

Welcome to today's webinar:

Empowering Supply Chain to Drive Healthier Food Initiatives and the Use of Safer Chemicals in Our Hospitals

Presenter:

Kyle Tafuri

- Download presentation at www.healthtrustpg.com/education; select “live webinars” and click on the name of this program within the Apr. 27 calendar listing
- Beginning tomorrow, visit the On-demand section of the HealthTrust education website for a recording of this webinar

Continuing Education info:

- 1.0 contact hours Supply Chain credit is available
- A certificate of participation is available to those with self-reporting disciplines
- A **verification code** will be provided at the end of the webinar to obtain your continuing education credit or certificate of participation
- Go here to complete the evaluation process for CEs: <https://www.eventscribe.com/Magnet/HealthyAndSafe.htm>
- **Deadline to obtain credit: 5/11/17** (by 11:59 p.m. EST)
- Reminder: CE credit is individual. Online registration is required for each person who wishes to obtain credit. (No “group” credit is available.)

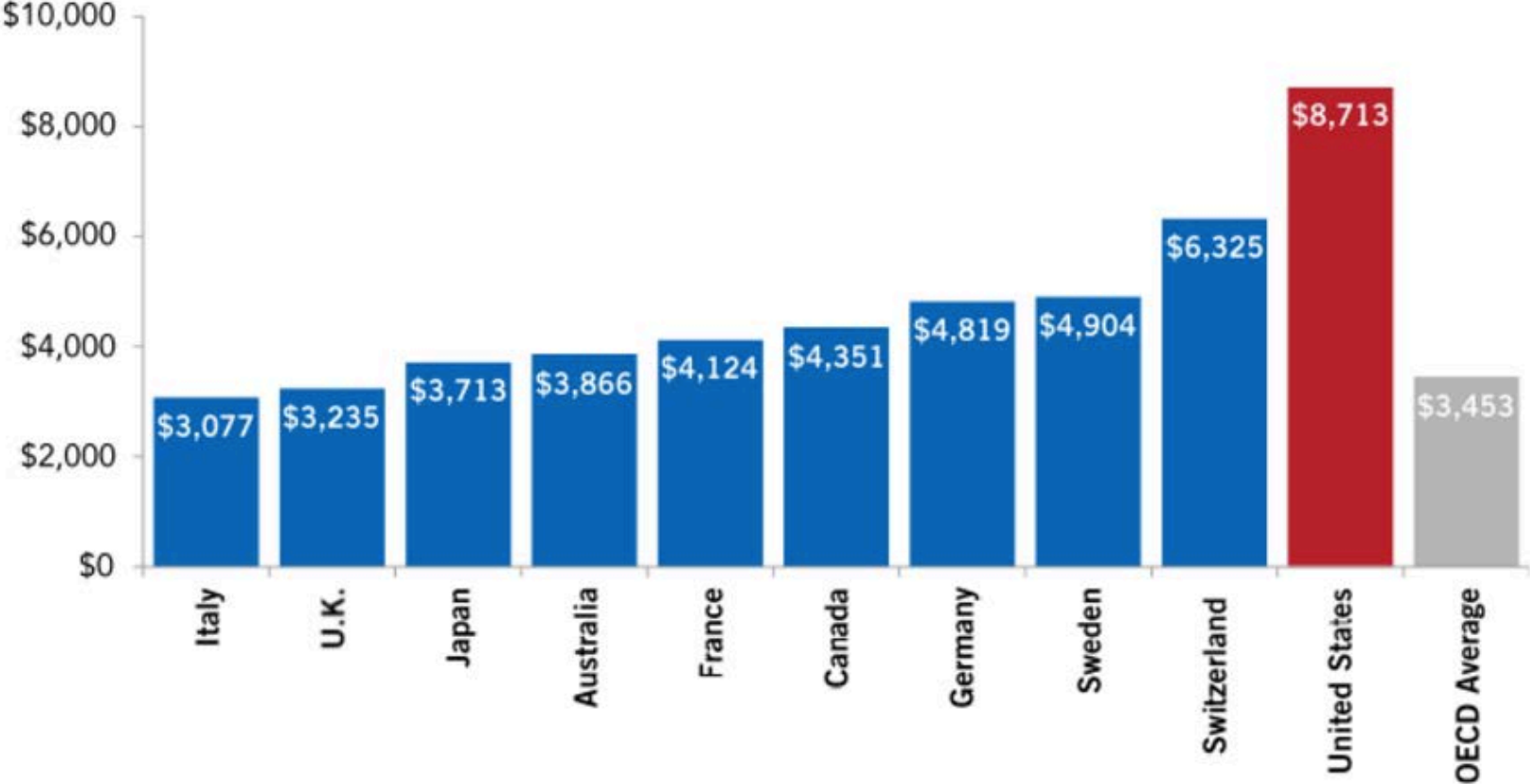
Empowering Supply Chain to Drive Healthier Food Initiatives and the Use of Safer Chemicals in Our Hospitals

Kyle Tafuri

Director of Sustainability

Hackensack Meridian
H E A L T H

Health Care Costs Per Capita



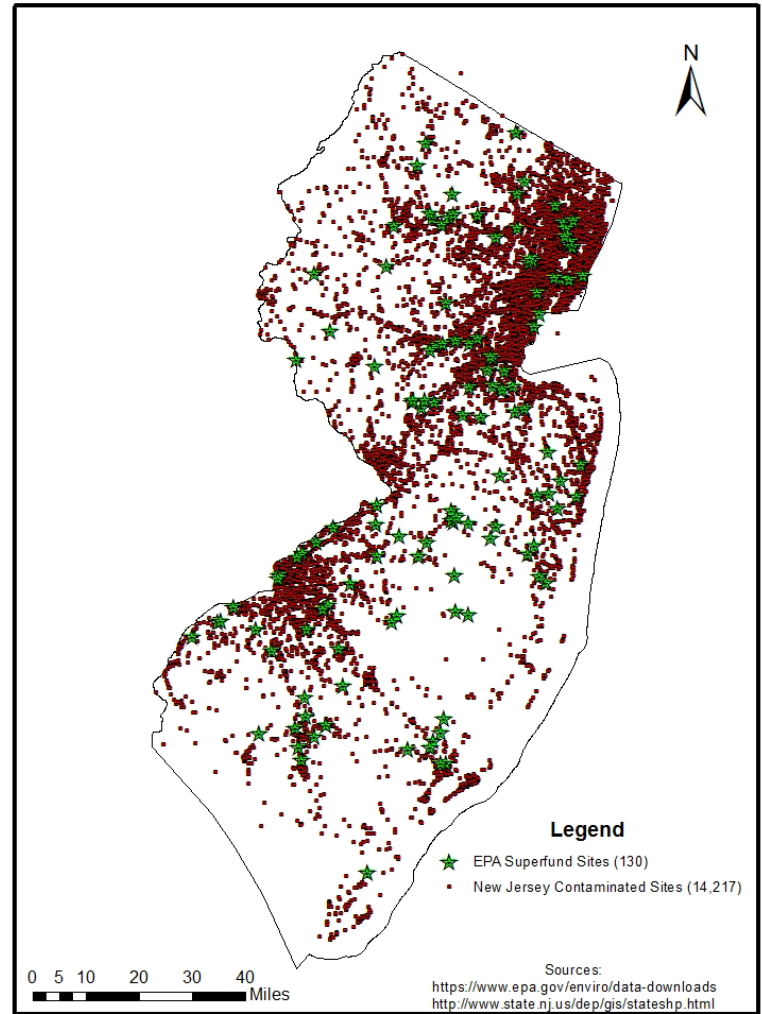
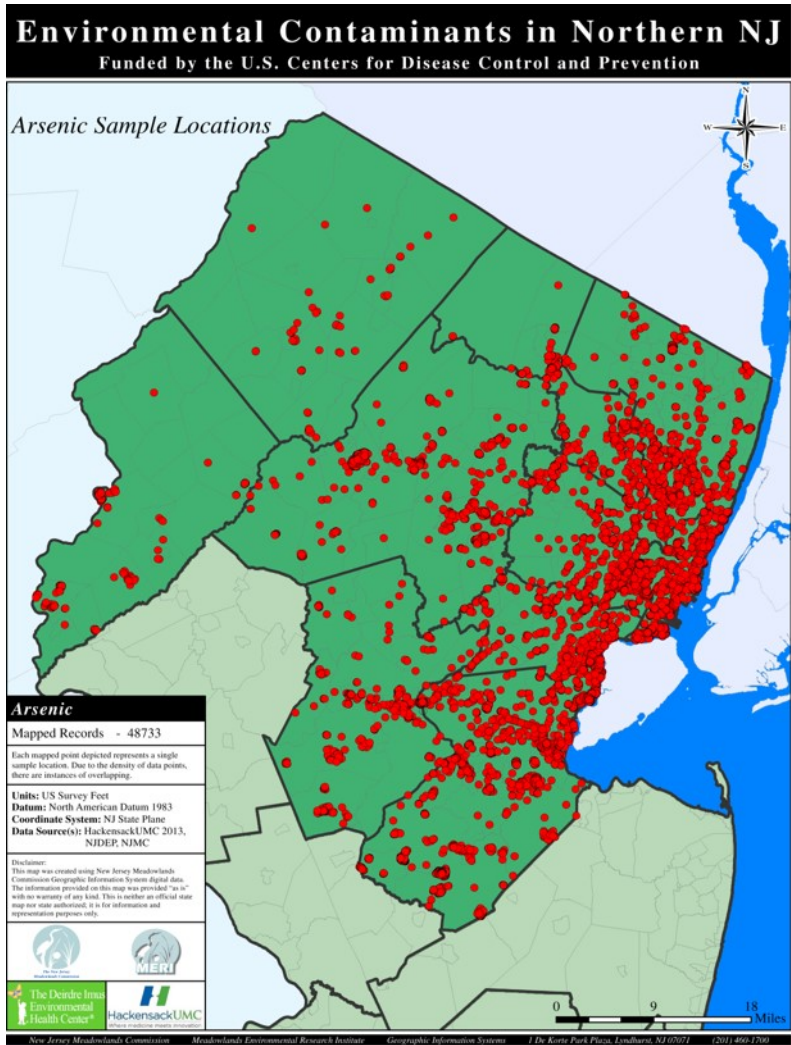
OECD Health Statistics 2015

**In 2015, US health care spending reached \$3.2 Trillion...
over 80% goes towards chronic disease**

CMS, CDC

More than half (52%) of hospitals lost money operating in 2015

Why? The Environment and Health



80,000 chemicals on the market, only 5 substances are banned or restricted by the EPA....



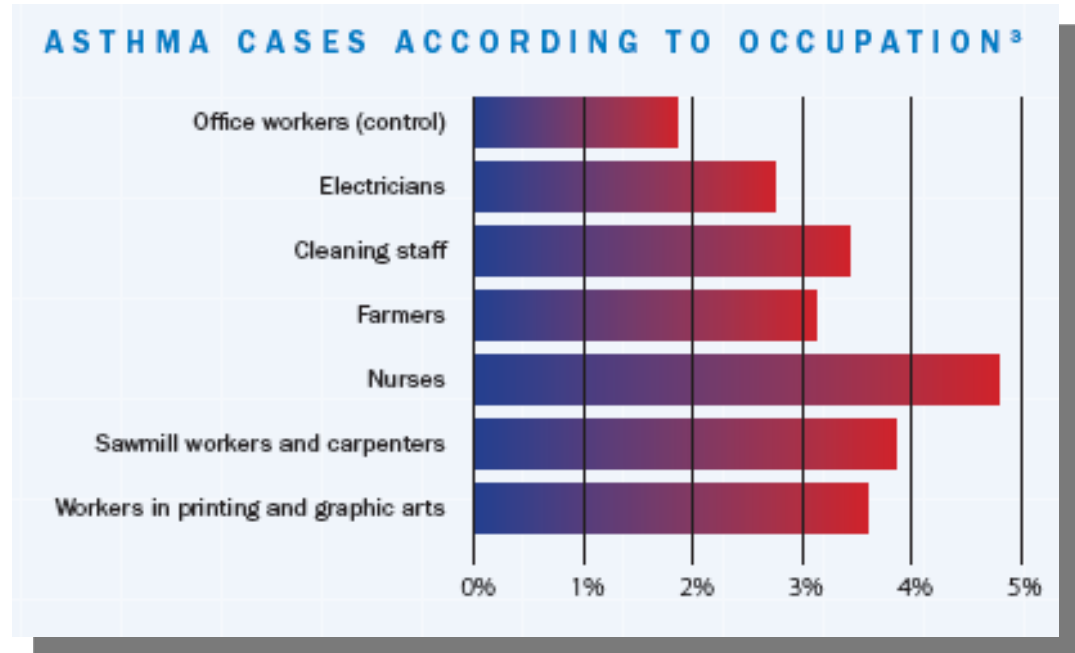
Green Cleaning

Harmful Impacts:

- Asthma
- Cancer
- Reproductive toxicity
- Hormone disruption
- Neurotoxicity
- Skin Rashes and Burns
- Eye irritation or eye damage

Typical Chemicals:

- Ammonia
- Alcohol
- Sodium Hypochlorite
- Formaldehyde
- Benzene



Safer Chemicals – Health Care Without Harm

Healthy Interiors

- Halogenated Organic Flame Retardants – toxic chemicals found in the foam of most furniture. Depending on the flame retardant, effects include reproductive, neurocognitive, and immune system impacts (NIH)
- Formaldehyde – Found typically in insulation, pressed-wood products, unvented fuel burning, adhesives and glues. It is a colorless, flammable, strong smelling chemical that is used in building materials and to produce many household products. Classified as a known carcinogen (NCI)
- Perfluorinated Compounds- primarily used to make every day products more resistant to stains, sticking, grease and water. They are persistent stable compounds that can travel through air, water and soil (ATSDR/CDC)
- Polyvinyl Chloride

Safer Chemicals – PVC/DEHP

- Polyvinyl Chloride (PVC)- the most commonly used plastic in medical devices.
 - Two problems are plasticizers and dioxins.
 - **Dioxins** are produced in the manufacturing of PVC products as well as the incineration and burning of PVC products.
 - Health Impacts: Production linked to cancer as well as disposal if burned (NIH)

- **Plasticizers** are used to soften the PVC plastic but will leach from PVC medical devices into the patients. Common plasticizer -**DEHP**
 - Health Impacts: Endocrine disruptor/reproductive toxin (NIH)



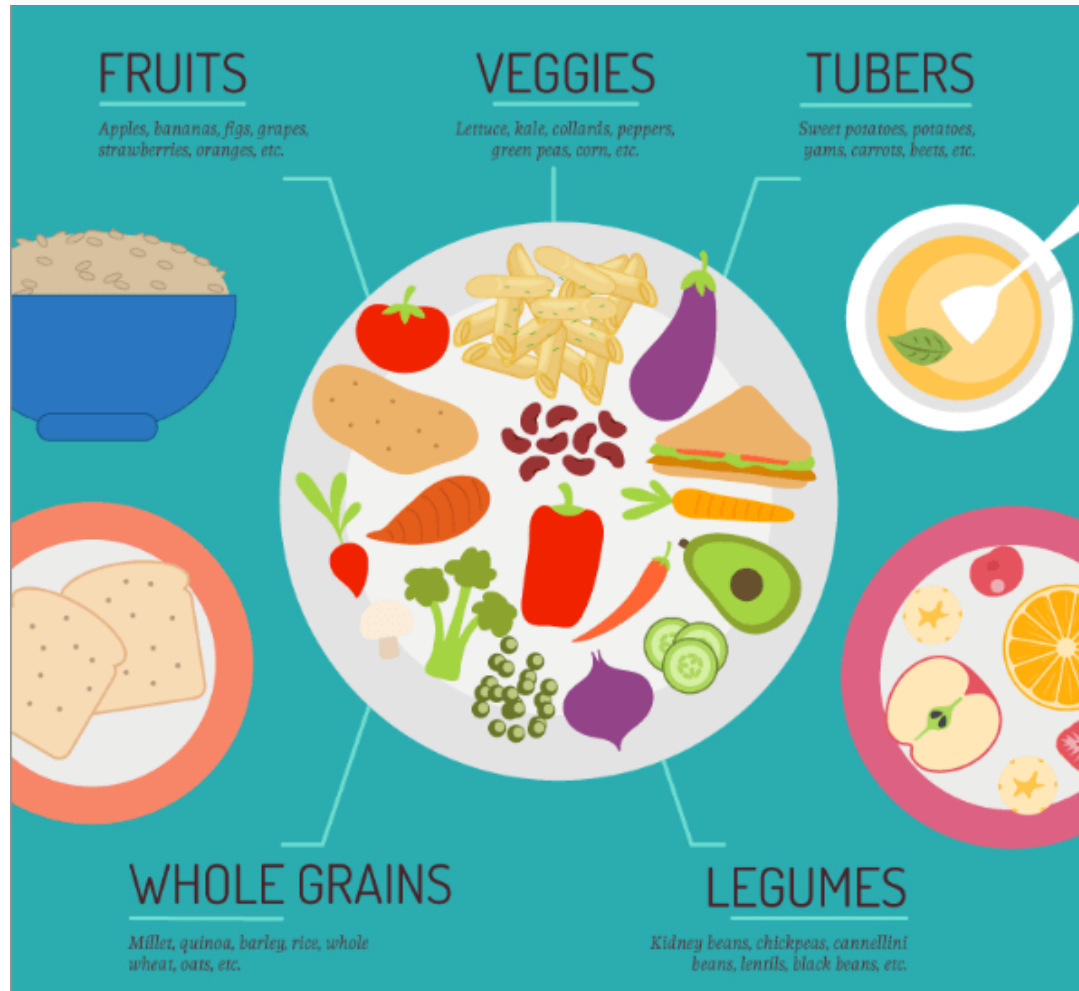
Antibiotic Resistance

- 123,000 Americans die a year from Antibiotic Resistance (CDC)
- Antibiotic resistance costs \$21-\$34 Billion a year (CDC)
- Over 300 leading medical organizations (including American Medical Association, American Public Health Association, American Academy of Pediatrics) have openly advocated for ending the use of non-therapeutic antibiotics in animal agriculture (HCWH)
- There are more than 147 scientific studies documenting the transfer of bacterial resistance from farm based reservoirs to the broader human population (HCWH)

Fast Food Ahead of Healthcare....



Reducing Meat Consumption



www.forksoverknives.com

Asthma

Kidney Issues

Obesity

Reproductive Issues

A SIP OF SODA: HOW SOFT DRINKS IMPACT YOUR HEALTH

ASTHMA
Sodium benzoate, found in sodas, is used as a preservative (microbial control) in foods. Sodium preservatives add sodium to the diet and reduce the availability of potassium. Some reported reactions to sodium benzoate include recurring urticaria (rash), asthma, and eczema.
Each day 11 Americans die from asthma
The annual cost of asthma to the healthcare system is estimated to be nearly \$16 billion

KIDNEY ISSUES
Colas contain high levels of phosphoric acid, which has been linked to kidney stones and other renal problems.
You are more likely to get kidney stones if you are:
Male
Caucasian
Very overweight

SUGAR OVERLOAD
Twenty minutes after drinking a soda, your blood sugar spikes, causing an insulin burst. Your liver responds to this by turning any sugar into fat.
Forty minutes later, caffeine absorption is complete. Your pupils dilate; your blood pressure rises; as a response, your liver dumps more sugar into your bloodstream. The adenosine receptors in your brain are now blocked, preventing drowsiness.
45 minutes later, your body ups your dopamine production, stimulating the pleasure centers of your brain. This is physically the same way heroin works, by the way.

OBESITY
The relationship between soft drink consumption and body weight is so strong that researchers calculate that for each additional soda consumed, the risk of obesity increases 1.6 times.
70% of Cardiovascular disease is related to obesity
42% of breast and colon cancer is diagnosed in obese individuals
30% of gall bladder surgery is related to obesity

DISSOLVES TOOTH ENAMEL
Sugar and acid in soft drinks easily dissolve tooth enamel.
When tooth decay reaches the nerve, the root, and the area at the base of the tooth, the tooth may die and, if left untreated, an abscess can develop.

HEART DISEASE
Most soft drinks contain high fructose corn syrup, a sweetener that's recently come under considerable scrutiny. High fructose corn syrup has been associated with an increased risk of metabolic syndrome, a condition associated with an elevated risk of both diabetes and heart disease.
In 2006, more than one in every four deaths were caused by heart disease.

REPRODUCTIVE ISSUES
Soft drink cans are coated with a resin that contains BPA (bisphenyl-A). This is the same cancer-causing chemical found in plastic baby bottles, water bottles, and plastic containers that wreaks havoc on the endocrine system, potentially causing premature puberty and reproductive abnormalities.
99.9% of plastic bottles contain BPA.

OSTEOPOROSIS
Soft drinks contain phosphoric acid and a high phosphate diet has been associated with bone breakdown and an increased risk of osteoporosis. When phosphorus is excreted in the urine, it takes calcium with it, depriving the bones and the rest of the body of this important mineral.
Eighty percent of those affected by osteoporosis are women. Twenty percent are men.

INCREASED RISK OF DIABETES
Those who drink more soda have an 80% increased risk of developing Type 2 diabetes.
Approximately 1 in 10 health care dollars is spent on diabetes

Sources: AssociatedContent.com | WaterforPeople.com | Ionizers.org | NYTimes.com | Hellum.com | AAFA.org | KidneyFund.org | CDC.gov | Nutrition.Suite101.com | AmericanHeart.org | Chetday.com | NOF.org | Information provided by TermLifeInsurance.org

term LIFE
INSURANCE

Dissolved Tooth Enamel

Heart Disease

Osteoporosis

Increased Risk of Diabetes

Healthcare as a driver of change.....

GUNDERSEN
HEALTH SYSTEM

 Dignity Health™

 Dartmouth-Hitchcock
MEDICAL CENTER

 **Cleveland Clinic**

 Advocate Health Care

 **PARTNERS**
HEALTHCARE

 **NYU Langone**
MEDICAL CENTER

 **INOVA**
HEALTH
SYSTEM

 **University**
Hospitals

 **PALOMAR**
HEALTH
SPECIALIZING IN YOU

 **CATHOLIC HEALTH**
INITIATIVES®

 **ASCENSION**
HEALTH



Beaumont

UCSF Medical Center

KAISER PERMANENTE®

 HealthPartners

 **ThedaCare™**


HackensackUMC

Hackensack Meridian
HEALTH

Safer Chemicals History

- **Pre-September 2014 – 3 Manufacturers have product lists that meet HHI Criteria**
- **September 2014 – 6 major health systems sign letter committing purchasing HHI compliant furnishings**
- **April 2017 – 37 Manufacturers have product lists that meet HHI Criteria**

Health Care Sector Demands Sustainable Meat and Poultry

Press Release posted on **August 22, 2016**

Contact: Healthy Food Team

US & Canada

Tags: **HCWH US and Canada, Healthy Food in Health Care, Press Release, Antibiotics in Agriculture**



Contact: Benn Grover, Health Care Without Harm

Phone: 888-461-0112

Email: bgrover@hcwh.org

Leading health systems urge food producers, manufacturers, and supply chain to offer more sustainably raised meat and poultry products, starting with those raised without routine antibiotics.

[Washington, DC] Nine U.S. health systems, supported by a network of thousands of health care facilities across the United States, are calling on food producers and manufacturers to meet the growing demand for sustainable meat and poultry within health care.

The health systems – Advocate Health Care, Catholic Health Initiatives, Dartmouth-Hitchcock, Gundersen Health System, HackensackUMC, Kaiser Permanente, Partners HealthCare®, University Hospitals Health System, and Veterans Health Administration Nutrition and Food Services – have already achieved significant goals in sustainable food purchasing. Up to 60% of each system’s meat and poultry purchases are now comprised of products raised without routine antibiotics.

HackensackUMC Sustainability Program

Aligning Sustainability with Strategic Priorities

- **Prevention and Wellness**– Energy, Safer Chemicals, Healthier Food, Green Building
- **Quality of Care for our patients** – Safer Chemicals
- **Patient Safety** – Safer Chemicals
- **Revenue Enhancement by reducing resource consumption** – Waste Reduction, Energy Reduction, Supply Reduction, Water Reduction, Chemical Reduction
- **Building Team Member Engagement** – Green Team, Safer Chemicals, Healthier Food
- **Reducing Triggers of Chronic Health Conditions (Population Health)** – Climate Change Energy, Safer Chemicals, Healthier Food, Green Building
- **Community Impact** – Climate Change, Safer Chemicals, Healthier Food, Waste Reduction, Water Reduction, Energy Reduction

<p>Mercury Elimination</p> <p>Achieve mercury-free status or develop and implement mercury elimination plan.</p>	<p>Green Cleaning</p> <p>Inventory cleaning products and purchase 90% Green Seal or UL ECOLOGO certified cleaning products in the following categories: carpet, window, all purpose, bathroom, and general floor care*.</p> <p>*Does not include strippers or finishes</p>	<p>DEHP and PVC Reduction</p> <p>Eliminate DEHP and PVC from at least two product categories.</p>	<p>Healthy Interiors</p> <p>Ensure that 30 percent of the annual volume of furnishings and furniture purchases (based on cost) eliminate the use of formaldehyde, perfluorinated compounds, polyvinyl chloride (PVC), antimicrobials, and all flame retardants.</p>
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Playing with fire

A deceptive campaign by industry brought toxic flame retardants into our homes and into our bodies. And the chemicals don't even work as promised.



Despite the fact that flame retardants are everywhere, they are not always effective. A new study shows that flame retardants can be broken down by heat and smoke, and the chemicals can be found in the air and on the skin of people who have been in a room with a fire. The study also found that flame retardants can be found in the blood of people who have been in a room with a fire. The study also found that flame retardants can be found in the blood of people who have been in a room with a fire. The study also found that flame retardants can be found in the blood of people who have been in a room with a fire.

Hospitals Stop Purchasing Furniture with Toxic Flame Retardants

September 11, 2014 by Jessica Lyons Hardcastle



Advocate Health Care, Beaumont Health System, Hackensack University Medical Center, and University Hospitals will stop purchasing furniture treated with toxic flame retardant chemicals.

Combined, these four health systems represent 7,000 patient beds throughout Illinois, Michigan, New Jersey, and Ohio.

Each of the systems will specify with their suppliers that upholstered furniture should not contain flame retardant chemicals where code permits. Kaiser Permanente made a similar announcement in June. The five health systems spend nearly \$50 million a year on furniture for their facilities.

Commonly used flame retardant chemicals can pose a threat to human health and the environment.

This move is driven by a new California flammability standard, which allows furniture manufacturers to meet the standard without the addition of hazardous flame retardant chemicals.

The four health systems phasing out the purchasing of furniture with flame retardant chemicals are enrolled in the Healthier Hospitals Initiative (HHI), a national campaign aimed at improving environmental health and sustainability in the health care sector.

Environmentally Preferable Purchasing/Safer Chemicals

- Healthy Interiors Furnishings
 - 46.4% (Goal: 30%)
 - Retrofit Patient Lounge Furniture
 - **Cost: \$250,000**
 - **Savings: \$65,000**
- DEHP Reduction in NICU
 - IV Bag Conversion
 - Ear/Ulcer Syringe
 - Mucous Specimen Trap
 - Infusion Set
- Cleaning Products/Hand Soap
 - 95% Green Cleaning according to HHI Criteria
 - 3rd party certified hand soap
- **Reprocessed Medical Devices: \$865,368 (3 Years)**
- **OR Kit Reformulation: \$152,003 (3 Years)**



- Top 10 in country according to Practice Greenhealth in
- Engaged Leadership
 - Safer Chemicals
 - Environmental Purchasing

How did we achieve this?

- **Collaborated with Partners**
 - **Center for Environmental Health**
 - **Connected with Fire Safety Experts**
 - **Healthcare Without Harm**
- **Did our homework**
 - **DOH → NFPA**
- **Purchasing Team Monthly Meetings**
 - **Product Inventory in Vulnerable Units (NICU/Pediatrics)**
 - **Outreach to vendors**
 - **Contract Review**
- **Advocacy**
 - **Capitol Hill – Chemical Reform**

Healthier Foods

Less Meat, Better Meat

Reduce meat purchased by 10% per year
OR achieve ultimate goal of an average
1.5 oz (.09375 lbs / meal) per meal
served.

Increase by 5% per year or achieve
ultimate goal of 20% of meat and poultry
purchases raised without the routine use
of antibiotics. (Meat = beef, pork, poultry
and lunch meat; measure=lbs.)

Local and Sustainable Foods

Increase the percentage of local food
purchases by 5 percent annually OR
achieve ultimate goal of 20 percent of
total.

Increase the percentage of sustainable
food purchases by 5 percent annually or
achieve ultimate goal of 20 percent of
total. (Measure=dollars)

Objective	Impact
<p>Less Meat Reduce meat purchased by 10 percent per year OR achieve ultimate goal of an average 1.5 oz (.09375 lbs/meal) per meal served.</p> <p>–and–</p> <p>Better Meat Increase by five percent per year or achieve ultimate goal of 20 percent of meat and poultry purchases raised without the routine use of antibiotics.</p>	<p>Mitigates climate change by reducing fossil fuel use, models healthy eating behavior and saves important antibiotics for human medicine.</p>
<p>Local Food Purchasing Increase the percentage of local food purchases by five percent annually OR achieve ultimate goal of 20 percent of total.</p> <p>–and–</p> <p>Sustainable Food Purchasing Increase the percentage of sustainable food purchases by five percent annually OR achieve ultimate goal of 20 percent of total.</p>	<p>Leverage buying power to shift the food systems in a more regional and sustainable direction; improve health of patients, staff and visitors.</p>

Antibiotic Free Meat

- % Antibiotic Free August 2015: 0%
- % Antibiotic Free December 2016: 98%
- \$1.1 million spend

<u>Meat</u>	<u>Antibiotic Free</u>	<u>Date</u>
Turkey	X	October 2015
Chicken	X	October 2015
Beef	X	February 2016
Pork		Aiming March 2017
Deli Turkey	X	November 2016
Deli Pork	X	May 2016
Deli Beef	X	May 2016
Deli Chicken	X	November 2016



How did we achieve this?

- Population Health Retail Task Force
 - CEO, COO, Chief HR Officer, VP Hospitality, VP Supply Chain, Sustainability
- VP Supply Chain – HealthTrust Presentation
- HTU Presentation
- Resolution Adopted through Medical Executive Committee
- Collaboration between HealthTrust, Distributor, Manufacturer

Publications/Recognition



Modern
Healthcare

“Hospitals crave antibiotic-free meat to reduce threat of superbugs”



“More Hospitals are Ditching Antibiotics in the Meat they Serve”



BECKER'S
Hospital Review

“HackensackUMC is the Only Hospital in NJ Named as One of the 50 Greenest Hospitals in America by Becker’s Hospital Review”



HEALTH FACILITIES
MANAGEMENT

“Sustainable materials prove to be prudent investment”

“N.J. healthcare facility fighting for safer chemical regulations”



Hackensack Meridian
HEALTH

What can you do?

- Raise awareness of these topics with your team...it is a nice break from the day to day
- Talk to your suppliers...
- Engage your medical center with the work you are doing!
- A lot of people take what they learn home with them

QUESTIONS



HealthTrust Sustainability Resources
<https://members.healthtrustpg.com/>

Member Portal

- Sustainability resources added to the Member Portal
- Now three ways to find Sustainability info from the home page

1

The screenshot shows the HealthTrust Member Portal interface. At the top, there is a navigation bar with 'HEALTHTRUST' logo and links for 'Physician Services', 'Advisory Boards', 'Customer Service', and 'Tools'. Below this is a secondary navigation bar with 'CONTRACTS', 'REPORTS', 'PHARMACY', 'SOLUTIONS', 'NEWS', and 'EDUCATION'. A search bar is located on the right. The main content area features a large banner for 'Healthier Furniture & Furnishings' with a recycling symbol and a 'Learn More' button. Below the banner are three columns: 'New to HealthTrust?' with a 'Download Packet' button, 'Sustainability' with a 'Learn More' button, and 'Contract Corner' with an 'Explore Contracts' button. A 'Meet Your Member Services Support Team' section follows, featuring three team members: Ally Tatro, Rebecca Taylor, and Debbi Spears. Below this are sections for 'The SOURCE Magazine' and a 'Message from HealthTrust CEO'. At the bottom, a 'Useful Links' section is highlighted with a circle, containing links for 'Ethics & Compliance', 'Risk Disclosure Reports', 'Sustainability', 'Members & Employee Savings Program', and 'Terms of Use'. The footer includes contact information for HealthTrust and copyright notice for 2016.

2

3



New graphic bars created for easy recognition of sustainability initiatives on:

- Sustainability page
- Related contract pages (i.e., food, FIS)

Member Portal Welcome Faye Porter

Physician Services | Advisory Boards | Customer Service | Tools

HEALTHTRUST

CONTRACTS | REPORTS | PHARMACY | SOLUTIONS | NEWS | EDUCATION

Sustainability

Our goal
HealthTrust's goal is to support the sustainability initiatives of our members by effectively incorporating the principles of environmentally preferable purchasing (EPP) into the contracting process.

While lack of agreed upon standards within the industry makes capturing sustainability information extremely difficult, creating a process that is relevant and meaningful in assisting members with purchasing sustainable products remains a continuing progress.

What is Environmentally Preferable Purchasing?
Environmentally Preferable Purchasing (EPP) involves actively contracting for and purchasing products or services whose environmental impacts have been considered and found to be less damaging to the environment and human health when compared to market competitors.

How HealthTrust Approaches EPP
Since 2008, HealthTrust has worked closely with Practice Greenhealth (PGH) and its GPO workgroup to develop language for industry-wide, contract-specific supplier question sets related to EPP attributes of products and services in applicable categories.

HealthTrust has developed an Environmental Sustainability Network made up of members to review related EPP questions as part of the supplier RFP process. Potential supplier responses are reviewed for feedback and sustainability-related attributes that can be used as differentiators in making recommendations to related advisory boards during the contract awards process.

While there is still a long way to go as an industry, HealthTrust will continue to work with PGH to refine the standardized questions, identify the critical information that is useful in making sourcing recommendations, and create question sets for categories that do not exist today.

Realizing that awareness is an issue, our goal is to share sustainability information with members as part of the contract launch process.

HealthTrust's long-term goal is to develop meaningful attributes that can be easily identified by members at the contract, and ultimately the line-item level to assist members with making decisions related to sustainability at the time of ordering.

For more information about HealthTrust's Sustainability Initiatives or to join the Environmental Sustainability Network, contact Faye Porter at sustainability@healthtrustpg.com.

Sustainability Topics

- Antibiotic-free Protein Sources
- Dioxin-free Diapers & Package Recycling
- Healthier Furniture & Furnishings
- Reprocessing Resources

Related Links

- HealthTrust's Environmental Sustainability Network
- Sustainability in Healthcare
- Sixth "Champion for Change" Award
- Practice Greenhealth
- Health Care Without Harm
- Healthier Hospitals Initiative

Related Resources

- Environmentally Preferable Product Certification
- A Greener OR
- Building Health-Informed Design
- Energy-focused Solution for FIS

HealthTrust 2017 Sustainability Webinar Series

Upcoming Sustainability Webinars:

- **May 25:** Transportation, electric vehicle charging stations; LEED buildings, community connections
- **June 7:** Easy sustainability wins with EVS

Register for webinars at www.healthtrustpg.com/education

View past programs in the “On-demand” section at:

www.healthtrustpg.com/education

Continuing Education Information

- Log in to the CE site here:
<https://www.eventscribe.com/Magnet/HealthyAndSafe.htm>
- Complete the **Evaluation** to confirm your attendance and print a certificate
- Access the **Evaluation** with **Verification Code: HT_72407**
- **Deadline: Thursday, May 11, 2017 (11:59 p.m. EST)**
- Technical issues?
 - Email: support@eventScribe.com
 - Phone: (410) 638-9239