Health Services Transformation and Innovations Supporting the Current Chemical Agent Demilitarization Facility



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Transformation of Health Care and Services



- Johnston Atoll Chemical Agent Disposal System
 - Emergency Medical Care
 - Urgent Care
 - Occupational Medical Surveillance
- Toole, Anniston, Umatilla Chemical Agent Disposal Facility
 - Toxic Chemical Training Course
 - Medical Planning (Most Probable Event and Maximal Credible Event)
 - Chemical Agent Exposure Algorithm and Laboratory Confirmation
 - Robust Monitoring Data and Clinical Findings
- Pueblo Chemical Agent-Destruction Pilot Plant and Blue Grass Chemical Agent-Destruction Pilot Plant
 - Medical Quality Assurance Program
 - Health Services aligned with National Standards
 - Employee Center Medical Home



Health Outcomes Impacting Chemical Agent Workforce



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According to the U.S. Department of Health & Human Services

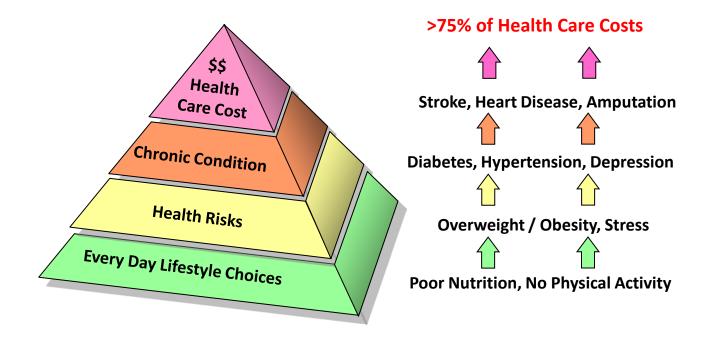
>75%

of all health care dollars are spent on chronic conditions, most of which are preventable.



Health Care Cost Pyramid

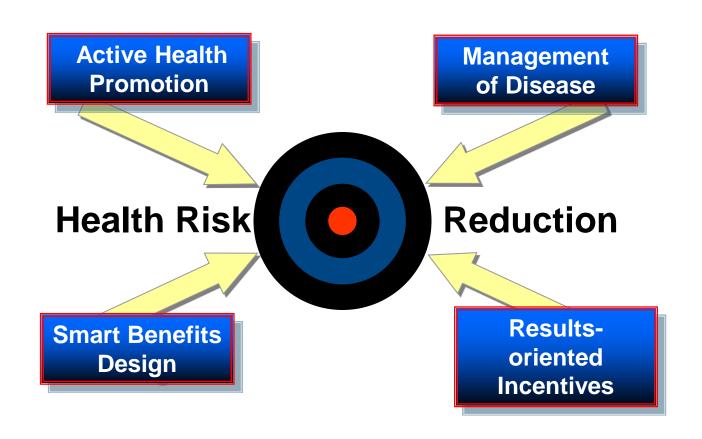






Strategic Health Care Management Approach







Model for Wellness and Prevention



- Primary Prevention Lifestyle Management
 - Healthy Eating
 - Regular Physical Activity
 - No smoking
 - Prevention Test/Exam
- Secondary Prevention Early detection
 - Routine Health Screenings
 - Risk Reduction Education
 - Smoking Cessation
 - Health Awareness
- Tertiary Prevention- Care Management
 - Manage Chronic Medical Conditions
 - Personal Care Plan
 - Treatment Plan Adherence
 - Care Coordination



Program Executive Office Assembled Chemical Weapons Alternatives Wellness and Prevention Initiatives



- Primary Prevention Lifestyle Management
 - Ergonomic Program
 - Health and Wellness Contract
 - Wellness Newsletter
 - Flu vaccination
- Secondary Prevention- Early detection
 - Routine Health Screenings (BP, Glucose, Mental Health)
 - Biometrics Center
 - Smoking Cessation
- Tertiary Prevention- Care Management
 - Manage Chronic Medical Conditions
 - Personal Care Plan
 - Treatment Plan Adherence
 - Care Coordination



Total Impact of Improved Employee Health



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Decrease in . .

- Health Care Costs
- Disability Costs
- Absenteeism
- Worksite Injuries
- Presenteeism
- Overtime / Temporary Staffing
- Turnover
- Workers' Comp Costs
- Medications / Rx Costs

Increase in . . .

- Productivity(1.9% for each eliminated health risk)
- Employee Satisfaction
- Employee Outlook & Motivation
- Product Quality
- Mental Focus / Alertness (Situational Awareness)
- Creativity
- Employee Health



Health Technology and Smart Phones





- Sleep Data
- Food/Fluid Intake Data
- Activity Data
- Blood Pressure Data
- Glucose Data
- Risk Profile Determination
- Heat Injury Risk
- Health Outcome Risk



Health & Productivity Studies



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"High-risk participants had 3 times higher odds of filing a Worker Compensation claim, when compared with low-risk participants"

Employee Health and Frequency of Workers' Compensation and Disability Claims Kuhnen, Ann E.; Burch, Steven P.; Shenolikar, Rahul A.; Joy, Karen A. Journal of Occupational & Environmental Medicine. 51(9):1041-1048. September 2009.

"A strong association exists between the number of health risks and productivity loss ranging from 3.4% for those at lowest risk to 24.0% loss for those at risk for eight risks."

Use of a Normal Impairment Factor in Quantifying Avoidable Productivity Loss Because of Poor Health

Riedel, John E.; Grossmeier, Jessica; Haglund-Howieson, Laura; Buraglio, Cherie; Anderson, David R.; Terry, Paul E. Journal of Occupational & Environmental Medicine. 51(3):283-295, March 2009.





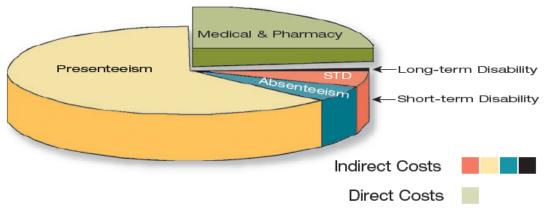


Indirect Productivity-Related Costs of Poor Health



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Relative Contribution of Direct and Indirect Costs Within a Large Financial Services Corporation



Source: Edington DW, Burton WN. Health and productivity. In: McCunney, RJ: A Practical Approach to Occupational and Environmental Medicine. Philadelphia: Lippincott Williams & Wilkins. Third edition. 2003:140-152.³⁶



Questions?



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