





Dr. Batia Marom Prof. Carel Rafi, Prof. Sharabi Moshe & Prof. Ratzon Navah

May 2018

actors related to work participation after hand injuries among manual workers The incidence rate of hand injuries in manufacturing environments ranged from 4 to 11 per 100 workers per year.

epidemiology of hand injury

cientific background

tatement of the

problem:

(Sorock G, et al, 2001, Shi et al, 2014, Rosberg et al 2013)

HI account for approximately fifth of all cases presented to emergency departments in hospitals.

(Dias JJ et al, 2006, Atroshi I, et al, 2001, Rosberg et al, 2013)



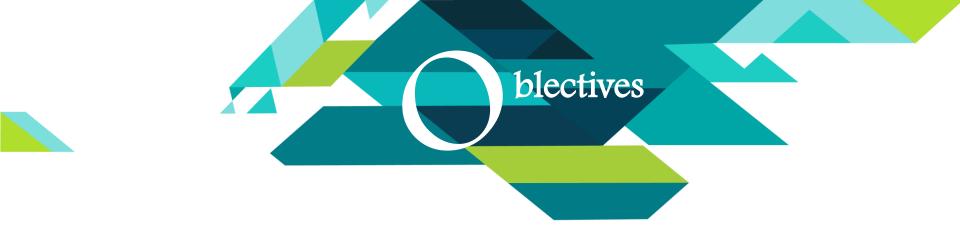
We could not find information regarding the number of people who do not return to work after HI.

HI cause long duration of treatment and great community cost, Therefore, it is important to examine the factors that are affect participation in work after HI. cientific background factors relating RTW after HI

It is agreed that information related to medical conditions and objective medical findings are not the only factors that can predict RTW.

Current literature emphasizes the integration between medical, psychosocial, personal, and environmental variables in RTW.





To determine time of return to work (TRTW) in relation to multivariable predictors among, male manual workers after hand injury (HI) over 12-month follow-up.







Sample:

178 subjects (90 Arabs, 88 Jews).

Age: M= 37.4, SD=11.0.

Nature of work	N (%)
Skilled workers	78 (43.8)
Production, agriculture, unskilled labor	39 (21.9)
Construction	25 (14.0)
Driver	21 (11.8)
Service industry	15 (8.4)

70.1% occurred during working hours

Type of injury	N (%)
Fracture	69 (38.8)
Tendon Injury	34 (19.1)
Soft tissue Injury	34 (19.1)
Amputation	19 (10.7)
Injury involving >1 compartment of the hand	19 (10.7)

esults



Employment profile	All study cohort		Jewish		Arab		Value (X ²)	Sig
	N !	%	N	%	N	%		
RTW by 3 months	66	37.1	40	45.5	26	28.9	5.23	.030
Not working	112	62 9	48	54.5	64	71.1		
RTW by 6 months	115	65	62	70.5	53	59.6	2.31	.128
Not working	62	35	26	29.5	36	40.4	2.31	.128
RTW by 9 months	130	73.9	69	78.4	61	69.3	1.88	.170
Not working	46	26.1	19	21.6	27	30.7		
RTW by 12 months	134	75.3	70	79.5	64	71.1	3.10	.212
Not working	42	24.7	18	20.5	24	26.7		

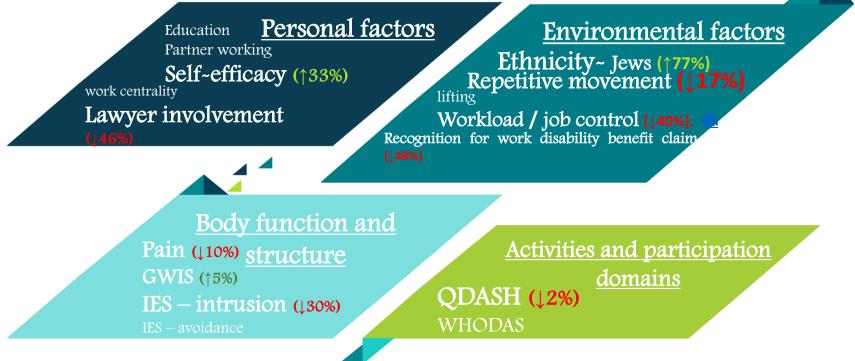


Mean time of RTW: 121 days, SD = 68.3 days. Median TRTW: 94 days. 90% returned to the same workplace and same work position.

13.8% returned to reduced working hours.10.6% of participants had work restrictions.

Only two participants were in NII work rehabilitation programs or in the process of entering such a program.

TRTW as a function of variables, divided to ICF domains: multiple Cox regressions of 12-month follow-up





In practice, some of the predictors are beyond the control of care givers but:

It should become central in understanding its effect on work participation.

It should be taken into account in the assessment and intervention process in order to promote RTW



 Onclusions:

 Underling the multi
 aspects in

 the rehabilitation process

Some of the predictors can be modified with specific interventions

- \checkmark Physical capability of the hand.
- ✓ Pain management.
- ✓ Psychosocial aspects.
- \checkmark Personal and environmental aspects.
- 🗸 Focus on work activities 🚢

12



✓ Developing treatment programs (work hardening programs) for those who are at risk for not RTW, taking into consideration these factors.

 \checkmark Explore and use coping strategies during the rehabilitation process.

✓ Examine novel interventions to improve employment outcomes, specifically interventions that take in consideration the cultural uniqueness of different ethnic groups (attitudes and beliefs about illness and disability).

