Work Related Musculoskeletal Disorders - WMSD

COLOMBIAN EXPERIENCE IN THE PREVENTION OF MUSCLE-SKELETAL DISORDERS (MSD)

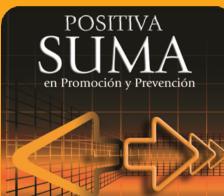


Dr. Alvaro Hernán Vélez Millán



STRATEGIC INITIATIVE

Design and implementation of protocols for intervening in the prevention of occupational diseases-Muskle-Skeletal Disorders"



Management Model in Promotion and Prevention







OBJECTIVES OF THE INITIATIVE



General objective

To design and implement intervention protocols by economic sector and firm size in order to control the events associated with the development of Muskle-Skeletal Disorders, such as backaches and other upper MSD, considering a comprehensive diagnosis of work situations with the highest morbility.

Specific objectives



• To develop a model for evaluating the events associated with the development of Muskle-Skeletal Diseases, for the economic sectors with the highest morbility.

• To develop prevention and control strategies in order to counteract the events associated with the development of Muskle-Skeletal Diseases by economic sector and firm size.

•Training and certification in the use and application of protocols, for the group related with implementation and monitoring.

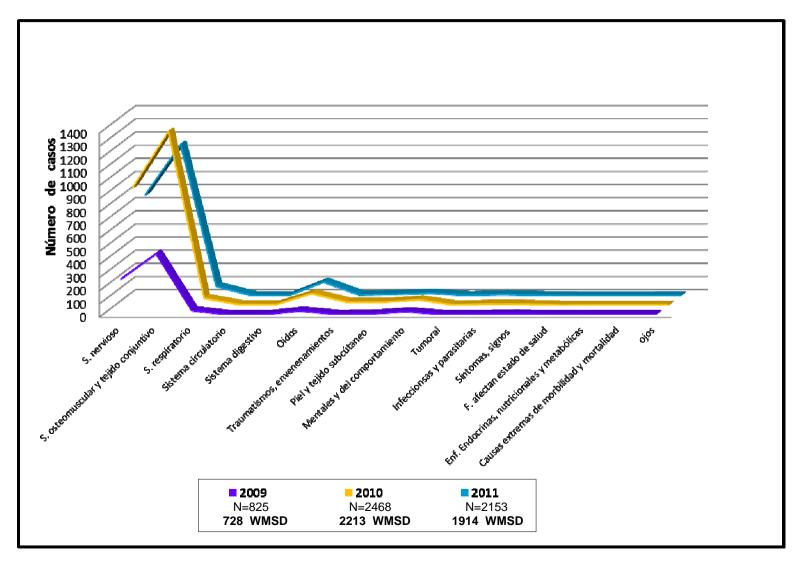
• To validate and implement the aforementioned protocols in firms.



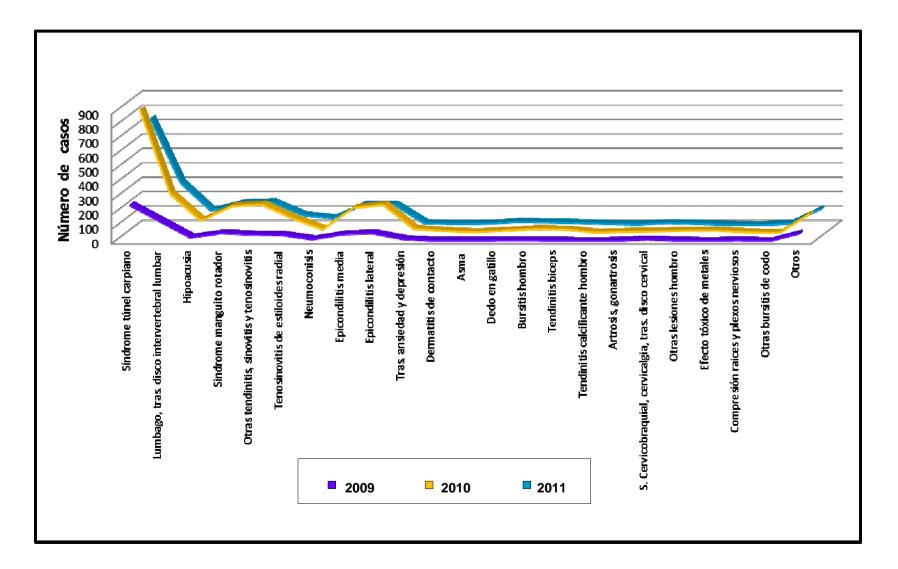
CONTEXT OF THE MSD PROBLEMATIC IN AFFILIATED FIRMS



EP Qualified by Diagnosis Group CIE-10. - 2009 to 2011



EP qualified by CIE 10. Positiva Compañía de Seguros/ARP - 2009 to 2011



POSITIVA COMPARIA DE SECURIOS



Costs projection of *EP* for affiliated workers to the General System of Professional Risks in Colombia



Every year 20.457 professional diseases would be expected, with support costs of 13 billion pesos and economic benefits for more than 66 billion pesos.

Based on information of the International Labor Organization (ILO), it is estimated that 40% of the costs generated by professional illnesses are due to MSD^[1].

^[1] ORGANIZACIÓN INTERNACIONAL DEL TRABAJO. Salud Ocupacional éticamente correcta, económicamente adecuada, Citado por TAFUR S., Francisco Informe de enfermedad profesional en Colombia 2001-2002, una oportunidad para la prevención. Bogotá: Ministerio de la Protección Social, 2004. p. 65.

METHODOLOGY

The Risk Research and Control Management Office projected the intervention design and implementation Protocols for the prevention of MSD for 14 economic sectors.

Project contextualized in the framework of long lasting prevention.





Long Lasting Prevention of MSD

o Global approximation of the problem

 Combinations of analysis fields and short, medium and long-term actions (transformations of great importance)

 Integration of social and economic problems



Sample



Sample by convenience (386 firms)

Inclusion criteria:

• To present MSD cases qualified as professional, an aspect that showed the exposure to occupational events related to the problematic.

• Firms located in the Branches with the highest MSD morbility of the country.

o To be part to the economic sectors under study.

• To be a large, medium or a small firm.





Economic sectors that are included

- 1. Manufacture industries
- 2. Public management and military/defense enterprise; mandatory social security institution
- 3. Real estate, entrepreneur and rental activities
- 4. Agriculture, livestock, hunting and forestry
- 5. Social and health services
- 6. Commerce and retail
- 7. Education
- 8. Other activities of community services, other social and personal activities
- 9. Transportation, storage and communications
- 10. Electricity, gas and water supply
- 11. Exploitation of mines and quarries
- 12. Construction
- 13. Hotels and restaurants
- 14. Financial sector

Selected prevention method

An active and comprehensive global approximation, which estimate the events associated with the development of MSD, taking into account scientific evidence.

The method is characterized by integrating different actors of the organization in the activities which are part of the Consulting and Support Technique that is offered by a team of competent professionals.



Cooperation dynamic approach



In order to guarantee a long lasting prevention, it is unavoidable to develop a long-term plan, in which a diversity of internal and external actors related with health and safety at work management should be taken into account.

Construcción social de la prevención Construcción social de la prevención



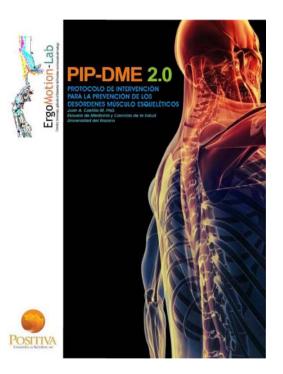
Understanding of MSD problematic



Insofar as the complexity of MSD and the disorders it causes in the productive system and working population are understood, an organization will be able to construct a customized/ad-hoc plan adapted to each particular situation, to guarantee the impact in a comprehensive spectrum of components.

ACHIVEMENTS

- Intervention protocols for the prevention of MSD according to the characteristics and necessities of the affiliated firms.
- Intervention strategies by economic sector and firm size.
- Information handbooks for the evaluation of health and work conditions.
- Information handbooks for the systematization and statistical and epidemiological analysis of the problem.
- Impact is becoming evident in some firms that are included, taking into account the in advance shared management for the prevention of these kind of pathologies.
- Resources reinforcement for the MSD prevention competences.





POSITIVA COMPAÑIA DE SECLIROS

FASE 1 - 2010

Protocols for 7 economic sectors:

Real estate activities Public management Manufacture industries Agriculture, livestock Other service sectors Education Transportation and communications

Protocol implementation in 108 firms (consultancy and technical assistance)

(135 firms are invited to participate)

FASE 2 - 2011

Protocols for 4 economic

sectors:

Social and health services Hotels and restaurants Commerce/Trade Electricity, gas and water supply

Protocols validation

Protocols for small enterprises– 7 economic sectors Protocol for medium and large firms mining in the fresh air

Protocols implementation in 137 firms

(More than 203 firms are invited to participate)

FASE 3 - 2012

Protocols for 3 economic sectors:

Mining Financial sector Construction

Protocols validation

Protocols implementation

Projection: Inclusion of 138 firms

Socialization with the industrial community and the academic world

Follow-up

Main team

Positiva Compañía de Seguros/ARP Vicepresidencia de Promoción y Prevención Gerencia de Investigación y Control del Riesgo Gloria MORGAN T. Nohora I. VALBUENA A. Leidy A. DIMATÉ R.

Colegio Mayor de Nuestra Señora del Rosario Laboratorio de Ergonomía y Análisis del Movimiento Grupo de Investigación Salud, Cognición y Trabajo Juan A. CASTILLO M. – Scientific Coordinator/Coordinador Científico María C. TRILLOS CH.- Researcher

Universidad Nacional de Colombia Laboratorio de Ergonomía y Factores Humanos Grupo de Investigación Micro y Macro Ergonomía en Productos y Procesos Jairo E. LUNA G.- Technical Coordinator/Coordinador Técnico

Manuel R. RUIZ O.-Researcher

jthank you!

