



Low back pain.

Occupational injuries and diseases.

Observations in France and prevention proposals

jean-pierre meyer, jean-pierre zana INRS, National Institute of Research and Safety

meyer@inrs.fr

Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles

Low Back Pain – Disc pathology

pmsi 2010

Medical information informatized prog Damon et al. Rev med ass mal, 2000,4,19-27 Deyo et al back surgery Has 2000, protheses discales Garreau de lobreses aca de médecine 2009 Ramamurti analyst frost&sullivan

24 millions hospital stays

1,08 millions about musculoskeletal pathologies
½ articular diseases

182 500 back disorders

- spine surgery **85 000**

fractures 7 500

discs 62 000 lumbar 15 000

others 18 000

- traumatic pathology 28 000 lumbar spine and pelvic fractures

- medical therapeutic 85 000 back pain

fractures 27 000

lumbar disc + sciatica 13 000

LBP, lumbago + sciatica 11 300

sciatica alone 11 500 low back pain 21 500

sciatica 35000



work as a risk factor

	LBP?	sciatica < knee	off work	off work duration (d)
controle	64,4	4,8	5,1	7,0
exposed	71,5	9,8	28,9	20,2
	p > 0.1	p = 0.06	p < 0.01	p = 0.08

in % of a male working population (n = 642)



compensated back pathologies

cnam-ts statistics

in 2010

- occupational injuries 660 000

involving low back 110 000 17 % of the total

of work duration lumbago 59,3 days

all 56,4 days

- occupational diseases (tables 97 & 98)

- chronic back pain with sciatica and concordant disc hernia

Whole body vibration 350

Manual handling 2500 almost the same since 1999

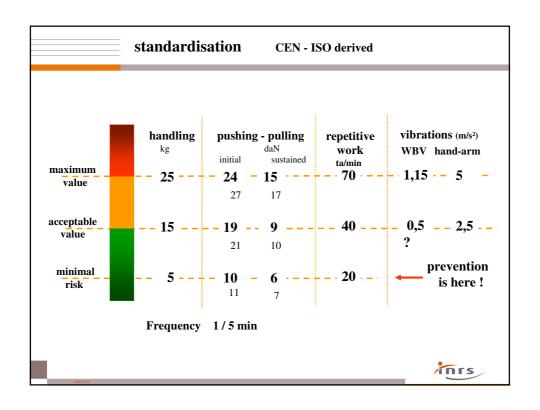


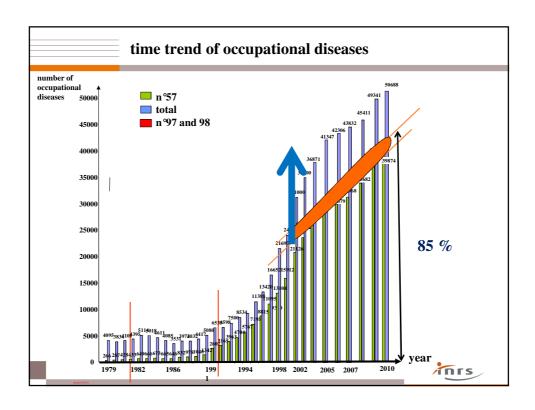
occupational disease tables 97 and 98 (published 15/02/99 chronic disorders of the lumbar spine induced by: trg 97: exposure to WBV of low and medium frequencies clinical aspect time diseases - using or driving earth moving machines, loader, excavator, leveller, road roller, tip cart, forklift, scourer, caterpillar tractor, sciatica due to disc hernia agricultural or forestry tractor: at L4-L5 or L5-S1 level with using or driving industrial moving machines: forklift, cranes, a concordant level of delay to declare: standing on vibrating machines nerve compression 6 months lorry driving. exposure time crural radiculopathy due to - road, sea, and railway transportation, building, public works, mines > 5 ydisc hernia at disc level and quary; garbage and industrial scraps collection; furniture L_2 - L_3 or L_3 - L_4 or L_4 - L_5 remover and keeper, slaughter house and quartering; loading and with a concordant level unloading during manufacturing, or delivering including activity for of nerve compression others; industrial, agricultural, forestry and food products storing and distribution; health care and paramedic activities including handling and moving of persons by stretcher; funeral works. trg 98: manual handling of heavy loads limitative list of tasks

what brings occupational compensation?

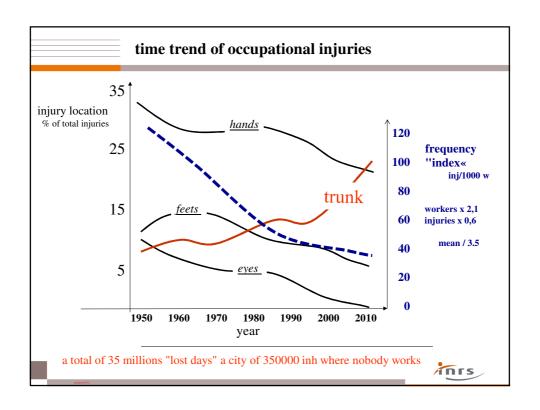
- better economic and social support for the worker
- awarness from the employers more attention to prevention direct cost
- manual handling prevention campaigns
- vibration, MH, postures are part of the work hardness evaluation ageing and hardness are new legal work agreement
- standards vibrations, handling, repetitive tasks

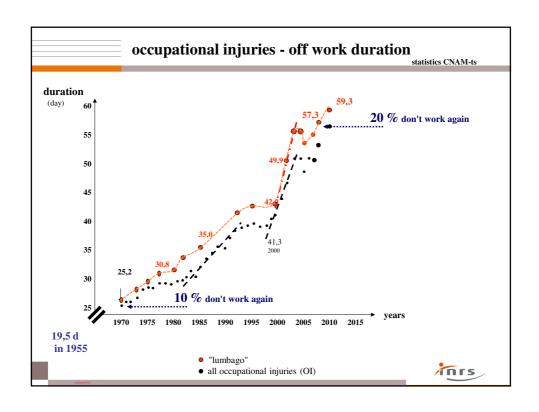


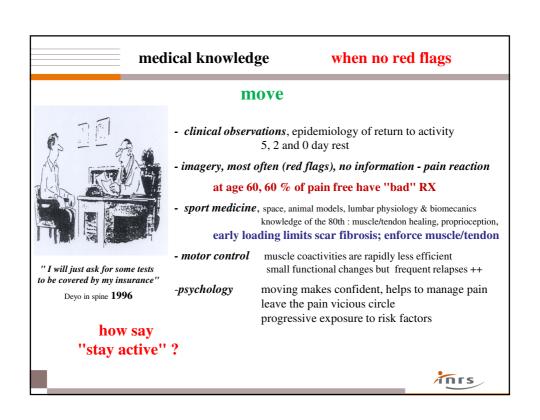


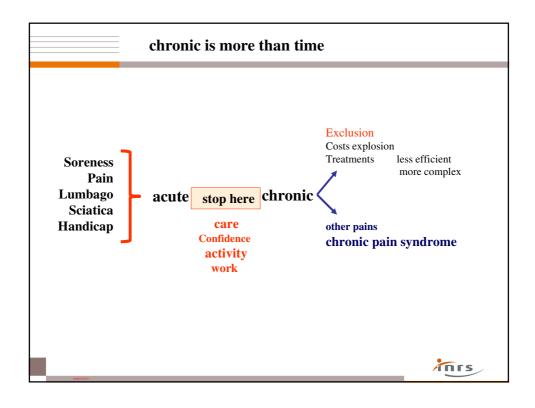


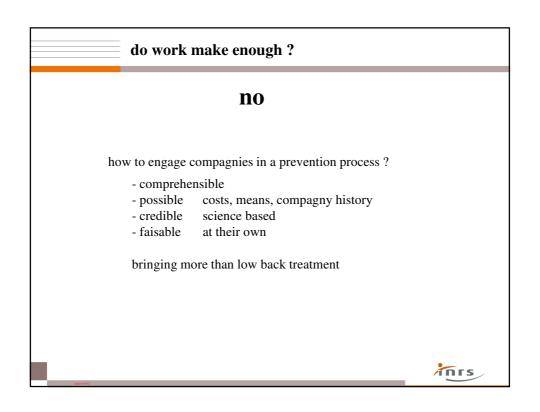
	"MSDlimbs"	vibrations hand/arm	meniscus	chronic lombo-sciatica WBV ib MHandling	
n°	57	69	79	97	98
number	39874	131	422	381	2433
days lost(million)	8,2	0,036	0,084	0,144	0,919
off work d/case	207	277	198	<u>379</u>	<u>378</u>
2006 figures	+ 25	10	27	9 %	
off work d/case	166	252	156	<u>349</u>	<u>349</u>

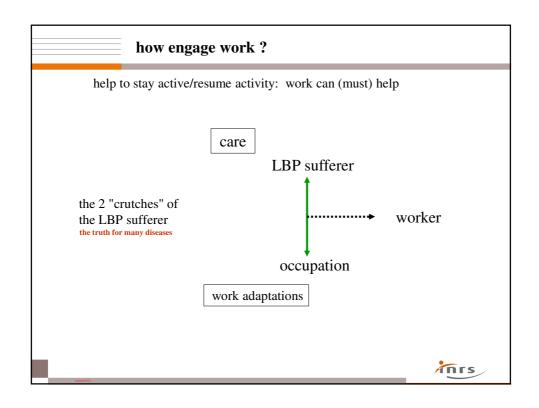


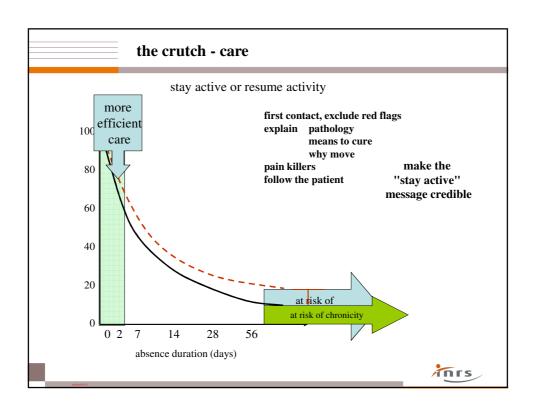


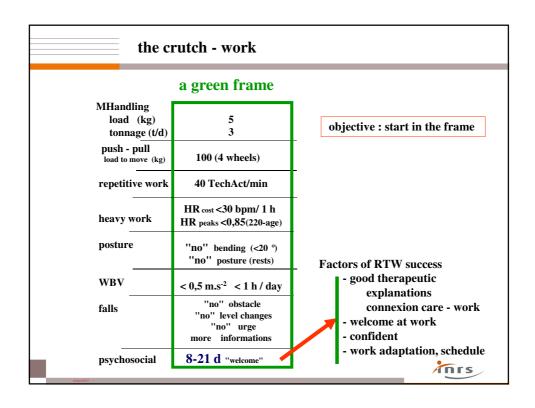


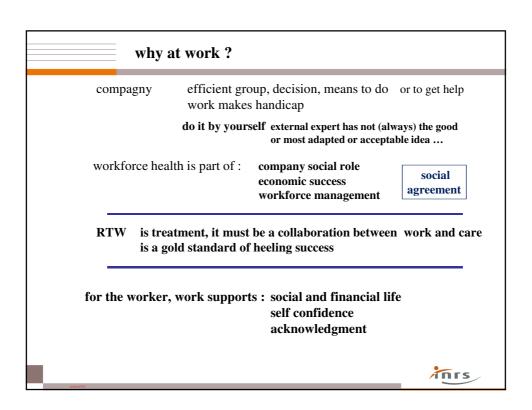


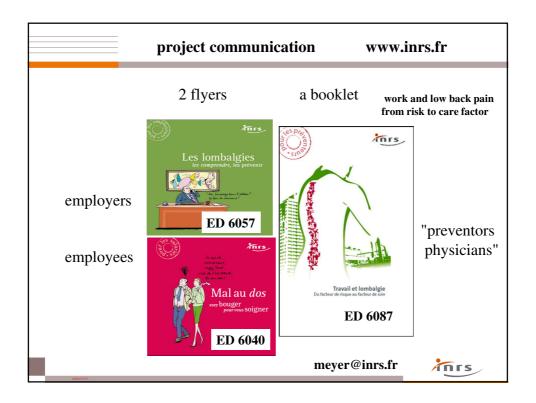












conclusion

Work for all. for those with back pain as well.

alf nachemson (clin orthop relat res, 1983, 179, 77-85)

- disc hernia can be a severe clinical form its far to be the only one becoming severe
- efficient prevention needs improvement of working conditions scientific knowledge and standards makes this easier
- -the «green frame» is an experimental process proposed to guide compagnies to built a socialy accepted early RTW possibility to help care & rehabilitation for their workers with severe LBP

with good communication, it's not expensive it's just better care

and better prevention through work adaptation for all

