Question 1

The ROPS question
The “ROPS question”

Effectiveness of Roll-Over Protective Structures in Reducing Farm Tractor Fatalities

Stephen J. Reynolds, PhD, CIH, William Groves, PhD, CIH, CSP

Evidence from Sweden and other Northern European countries clearly demonstrates that ROPS can essentially eliminate roll-over fatalities.

Fatalities in Sweden and West Germany have dropped to essentially zero, almost 25 times lower than the U.S. fatality rate.

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Fatalities in Sweden and West Germany have dropped to essentially zero, almost 25 times lower than the U.S. fatality rate."
Effectiveness of interventions in preventing injuries in agriculture—a systematic review and meta-analysis

by Marika M Lehtola, MSc, Risto H Rautiainen, PhD, Lesley M Day, PhD, Eva Schonstein, PhD, Juha Suutarinen, PhD, Simo Salminen, PhD, Jos H Verbeek, PhD

Legislation requiring rollover protective structures on all tractors in Sweden did not produce a reduction in injuries, but the same requirement for new tractors was associated with a decrease in fatal injuries.

Conclusions The reviewed studies provided no evidence that educational interventions are effective in decreasing injury rates among agricultural workers. Financial incentives may be a better means of reducing injury rates. Banning highly toxic pesticides may be effective. Legislation on safety devices on tractors yielded contradictory results.

Health Evidence grading = 9 almost perfect
Legislation requiring rollover protective structures on all tractors in Sweden did not produce a reduction in injuries, but the same requirement for new tractors was associated with a decrease in fatal injuries.

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Health Evidence grading = 9 almost perfect
What is the right answer?

• Can we wait for the results of a future trial to solve the question?
• Is promotion of a trial on this issue, ethical at this moment?
• Could we rely on less informative (observational) studies to take decisions (policies) in favour of H&S of workers, and, more generally, of Public Health (a special case of Precautionary Principle)?
Quesito 2

The BBS puzzle
Il "nuovo" D.Lgs. 81/08 impone ai professionisti della sicurezza un deciso salto di qualità nella gestione del fattore umano: si pensi, per esempio, ai nuovi requisiti sulla valutazione dei rischi, la formazione, l'addestramento, la consultazione e la partecipazione dei lavoratori. In questo quadro la behavior-based safety (BBS) si è ormai consolidata come un insieme di tecniche affidabile ed efficace per la riduzione degli infortuni, garantendo la partecipazione ed il coinvolgimento delle persone, ma anche altre tecniche si presentano sulla scena e promettono significativi miglioramenti della sicurezza facendo leva sul "fattore umano".

Il seminario intende fare il punto della situazione sulle applicazioni più recenti e le novità del settore. Per la prima volta in Italia sarà presente Don Wilson, consulente leader nel settore ed esperto della metodologia di formazione SAFESTART®.
In questo quadro la behavior-based safety (BBS) si è ormai consolidata come un insieme di tecniche affidabile ed efficace per la riduzione degli infortuni …

In this context the BBS is by now a well-established group of reliable techniques, effective in lessening the number of work-injuries …
Positive and optimist reviews on BBS in 2000 and very recently 2007

Behavioral Safety Research in Manufacturing Settings: A Review of the Literature

Angelica C. Grindle
Alyce M. Dickinson
William Boetcher

ABSTRACT: Occupational safety continues to have large humanitari-
and economic repercussions. This is particularly true in the manufac-
turing industry which has had the highest injury and illness rates for the
past three years. Historically, attention was focused on determining the
factors that correlated with safety. However, such approaches have

Grey Literature 2007

CRITICAL REVIEW AND DISCUSSION


Behavioral Safety Approaches:
Which are the most effective?

Dominic Cooper PhD, CFIOSH C.Psychol
CEO
BSMS Inc, Franklin, Indiana,
46131, USA

Contrary to popular wisdom, behavioural safety focuses on the interaction between
people and their working environment, not just employee’s behaviour. Designed to
dictate people’s daily work-related
behaviour: an important feature of the

the official journal of the OBM Network,
a Special Interest Group of the
Association for Behavior Analysis 2000

Grey Literature 2007
Effectiveness of behaviour based safety interventions to reduce accidents and injuries in workplaces: critical appraisal and meta-analysis

SETENAY TUNCEL†, HARSHAD LOTLIKAR‡, SAM SALEM*‡ and NANCY DARAISEH†

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(Received 15 December 2004; in final form 20 February 2005)

Conclusions: A statistically significant reduction in injuries/accidents was observed after conducting a BBS intervention in a workplace. However, this statistical significance should be interpreted with caution, due to the poor to marginal methodological quality of studies included in the meta-analysis. Reliable results require interventions with high methodological quality based on the specific needs of the workplace.

Punteggio di Health Evidence = 8 (qualità elevata)
Setenay Tuncel-Kara, M.S., is a doctoral candidate in industrial engineering at the University of Cincinnati. She worked in Procter and Gamble and DuPont before pursuing doctoral study. Her current research interest is in the area of occupational health and safety engineering and she is a member of the American Society of Safety Engineers. She is also a corresponding member of **NORA Manufacturing Sector Council - NIOSH**

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We need a grading to put in the right orders these informations !!

- Study design of primary studies
- Conflict of interests (!!)
- Correctness of review (grading of review itself !)

A set of rules is compulsory