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NIOSH "Total Worker Health™"

- Implement and compare multiple strategies or models for integrating two core public health areas: occupational health/safety (OHS) and health promotion (HP)
- Evaluate opportunities for, and obstacles to, these integration efforts
- Evaluate whether this strategy provides enhanced health benefits and/or greater cost-effectiveness



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What does "integration" mean?

- No consensus (yet) on a single definition
- Levels: individual, institutional
- Equal weight to preventing OSH hazards and to supporting healthy behaviors
- © Concept of the "salutogenic" organization [Henning & Reeves, 2013]



Selected Indicators & Metrics

[Adapted from: Sorensen et al., 2013]

- Comprehensive program content
- Coordination between OSH and WHP
 - Policies about work env't/organization and education & programs for individual workers
- Supportive policies and practices
 - Accountability for coordination, collaboration
 - Joint worker-management committees
 - Workers actively engaged in planning and implementation



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Obstacles to integration?

- Disciplinary knowledge, emphases of practitioners (& researchers)
- © Organizational responsibilities, internal incentives [Cherniack et al. 2010]
- Different external requirements & incentives
- © Different intermediate measures of success
 - WHP: primarily individual behaviors
 - OSH: primarily workplace exposures to hazards



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Why Integration?

- Traditional HP targets: Individuals' exercise, diet, smoking, obesity, etc.
 - These affect risk of cardiovascular disease, diabetes, mental health problems, perhaps musculoskeletal disorders, other chronic disease
- Traditional OHS ("health protection") targets: Workplace hazards that cause injury or illness
 - Broader range of possible health outcomes; many are very specific to exposures (sector)



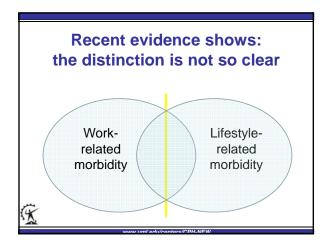
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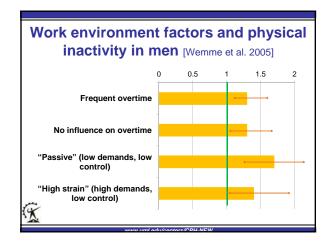
Putative bright line between health problems that are and are not caused by work Workrelated morbidity Lifestylerelated morbidity

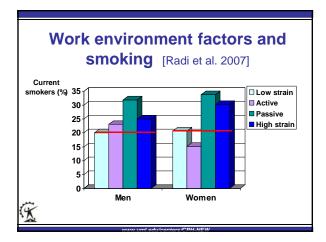
Why Integration? (2)

Health behaviors ("personal" or "lifestyle" risk factors) are also affected by decision latitude & other psychosocial features in the work environment

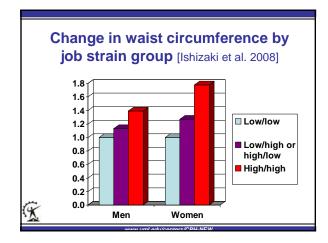


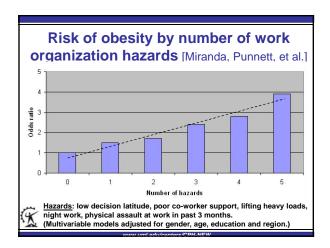


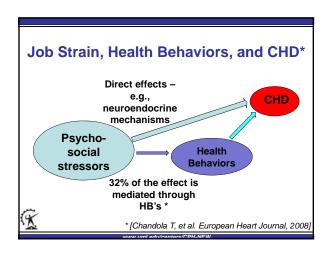




	Work environment factors and smoking [Albertsen et al. 2006]
	 Review of 22 prospective studies, evaluated on methodologic features High job demands: + cigs/day; + cessation; + relapse Resources at work (including job control):
	- cigs/day; + cessation; - relapse
	Social support:cigs/day; + cessation; - relapse
Α	- Cigs/day, + Cessation, - Telapse







Obesity/overweight and the role of working conditions [Champagne et al.]

- Physically demanding work, too fatigued to exercise or prepare healthy meals
- Meal breaks unpredictable and/or too short (eat fast or get fired)
- Harassment by supervisor or co-worker: depression
- Over-eating due to stress
- Back pain related to job demands interfered with exercise



Workload and Schedules

Physically demanding job:

- "I don't have the desire to do exercise after standing for 15-16 hours. I just want to eat and sleep. The next day is the same thing all over again."
- "You come home and you are so tired that you either don't want to eat, or you want to eat a lot."
- Meal breaks:



- "At 10:00 a.m., they give me a 15-minute break. I don't have time to eat healthy food, even if I bring homemade food."

Psychosocial Stressors at Work

High demands

- "The work that three people used to do is given to one person. That creates more stress and eating more..."

- "Working in factories, you have to eat fast or you get fired."

Low social support

- "A lot of harassment...it was really stressful so the depression really set in."



Why Integration? (3)

- Socioeconomic disparities in health
 - Low-status, low-wage workers have higher exposures at work AND more adverse "personal" risk factors



Socioeconomic health disparities

100%
80%
80%
—Decision-making
—Physical demands
demands

20%
0%
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SES

SES

Implications for health disparities

- Workplace health promotion programs often have uneven scope
 - Lower participation and effectiveness among lower-SES employees
- Are the factors that affect low-SES employees fully taken into account?
 - Few decision-making opportunities, physically strenuous jobs, etc.



Stressful working conditions follow from design decisions in the workplace and therefore are preventable



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Work Organization

- ".... the combination of the way in which work processes are designed and arranged, as well as the broader organizational practices that influence job design" (*)
- determines:
- physical loading patterns
- "psychosocial" stressors: job demands, decision latitude, social support, job insecurity



[* NIOSH, The Changing Organization of Work and the Safety and Health of Working People, 2002]

Working conditions link to health outcomes directly, and through health behaviors Physical **Employee** working Organization: Health conditions Technology Status • Structure Work org. & Culture psychosocial e.g., MSDs, CHD/CVD, Health conditions Behaviors mental health

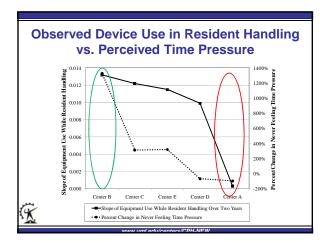


<u>OSH</u> needs to address workplace organization

- Identify potential obstacles to health protection measures, and how those can be addressed
- Increase employee decision-making opportunities ("job control")
- Empower participation and creativity in problemsolving ("health self-efficacy")
- Enhance interpersonal relationships at work for successful teamwork, communication, etc.



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Similarly, <u>WHP</u> needs to address workplace organization

- Increase employee autonomy and decisionmaking ("job control," health self-efficacy)
- Encourage participation and creativity in problem-solving
- Engage employees to structure healthier work schedules
- © Enhance interpersonal relationships at work
- Promote consistent and constructive feedback, teamwork, fair recognition, and rewards

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What is Health Promotion?

Fostering positive decision-making about health

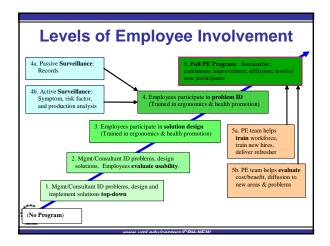
- Traditional focus on the individual's behavior
 - Stop smoking, healthier diet, cope with stress
- - Environmental conditions that foster healthy behaviors



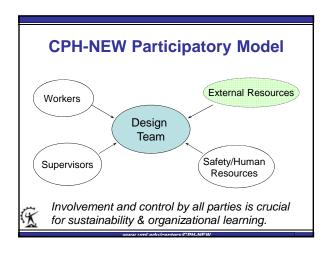
 Positive human relations at work that foster decision-making and self-efficacy

Framing HP in terms of healthy decision-making implies that a program's process is as important as its content.









CPH-NEW Implementation Process

- g greatly informed by participatory ergonomics
- Evaluation of workplace "readiness for change"
- Multi-stage needs assessment
 - Manager interviews, employee surveys and focus groups
- © Design teams: workers, supervisors



CPH-NEW Research-to-Practice Toolkit: Participatory intervention methods

Seeks to address 3 needs:



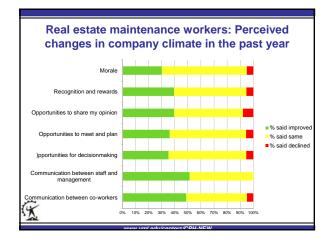
- More effective integration of OSH with WHP
- Employee participation in decisionmaking; program ownership
- -Enhanced program sustainability



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"Research to Practice" (R2P) Toolkit

- Developed, field tested, and refined for use by practitioners
- Field tests at four workplaces:
 - Small & large; Public & private sector
 - Self-selected / recruited from participants in "Working on Wellness," Mass. Dept. of Public Health
- New trials underway (Healthy Workplace Facilitator training webinars)



Health Improvement through Employee Control (HITEC)

Compare 2 health promotion/workplace intervention programs, differing in process:

- Best practices, "top-down" (control site)
- Experimental program featuring employee control, through participatory design teams

Two sites comparable in size, staffing, security level, physical plant, 'readiness to change.'

Notably higher employee buy-in & participation.



CPH-NEW R2P Toolkit promotes Total Worker Health™

- · Integrates health promotion initiatives with attention to the work environment.
- · Engages employees in setting priorities and developing solutions
- Improves organizational communication & collaboration about H&S.
- Workers learn how to develop a contextual business case for H&S interventions.
- Establishes a sustainable process for continuous health/safety improvement.



Challenges of evaluating "integration"

- Process evaluation:
 - [Metrics proposed by Sorensen et al.]
 - Were OHS and WHP topics both addressed?
 - with equal attention and emphasis?
- - Did work-attributed health outcomes improve?
 - Did non-work-attributed outcomes improve?
- Return on Investment (ROI):



- Long-term chronic disease prevention is difficult to monetize [Cherniack 2013]

Center for the Promotion of Health in the New England Workplace (CPH-NEW)

Our approach to integration addresses:

- The (under-appreciated) relationship of individuals' health behaviors to their working conditions
- Attention to how a program is carried out, not only what health needs it addresses
- Mow to use existing knowledge/skills to



engage employees in participatory problemsolving

