



Trends in Healthcare Sustainability

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Innovators Roundtable

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Not-for-profit membership organization committed to educate, motivate, and engage healthcare professionals to adopt best environmental practices that increase operational efficiency and support an environmentally sustainable system that improves the health of patients, staff and the community.

Practicegreenhealth.org



Key Drivers for Green Chemistry in Healthcare

Mission-Driven Industry

- 1996: Medical waste incinerators identified as top sources of mercury and dioxin in the environment.



REDUCING ENVIRONMENTAL CANCER RISK

What We Can Do Now



Patients

Caused by Environmental Factors:

- 30% of Childhood Asthma*
- 10% of Children's Neurobehavioral Disorders***
- 10% of Diabetes, Parkinson's Disease and Neuro-developmental Disabilities****
- 5% of Childhood Cancer***

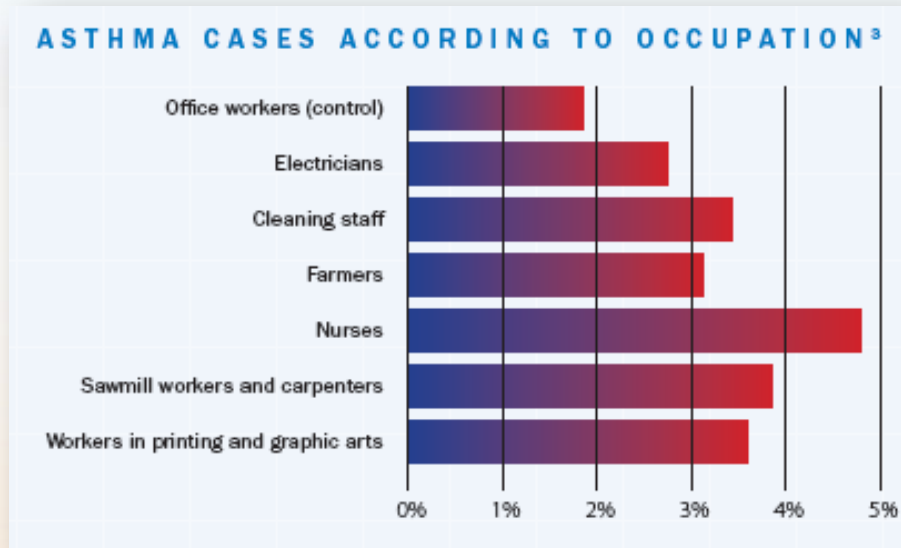
* European Commission

** National Research Council

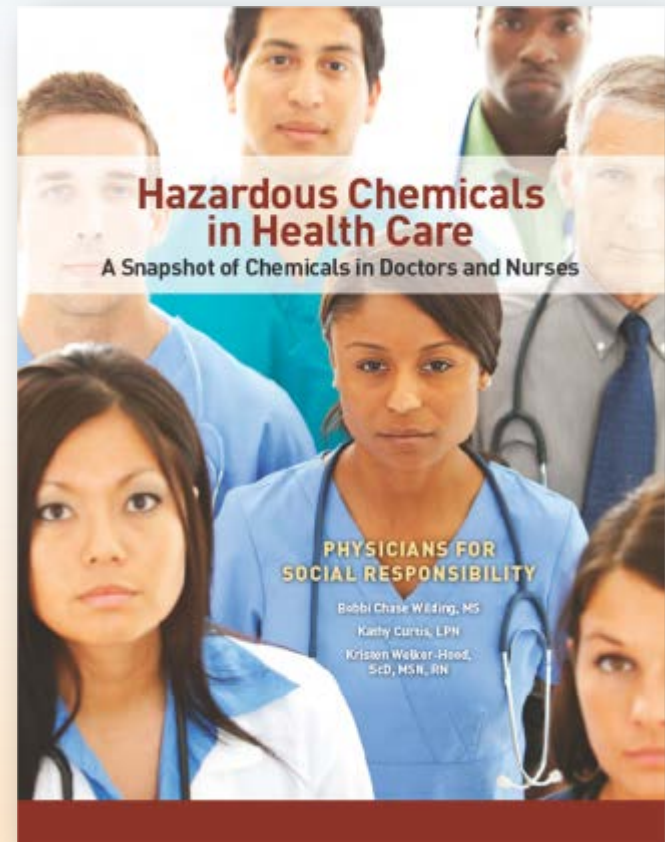
*** Mt. Sinai School of Medicine Center for Children's Health and the Environment

**** Environment Canada

Staff



The Lancet, July 2007





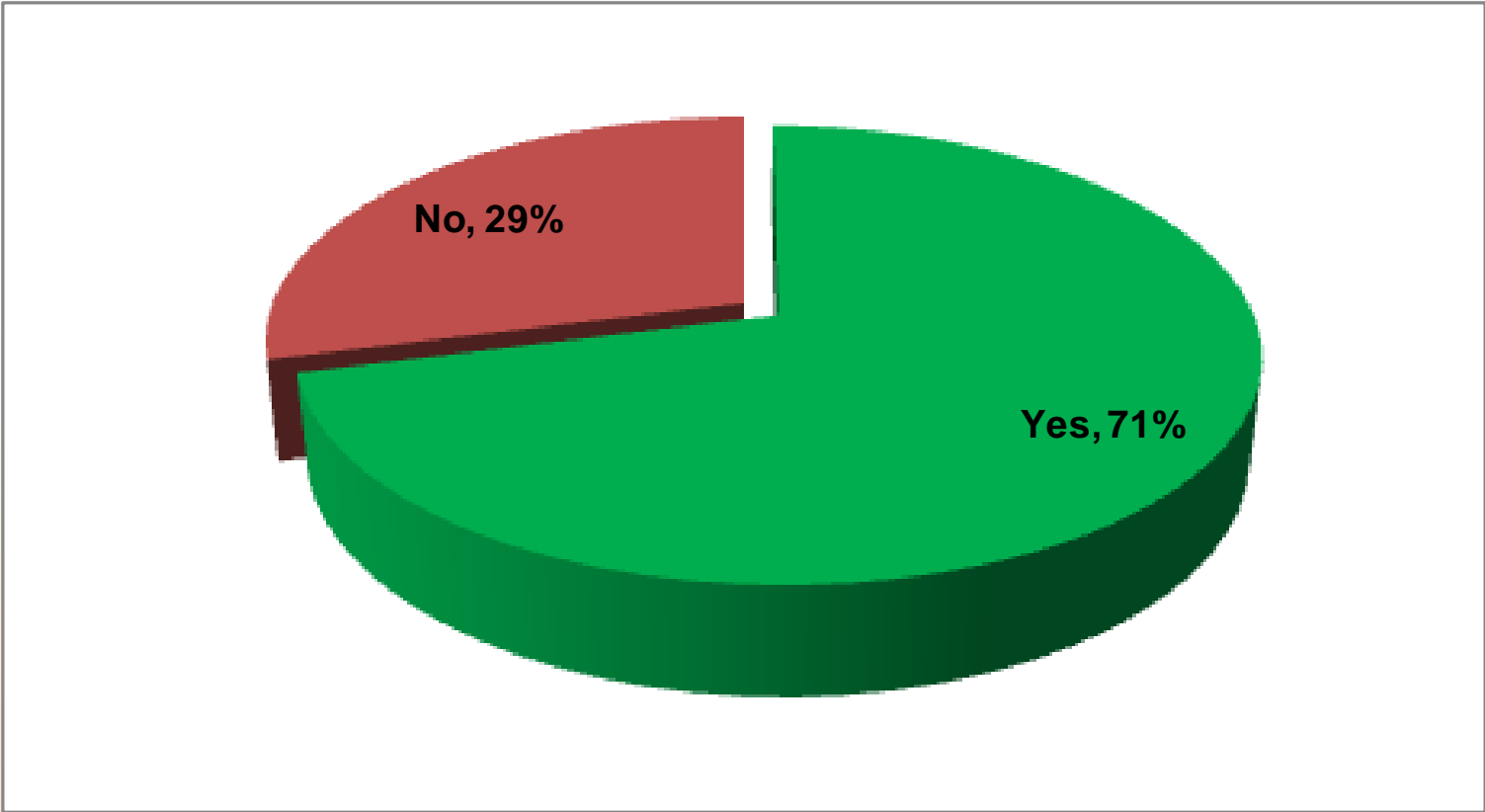
Role of Healthcare in Promoting Green Chemistry

Health Care Marketplace

- 17% GDP (20% by 2015)
- 4.1 million employees
- Estimated \$200 billion in purchasing annually



71% Have Made Changes in Procurement Process to Increase Purchase of More Sustainable Products



Specific Chemicals

- 88% have a program to reduce Mercury
- 37% have a program to reduce Polyvinyl Chloride Plastic (PVC) and DEHP
- 19% have a program to reduce Brominated Flame Retardants

Group Purchasing Organizations

- 90-95% of hospitals use GPOs
- GPOs - \$135 billion annual contracting volume (estimate)
- 80-85% of all healthcare procurement (estimate)





**Greening the
Supply Chain™**



EPP Business Leadership Coalition



EPP Specifications and Resources Guide



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EPP Specifications and Resources Guide

Wondering what environmental issues or questions you should ask a supplier about a specific product? We make it easy for you. Click on the product areas below for:

- Specifications, RFP Language or Product Specific Environmental Questions.
- Short explanation of environmental issues relevant to that product.
- Referrals to product lists or environmental product certifications.

Topics

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→ [Waste](#)

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Goals of Standardized EPP Questions for Medical Products



- Simplify the RFI/RFP burden on suppliers
- Obtain more accurate responses
- Improve the availability of cost-effective and environmentally preferable products and services
- Engage suppliers

www.practicegreenhealth.org/gsc



Standardized Environmental Questions for Medical Products (Version 1.0)

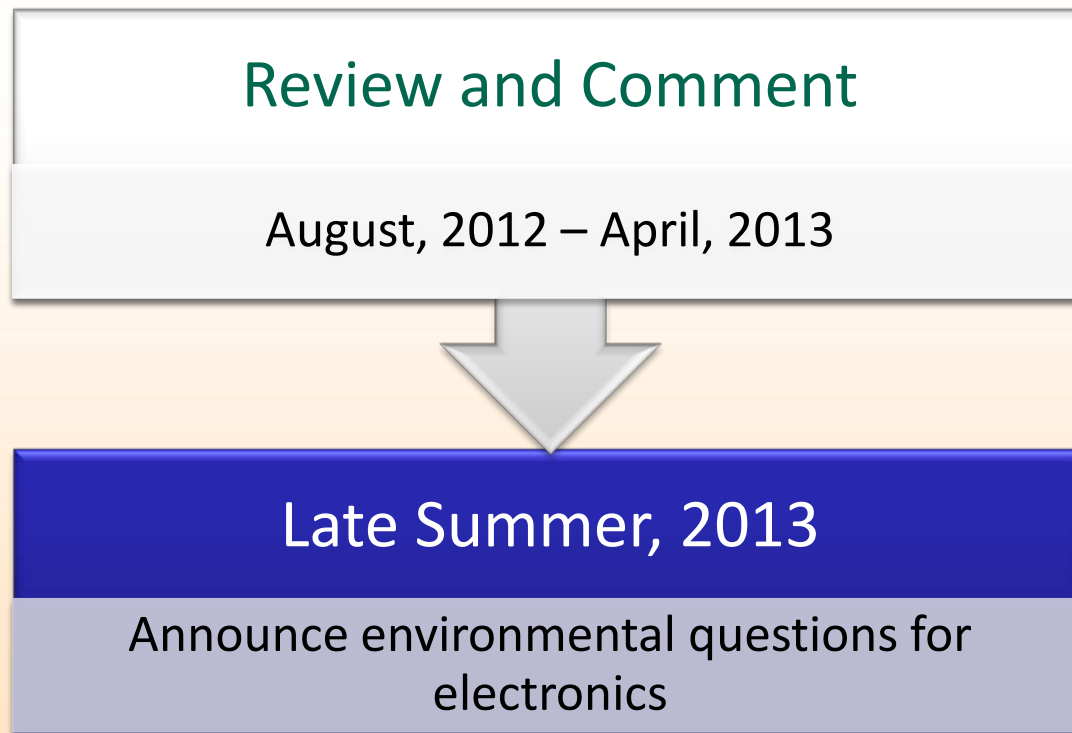
- PVC
- Phthalates
- Bisphenol A and BPA-derived Plastics
- Halogenated Organic Flame Retardants
- Mercury
- Latex
- Hazardous Waste when Disposed



GSC Next Steps: Standardizing Environmental Questions for Electronics

(anything that plugs in or has a battery)

Estimated Timeline





A National Campaign to Improve Environmental
Health and Sustainability in the Health Care Sector
www.healthierhospitals.org

Advocate Health Care*

Bon Secours Health System

Catholic Health Initiatives

Dignity Health*

Gundersen Health System

Hospital Corporation of America*

Kaiser Permanente*

Inova Health System*

MedStar Health*

Partners HealthCare*

Stanford University Medical
Center

Tenet Healthcare

Vanguard Health Systems



HHI Challenges

- **Safer Chemicals**
- **Smarter Purchasing**

- Engaged Leadership
- Healthier Food
- Leaner Energy
- Less Waste

- Green Cleaning
- DEHP/PVC
- Flame Retardants
- Formaldehyde
- Perfluorinated
- PVC
- EPEAT (computers)

Learn what's
POSSIBLE



CleanMed 2014

GLOBAL CENTER FOR HEALTH INNOVATION
Cleveland, Ohio | May 12-14

INSPIRATION. EDUCATION. INNOVATION.



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