
Fall, M., Nordling, J., Cervigni, M., Dinis Oliveira, P., Fariello, J., Hanno, P., Kåbjörn-Gustafsson, C., Logadottir, Y., Meijlink, J., Mishra, N., Moldwin, R., Nasta, L., Quaghebeur, et al  
2020: 1–8
- **LEGENDS IN UROLOGY** *CANADIAN JOURNAL OF UROLOGY*  
Hanno, P.  
2019; 26 (6): 10008–11
- **Targeting the SHIP1 Pathway Fails to Show Treatment Benefit in Interstitial Cystitis/Bladder Pain Syndrome: Lessons Learned from Evaluating Potentially Effective Therapies in This Enigmatic Syndrome** *JOURNAL OF UROLOGY*  
Nickel, J., Moldwin, R., Hanno, P., Dmochowski, R., Peters, K. M., Payne, C., Wein, A.  
2019; 202 (2): 301–8
- **Acyloxyacyl hydrolase modulates depressive-like behaviors through aryl hydrocarbon receptor** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Aguiniga, L. M., Yang, W., Yaggie, R. E., Schaeffer, A. J., Klumpp, D. J., Clemens, J., Hanno, P., Kirkali, Z., Kusek, J. W., Landis, J., Lucia, M., Moldwin, R. M., Mullins, et al  
2019; 317 (2): R289–R300
- **Phenotyping of interstitial cystitis/bladder pain syndrome.** *International journal of urology : official journal of the Japanese Urological Association*  
Akiyama, Y., Hanno, P.  
2019; 26 Suppl 1: 17–19
- **Editorial Comment from Dr Hanno to Interstitial cystitis, bladder pain syndrome, hypersensitive bladder, and interstitial cystitis/bladder pain syndrome - clarification of definitions and relationships** *INTERNATIONAL JOURNAL OF UROLOGY*

- Meijlink, J.  
2019; 26: 25
- **Editorial Comment from Dr Hanno to Hunner lesion versus non-hunner lesion interstitial cystitis/bladder pain syndrome** *INTERNATIONAL JOURNAL OF UROLOGY*  
Homma, Y.  
2019; 26: 34
  - **Bladder pain syndrome: World guidelines and harmonization**  
Hanno, P.  
WILEY.2019: 80
  - **Editorial Comment from Dr Hanno to Interstitial cystitis, bladder pain syndrome, hypersensitive bladder, and interstitial cystitis/bladder pain syndrome - clarification of definitions and relationships.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 25
  - **Editorial Comment from Dr Hanno to Intravesical tacrolimus in treatment of intractable bladder pain syndrome/interstitial cystitis-a pilot study.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 72
  - **Editorial Comment to Low bladder capacity is an important predictor for comorbidity of interstitial cystitis with hunner's lesion in patients with refractory chronic prostatitis/chronic pelvic pain syndrome.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 56
  - **Editorial Comment from Dr Hanno to Hunner lesion versus non-hunner lesion interstitial cystitis/bladder pain syndrome.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 34
  - **Editorial Comment from Dr Hanno to Pathophysiology of interstitial cystitis.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 16
  - **Editorial Comment to Angiogenesis in bladder tissues is strongly correlated with urinary frequency and bladder pain in patients with interstitial cystitis/bladder pain syndrome.** *International journal of urology : official journal of the Japanese Urological Association*  
Hanno, P.  
2019; 26 Suppl 1: 40
  - **Optimization of DNA extraction from human urinary samples for mycobiome community profiling** *PLOS ONE*  
Ackerman, A., Anger, J., Khalique, M., Ackerman, J. E., Tang, J., Kim, J., Underhill, D. M., Freeman, M. R., Clemens, J., Hanno, P., Kirkali, Z., Kusek, J. W., Landis, et al  
2019; 14 (4): e0210306
  - **A Culture-Independent Analysis of the Microbiota of Female Interstitial Cystitis/Bladder Pain Syndrome Participants in the MAPP Research Network** *JOURNAL OF CLINICAL MEDICINE*  
Nickel, J., Stephens-Shields, A. J., Landis, J., Mullins, C., van Bokhoven, A., Lucia, M., Henderson, J. P., Sen, B., Krol, J. E., Ehrlich, G. D., Clemens, J., Hanno, P., Kirkali, et al  
2019; 8 (3)
  - **Targeting the SHIP1 Pathway Fails to Show Treatment Benefit in Interstitial Cystitis/Bladder Pain Syndrome: Lessons Learned from Evaluating Potentially Effective Therapies in This Enigmatic Syndrome.** *The Journal of urology*  
Nickel, J. C., Moldwin, R., Hanno, P., Dmochowski, R., Peters, K. M., Payne, C., Wein, A.  
2019: 101097JU00000000000000192
  - **Legends in Urology.** *The Canadian journal of urology*  
Hanno, P.  
2019; 26 (6): 10008–11

- **Reply by Authors.** *The Journal of urology*  
Nickel, J. C., Moldwin, R., Hanno, P., Dmochowski, R., Peters, K. M., Payne, C., Wein, A.  
2019; 202 (2): 308
- **6th International Consultation on Incontinence. Recommendations of the International Scientific Committee: EVALUATION AND TREATMENT OF URINARY INCONTINENCE, PELVIC ORGAN PROLAPSE AND FAECAL INCONTINENCE** *NEUROUROLOGY AND URODYNAMICS*  
Abrams, P., Andersson, K., Apostolidis, A., Birder, L., Bliss, D., Brubaker, L., Cardozo, L., Castro-Diaz, D., O'Connell, P. R., Cottenden, A., Cotterill, N., de Ridder, D., Dmochowski, et al  
2018; 37 (7): 2271-72
- **RANDOMIZED, PLACEBO-CONTROLLED, CLINICAL TRIAL IN INTERSTITIAL CYSTITIS/BLADDER PAIN SYNDROME SHOWS COMMON SYMPTOM PRESENTATION BUT HIGHER RATES OF HUNNER LESIONS IN EUROPEAN PATIENTS**  
Moldwin, R. M., Hanno, P., Biagi, H., Butterfield, N.  
WILEY.2018: S109-S110
- **Relationship between Chronic Nonurological Associated Somatic Syndromes and Symptom Severity in Urological Chronic Pelvic Pain Syndromes: Baseline Evaluation of the MAPP Study** *JOURNAL OF UROLOGY*  
Krieger, J. N., Stephens, A. J., Landis, J. R., Clemens, J. Q., Kreder, K., Lai, H. H., Afari, N., Rodriguez, L., Schaeffer, A., Mackey, S., Andriole, G. L., Williams, D. A.  
2015; 193 (4): 1254-1262
- **The MAPP research network: design, patient characterization and operations** *BMC UROLOGY*  
Landis, J. R., Williams, D. A., Lucia, M. S., Clauw, D. J., Naliboff, B. D., Robinson, N. A., van Bokhoven, A., Sutcliffe, S., Schaeffer, A. J., Rodriguez, L. V., Mayer, E. A., Lai, H. H., Krieger, et al  
2014; 14
- **Randomized Multicenter Clinical Trial of Myofascial Physical Therapy in Women With Interstitial Cystitis/Painful Bladder Syndrome and Pelvic Floor Tenderness** *JOURNAL OF UROLOGY*  
FitzGerald, M. P., Payne, C. K., Lukacz, E. S., Yang, C. C., Peters, K. M., Chai, T. C., Nickel, J. C., Hanno, P. M., KREDER, K. J., Burks, D. A., MAYER, R., Kotarinos, R., Fortman, et al  
2012; 187 (6): 2113-2118
- **Early Termination of a Trial of Mycophenolate Mofetil for Treatment of Interstitial Cystitis/Painful Bladder Syndrome: Lessons Learned** *JOURNAL OF UROLOGY*  
Yang, C. C., Burks, D. A., Probert, K. J., Mayer, R. D., Peters, K. M., Nickel, J. C., Payne, C. K., FitzGerald, M. P., Hanno, P. M., Chai, T. C., Kreder, K. J., Lukacz, E. S., Foster, et al  
2011; 185 (3): 901-906
- **Effect of Amitriptyline on Symptoms in Treatment Naive Patients With Interstitial Cystitis/Painful Bladder Syndrome** *JOURNAL OF UROLOGY*  
Foster, H. E., Hanno, P. M., Nickel, J. C., Payne, C. K., Mayer, R. D., Burks, D. A., Yang, C. C., Chai, T. C., Kreder, K. J., Peters, K. M., Lukacz, E. S., FitzGerald, M. P., Cen, et al  
2010; 183 (5): 1853-1858
- **Sexual function is a determinant of poor quality of life for women with treatment refractory interstitial cystitis** *JOURNAL OF UROLOGY*  
Nickel, J. C., Tripp, D., Teal, V., Probert, K. J., Burks, D., Foster, H. E., Hanno, P., Mayer, R., Payne, C. K., Peters, K. M., Kusek, J. W., Nyberg, L. M.  
2007; 177 (5): 1832-1836
- **A randomized controlled trial of intravesical bacillus Calmette-Guerin for treatment refractory interstitial cystitis** *JOURNAL OF UROLOGY*  
MAYER, R., Probert, K. J., Peters, K. M., Payne, C. K., Zhang, Y. W., Burks, D., Culkin, D. J., Diokno, A., Hanno, P., Landis, J. R., Madigan, R., Messing, E. M., Nickel, et al  
2005; 173 (4): 1186-1191