




## Inder Perakash

Paralyzed Veterans of America Professor of Spinal Cord Injury Medicine, Emeritus  
Urology

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CONTACT INFORMATION

#### • Alternate Contact

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### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Urology

#### ADMINISTRATIVE APPOINTMENTS

- Associate Professor and later Professor Surgery, Stanford, (1972-1991)
- Professor Urology, Stanford University, (1991-2010)
- Professor Medicine (Gastro-intestinal ), Stanford University, (2010-2014)
- PVA Professor Spinal Injury Med, Stanford, (1981-2009)
- Professor Orth.(Courtsey PM&R), Stanford University, (1999-2010)

#### HONORS AND AWARDS

- Best Poster award. Laser ablation of Urethral strictures, American Urological Association (1997)
- The Olin E. Teague Award Outstanding Accomplishments - rehab. - disabled Veterans . Finalist, Administrator of The Veterans Affairs Washington DC (1979-1980)
- President, American Paraplegia Society (1987-1989)
- Physician of the year, State of California (1988)
- Hewitt Gold Medal and several other gold medals -for being the best of class in Medical School, Lucknow University (1957)
- Distinguished Physician, Amer. Acad. PM&R (1996)
- Congressional Gold Medal, US Republican congress (2004)
- Presidential Roll of Honor, Republican congress and President (2006)
- Society Medal-The Annual award, International Spinal Cord Society-Annual Meeting Delhi,India (November 1st, 2010)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Invited Member to prepare a report for delivery of for rehab. engineering Needs of disabled veterans, Congressional Committee Workshop for Social and Rehabilitation Services (1977 - 1977)
- Commendation for providing outstanding Service to disabled Veterans, Chairman United States Senate sub- Committee at Congressional Hearing (1982 - 1982)

- Adviser provide PL48 funding(648 Million Dollars) to Indian Scientists, US State Department Delegation (1988 - 1998)
- Silver award for the best online Health Information, American Urological Association (2004 - 2004)
- Member Study Group, NIMH (1991 - 1992)

## PROFESSIONAL EDUCATION

- Fellow, America Society for Laser Medicine and Surgery , Laser Medicine and Surgery (2003)
- Diplomat, American Boards of Geriatric Medicine (Honorary) , Geriatric Medicine (2009)
- Sub specialty Boards, PM&R , Spinal Cord Injuries (2001)
- Diplomat, American Board of Physical Medicine and Rehabilitation , Physical Medicine and Rehabilitation (1977)
- MBBS, Lucknow University , Medical Degree (1957)
- Diplomat, American Boards Disab , Disabilty evaluation (2005)
- MS, Lucknow University , General Surgery (1960)
- FRCS(Eng), College of Surgeons'of England , General Surgery (1961)

## COMMUNITY AND INTERNATIONAL WORK

- Globalization Patient Data Set, Switzerland

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

One of the major areas of interest in our lab has been research related to neurogenic bladder due to neurologic disorders. We have evaluated drugs to improve bladder function, worked on other modalities such as magnetic stimulator and surgical use of lasers to correct voiding disorders. We have developed the role of linear array sonography for the optimal evaluation of bladder neuromuscular disorders. Other focused areas in our lab include studies on hypercoagulation, electroejaculation and bone mineral density.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Health Services Research (Masters Program)

## Publications

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### PUBLICATIONS

- **POSTERIOR LEDGE AT THE BLADDER NECK - CRUCIAL DIAGNOSTIC ROLE OF ULTRASONOGRAPHY** *UROLOGIC RADIOLOGY*  
Perkaash, I., Friedland, G. W.  
1986; 8 (4): 175-183
- **International Spinal Cord Injury Pulmonary Function Basic Data Set** *SPINAL CORD*  
Biering-Sorensen, F., Krassioukov, A., Alexander, M. S., Donovan, W., Karlsson, A., Mueller, G., Perkaash, I., Sheel, A. W., Wecht, J., Schilero, G. J.  
2012; 50 (6): 418-421
- **Transurethral Sphincterotomy** *JOURNAL OF UROLOGY*  
Perkaash, I.  
2009; 181 (4): 1539-1540
- **International bowel function basic spinal cord injury data set** *SPINAL CORD*  
Krogh, K., Perkaash, I., Stiens, S. A., Biering-Sorensen, F.  
2009; 47 (3): 230-234

- **International bowel function extended spinal cord injury data set** *SPINAL CORD*  
Krogh, K., Percash, I., Stiens, S. A., Biering-Sorensen, F.  
2009; 47 (3): 235-241
- **International standards to document remaining autonomic function after spinal cord injury** *SPINAL CORD*  
Alexander, M. S., Biering-Sorensen, F., Bodner, D., Brackett, N. L., Cardenas, D., Charlifue, S., Creasey, G., DIETZ, V., Ditunno, J., Donovan, W., Elliott, S. L., Estores, I., Graves, et al  
2009; 47 (1): 36-43
- **Transurethral sphincterotomy provides significant relief in autonomic dysreflexia in spinal cord injured male patients: long-term followup results** *JOURNAL OF UROLOGY*  
Percash, I.  
2007; 177 (3): 1026-1029
- **Reproducibility of noninvasive cardiac output during arm exercise in spinal cord injury** *JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT*  
Myers, J., Brown, H., Smith, S., Percash, I., Kiratli, B. J.  
2007; 44 (4): 547-552
- **Aortoiliac hemodynamic and morphologic adaptation to chronic spinal cord injury** *20th Annual Meeting of the Western-Vascular-Society*  
Yeung, J. J., Kim, H. J., Abbuzzese, T. A., Vignon-Clementel, I. E., Draney-Blomme, M. T., Yeung, K. K., Percash, I., Herfkens, R. J., Taylor, C. A., Dalman, R. L.  
MOSBY-ELSEVIER.2006: 1254-65
- **Homocysteine and hypertension in persons with spinal cord injury** *SPINAL CORD*  
Lee, M. Y., Myers, J., Abella, J., Froelicher, V. F., Percash, I., Kiratli, B. J.  
2006; 44 (8): 474-479
- **Heart rate as a predictor of energy expenditure in people with spinal cord injury** *JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT*  
Hayes, A. M., Myers, J. N., Ho, M., Lee, M. Y., Percash, I., Kiratli, B. J.  
2005; 42 (5): 617-623
- **Donald Munro Lecture 2003. Neurogenic bladder: past, present, and future.** *journal of spinal cord medicine*  
Percash, I.  
2004; 27 (4): 383-386
- **Which stoma works better for colonic dysmotility in the spinal cord injured patient?** *27th Annual Surgical Symposium of the Association-of-VA-Surgeons*  
Safadi, B. Y., Rosito, O., Nino-Murcia, M., Wolfe, V. A., Percash, I.  
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2003: 437-42
- **Displacement sequence and elastic properties of anterior prostate/urethral interface during micturition of spinal cord injured men** *ULTRASOUND IN MEDICINE AND BIOLOGY*  
Constantinou, C. E., Damaser, M. S., Percash, I.  
2002; 28 (9): 1157-1163
- **Intracranial dural arteriovenous fistula causing a myelopathy** *SPINAL CORD*  
Percash, I., Punj, V., Ota, D. T., Lane, B., Skirboll, S.  
2002; 40 (9): 438-442
- **Electrocardiographic findings in patients with chronic spinal cord injury** *AMERICAN JOURNAL OF PHYSICAL MEDICINE & REHABILITATION*  
PRAKASH, M., Raxwal, V., Froelicher, V. F., Kalisetti, D., Vieira, A., O'Mara, G., Marcus, R., Myers, J., Kiratli, J., Percash, I.  
2002; 81 (8): 601-608
- **Early repolarization in patients with spinal cord injury: prevalence and clinical significance.** *journal of spinal cord medicine*  
Marcus, R. R., Kalisetti, D., Raxwal, V., Kiratli, B. J., Myers, J., Percash, I., Froelicher, V. F.  
2002; 25 (1): 33-38
- **Occult maxillary sinusitis as a cause of fever in tetraplegia: 2 case reports** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Lew, H. L., Han, J., Robinson, L. R., Britell, C., Percash, I.  
2002; 83 (3): 430-432

- **Functional magnetic stimulation facilitates colonic transit in rats** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Lin, V., Hsiao, I., Goodwin, D., Perkash, I.  
2001; 82 (7): 969-972
- **Functional magnetic stimulation of the colon in persons with spinal cord injury** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Lin, V. W., Nino-Murcia, M., Frost, F., Wolfe, V., Hsiao, I., Perkash, I.  
2001; 82 (2): 167-173
- **Functional magnetic stimulation for conditioning of expiratory muscles in patients with spinal cord injury** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Lin, V. W., Hsiao, I. N., Zhu, E. C., Perkash, I.  
2001; 82 (2): 162-166
- **Progressive decrease in bone density over 10 years of androgen deprivation therapy in patients with prostate cancer** *95th Annual Meeting of the American-Urological-Association*  
Kiratli, B. J., Srinivas, S., Perkash, I., Terris, M. K.  
ELSEVIER SCIENCE INC.2001: 127-32
- **Bone mineral and geometric changes through the femur with immobilization due to spinal cord injury** *JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT*  
Kiratli, B. J., Smith, A. E., Nauenberg, T., Kallfelz, C. F., Perkash, I.  
2000; 37 (2): 225-233
- **Functional magnetic stimulation: A new modality for enhancing systemic fibrinolysis** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Lin, V. W., Perkash, A., Liu, H. J., Todd, D., Hsiao, I., Perkash, I.  
1999; 80 (5): 545-550
- **Prostate cancer: a hazard also to be considered in the ageing male patient with spinal cord injury** *SPINAL CORD*  
Wyndaele, J. J., Iwatsubo, E., Perkash, I., Stohrer, M.  
1998; 36 (5): 299-302
- **Use of contact laser crystal tip firing Nd : YAG to relieve urinary outflow obstruction in male neurogenic bladder patients** *JOURNAL OF CLINICAL LASER MEDICINE & SURGERY*  
Perkash, I.  
1998; 16 (1): 33-38
- **Limb salvage surgery in spinal cord injury patients** *11th Annual Meeting of the Western-Vascular-Society*  
Dalman, R. L., Harris, E. J., Walker, M. T., Perkash, I.  
ELSEVIER SCIENCE INC.1998: 60-64
- **Effect of alpha 1 adrenoceptor antagonist on the urodynamics of the upper and lower urinary tract of the male rat** *NEUROUROLOGY AND URODYNAMICS*  
Lee, J. Z., Tillig, B., Perkash, I., Constantinou, C. E.  
1998; 17 (3): 213-229
- **Chronology and urodynamic characterization of micturition in neurohormonally induced experimental prostate growth in the rat** *26th Annual Meeting of the International-Continence-Society*  
Lee, J. Z., Omata, S., Tillig, B., Perkash, I., Constantinou, C. E.  
WILEY-LISS.1998: 55-69
- **Detrusor-sphincter dyssynergia and vesico urethral reflux: management** *SPINAL CORD*  
Perkash, I., Linsenmeyer, T. A., Bodner, D. R., Anderson, R. U.  
1998; 36 (1): 2-5
- **Modulation of detrusor contraction strength and micturition characteristics by intrathecal baclofen in anesthetized rats** *JOURNAL OF UROLOGY*  
Watanabe, T., Perkash, I., Constantinou, C. E.  
1997; 157 (6): 2361-2365
- **Ablation of urethral strictures using contact chisel crystal firing neodymium:YAG laser** *JOURNAL OF UROLOGY*  
Perkash, I.

- 1997; 157 (3): 809-813
- **Efficacy and safety of terazosin to improve voiding in spinal cord injury patients.** *journal of spinal cord medicine*  
Percash, I.  
1995; 18 (4): 236-239
  - **MODELING AND SIMULATION OF PARAPLEGIC AMBULATION IN A RECIPROCATING GAIT ORTHOSIS** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*  
Tashman, S., Zajac, F. E., Percash, I.  
1995; 117 (3): 300-308
  - **REGISTRATION ERROR QUANTIFICATION OF A SURFACE-BASED MULTIMODALITY IMAGE FUSION SYSTEM** *MEDICAL PHYSICS*  
Hemler, P. F., Napel, S., Sumanaweera, T. S., PICHUMANI, R., VANDENELSEN, P. A., Martin, D., Drace, J., Adler, J. R., Percash, I.  
1995; 22 (7): 1049-1056
  - **LASER SPHINCTEROTOMY AND ABLATION OF THE PROSTATE USING A SAPPHIRE CHISEL CONTACT TIP FIRING NEODYMIUM-YAG LASER** *JOURNAL OF UROLOGY*  
Percash, I.  
1994; 152 (6): 2020-2024
  - **Contact laser transurethral external sphincterotomy: a preliminary report.** *NeuroRehabilitation*  
Percash, I.  
1994; 4 (4): 249-254
  - **LONG-TERM UROLOGIC MANAGEMENT OF THE PATIENT WITH SPINAL-CORD INJURY** *UROLOGIC CLINICS OF NORTH AMERICA*  
Percash, I.  
1993; 20 (3): 423-434
  - **CLEAN INTERMITTENT CATHETERIZATION IN SPINAL-CORD INJURY PATIENTS - A FOLLOW-UP-STUDY** *JOURNAL OF UROLOGY*  
Percash, I., Giroux, J.  
1993; 149 (5): 1068-1071
  - **EVALUATION OF A VOCATIONAL ROBOT WITH A QUADRIPLLEGIC EMPLOYEE** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Hammel, J. M., VANDERLOOS, H. F., Percash, I.  
1992; 73 (7): 683-693
  - **USE OF PENILE PROSTHESES TO MAINTAIN EXTERNAL CONDOM CATHETER DRAINAGE IN SPINAL-CORD INJURY PATIENTS** *PARAPLEGIA*  
Percash, I., Kabalin, J. N., Lennon, S., Wolfe, V.  
1992; 30 (5): 327-332
  - **INFERTILITY IN MEN WITH SPINAL-CORD INJURY** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Linsenmeyer, T. A., Percash, I.  
1991; 72 (10): 747-754
  - **CHRONIC GASTROINTESTINAL PROBLEMS IN SPINAL-CORD INJURY PATIENTS - A PROSPECTIVE ANALYSIS** *AMERICAN JOURNAL OF GASTROENTEROLOGY*  
Stone, J. M., NINOMURCIA, M., Wolfe, V. A., Percash, I.  
1990; 85 (9): 1114-1119
  - **PENILE ADVANCEMENT AND LENGTHENING IN SPINAL-CORD INJURY PATIENTS WITH RETRACTED PHALLUS WHO HAVE FAILED PENILE PROSTHESIS PLACEMENT ALONE** *JOURNAL OF UROLOGY*  
Kabalin, J. N., ROSEN, J., Percash, I.  
1990; 144 (2): 316-318
  - **COLOSTOMY AS TREATMENT FOR COMPLICATIONS OF SPINAL-CORD INJURY** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Stone, J. M., Wolfe, V. A., NINOMURCIA, M., Percash, I.  
1990; 71 (7): 514-518
  - **BENIGN VERSUS PATHOLOGICAL COMPRESSION FRACTURES OF VERTEBRAL BODIES - ASSESSMENT WITH CONVENTIONAL SPIN-ECHO, CHEMICAL-SHIFT, AND STIR MR IMAGING** *RADIOLOGY*

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- Baker, L. L., Goodman, S. B., Percash, I., Lane, B., Enzmann, D. R.  
1990; 174 (2): 495-502
- **COLONIC TRANSIT IN SPINAL CORD-INJURED PATIENTS** *INVESTIGATIVE RADIOLOGY*  
NINOMURCIA, M., Stone, J. M., Chang, P. J., Percash, I.  
1990; 25 (2): 109-112
  - **ELECTROEJACULATION IN SPINAL-CORD INJURY PATIENTS - SIMPLIFIED NEW EQUIPMENT AND TECHNIQUE** *JOURNAL OF UROLOGY*  
Percash, I., Martin, D. E., Warner, H., SPECK, V.  
1990; 143 (2): 305-307
  - **PRINCIPLES OF MODERN URODYNAMIC STUDIES** *INVESTIGATIVE RADIOLOGY*  
Percash, I., Friedland, G. W.  
1987; 22 (4): 279-289
  - **ULTRASONOGRAPHIC DETECTION OF FALSE PASSAGES ARISING FROM THE POSTERIOR URETHRA IN SPINAL-CORD INJURY PATIENTS** *JOURNAL OF UROLOGY*  
Percash, I., Friedland, G. W.  
1987; 137 (4): 701-702
  - **CATHETER-INDUCED HYPERREFLEXIA IN SPINAL-CORD INJURY PATIENTS - DIAGNOSIS BY SONOGRAPHIC VOIDING CYSTOURETHROGRAPHY** *RADIOLOGY*  
Percash, I., Friedland, G. W.  
1986; 159 (2): 453-455
  - **REPRODUCTIVE-BIOLOGY OF PARAPLEGICS - RESULTS OF SEMEN COLLECTION, TESTICULAR BIOPSY AND SERUM HORMONE EVALUATION** *JOURNAL OF UROLOGY*  
Percash, I., Martin, D. E., Warner, H., BLANK, M. S., Collins, D. C.  
1985; 134 (2): 284-288
  - **RADIOISOTOPE RENOGRAPHY IN SPINAL-CORD INJURY** *JOURNAL OF UROLOGY*  
TEMPKIN, A., Sullivan, G., PALDI, J., Percash, I.  
1985; 133 (2): 228-230
  - **USING TRANS-RECTAL SONOGRAPHY TO TEACH PATIENTS WITH SPINAL-CORD INJURIES TO RETRAIN THEIR BLADDERS** *RADIOLOGY*  
Percash, I., Friedland, G. W.  
1984; 152 (1): 228-229
  - **SEXUAL EXPERIENCE AND PLASMA TESTOSTERONE LEVELS IN MALE VETERANS AFTER SPINAL-CORD INJURY** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Phelps, G., Brown, M., Chen, J., Dunn, M., Lloyd, E., Stefanick, M. L., DAVIDSON, J. M., Percash, I.  
1983; 64 (2): 47-52
  - **INITIATION OF ERECTION AND SEMEN RELEASE BY RECTAL PROBE ELECTROSTIMULATION (RPE)** *JOURNAL OF UROLOGY*  
Martin, D. E., Warner, H., CRENSHAW, T. L., CRENSHAW, R. T., Shapiro, C. E., Percash, I.  
1983; 129 (3): 637-642
  - **TRANS-RECTAL SONOGRAPHIC VOIDING CYSTOURETHROGRAPHY - STUDIES IN NEUROMUSCULAR BLADDER DYSFUNCTION** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Shapeero, L. G., Friedland, G. W., Percash, I.  
1983; 141 (1): 83-90
  - **WARNING MAT TO SIGNAL AIR SEAT CUSHION FAILURE** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Werner, P., Percash, I.  
1982; 63 (4): 188-190
  - **CARDIOVASCULAR COMPLICATIONS DURING ANESTHESIA IN CHRONIC SPINAL-CORD INJURED PATIENTS** *ANESTHESIOLOGY*  
SCHONWALD, G., Fish, K. J., Percash, I.  
1981; 55 (5): 550-558

- **TRUE HETEROTOPIC BONE IN THE PARALYZED PATIENT** *SKELETAL RADIOLOGY*  
Blane, C. E., Percash, I.  
1981; 7 (1): 21-25
- **STABILITY OF THE UPPER LUMBAR SPINE FOLLOWING PROGRESSIVE DISRUPTIONS AND THE APPLICATION OF INDIVIDUAL INTERNAL AND EXTERNAL FIXATION DEVICES** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*  
Nagel, D. A., KOOGLE, T. A., PIZIALI, R. L., Percash, I.  
1981; 63 (1): 62-70
- **PROBLEMS OF DECATHETERIZATION IN LONG-TERM SPINAL-CORD INJURY PATIENTS** *JOURNAL OF UROLOGY*  
Percash, I.  
1980; 124 (2): 249-253
- **USE OF CEREBRAL EVOKED-POTENTIALS TO EVALUATE SPINAL SOMATOSENSORY FUNCTION IN PATIENTS WITH TRAUMATIC AND SURGICAL MYELOPATHIES** *JOURNAL OF NEUROSURGERY*  
DORFMAN, L. J., Percash, I., Bosley, T. M., Cummins, K. L.  
1980; 52 (5): 654-660
- **URINARY-TRACT INFECTIONS OCCURRING IN RECENT SPINAL-CORD INJURY PATIENTS ON INTERMITTENT CATHETERIZATION** *JOURNAL OF UROLOGY*  
Rhame, F. S., Percash, I.  
1979; 122 (5): 669-673
- **ATTEMPT TO UNDERSTAND AND TO TREAT VOIDING DYSFUNCTIONS DURING REHABILITATION OF BLADDER IN SPINAL-CORD INJURY PATIENTS** *JOURNAL OF UROLOGY*  
Percash, I.  
1976; 115 (1): 36-40
- **INTERMITTENT CATHETERIZATION AND BLADDER REHABILITATION IN SPINAL-CORD INJURY PATIENTS** *JOURNAL OF UROLOGY*  
Percash, I.  
1975; 114 (2): 230-233