Pharmaceuticals and Product Stewardship

Sierra Fletcher
Product Stewardship Institute

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Who is the Product Stewardship Institute?

- Non-profit founded in 2000
- Membership
  - 47 States
  - 200+ Local governments
  - 70+ Corporate, Organizational, Academic & Non-U.S. Government Partners

- Board of Directors: 7 states, 4 local agencies
  - Multi-stakeholder product stewardship network

April 29, 2011
Product Stewardship: councils & other groups promoting product stewardship

Source: Product Stewardship Institute, Inc. (2011)

Map showing states with product stewardship groups.
The average American throws away 1,600 pounds of trash each year.

That means by age 25 you’ve thrown away 40,000 pounds.
Different Kinds of Toxicity
We are all responsible...

Shared Responsibility

- Manufacturers
- Retailers
- Other Businesses
- Government
- Consumers
1. Cost internalization
2. Shared responsibility (manufacturers have greatest role)
3. Lifecycle costs
4. Performance goals
5. Flexibility for producers

- Basic building blocks of product stewardship programs
- Developed by PSI in 2001
- Endorsements: National League of Cities, Environmental Council of States, Solid Waste Association of North America, and many other organizations
Examples of Product Stewardship

- Government oversees the implementation of product stewardship laws.
- Phone book industry offers the public the chance to opt-out of receiving phone books.
- Manufacturer removes toxic substance from product or manufacturing process.
- Retailers collect products for recycling.
- Rechargeable battery manufacturers provide collection boxes to recycle their product.*
- Fluorescent lamp manufacturers implement recycling program in Maine.*
Extended Producer Responsibility (EPR), a central tenet of product stewardship, is a policy approach in which the producer’s responsibility for their product extends to the post-consumer management of that product and its packaging.
EPR = A market-based solution

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<tr>
<th>Traditional Regulation</th>
<th>Extended Producer Responsibility</th>
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<td>Government dictated</td>
<td>Allows flexibility to determine the most cost-effective solutions</td>
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<td>Government run</td>
<td>Industry run</td>
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<td>Taxes environmental externalities</td>
<td>Internalizes externalities</td>
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<td>Costs borne by taxpayers</td>
<td>Management costs are shifted to the market place</td>
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Voluntary (mostly) EPR Programs in the U.S.

- Call2Recycle
- Thermostat Recycling Corporation
- End of Life Vehicle Solutions Corporation (ELVS)
- The Pesticide Stewardship Alliance (TPSA)
- Armstrong World Industries (ceiling tiles)
- Electronics manufacturers
- Kodak - disposable cameras
- Primary batteries – planning stage
- 4 Self-injected pharmaceutical companies (CA)
- Celgene Corp. (Thalomid)
Another View on State EPR Laws

60+ EPR laws in 32 states
(including laws on carpet, cell phones, and agricultural pesticide containers)

1 “Framework” Law (ME)
Product Categories in Legislation

2010/11 Vermont

2011: ME, NY, WA, San Francisco

2011: WA, ME, RI (framework)

2011: IL

2011: CA

* Mattresses – RI Framework (2011); model legislation planned for 2012 (CT)
Federal Guideline:

Do not flush prescription drugs down the toilet. This can place the accompanying patient information at risk.

For information on drugs that are no longer needed, please visit the Office of National Drug Control Policy website at CityofBoise.org.

MEDICATIONS DISPOSAL

It is no longer acceptable for residents to dispose of prescription drugs by flushing them down the toilet. Federal regulations prohibit any of the household hazardous waste from being disposed of in this manner. Instead, follow the guidelines below to ensure that your medications are disposed of safely:

1. Take drug(s) out of original container.
2. Mix drug(s) with an undesirable substance.
3. Put mixture in a nondescript container.
4. Learn about the proper disposal options for your area.

For a list of controlled substances, visit Boise.gov.

Disposal Options for Expired or Surplus Medications/Pharmaceuticals

Technical Guidance Document SW 07-01

Kansas Department of Health and Environment
Bureau of Waste Management
1000 SW Jackson, Suite 320, Topeka, Kansas 66612-1366
Potential Roles in EPR: Pharmaceuticals

- Mandated
- Manufacturers ("pharma") develop and implement take-back program
  - Would choose combination of available mechanisms (i.e., law enforcement involved as long as that is still required)
  - Meet program minimum requirements/take-back goals
- Government oversees program & enforces against non-compliant manufacturers
  - Education & outreach
- Retail pharmacies could serve as collection sites
- Consumers get information about what to do with leftover drugs & dispose accordingly (no, this part isn’t easy!)
Mandatory Programs:

- **British Columbia**
  - Established in 2000
  - more than 97.5% of all pharmacies are participating in the program (voluntarily)
  - patients have access to over 1080 collection locations

- **Manitoba**
  - Established in February 2010
Companies Participating in PCPSA

1. Abbott Laboratories Limited
2. Abraxis BioScience
3. Actelion Pharmaceuticals Canada Inc.
4. Advantage CKN
5. Afexa Life Sciences Inc.
6. Alcon Canada
7. Amgen Canada Inc.
8. Amway Canada
9. Apotex Inc.
10. Ashbury Biologicals Inc.
11. Astellas Pharma
12. AstraZeneca Canada Inc.
13. Au Naturel Inc.
15. Bayer Inc.
16. Baxter Canada
17. Bioforce Canada
18. Biogen Idec Canada Inc.
19. Biovail Pharmaceuticals Canada
20. Boehringer Ingelheim Canada Ltd.
21. Boiron
22. Bristol-Myers Squibb Pharmaceutical Group
23. Canada Safeway Ltd.
24. Chattem (Canada) Inc.
25. Church & Dwight Canada
26. Cobalt Pharmaceuticals Inc.
27. Combe Incorporated
28. Costco
29. Cytex Pharmaceutical Inc.
30. Eli Lilly Canada Inc.
31. EMD-Serono Canada Inc.
32. Enzymatic Therapy
33. Ferring Inc.
34. Gaia Garden Herbal Inc.
35. Galderma Ltd.
36. General Nutrition Centres Canada
37. GlaxoSmithKline Consumer Healthcare
38. GlaxoSmithKline Inc.
39. Graceway Pharmaceuticals
40. Helix BioPharma Corp.
41. Herbalife of Canada
42. Holista Health Canada
43. Hospira Healthcare Corporation
44. Hudson’s Bay Company
45. Indigene Pharma Inc.
46. Institut Rosell
47. Jamieson Laboratories Ltd.
49. Johnson & Johnson Inc.
50. Katz Group Canada Ltd.
51. King Pharmaceuticals
52. Kripps Pharmacy
53. Laboratoire RIVA Inc.
54. Leo Pharma Inc.
55. Loblaw Companies Ltd
56. Lundbeck Canada Inc.
57. Mead Johnson Nutritional
58. Mentholatum Co. of Canada Ltd.
59. Merck Frosst Canada & Co.
60. Mylan Canada
61. Natural Factors Nutritional Products Ltd.
62. Nature’s Sunshine Products
63. Novartis Consumer Health Canada Inc.
64. Novartis Pharma Canada Inc.
65. Novo Nordisk Canada Inc
66. Novopharm Ltd. / Teva Neuroscience
67. Nu-Pharm Inc
68. Nucro-Technics Incorporated
69. Odan Laboratories
70. Omega Alpha Pharmaceuticals
71. Omega Laboratories
72. Organika Health Products Inc.
73. Overwaitea Food Group Ltd Partnership
74. Paladin Labs Inc.
75. Paltech Inc.
76. Peoples Drug Mart
77. Pfizer Canada Inc
80. Pharmasave
81. Pharmascience Inc.
82. PharmEng Technology Inc.
83. Platinum Naturals
84. Procter & Gamble Inc.
85. Procter & Gamble Pharmaceuticals Canada Inc
86. ProMedics Nutraceutical Ltd
87. Purdue Pharma
88. Ranbaxy Pharmaceuticals Canada Inc.
89. Ratiopharm
90. Rivex Pharma Inc.
91. Roche Canada
92. Ropack Inc.
93. Sanofi-Aventis Canada Inc.
94. Sandoz Canada
95. Schering Canada Inc.
96. Seaford Pharmaceuticals
97. Sepracor Pharmaceuticals Inc.
98. Servier Canada Inc.
99. Shaklee Canada Inc.
100. Shire Canada Inc.
101. Shoppers Drug Mart, Pharmaprix
102. SISU Inc.
103. Solvay Pharma Inc.
104. Stiefel Canada Inc.
105. Swiss Herbal Remedies Ltd.
106. Taro Pharmaceuticals Inc.
107. Tianshi Health Products
108. Trophic Canada
109. UniPHARM Wholesale Drugs
110. USANA Canada Co.
111. Valeant Canada Limited
112. Vita Health Products Inc.
113. Wal-Mart Pharmacy
114. Wellspring Pharmaceuticals
115. Westcoast Naturals
116. WN Pharmaceuticals Ltd.
117. Wyeth Consumer Healthcare Inc.
118. Wyeth - Canada
Participating Companies – A Few Examples

- Abbott Laboratories Limited
- Bayer Inc.
- Bristol-Myers Squibb
- Eli Lilly Canada Inc.
- GlaxoSmithKline Inc.
- Johnson & Johnson Inc.
- Pfizer Canada Inc
- Procter & Gamble Inc.
- Wal-Mart Pharmacy
EPR for Pharmaceuticals – Legislation in the U.S. 2009 - 2011

- “study bills” in CA, VT, RI
- other take-back legislation in a dozen states

Source: Product Stewardship Institute, Inc. (2011)
Sierra Fletcher
PSI Director of Policy & Programs
617-236-4886
sierra@productstewardship.us
www.productstewardship.us