

## CURRICULUM VITAE

Amiram Catz MD, PhD, MA (Rehab, Health Admin.)

Clinical professor

Sackler Faculty of Medicine, Tel-Aviv University  
Department of Physical Medicine and Rehabilitation  
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C.V. - Table of Contents

Personal data.....	3
Education.....	4
Further Studies.....	4
Academic Experience.....	5
Clinical Experience.....	7
Active Participation in Scientific Meetings.....	8
Academic & Professional Awards.....	10
Membership in Professional Societies.....	12
Supervisions.....	12
Scientific Publications.....	15- 44
Monographs.....	15
Original Articles.....	16
Case Reports.....	24
Review Articles.....	25
Chapters in books.....	26
Invited Papers at Scientific Meetings .....	27
Papers Presented at Scientific Meetings.....	28
Abstracts .....	42
Items in Encyclopedias.....	43
Other Publications .....	43

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IDF Military Service: 1970 - 2004

Marital status: Married      No. of children: 3

### A. Education

<u>Period of Study</u>	<u>Name of University</u>	<u>Subject</u>	<u>Degree</u>	<u>Date</u>
1970-1976	Hebrew University, Hadassa Medical School, Jerusalem	Medicine	M.D.	1.4.81
1977	"Ichilov" Hospital, Tel-Aviv	Stage	Isr License	1977
1.10.82-10.7.83	"Ichilov" Hospital, Tel-Aviv	Neurosurgery (Residency)		
10.7.83-11.7.86 & 7.87-31.3.90	LRH, Raanana "Meir" Hospital, Kfar-Sava Beilinson Hospital, Petah-Tikva Stoke-Mandeville Hospital, Aylesbury (England)	PM&R (Residency)	Specialist	1990

### Title of Doctoral Dissertation:

"תוצאות הטיפול השמרני בשבר תת-ראשי נעץ של צוואר הירך - עבודה קלינית ורנטגנית".

"Results of conservative treatment of impacted subcapital fracture of the femoral neck - A clinical and radiologic study".

Names of supervisors: Prof. R. Salame, Dr. S. Dekel, Orthopedic department, Ichilov Hospital, Tel-Aviv Medical Center

### B. Further Studies

<u>Period of Study</u>	<u>Name of University</u>	<u>Subject</u>	<u>Degree</u>	<u>Date</u>
1983-1986	Postgraduate Med. School, Tel-Aviv University	PM&R	DIPLOMA	26.6.89
1987-1988	Postgraduate Med. School, Tel-Aviv University	Methods in research		
1987-1990	Postgraduate Med. School, Tel-Aviv University	PM&R	Master (Cum Laude) (בהצטיינות)	8.7.90
1996	Postgraduate Med. School, Tel-Aviv University	Clinical decision-making		
1999 - 2005	Tel-Aviv University	Physiology	PhD	5.6.2005
10.5.2004	Tel-Aviv University, Faculty of Medicine	Lecturer's skills workshop		10.5.2004
8.2007	Tel-Aviv University, Faculty of Medicine	Ethics workshop		8.2007
10.2007-12.2009	Tel-Aviv University, Faculty of Management	Health administration	Master	12.2009
2008	LRH	GCP course		

Title of Master Dissertation:

"ההחזר הוסטיבולואוקולרי בחולים לאחר ארוע מוחי חצי-דורי"

"The Vestibulo-ocular reflex in patients following hemispheric stroke".

Names of supervisors: Dr S. Ron, Occupational Health and Rehabilitation Institute, Loewenstein Hospital, Raanana; Prof. P. Solzi, Loewenstein Hospital, Raanana; Prof. A.D. Korczyn, Neurology department, Ichilov Hospital, Tel-Aviv Medical Center

Title of PhD Dissertation:

"Hemodynamic and hormonal changes following thoracic spinal cord lesions".

Names of supervisors: Prof. A.D. Korczyn, Prof. S Akselrod

C.1 Academic Experience

<u>Period</u>	<u>Name of Institution</u>	<u>Department</u>	<u>Rank/Function</u>
1983-present	LRH	PM&R	Participant in clinical and physiological research
1985-present	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Tutor of Med. Students
1986	LRH (Educational Committee)	PM&R	Organizer of Academic Activity
1986-1987	IDF Med. Corps		In charge for Field research & Training of Milit. Physicians
1988	Stoke Mandeville Hospital (NSIC-UK)	Spinal Injuries	Tutor of Med. Students, research Collaborator
1.10.1989 - 31.3.1994	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Instructor
1989-1994	Postgrad. Med School, Tel-Aviv University	PM&R	Visiting Lecturer
1990-1994	Tel-Aviv University, Sackler Faculty of Medicine	Occup. Health. (Ma)	Visiting Lecturer
1992-1994	Tel-Aviv University, Faculty of Medicine, LRH	PM&R	Participant in reorganization of Rehab. Education
1992-1995	Tel-Aviv University, Faculty of Medicine, LRH		Co-editor of final examinations for students
1990-1996	Tel-Aviv University, Faculty of Medicine, LRH	PM&R	Coordinator of Courses for Med. Students
1992-2005	Israel Med. Assoc. Scientific Council		Member of the Examinations Committee in PM&R

1.4.1994 - 31.1.2001	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Lecturer
18.11.96 -2005	Postgrad. Med School, Tel-Aviv University	PM&R	Chairman of Committee for Postgraduate Teaching in PM&R
1.2.2001 - 31.7.2005	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Senior Lecturer
1.1.2002 - 2005	Israel Med. Assoc. Scientific Council		Chairman of the Examinations Committee in PM&R
1.6.2002 -present	Disability and Rehabilitation Journal		Reviewer
7.02-present	Spinal Cord Journal		Member of editorial board
13.10.2002 -2006	Tel-Aviv University, School of CME		Member of Teaching Committee
18.7.2003 -present	American Journal of Phys. Medicine & Rehabilitation		Reviewer
1.8.2003 -30.10.2003	Imperial College &National Hospital Neuro-Nsurg London	Neurovas. Med & Autonomic Unit	Research collaborator
2004-2005	Tel-Aviv University, Sackler Faculty of Medicine		Referee for MD dissertation
2004-2005	T.A. Univ., Sackler Fac. Med. School of health professions	Physiotherapy, Occup. therapy	Referee for Master's degree dissertation
1.8.2005 - 1.6.2012	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Clinical associate professor
2005	Tel-Aviv University, Sackler Fac. of Med. Graduate School		Chirman of accompanying committee for PhD thesis
2.2006-present	Neurological Sciences Journal		Reviewer
4.2006	ISCoS+ASIA		Chairman, functional assessment commi
2006-present	Tel-Aviv University, Sackler Faculty of Medicine		Member of the committee for liaison with hospitals
9.2007-present 3.2008-present	ISCoS Neurorehabilitation and Neural Repair J		Member of scientific committee Reviewer

1.9.2008-1.9.2012	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Head of the PM&R department
10.2008-present	J of Neurology		Reviewer
1.1.2009-1.2.2011	LRH		Chairman, Helsinki committee
22.5.2009-present	Israel Assoc. of Phys Med. & Rehab		Member of scientific committee
1.6.2012 - present	Tel-Aviv University, Sackler Faculty of Medicine	PM&R	Clinical (full) professor
22.4.2014-present	Israel science foundation (ISF)		Reviewer

### C.2 Clinical Experience

<u>Period</u>	<u>Name of Institution</u>	<u>Department</u>	<u>Rank/Function</u>
1978-1982	IDF		Military Physician
1.10.82-10.7.83	"Ichilov" Hospital, Tel-Aviv	Neurosurg	Physician (resident)
10.7.83 - 1.6.85	LRH	PM&R	Physician (resident)
1.6.85 -30.11.85	"Meir" Hospital, Kfar-Sava	Internal Medicine	Physician (resident)
1.12.85 - 11.7.86	LRH	PM&R	Physician (resident)
7.86-7.87	IDF		Military physician
21.7.87 -21.1.88	"Meir" Hospital, Kfar-sava	Orthopedic Surgery	Physician (resident)
24.1.88 -1.7.88	"Beilinson" Hospital, Petah-Tikva	Neurology	Physician (resident)
1.7.88 -6.1.89	"Stoke-Mandeville" Hospital (NSIC-UK)	Spinal Injuries	Physician (Senior house officer)
9.1.89 -8.2.89	"Beilinson" Hospital, Petah-Tikva	Neurology	Physician (resident)
9.2.89 -31.3.90	LRH	PM&R	Physician (resident)
1.4.90-20.12.90 12.90 -11.91	LRH IDF	PM&R	Physician (Specialist in PM&R) Military physician

11.91-8.93	LRH	PM&R	Physician (Specialist in PM&R)
8.93 -1.94	IDF		Military physician (Medical Commander of IDF Rehabilitation Institute)
1.94-present	LRH	PM&R	Medical Director of Rehabilitation Department (Ward IV, spinal mainly)
2.2011-present	LRH	PM&R	Hospital Medical Director and CEO

#### D. Active participation in Scientific Meetings

Year	Name of Meeting
1985	13th World Congress of the Israel Medical Association. Jerusalem
1986	5th Israel Medical week, Israel society of Rehabilitation and Physical Medicine congress. Jerusalem
1988	14th World Congress of the Israel Medical Association. Jerusalem
1990	29th Annual Scientific Meeting of the International Medical Society of Paraplegia. Ramat-Gan
1991	15th World Congress of the Israel Medical Association. Jerusalem
1993	The Congress of the Israel Medical Association Scientific Societies. The Israel Society of Physical Med & Rehab. Jerusalem
1996	The First Medirreanean Congress of Physical Medicine and Rehabilitation. Herzlia
1996	35th Annual Scientific Meeting of the International Medical Society of Paraplegia. Atlanta
1997	Meeting of the Israel society of Rehabilitation and Physical Medicine. Raanana
1998	The II Medirreanean Congress of Physical Medicine and Rehabilitation. Valencia, Spain
1999	12th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation. Tel-Aviv. Israel
2000	39th Annual Scientific Meeting of the International Medical Society of Paraplegia. Svdnev
2001	40th Annual Scientific Meeting of the International Medical Society of Paraplegia. Nottwil, Switz.
2002	IMSOP&ASIA 1st Joint Meeting. Vancouver. Canada
2003	The Fourth Research Fair of The Sackler Faculty of Medicine. Tel-Aviv. Israel
2003	2 <sup>nd</sup> World congress of the International Society of Physical and rehabilitation Medicine. Prague, Czech Republic
2004	ICCP Clinical Trials Workshop. Vancouver. Canada
2004	15th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation. Tel-Aviv. Israel
2004	The 55 <sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine. Tel-Aviv. Israel
2005	31 <sup>st</sup> Annual Scientific Meeting of the American Spinal Injuriy Associatin (ASIA). Dallas. Texas. USA - Presentation (Invited lecturer).
2005	44 <sup>th</sup> ISCoS Annual Scientific Meeting. Munich, Germany - presentation (lecturer).



- 2005 The 56<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine. Tel-Aviv, Israel  
· presentation (lecturer).
- 2006 The 7<sup>th</sup> Israel Spine Society Conference. The Dead Sea, Israel - presentation (lecturer).
- 2006 ASIA/ISCoS: A Global Spinal Cord Injury Conference. Boston, USA - presentation (lecturer).
- 2006 The VI Medirerranean Congress of Physical Medicine and Rehabilitation. Vilamoura, Portugal  
· presentation (lecturer).
- 2006 The 57<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine. Tel-Aviv, Israel  
· presentation (lecturer).
- 2007 The 3<sup>rd</sup> annual meeting of Heart and Brain. The Center for Medical Physics, School of Physics & Astronomy, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv. (lecturer) .
- 2007 The 8<sup>th</sup> Israel Spine Society Conference, Eilat, Israel, presentation (lecturer) .
- 2007 The joint 46th ISCoS Annual Scientific Meeting & the 10th NoSCoS Congress, Reykjavik, Iceland  
· presentation (lecturer) .
- 2007 The 58<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel  
· presentation (lecturer) .
- 2008 47<sup>th</sup> ISCoS Annual Scientific Meeting, Durban, South Africa  
· presentation (lecturer) .
- 2008 The VII Medirerranean Congress of Physical Medicine and Rehabilitation, Portoroz, Slovenia  
· presentation (lecturer) .
- 2008 The 59<sup>th</sup> annual conference of the Israel association of Physical and rehabilitation Medicine, Tel-Aviv, Israel  
· presentation (lecturer) .
- 2009 48<sup>th</sup> ISCoS Annual Scientific Meeting, Florence, Italy  
· presentation (lecturer) .
- 2009 The 60<sup>th</sup> annual conference of the Israel association of Physical and rehabilitation Medicine, Tel-Aviv, Israel  
- presentation (lecturer) .
- 2010 The VIII Medirerranean Congress of Physical Medicine and Rehabilitation, Limassol, Cyprus  
· presentation (lecturer) .
- 2010 49<sup>th</sup> ISCoS Annual Scientific Meeting, New-Delhi, India - presentation (lecturer) .
- 2010 The 61<sup>th</sup> annual conference of the Israel association of Physical and rehabilitation Medicine, Tel-Aviv, Israel  
- presentation (lecturer) .
- 2011 The 12<sup>th</sup> Israel Spine Society Conference, Eilat, Israel - presentation (lecturer) .
- 2011 Annual Scientific Meeting (Joint ASIA-ISCoS meeting), Washington, USA, - presentation (lecturer) .
- 2011 The 62<sup>nd</sup> annual conference of the Israel association of Physical and rehabilitation Medicine, Tel-Aviv, Israel  
- presentation (lecturer) .
- 2012 51<sup>st</sup> ISCoS Annual Scientific Meeting, London, UK- poster presentation .
- 2012 63<sup>rd</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel – plenary lecture.
- 2013 The 14<sup>th</sup> Israel Spine Society Conference, Eilat, Israel - presentation (lecturer) .
- 2013 7<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Beijing, China.  
Presentation (Invited lecturer).

- 2013 10th Mediterranean Forum of Physical and Rehabilitation Medicine, Budva, Montenegro. Presentation (Invited lecturer).
- 2014 25th Rehabilitation Medicine Days: Clinical Guideline in PME. Ljubljana, Slovenia. Presentation (Invited lecturer).
- 2014 The 15<sup>th</sup> Israel Spine Society Conference, Eilat, Israel - presentation (lecturer).
- 2014 8<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Cancun, Mexico - presentation (lecturer).
- 2014 53<sup>rd</sup> ISCoS Annual Scientific Meeting, Maastricht, The Netherlands - presentation (lecturer).
- 2014 21<sup>st</sup> congress of the Israeli Society for Quality in medicine, Tel-Aviv, Israel- presentation (poster).
- 2014 The 65<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Jerusalem, Israel (Session Chairman).
- 2015 The 4<sup>th</sup> ISCoS and ASIA joint scientific meeting, Montreal, Canada (Poster presentation)
- 2016 Rehabilitation Science & Technology Update, The 66<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel (Lecturer, Session Chairman, posters).
- 2016 The 17<sup>th</sup> Israel Spine Society Conference, Eilat, Israel - presentation (lecturer).
- 2016 55<sup>th</sup> ISCoS Annual Scientific Meeting, Vienna, Austria - presentation (lecturer).
- 2017 11<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Buenos-Aires, Argentina (Poster presentation).
- 2017 56<sup>th</sup> ISCoS Annual Scientific Meeting, Dublin, Ireland - (Poster presentation).
- 2017 ISICON 2017 International Spine and Spinal injuries conference, New Delhi, India (lecturer).
- 2017 Rehabilitation Science & Technology Update, The 67<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel (Lecturer, Session Chairman, posters).
- 2017 The annual neurological meeting, Israel neurological association, Galilun Hotel (lecturer).
- 2018 The 19<sup>th</sup> Israel Spine Society Conference, Eilat, Israel - presentation (lecturer)
- 2018 12<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Paris, France, 2018.

#### E. Academic and Professional Awards

<u>Year</u>	<u>Name of Institution</u>	<u>Award</u>
1974	Hebrew University, Hadassah Medical School, Jerusalem	Scholarship
1984	Rekanaty Research Fund	Grant for electrophys. Research

1987	LRH	Grant for Master studies
1994	Ministry of Defence	Research Grant
1996	Ministry of Defence	Research Grant
1997	Ministry of Defence	Research Grants
1999	Ministry of Defence	Research Grants
2000	Ministry of Defence	Research Grants
2000	The Tel-Aviv University Research Fund	Research Grant
2002	The Delani foundation, Switzerland	Research grant
2002	Ministry of Defence	Research Grants
2004	Union of Insurance companies	Research Grant
2005	ICORD (International Collaboration On Repair Discoveries) (Can\$6820, SCIM III international validation, PI)	Research Grant
2006	Legacy Research Fund (NIS43520, Card Vasc complications of SCL, PI) (NIS43930, SCIARMI new formulas, PI)	Research Grants
2007	Legacy Research Fund (NIS59150, autonomic sys in SCL, PI) (NIS80275, Sleep disorders in SCL, PI)	Research Grants
2007	Union of Insurance companies (NIS85800, autonomic sys in SCL, PI)	Research Grant
2007	The Israel National Institute for Health Policy and Health Services Research	Research Grant
2008	Legacy Research Fund (NIS38000, SCIM III by interview reliability, PI) (NIS39710, SCIM III for decisions, PI)	Research Grants
2010	Legacy Research Fund (NIS18665, CLBPD rehab outcomes, PI)	Research Grants
2013	Loewenstein Hospital Research Fund (USD13500, GB rehab late outcomes, PI) (USD11000, Deg myelopathy rehab outcomes, PI)	Research Grants
2013	Kamin Fund (NIS599000, Stimulation of coughing in tetraplegia, PI)	Research Grants
2014	Kamin Fund (NIS599632, Stimulation of coughing in tetraplegia, PI)	Research Grants
2015	Loewenstein Hospital Research Fund (NIS 44935 Sleep quality in the spinal rehab department, PI)	Research Grant

2016	Loewenstein Hospital Research Fund (\$54245, autonomic system in SCL, PI)	Research Grant
2016	Loewenstein Hospital Research Fund (NIS 33,600, SCIM IV validity, PI)	Research Grant
2016	Loewenstein Hospital Research Fund (NIS18,195, SCI-ARMI additional variables, PI)	Research Grant
2017	Loewenstein Hospital Research Fund NIS 47,694, SPIM validity, PI)	Research Grant
2017	Loewenstein Hospital Research Fund (NIS 35,552.09, patient satisfaction, PI)	Research Grant

#### F. Membership in Professional Societies

<u>Year</u>	<u>Society</u>	<u>Country</u>
1977	Israel Medical Association	Israel
1985	Israel Assoc. of Physical Med. & Rehabilitation	Israel
1989	The International Medical Society of Paraplegia	UK
1995	The New York Academy of Sciences	US
1999	Assoc. of Academic Physiatrists	US
2003	International Society of Physical and Rehabilitation Medicine	Belgium
2003	Clinical Autonomic Research Society	UK
2006	Israel Spine Society	Israel
2011	The Union of Hospital Directors	Israel

#### G. Supervisions

##### G.1. M.D. Students Supervision

<u>Year</u>	<u>Name of Student</u>	<u>Title of Project</u>	<u>Name of Hospital</u>
2008	Johnatan Noiman	Comparison of rehabilitation outcomes between international subgroups of patients with spinal cord lesions	LRH
2009	Sharona Yoseph	Rehabilitation outcome in patients with LBP disability	LRH

### G.2. MA(Rehab). Students Supervision

<u>Year</u>	<u>Name of Student</u>	<u>Title of Project</u>	<u>Name of Hospital</u>
1999	Dr. E. Agranov	Efficiency of rat locomotor tests, for spinal cord recovery investigation	LRH (researchs performed in Neurobiology department, Weizman Institute, Rechovot)

### G.3. Resident's Basic Science Project Supervision

<u>Year</u>	<u>Name of Student</u>	<u>Title of Project</u>	<u>Name of Hospital</u>
1997	Dr. E. Agranov	The effect of macrophage-activated allogenic astrocytes transplantation on transected rat CNS recovery	LRH (researchs performed in the Neurobiology department, Weizman Institute, Rechovot)
1999	Dr. M. Thaleisnik	Survival of rehabilitated patients following spinal cord injuries in Israel	LRH
2001	Dr. V. Bluvshstein	Impaired ventilation and cerebral blood flow velocity, in patients with spinal cord lesions	LRH
2001	Dr. A. Grinberg	Assessment of functional potential ability realization: upgrading of the Spinal Cord Independence Measure	LRH
2001	Dr. D. Goldin	Survival of rehabilitated patients following non-traumatic spinal cord lesions in Israel	LRH
2003	Dr. E. Spivak	Head mounted actigraph, for sleep assessment in patients with tetraplegia	LRH
2003	Dr. K. Abu-amsha	Survival, recovery, and morbidity following traumatic spinal cord lesions: trends in the last ten years	LRH
2004	Dr. Helena Zivlon	Survival, recovery, and morbidity following spinal cord lesions caused by road accidents	LRH
2010	Dr. Stella Magid	Survival, recovery, morbidity, length of stay and functional improvement following spinal cord lesions 2000-2005	LRH
2011	Dr. Yavgeni Orievski	Heart rate and the rate of sweating for the assessment of autonomic spinal cord recovery	LRH

2011	Dr. Miriam Shniper	Long term outcomes in patients admitted for rehabilitation with Guillain-Barre syndrome	LRH
2011	Dr. Svetlana Kartoon	Degenerative myelopathy: Rehabilitation outcomes without or after surgical intervention	LRH
2013	Dr. Eelena Shmigura	Tromboembolic phenomena in patients with spinal cord injury during rehabilitation: Frequency, diagnosis, therapy, and outcomes	LRH

#### H4. Allied Medical Proffesions Projects Supervision

<u>Year</u>	<u>Name of Student</u>	<u>Title of Project</u>	<u>Name of Hospital</u>
	None		

## Scientific Publications

### A. Books and monographs

#### A.1. Books Written - None

#### A.2. Monographs

##### 1. Catz A.

תוצאות הטיפול השמרני בשבר תת-ראשי נעוץ של צוואר הירך - עבודה קלינית ורנטגנית.

Results of conservative treatment of impacted subcapital fracture of the femoral neck - A clinical and radiologic study. Hebrew University, Hadassa Medical School, Jerusalem, Ichilov Hospital, Tel-Aviv, 1981 (Hebrew).

##### 2. Catz A., Braun H, Steinvil Y, Reider-Groswasser I, Solzi P.

החזר המצמוץ כמבחן סקירה לגילוי מוקדם של תהליכים תוך גולגולתיים שפירים - סקר פרוספקטיבי. דו"ח ביניים.  
Blink Reflex as a screening examination for early diagnosis of benign intracranial space-occupying lesions. A preliminary report of a prospective study.

Loewenstein Rehabilitation Hospital, Raanana, Tel-Aviv University, Tel-Aviv, 1986 (Hebrew).

##### 3. Catz A.

החזר הוסטיבולואוקולרי בחולים לאחר ארוע מוחי חציודרי.

The Vestibulo-ocular reflex in patients following hemispheric stroke.

Postgraduate Med. School, Tel-Aviv University, Tel-Aviv, Occupational Health and Rehabilitation Institute, Loewenstein Hospital, Raanana, 1990 (Hebrew).

##### 4. Catz A., Itzkovich M, Tamir A, et al.

SCIM - Spinal Cord Independence Measure. A New Disability Scale for Patients with Spinal Cord Lesions. Reliability and sensitivity to functional changes.

Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 1996 (Hebrew).

##### 5. Giladi N, Ohri A, Catz A.

The effect of Botulinum Toxin on leg spasticity in patients with spinal cord lesions.

Ministry of Defence, Tel-Aviv, 1996 (Hebrew).

##### 6. Catz A.

שימוש השימוש במזרון Matrix 200 למניעת פצעי לחץ. ניסוי מקדמי בנפגעי חוט שידרה - דו"ח מסכם.

The feasibility of using the Matrix 200 mattress for pressure sore prevention. A concluding report on a preliminary experiment in patients with spinal cord lesions. Loewenstein Rehabilitation Hospital, Raanana, 1997 (Hebrew).

##### 7. Catz A., Itzkovich M, Tamir A, et al.

The Spinal Pain Independence Measure (SPIM) - A Disability Scale for Patients with Chronic Low Back Pain Disability. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 1998 (Hebrew).

##### 8. Catz A., Itzkovich M, Tamir A, et al.

The Second Version of SCIM - A Disability Scale for Patients with Spinal Cord Lesions. Reliability and Usability of Evaluation by Observation or Interview.

Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 1998 (Hebrew).

9. Catz A, Itzkovich M, Tamir A, et al. The Second Version of SCIM - A Disability Scale for Patients with Spinal Cord Lesions. Sensitivity to functional changes. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 2000 (Hebrew).
10. Greenberg E, Itzkovich M, Catz A. A new measure for ability realization assessment in patients with spinal cord lesions. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 2003 (Hebrew).
11. Bluvshstein V, Catz A. Impaired ventilation and cerebral blood flow velocity in patients with spinal cord lesions. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 2003 (Hebrew).
12. Poliac T, Bluvshstein V, Philo O, Ronen J, Catz A. Clinical and economical consequences of volume dependent or time dependent intermittent catheterization in patients with spinal cord lesions and neuropathic bladder. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 2003 (Hebrew).
13. Barkol H, Steinberg F, Keren O, Catz A. Repeated Botulinum toxin injections improves results in the treatment of spasticity in patients with spinal cord lesions. Loewenstein Rehabilitation Hospital, Raanana, Ministry of Defence, Tel-Aviv, 2003 (Hebrew).
14. Catz A. Hemodynamic and hormonal changes following thoracic spinal cord lesions. Tel-Aviv University, Tel-Aviv, Loewenstein Rehabilitation Hospital, Raanana, 2005.
15. Tchvaloon E, Catz A. Survival, neurological recovery, and morbidity after spinal cord injuries following road accidents and rehabilitation between 1962 and 2004. Loewenstein Rehabilitation Hospital, Raanana, 2006 (Hebrew).

## B.1. Original Articles

### B.1.1. Articles published

1. Catz A, Reider-Groswasser I.  
Acoustic Neurinoma and Posterior Fossa Meningioma, Clinical and CT radiologic findings.  
Neuroradiology 28:47-52, 1986. (**Radiology, 34/120, Rehabilitation, 6/63, IF 2.7, citations-20**)
2. Reider-Groswasser I., Catz A, Luz I.  
Computerized Tomography findings in posterior fossa lesions.  
Computerized Radiology 10:(6)311-318, 1986. (**Now: Computerized Medical Imaging and Graphics- (Radiology, 59/120, Rehabilitation, 20/63, IF 1.664, citations-2)**)
3. Reider-Groswasser I, Catz A, Harel S.  
Posterior Fossa lesions in childhood and infancy - A CT Study.  
Child's Nervous System 3:213-218, 1987. (**Clinical Neurology, 146/191, Rehabilitation, 34/63, IF 1.241, citations-1**)



4. C a t z A, Steinvil Y, Reider-Groswasser I, Costeff H, Luz Y, Solzi P.  
Blink Reflex in Stroke: Followup and correlation with function and CT parameters.  
European Neurology, 28:171-173, 1988. (**Clinical Neurology, 129/191, Rehabilitation, 27/63, IF 1.5, citations-2**)
  
5. Reider-Groswasser I, C a t z A, Harel S.  
Computerized Tomography findings in pediatric patients with posterior fossa lesions.  
Israel Journal of Medical Sciences, 24:212-217, 1988.
  
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B.1.2. Articles accepted – None.

B.1.3. Articles Submitted – None.

## B.2. Case Reports

### B.2.1. Case Reports published

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### B.3. Review Articles

#### B.3.1. Review Articles - published

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(**Rehabilitation - 2011, 21/62, IF 1.779, citations-16**)
6. Anderson K, Aito S, Atkins M, Biering Sorensen F, Chrlifue S, Curt A, Dituno J, Glass C, Marino R, Marshall R, Mulcahey MJ, Post M, Savic G, Scivoletto G, Catz A. Functional recovery measures for spinal cord injury: an evidence-based review for clinical practice and research. *J Spinal Cord Med.*; 31:133-144, 2008.(**Clinical Neurology, 126/191, Rehabilitation 26/63 IF 1.536, citations-32**)

7. Alexander MS, Anderson K, Biering-Sorensen F, Blight AR, Brannon R, Bryce T, Creasey G, Catz A, Curt A, Donovan W, Ditunno J, Ellaway P, Finnerup NB, Graves DE, Haynes BA, Heinemann AW, Jackson AB, Johnston M, Kalpakjian CZ, Kleitman N, Krassioukov A, Krogh K, Lammertse D, Magasi S, Mulcahey MJ, Schurch B, Sherwood A, Steeves JD, Stiens S, Tulskey DS, van Hedel HJA., Whiteneck Gale. Outcome Measures in Spinal Cord Injury: Recent Assessments and Recommendations for Future Directions. *Spinal Cord*, 47:582-91, 2009. **(Rehabilitation, 18/63, IF 1.899, citations- 42)**
8. Catz A, Aidinoff E, Bluvshstein V. A rehabilitation approach to chronic low back pain disability. *Rehabilitation (Ljubljana)*. VIII, Spp.1, 130-133, 2014.

### B.3.2. Review Articles Accepted-none

### B.3.3. Review Articles Submitted–none

## C. Chapters in Books

1. Catz A, Ring H, Solzi P.  
האתגר : שיקום נפגעי שבץ מוחי . בספר : מבוא לרפואה שיקומית בעריכת א. עורי וע. שקד  
The challenge: Rehabilitation of Stroke Patients.  
In: Ohry A, Shaked A. (Eds.): Introduction to Rehabilitation Medicine.  
The ministry of defence, Tel-Aviv, 160-173, 1990.
2. Catz A, Korczyn AD.  
Aging and the Autonomic Nervous System.  
In: Appenzeller O. (Volume Ed), Vinken PJ, Bruyn GW (Eds). Handbook of Clinical Neurology.  
Elsevier, Amsterdam, 74 (30):225-243, 1999.
3. Catz A, Itzkovich M.  
Trends in the assessment of functional outcomes after spinal cord lesions.  
In: Soroker N, Ring H, (Eds.). Advances in Physical and Rehabilitation Medicine.  
Monduzzi, Bologna, 123-127, 2003.
4. Catz A. Patients with chronic spinal cord lesions: the challenges and the rehabilitation systems' solutions.  
In: Ohry A (Ed.). Fundamentals in Rehabilitation Medicine. Reut, Tel-Aviv. pp 85-98, 2011. Hebrew.  
נפגעי חוט שדרה עם ליקוי מתמשך.
5. Catz A. Chronic Low Back Pain in Rehabilitation Medicine. In: Ohry A (Ed.). Fundamentals in Rehabilitation Medicine. Reut, Tel-Aviv. pp 161-177, 2011. Hebrew.  
כאב גב מתמשך ברפואת שיקום.
6. Catz A. Spinal Cord Independence Measure (SCIM). J. Kreutzer et al. (eds.), Encyclopedia of Clinical Neuropsychology, [https://doi.org/10.1007/978-3-319-56782-2\\_1845-2](https://doi.org/10.1007/978-3-319-56782-2_1845-2). Springer International Publishing AG 2017.

#### D.1. Invited papers in scientific meetings

1. Catz A.  
Trends in the assessment of functional outcomes after spinal cord lesions.  
2<sup>nd</sup> World congress of the International Society of Physical and rehabilitation Medicine.  
Prague, Czech Republic, 2003.
2. Catz A.  
Rehabilitation and assessment of functional independence in recovery from SCI.  
ICCP Clinical Trial Workshop. Vancouver, Canada, 2004.
3. Catz A.  
SCIM - Spinal Cord Independence Measure: The comprehensive ability rating scale for the spinal cord lesion patient. Pre-course on outcome measures, the 31<sup>st</sup> Annual Scientific Meeting of the American Spinal Injury Association, Dallas, Texas, USA, 2005.
4. Catz A, Itzkovich M.  
SCIM & SCI-ARMI: Functional assessment measures and a new approach to assessing rehabilitation effectiveness.  
The 6<sup>th</sup> Mediterranean Congress of Physical Medicine and Rehabilitation, Vilamoura, Portugal, 2006.
5. Catz A. The role of the Thoracic Spinal Cord in Hemodynamic Cardiovascular Regulation: A proposed Model.  
The 3<sup>rd</sup> annual meeting of Heart and Brain, The Center for Medical Physics, School of Physics & Astronomy, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 2007.
6. Catz A, Itzkovich M. SCIM Spinal Cord Independence Measure, update. The 48<sup>th</sup> Annual Scientific Meeting of ISCoS, Florence, Italy, 2009.
7. Catz A., Ohry A. Rehabilitation of patients with spinal cord lesions in Israel: Achievements and trends.  
The 6<sup>1st</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2010.
8. Catz A. Principles and examples for measuring rehabilitation achievements and summarizing clinical information in rehabilitation medicine. The 63<sup>rd</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2012.
9. Catz A. Assessment of the ability realization after spinal cord injuries, as a model for the medicine. 7<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine assessment of achievements in rehabilitation. Beijing, China, 2013.
10. Catz A. Assessment of the net effect of rehabilitation after spinal cord injury and generalization to other areas of rehabilitation medicine. 10th Mediterranean Forum of Physical and Rehabilitation Medicine, Budva, Montenegro, 2013.
11. Catz A. The rehabilitation approach to chronic back pain disability. 25<sup>th</sup> Rehabilitation Medicine Days: Clinical Guideline in PME. Ljubljana, Slovenia, 2014.
12. Catz A. Advances in Evaluation of Patients with Spinal Cord Injury. ISICON 2017, International Spine and Spinal injuries conference, New Delhi, India.

13. Catz A. A model for assessment of the net effect of rehabilitation after spinal cord injury, which can be generalized to other areas of medicine, and is feasible for developed and developing countries. ISICON 2017, International Spine and Spinal injuries conference, New Delhi, India.
14. Catz A. The assessment and care of spinal cord injury patients, and their significance in the past and to date. Rehabilitation Science & Technology Update, The 67<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2017.
15. Catz A. Trends and advances in Spinal-Cord Injury assessment and rehabilitation treatment. The annual neurological meeting, Israel neurological association, Galilion Hotel (lecturer), Israel, 2017.

#### D.2. Papers presented at Scientific Meetings

1. Catz A., Steinvil Y, Solzi P, Reider-Groswasser I, Luz Y.  
Blink Reflex in unilateral cerebrovascular lesions: Followup and correlation with functional and CT radiologic parameters.  
13th World Congress of the Israel Medical Association, Jerusalem, Israel, 1985.
2. Askenasy JJ, Mendelson L, Catz A., Costeff H.  
Basal ganglia disorders with marked circadian fluctuations.  
Joint Anniversary conference of sleep disorders centers and sleep research society, Seattle, Washington, U.S.A , 1985.
3. Reider-Groswasser I, Catz A., Harel S.  
Computerized Tomography of posterior fossa lesions in childhood and infancy.  
4th International Child Neurology congress, Jerusalem, 1986.
4. Sazbon L, Catz A., Steinvil Y., Braun H., Solzi P.  
Blink Reflex in Prolonged Unawareness.  
14th World Congress of the Israel Medical Association, Jerusalem, Israel, 1988.
5. Snir D, Catz A., Groswasser Z, Mendelson L, Solzi P.  
Periarticular new bone formation in spinal and craniocerebral lesions.  
29th Annual Scientific Meeting of the International Medical Society of paraplegia. Ramat-Gan, Israel, 1990.
6. Catz A., Ron S, Solzi P, Korczyn AD.  
The Vestibulo-ocular reflex and its correlation with dysequilibrium following hemispheric stroke.  
Poster presentation, the Academy of Neurology Annual Meeting, Miami Beach, Florida, U.S.A , 1990.
7. Catz A., Ron S, Solzi P, Korczyn AD.  
Vestibulo-ocular reflex suppression following hemispheric stroke.  
The Academy of Neurology Annual Meeting, Boston, Massachusetts, U.S.A , 1991.
8. Catz A., Reider-Groswasser I, Gutman I, Gepstein R., Mendelson L.  
Lumbar spine dimensions in C3-T11 Paraparetic Patients: A ten year followup study. 15th World Congress of the Israel Medical Association, The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1991.

9. Catz A, Appel I, Reider-Grosswasser I, Grosswasser Z, Mendelson L, Gepstein R.  
Late onset papilledema following spinal injury. 15th World Congress of the Israel Medical Association, The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1991.
10. Catz A, Ron S, Solzi P, Korczyn AD.  
Vestibulo-ocular reflex activation and suppression in patients with hemispheric stroke.  
15th World Congress of the Israel Medical Association, The Israel Society for Clinical Neurophysiology, Jerusalem, Israel, 1991.
11. Catz A, Ron S, Solzi P, Korczyn AD.  
Saccadic gain and latency in patients with hemispheric stroke.  
15th World Congress of the Israel Medical Association, The Israel Society for Clinical Neurophysiology, Jerusalem, Israel, 1991.
12. Gutman I, Catz A, Shpaser R, Lutvak PZ.  
Urethrocytographic findings in patients with spinal cord lesions.  
The Congress of the Israel Medical Association Scientific Societies,  
The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1993
13. Itzkovich M, Catz A, Ona I.  
A double-purpose splint for elbow extension in tetraplegia below C5.  
The Congress of the Israel Medical Association Scientific Societies,  
The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1993
14. Catz A, Ron S, Solzi P, Korczyn AD.  
Saccade velocity and saccade duration in patients with hemispheric stroke.  
The Congress of the Israel Medical Association Scientific Societies,  
The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1993
15. Catz A, Ron S, Solzi P, Korczyn AD.  
Impairment of saccadic prediction following hemispheric stroke.  
The Congress of the Israel Medical Association Scientific Societies,  
The Israel Society of Physical Medicine & Rehabilitation, Jerusalem, Israel, 1993
16. Ronen J, Catz A, Reider-Grosswasser I.  
Syringomyelia: Rehabilitation outcomes following conservative or surgical treatment.  
The annual meeting of the Israel Society of Physical Medicine & Rehabilitation, Raanana, Israel, 1995.
17. Agranov E, Lutvak ZP, Catz A.  
Results of the surgical treatment of bladder outlet obstruction in patients with spinal cord lesions.  
The annual meeting of the Israel Society of Physical Medicine & Rehabilitation, Raanana, Israel, 1995.
18. Spasser R, Ronen J, Catz A, Reider-Grosswasser I.  
Rehabilitation of patients with spinal Tuberculosis and neurological deficit.  
The annual meeting of the Israel Society of Physical Medicine & Rehabilitation, Raanana, Israel, 1995.
19. Catz A, Itzkovich M, Ring H, Tamir A.  
SCIM - Spinal Cord Independence Measure: a new disability scale for patients with spinal cord lesions.  
The first Mediterranean Congress of Physical Medicine and Rehabilitation, Herzliya, Israel, 1996.

20. Ronen J, Catz A, Spasser R, Reider-Groswasser I.  
Functional outcome following conservative or surgical treatment for syringomyelia.  
Poster presentation, The first Mediterranean Congress of Physical Medicine and Rehabilitation,  
Herzliya, Israel, 1996.
21. Catz A, Itzkovich M., Ring H., Philo O., Prushansky T., Susak Z., Tamir A.  
SCIM: A new disability scale for measuring disability in patients with paraplegia and tetraplegia.  
The 35th Annual scientific meeting of the international medical society of paraplegia, Atlanta, USA, 1996.
22. Ronen J, Catz A, Spasser R, Gepstein R.  
The treatment dilemma in patients with post-traumatic syringomyelia.  
The 36th Annual Scientific Meeting of the International Medical Society of Paraplegia,  
Innsbruck, Austria, 1997.
23. Velan GJ, Catz A., Ronen J, Spasser R, Gepstein R.  
The effect of comprehensive rehabilitation on chronic low back pain disability patients.  
The 8<sup>th</sup> annual meeting of the European Spine Society, Kos, Greece, 1997.
24. Agranov E, Monsenego A., Schwartz M, Catz A.  
The effect of activated astrocytes transplantation on regeneration of transected rat optic nerve and spinal cord.  
The annual meeting of the Israel Society of Physical Medicine & Rehabilitation, Raanana, Israel, 1997.
25. Itzkovitch M, Catz A, Agranov E, Ring H, Tamir A.  
The sensitivity of the SCIM scale to functional changes in subgroups of spinal cord lesion patients.  
The annual meeting of the Israel Society of Physical Medicine & Rehabilitation, Raanana, Israel, 1997.
26. Catz A, Itzkovitch M, Agranov E, Ring H, Tamir A.  
The Spinal Cord Independence Measure (SCIM) in subgroups of spinal cord lesion patients.  
The II Mediterranean Congress of Physical Medicine and Rehabilitation, Valencia, Spain, 1998.
27. Itzkovitch M., Catz A, Philo O, Steinberg F, Ronen J, Spasser R, Tamir A.  
Disability assessment of spinal cord injury patients, with an improved version of the Spinal Cord  
Independence Measure (SCIM).  
12th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation, Tel-Aviv, Israel, 1999.
28. Philo O, Catz A, Itzkovitch M, Steinberg F, Ronen J, Spasser R, Tamir A.  
Disability assessment of spinal cord injury patients, by a single nurse or by a multidisciplinary team,  
with the Spinal Cord Independence Measure.  
12th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation, Tel-Aviv, Israel, 1999.
29. Thaleisnik M, Catz A, Fishel B, Ronen J, Spasser R.  
Survival, neurological recovery and morbidity, in spinal cord injury patients in Israel.  
12th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation, Tel-Aviv, Israel, 1999.
30. Agranov E, Lazarov-Spiegler O, Yoles E, Rapalino O, Catz A, Schwartz M. Selecting a behavioral test for  
assessment of regeneration in rat injured spinal cord.  
12th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation, Tel-Aviv, Israel, 1999.

31. Catz A, Itzkovitch M, Philo O, Steinberg F, Ronen J, Spasser R, Gepstein R, Tamir A.  
The Spinal Cord Independence Measure (SCIM), Version II: Reliability and sensitivity to changes in functional status (poster presentation).  
The 39th Annual Scientific Meeting of the International Medical Society of Paraplegia, Sydney, Australia, 2000.
32. Catz A, Taleysnik M, Fishel B, Ronen J.  
Survival following Spinal Cord Injury in Israel.  
The 40th Annual Scientific Meeting of the International Medical Society of Paraplegia, Nottwil, Switzerland, 2001.
33. Spasser R, Itzkovitch M, Philo O, Steinberg F, Ring H., Ronen J, Tamir A, Catz A.  
SCIM assessment by a single nurse or a team.  
The 40th Annual Scientific Meeting of the International Medical Society of Paraplegia, Nottwil, Switzerland, 2001.
34. Catz A, Grinberg A, Itzkovich M.  
The spinal cord injury ability realization measurement index (SCI-ARMI): a new approach to outcome assessment in rehabilitation medicine.  
IMSOP&ASIA 1st Joint Meeting, Vancouver, Canada, 2002.
35. Catz A, Pinhas I, Akselrod S, Bornstein N, Bluvstein V, Nissel T, Vered Y, Korczyn AD.  
The role of the spinal cord in the control of cerebral blood flow velocity (CBFV). Preliminary findings in healthy subjects and in patients with spinal cord lesions (SCL).  
The Fourth Research Fair of The Sackler Faculty of Medicine. Tel-Aviv, 2003.
36. Spivak E, Keren O, Levental J, Niv D, Steinberg F, Chen B, Catz A.  
Functional electrical stimulation (FES) activated by electromyographic signals, to assist cough and improve pulmonary function in patients with cervical spinal cord lesions (SCL).  
The Fourth Research Fair of The Sackler Faculty of Medicine. Tel-Aviv, 2003.
37. C a t z A.  
Trends in the assessment of functional outcomes after spinal cord lesions.  
2<sup>nd</sup> World congress of the International Society of Physical and rehabilitation Medicine.  
Prague, Czech Republic, 2003.
38. Zlobinsky R, Gaides M, Catz A, Ben-Dov Y.  
The respiratory response to hypercapnia in patients with chronic lower cervical spinal cord injuries.  
Congress of equipment and advanced technologies in rehabilitation. The Israel Society of Physical Medicine & Rehabilitation, Shfaim, Israel, 2003.
39. Catz A, Itzkovicv M.  
Rehabilitation and functional independence assessment in recovery from SCI.  
ICCP Clinical Trials Workshop. Vanvouver, Canada, 2004.
40. Bluvshstein V, Pinhas I, Gelernter I, Bornstein N, Nissel T, Vered Y, Ronen J, Akselrod S, Korczyn AD, Catz A,  
The effect of cerebral blood flow velocity on ventilation in patients with spinal cord lesions. 15th Israel Medical Week. The Israel Society of PM & R, Tel-Aviv, Israel, 2004.

41. Spivak E, Oxenberg A, Gelernter I, Ronen J, Bluvshstein V, Catz A.  
The feasibility of actigraphy for sleep assessment in patients with tetraplegia. 15th Israel Medical Week. The Israel Society of Physical Medicine & Rehabilitation, Tel-Aviv, Israel, 2004.
42. Catz A, Pinhas I, Akselrod S, Bornstein N, Korczyn AD.  
The role of the spinal cord in the control of cerebral blood flow velocity (poster presentation). American academy of neurology annual meeting, San-Francisco, USA, 2004.
43. Itzkovich M, Catz A.  
SCIM II: reliability and sensitivity to functional changes in patients with SCL. The American Occupational Therapy Association's 84<sup>th</sup> Annual Conference and Expo, Minneapolis, MN, USA, 2004.
44. Catz A, Pinhas I, Akselrod S, Gelernter I, Bornstein N, Bluvshstein V, Nissel T, Vered Y, Korczyn AD.  
Lower-thoracic Spinal Cord Regulation of Cold Pressor Response to Foot Ice-water Immersion. The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
45. Ronen J, Goldin D, Itzhovich M, Bluvshstein V, Gelernter I, Gepstein R, Folman Y, Catz A.  
Outcomes in patients admitted for rehabilitation with spinal cord lesions following degenerative spinal stenosis. The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
46. Bluvshstein V, Polliack T, Philo O, Ronen J, Gelernter I, Luttwak Z, Hart J, Catz A.  
Clinical and economic consequences of volume- or time-dependent intermittent catheterization in patients with spinal cord lesions and neuropathic bladder. The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
47. Itzkovich M, Philo O, Gilad N, Ahron B, Ben-Moshe D, Gelernter I, Catz A.  
International evaluation of the 3<sup>rd</sup> version of the Spinal Cord Independence Measure: preliminary results of reliability, sensitivity to functional changes, and Rasch analysis. The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
48. Spivak E, Keren O, Niv D, Levental J, Steinberg F, Barak D, Ronen J, Bluvshstein V, Gelernter I, Catz A.  
Functional electrical stimulation activated by electromyographic signals to improve respiratory function in patients with cervical spinal cord lesions. The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
49. Barkol H, Steinberg F, Keren O, Catz A.  
Repeated injections improve Botulinum toxin effect on spasticity in patients with spinal cord lesions (poster presentation). The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.



50. Vander T, Odi H, Bluvstein V, Ronen J, Catz A. Carbamazepine Toxicity Following Oxybutynin and Dantrolene Administration (poster presentation). The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
51. VanderT, Kish B, Strauss S, Ronen J, Bluvstein V, Catz A. Quadriceps Tendon Rupture in Postanoxic Choreo-athetosis (poster presentation). The 55<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2004.
52. Catz A, Itzkovich M, Biering-Sorensen F. SCIM III International Study: Preliminary results (Poster presentation). The 31<sup>st</sup> Annual Scientific Meeting of the American Spinal Injury Association, Dallas, Texas, USA, 2005.
53. Ronen J, Izkovich M, Bluvshstein V, Catz A. Outcomes in patients admitted for rehabilitation with spinal cord lesions following degenerative spinal stenosis. 44<sup>th</sup> ISCoS Annual Scientific Meeting, Munich, Germany, 2005.
54. Catz A, Bluvshstein V, Pinhas I, Akselrod S, Gelernter I, Nissel T, Vered Y, Bornstein N, Korczyn AD. The role of the thoracic spinal cord in hemodynamic regulation: a proposed model. 44<sup>th</sup> ISCoS Annual Scientific Meeting, Munich, Germany, 2005.
55. Bluvshstein V, Pinhas I, Akselrod S, Bornstein N, Nissel T, Korczyn AD, Catz A. Impaired ventilation and cerebral blood flow velocity in patients with spinal cord lesions. 44<sup>th</sup> ISCoS Annual Scientific Meeting, Munich, Germany, 2005.
56. Izkovich M, Catz A, Biering-Sorensen F. SCIM III reliability and validity: a multi-center intrnational study. 44<sup>th</sup> ISCoS Annual Scientific Meeting, Munich, Germany, 2005.
57. T. Polliack, Bluvshstein V, Philo O, Ronen J, Gelernter I, Luttwak Z, Hart J, Catz A. Time dependent vs volume dependent intermittent catheterization among patients with spinal cord lesions and neuropathic bladder – clinical and economic consequences (poster presentation). 44<sup>th</sup> ISCoS Annual Scientific Meeting, Munich, Germany, 2005.
58. Catz A, Bluvshstein V, Pinhas I, Akselrod S, Gelernter I, Nissel T, Vered Y, Bornstein N, Korczyn A. A proposed model of two thoracic spinal cord neural centers for hemodynamic regulation. The 56<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2005.
59. Ronen J, Bluvshstein V, Catz A. Outcomes in patients admitted for rehabilitation with spinal neurological lesions following intervertebral disc herniation. The 56<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2005.
60. Barkol H, Avnery S, Spranchic M, Florentin A, Handlezaltz S, Fadida Y, Shafrir I, Catz A. Utilization of orthoses in patients with spinal cord lesions, a year or more after discharge from rehabilitation. The 56<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2005.

61. Izkovich M, Catz A, Biering-Sorensen F, Tesio L.  
A multi-center international study of SCIM third version. The 56<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2005.
62. Catz A, Thaleisnik M, Goldin D, Bluvshstein V, Ronen J.  
Survival following spinal cord injury in Israel. The 7<sup>th</sup> Israel Spine Society Conference, The Dead Sea, Israel, 2006.
63. Catz A, Bluvshstein V, Pinhas I, Akselrod S, Nissel T, Vered Y, Bornstein N, Korczyn AD.  
The role of the thoracic spinal cord in hemodynamic regulation: a proposed model. The 7<sup>th</sup> Israel Spine Society Conference, The Dead Sea, Israel, 2006.
64. Catz A, Ditunno J.  
Final report of the functional recovery committee. ASIA/ISCoS Global Spinal Cord Injury Conference; pre-conference on SCI outcomes, Boston, USA, 2006.
65. Catz A, Itzkovich M.  
SCIM & SCI-ARMI: functional measures and a new approach to assessing rehabilitation effectiveness. The VI Mediterranean Congress of Physical Medicine and Rehabilitation, Vilamoura, Portugal, 2006.
66. Catz A.  
Assessment of the feasibility of hospital-community cooperation in rehabilitation medicine. The 57<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2006.
67. Catz A, Itzkovich M.  
SCIM III reliability and validity: A multicenter international study. The 8<sup>th</sup> Israel Spine Society Conference, Eilat, Israel, 2007.
68. A Catz, V Bluvshstein, AD Korczyn, I Pinhas, I Gelernter, T Nissel, Y Vered, NM Bornstein, S Akselrod. Modified cold pressor test by cold application to the foot after spinal cord injury suggests hemodynamic control by the spinal cord and can be used to assess spinal cord autonomic integrity. The 46<sup>th</sup> Annual Scientific Meeting of ISCoS and 10<sup>th</sup> Biannual Congress of NoSCoS, Reykjavík, Iceland, 2007.
69. Amit Y, Catz A.  
Spinal cord Rehabilitation Outcomes in Four Countries: a comparative study. The 58<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2007.
70. Bluvshstein V, Abou-Amsha K, Front L, Gelernter I, Hart J, Ronen J, Catz A.  
Rehabilitation outcomes in patients with spinal cord injury in Israel 1992-2003. The 58<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2007.
71. Tchvaloon E, Front L, Gelernter I, Ronen J, Bluvshstein V, Catz A.  
Survival, neurological recovery, and morbidity after spinal cord injuries following road accidents in Israel. The 58<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2007.

72. Catz A, Biering-Sørensen F, Baskov V, Juocevicius A, Amit Y, Baskov A, Dreval O, Teresè P.  
Comparison of Spinal cord lesions Rehabilitation in Four Countries: effect of unit properties and policy on Outcomes. The 47<sup>th</sup> Annual Scientific Meeting of ISCoS, Durban, South Africa, 2008.
73. Catz A, Bluvshstein V, Akselrod S, Korczyn AD, Pinhas I, Gelernter I.  
Hemodynamic responses to head-up tilt after spinal cord injury support a role for the thoracic spinal cord in cardiovascular regulation. The VII Medirerranean Congress of Physical Medicine and Rehabilitation, Portoroz, Slovenia, 2008.
74. Front L, Bluvshstein V, Itzkovich M, Gelernter I, Catz A.  
A new classification of the daily task implamentation: Examination of the model in patients with spinal cord lesions. The 59<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2008.
75. Bluvshstein V, Poliac T, Front L, Itzkovich M, Gelernter I, Catz A.  
Further development of the Spinal Cord Injury Ability Realization Measurement Index. The 59<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2008.
76. Catz A.  
Ability realization: Complementing the ICF concept of "capacity" and supporting outcome assessment and prediction after spinal cord injuries: Introduction to the Predicting Outcome session. The 48<sup>th</sup> Annual Scientific Meeting of ISCoS, Florence, Italy, 2009.
77. Bluvstein V, Oksenberg A, Arons E, Front L, Catz A.  
Comparison of actigraph and polysomnograph findings after spinal cord injuries. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.
78. Weitz R, Kestler H, Front L, Bluvshstein V, Catz A.  
Using the Spinal Cord Independence Measure (SCIM) for decision making during rehabilitation. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.
79. Front L, Beniamini Y, Galili T, Bluvshstein V, Itzkovich M, Zeilig G, Catz A.  
A new classification of daily task performance after spinal cord injuries, using SCIM scores clusters. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.
80. Itzkovich M, Front L, Shafler H, Catz A.  
SCIM III by observation and by interview. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.

81. Aidinof E, Noyman Y, Front L, Itzkovich M, Bluvshstein V, Catz A.  
Comparison of rehabilitation outcomes between subgroups of spinal cord injury patients, from Israel, Europe and Canada. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.
82. Catz A.  
Ability realization: Complementing the ICF concept of "capacity" and supporting outcome assessment and prediction after spinal cord injuries. The 60<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2009.
83. Catz A, Benjamini Y.  
A new grading for easy and concise description of functional status after spinal cord lesions. The VIII Mediterranean Congress of Physical Medicine and Rehabilitation, Limassol, Cyprus, 2010.
84. Catz A, Galili T, Bluvshstein V, Polliack T, Front L, Itzkovich M, Aidinof E, Hart J, Benjamini Y. Non-linear formulas for the spinal cord injury ability realization measurement index (SCI-ARMI). 49<sup>th</sup> ISCoS Annual Scientific Meeting, New-Delhi, India, 2010.
85. Front L, Itzkovich M, Bluvshstein V, Aidinof E, Zeilig G, Catz A.  
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103. Aidinoff E, Catz A, Bluvshstein V, Birman U, Gelernter I, Drory Y. Protective factors can balance risk factors for coronary artery disease, after spinal cord injuries. 9th Mediterranean Forum of Physical and Rehabilitation Medicine, Sorrento, Italy, 2012.
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118. Aidinoff E, Yoseph S, Gelernter I, Bluvshstein V, Catz A. Pain Reduction in Inpatients with Low Back Pain Disability (poster presentation). 8<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Cancun, Mexico, 2014.
119. Catz A, Aidinoff E, Kartoon S, Bluvshstein V. Spondylotic myelopathy: Rehabilitation outcomes after surgical intervention or without it. 53<sup>rd</sup> ISCoS Annual Scientific Meeting, Maastricht, The Netherlands, 2014.
120. Aidinoff E, Yeminini L, Menachem Y, Philo O, Pollack T, Shatkani T, Catz A. Computerization and assimilation of an instrument for functional potential realization, as a model for the assessment of treatment achievements (Poster presentation). The 21<sup>st</sup> congress of the Israeli Society for Quality in medicine, Tel-Aviv, Israel, 2014.
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123. Aidinoff E, Kartoon S, Bluvshstein V, Catz A. Spondylotic myelopathy: Rehabilitation outcomes after surgical intervention or without it. The 65<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Jerusalem, Israel, 2014.
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125. Catz A, Steeves J, Scivoletto G, Aidinoff E, Galili T, Benjamini Y. Assessment of the Clinical Significance of Change in Function After Spinal Cord Injury. Poster presentation. The 4<sup>th</sup> ISCoS and ASIA joint scientific meeting, Montreal, Canada, 2015.

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130. Bluvshstein V, Yosef Ayalon S, Aidinoff E, Front L, Gelernter I, Catz A. The use of narcotic medication during chronic low back disability rehabilitation. Rehabilitation Science & Technology Update, Tel-Aviv, Israel, The 66<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2016.
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134. Catz A, Itzkovich M, Scheffler H, Gelernter I, Gur R, Bluvshstein V. Loewenstein rehabilitation Hospital, Tel-Aviv University, Israel. SCIM III (Spinal cord independence measure version III) Assessment by interview: reliability and comparison with assessment by observation. Poster presentation. 11<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Buenos-Aires, Argentina, 2017.



135. Catz A, Gur Pollack R, Yamini L, Bluvshstein V, Michaeli D, Elkayam K, Aidinoff E. Ability realization after SCI or cauda-equina lesion and its improvement during rehabilitation. Poster presentation. 56<sup>th</sup> ISCoS Annual Scientific Meeting, Dublin, Ireland, 2017.
136. Aidinoff E, Polak T, Abu Rois M, Goizman V, Oksenberg A, Gur Pollack R, Michaeli D, Elkayam K, Catz A . Sleep quality and daytime sleepiness improve in SCI inpatients after one month of rehabilitation. Poster presentation. 56<sup>th</sup> ISCoS Annual Scientific Meeting, Dublin, Ireland, 2017.
137. Michaeli D, Bluvshstein V, Polak T, Abu Rois M, Goizman V, Oksenberg A, Gur Pollack R, Aidinoff E, Elkayam K, Catz A . Severe sleep-related breathing disorders are rare in patients with spinal cord injury. Poster presentation. 56<sup>th</sup> ISCoS Annual Scientific Meeting, Dublin, Ireland, 2017.
138. Michaeli D, Polak T, Yamini L, Bluvshstein V, Aidinoff E, Catz A . Factors affecting the improvement in ability realization during spinal cord injury or cauda equina lesion rehabilitation. Poster presentation. 56<sup>th</sup> ISCoS Annual Scientific Meeting, Dublin, Ireland, 2017.
139. Aidinoff E, Groswasser Z, Bierman U, Gelernter I, Catz A, Gur-Pollack R. Vegetative state outcomes improved over the last two decades. Rehabilitation Science & Technology Update, The 67<sup>th</sup> annual conference of the Israeli association of Physical and rehabilitation Medicine, Tel-Aviv, Israel, 2017.
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144. Catz A, Gur Pollack R, Bluvshstein V, Michaeli D, Aidinoff E. Ability realization after SCI or cauda equina lesions, and its improvement during rehabilitation. The 19<sup>th</sup> Israel Spine Society Conference, Eilat, Israel, 2018.
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146. Catz A, Oksenberg A, Bluvshstein V, Michaeli D, Poliack T, Aidinoff E, Goizman V, Elkayam K, Gur-Pollack R. Is Actigraphy Suitable For Sleep Assessment In C4A Tetraplegia? Poster presentation. 12<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Paris, France, 2018.
147. Michaeli D, Oksenberg A, Bluvshstein V, Poliack T, Aidinoff E, Goizman V, Elkayam K, Gur-Pollack R, Catz A. Head- and wrist-mounted actigraphy and polysomnography in paraplegia. 12<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Paris, France, 2018.
148. Aidinoff E, Elkayam K, Oximityn A, Gur-Pollack R, Groswasser Z, Catz A. Consciousness Recovery after Various Periods in Vegetative State. 12<sup>th</sup> World congress of the International Society of Physical and rehabilitation Medicine. Paris, France, 2018.

### D.3. Abstracts

1. Askenasy JJ, Mendelson L, Catz A., Costeff H.  
Basal ganglia disorders with marked circadian fluctuations.  
Sleep Research 14:349-350, 1985.
2. Reider-Grosswasser I, Catz A, Harel S.  
Posterior Fossa lesions in childhood and infancy.  
Journal of Child Neurology 1:275, 1986.
3. Catz A., Ron S, Solzi P, Korczyn AD.  
The Vestibulo-ocular reflex and its correlation with dysequilibrium following hemispheric stroke.  
Neurology 40(4)(Suppl 1):327, 1990.
4. Catz A, Ron S, Solzi P, Korczyn AD.  
The Vestibulo-ocular reflex suppression following hemispheric stroke.  
Neurology 41(3)(Suppl 1):185, 1991.
5. Catz A, Itzkovich M, Biering-Serensen F.  
SCIM III international study: preliminary results. The journal of spinal cord medicine 28:162, 2005.

## E. Items in Encyclopedias

1. Catz A. Paraplegia. The Israeli Encyclopedia of Medicine. 2007 (Hebrew).
2. Catz A. Tetraplegia. The Israeli Encyclopedia of Medicine. 2007 (Hebrew).
3. Catz A. Spinal Cord Independence Measure. Kreutzer JS, DeLuca J, Caplan B, (Eds), Encyclopedia of Clinical Neuropsychology, Springer; New York, 2351-2353, 2011.

## F. Books Edited - None

## G. Other Publications

### G.1. Letters to the Editor

1. Catz A, Tamir A, Itzkovich M.  
SCIM should be used without delay - a reply to Prof. Dickson's letter.  
Spinal Cord, 36:734-735, 1998.
2. Catz A.  
Hemodynamic responses to the cold pressor test in spinal cord-injured individuals  
– a Reply to JT Groothuis and MTE Hopman's letter.  
Spinal Cord, 47:96, 2009.
3. Catz A.  
Response to Cardiovascular control during head-up tilt test in spinal cord injury patients.  
Spinal Cord, 49:674, 2011.
4. Aidinoff E, Bluvshstein V, Bierman U, Gelernter I, Front L, Catz A.  
Reply to comment on coronary artery disease and hypertension in a non-selected spinal cord  
injury patient population (letter to the Editor).  
Spinal Cord Ser Cases. 2:16029, 2016.
5. Catz A, Tesio L, Benjamini Y.  
Comments on the Spinal Cord Ability Ruler. Spinal Cord. Epub ahead of print, 2018.

### G.2. Papers prepared with the assistance of A.Catz

1. Marineck C., Eldar R. (Eds.) Guidelines for Rehabilitation of Physically wounded in Disaster Situation.  
WHO/EURO Consultation, Ljubljana, Slovenia, 1996.

### G.3. Non peer-reviewed Publications

#### 1. Catz A.

רפואת השיקום בטיפול בנפגעי חוט-השדרה. עלון מידע מס' 9, קופ"ח הכללית, מאי 1991.  
Rehabilitation Medicine in the treatment of patients with spinal cord lesion.  
Alon Meida (Kupat Holim), N.9, May 1991.

#### 2. Catz A, Ohry A.

Rehabilitation Medicine for the patients with spinal cord lesions. In : Ohry A (ed).  
Rehabilitation Medicine, selected chapters. רפואת השיקום בשירות נפגעי חוט השדרה.  
Aurora, medical publications, Tel-Aviv, 2004.

#### 3. Catz A, Ohry A.

Rehabilitation of spinal cord injury patients in Israel: background, status, recommendations. A report for the  
Israeli national council for rehabilitation. January 2007.  
שיקום נפגעי חוט השדרה בישראל: רקע, תמונת מצב, המלצות. דו"ח למועצה הלאומית לשיקום.

#### 4. Catz A, Bluvshtein V, Aidinoff E. Updates for the International Standards for Neurological Classification of Spinal Cord Injury. Harefua Update, December 2014, 12-13.

עדכונים לקובץ התקנים הבין-לאומי לסיווג הנזק הנוירולוגי לחוט השדרה. הרפואה update. דצמבר 2014.

### G.4. Papers for routine use in rehabilitation

1. Medical Questionnaire for evaluation of patients with lesions of the spinal cord and peripheral nerves, 1989.
2. A scale for functional evaluation for patients with spinal cord lesions (SCIM I), 1994.
3. A revised scale for functional evaluation for patients with spinal cord lesions (SCIM II), 1996.
4. A scale for functional evaluation for patients with chronic low back pain disability (SPIM), 1997.
5. An international version of a scale for functional evaluation for patients with spinal cord lesions (SCIMIII), 2002.
6. A scale for ability realization measurement for patients with spinal cord lesions (SCI-ARMI), 2002.
7. An international version of SCI-ARMI, controlled for age and gender, 2015.

### G.5. Invited lecturers in other Scientific/Educational Events

- 1996 A Study Day of the defence ministry in Rehabilitation Research, Raanana, Israel.  
1997 AO Spine Course, Hertzliya, Israel.  
1998 A Study Day of the defence ministry in Rehabilitation Research, Raanana, Israel.  
1999-2002 Lectures to Family Physicians on Spinal Cord Injuries and Chronic Back Disability, Israel.  
2002 Lectures in course on Spinal Cord Injuries, Sheba Hospital, Israel.  
2003 Lectures in Stoke-Mandeville and Southport, UK, on trends in spinal cord rehabilitation assessment.  
2003 A lecture in the autonomic unit, Queen Square, London, on the role of the spinal cord in CBF regulation.  
2007 A lecture for assistants of judges on spinal cord injury and its legal aspects, in LRH.  
2007 AO Spine Course, Beersheba, Israel.  
2009 AO Spine Course, Tiberius (Ramot Resort), Israel.  
2010 Medicine for lawyers course, Tel-Aviv University, on spinal cord injury rehabilitation.  
2013 A lecture on assessment of functional potential in spinal cord injury patients, as a model for  
outcome assessment in rehabilitation. Prof. Hart's retirement meeting, School of Public  
Health, the Dept. of Epidemiology and Preventive Medicine, Tel-Aviv University, Israel.  
2014 A lecture for lawyers on assessment of life expectancy in cases of severe disabilities.  
Carlton Hotel, Tel-Aviv.

- 2015 A lecture for lawyers serving as assistant to judges, on principles of the preparation of medical legal opinion, in cases of severe disabilities. Tel-Aviv district court.
- 2015 A lecture on a model of outcome assessment, for "Clalit " senior management. Clalit education center, Petah Tikva.
- 2016 A lecture for lawyers, on spinal cord injury, its rehabilitation, and legal aspects. Israel Bar Association, Haifa district.
- 2016 A lecture on the role of the thoracic spinal cord in autonomic cardiovascular regulation, for a day of lectures on the autonomic nervous system in the Physiotherapy department, Tel-Aviv University.