Pain and Prejudice



What Science Can Learn about Work from the People Who Do It

KAREN MESSING



Why did I write it?



- Trying to make sense of my 35 years of research in OSH
- Exploring my own malaise as a highly-paid worker studying lower-paid workers and what that means for my own understanding of occupational health







What is the book about?

- > Part 1. Studies of workers
 - Chapter 1. Factory workers
 - Chapter 2. Invisible cleaners



- Chapter 3. Standing still (service workers)
- Chapter 4. Brains of low-paid workers
- Chapter 5. Teamwork
- Chapter 6. Home invasion
- Chapter 7. Teachers



What is the book about?

- > Part 2. Science and workers
 - (Chapter 8. Becoming a scientist)
 - Chapter 9. Pain and prejudice
 - Chapter 10. A statistician's toes
 - Chapter 11. Where I try to give a happy ending to an unhappy story, at the request of the publisher - about partnership research







The message of the book



- ▶ It is hard for people who are not low-paid workers to see, hear or understand what their work is like or what effects it has
- Scientists are not low-paid workers
- For scientists to understand occupational health, it helps if there is a context that forces us to observe, listen and understand
- Partnership research can provide that context



Partnership



- > 1976 : University of Québec (Montréal) and the 3 major trade union confederations agree on research and training collaboration
- ▶ 1993 : Agreement between CINBIOSE research center and the unions on research on women's occupational health



Chapter 1. Genetics and a factory, 1978

- Workers learn they are exposed to radioactive slag
- Scientists want nothing to do with the problem
- But UQAM has an agreement with the CSN union....





Results



- I am a fungal geneticist but try to help
- We find some indications of gene damage
- The company installs new ventilation on the condition the union withdraw from the study.
- The company closes its doors in 1992; workers will never know whether their children's health was affected

...Chapter 3. Prolonged standing

- Nicole Vézina is asked to study Cashiers: Can they work sitting?
- > They sit in almost all other countries
- > She wins her case in 1989, but the workers are still standing







Results (science)

- Despite many studies, science still worries primarily about prolonged sitting
- ➤ In North America, 45% of workers work standing more than three-quarters of the time; only 13% of them can sit at will



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Reducing Sitting Time: The New Workplace Health Priority

Ronald Plotnikoff ^a & Nandini Karunamuni ^b

a University of Newcastle, Callaghan, New South Wales, Australia

^b University of Alberta, Edmonton, Canada

Technical issues

➤ 1. Studies of sitting often compare it with "standing" without examining the standing posture more closely

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What is standing?

- > Walking
- Static standing
- Leaning
- Crouching
- > Stretching
- > Carrying
- > Bending...











2. Adjusting for gender

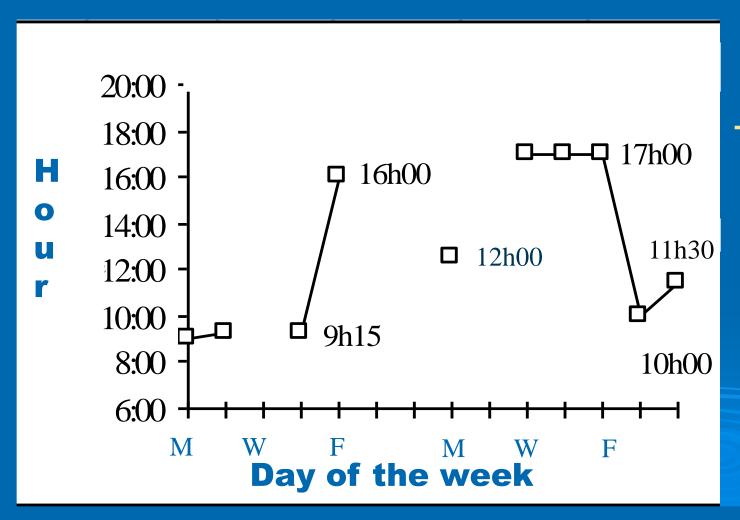
- Women who stand are more likely to be static; men move around more at work
- Adjusting for gender without measuring static standing (very hard to do) can mean underestimating the effects of static standing
- Mixing standing and walking can make standing look better

Constraint

- 3. The notion of constraint can be important, since workers who are free to vary their working posture can protect themselves
- Many studies don't distinguish between constrained and unconstrained standing (or occupational and nonoccupational postures), which can also underestimate effects of constrained static standing

... Chapter 6. Home invasion

Schedule of a telephone operator with 15 years' seniority, mother of children under 13



Hours posted Thursday



...Chapter 6. Home Invasion

- Service-sector schedules are increasingly generated by computers in 15-min segments, closely related to sales data
- > The resulting schedules are highly variable, extended, unpredictable
- Telephone operators, retail sales staff, industrial cleaners(FTQ) ask us for studies

Results

- Some full time regular jobs were created
- Employer said our study didn't have the "wow" factor and did not go on
- Worker says: I need to work more hours (for the family income) but I can't work more hours (because of family needs)
- Scientist says: She should get another job
- Most work-family studies are on highlypaid workers



...Chapter 8 CINBIOSE research center

- Donna Mergler and I founded CINBIOSE in 1985-90 to do research on prevention in partnership with unions
- 80s and 90s: Several funding avenues opened up for community partnership
- We get lots of money from 5 federal and provincial partnership programs
- > These programs have all ended

Chapter 9. Pain and prejudice

- Workers report pain
- Some scientists believe them. Michel Vézina, Lippel, Stock et al. develop EQCOTESST to measure pain, show under-reporting
- > Other scientists develop a theory of

catastrophizing

Photo Marie-Ève Major and Nicole Vézina



Results

➤ The EQCOTESST study, despite peer review at many levels, was denounced by employer groups as unscientific and is downplayed by its funder Studies of catastrophizing receive a lot of scientific interest, no public criticism



EQCOTESST is defended by the CSN and CSQ unions



Chapter 10. A statistician's toes



- Workers associate their pain with their work
- Scientists require certainty at 0.05 and sometimes 0.01, based on Fisher's toes
- > I realize the injustice of this in Peru in 2012, during a bike trip

- ➤ These women and their compatriots paid for Pierre's shots because he had about 1 chance in 1000 of dying from rabies
- > Canadian workers must have a much greater probability of damage (α < 0.05) before their work-related problems will be recognized and compensated



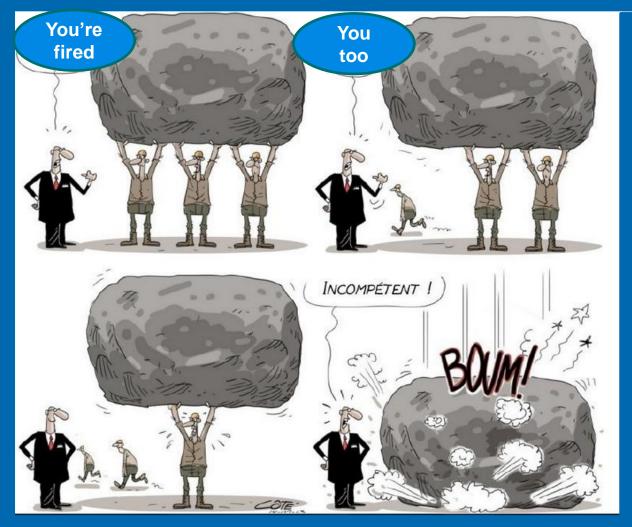




Chapter 11. Partnership

- Supportive structures have been critical to maintaining our relationships with workers and enabling us to listen
- This has been good for our science: new questions, critical eyes
- Union women's committees, health and safety committees and community groups have also found our work helpful and have supported us

But austerity is affecting occupational health and research



Credit André-Philippe Côté

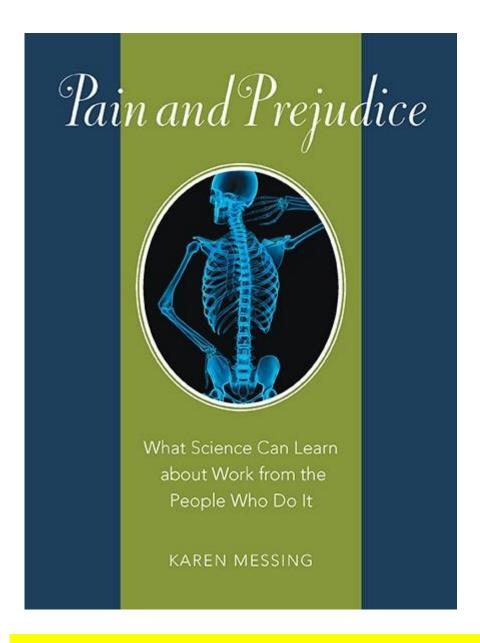
- ➤ With many other progressive scientists, we have sometimes been successful in helping workers, in changing laws and practices, in helping science evolve
- > Can this continue?











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http://btlbooks.com/book/pain-and-prejudice