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## **Pharmaceuticals In The Environment Issues**

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This is a specific example of the pharmaceutical industries effect on the environment One very recent case of pharmaceutical pollution by a large company is a recent scandal in China. The Harbin Pharmaceutical Group, a major company in China's HeiLongJiang province decided to relocate after waste gases and water that exceeded

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legal pollution limits were released into the environment.

## **The Environmental Impact Of The Pharmaceutical Industry**

Medicines play an important role in the treatment and prevention of disease in humans and animals, but residues from these medicines can be released into the environment

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through a number of routes during their manufacture, use and disposal.

## **Pharmaceuticals in the Environment (Issues in ...**

Pharmaceuticals in the Environment (PIE)

Pharmaceuticals have become chemicals of emerging concern to the public because of their potential to reach drinking water. Looking at the overall incidence

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of pharmaceuticals in the aquatic environment, patient use of medicines (prescription and over the counter) is the principal pathway.

## **Pharmaceuticals in the Environment (PIE) | Pfizer**

Context and importance of the issue . The pollution of the various compartments of the environment (water, soil and air)



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with pharmaceutical residues is an environmental concern. Consumption of human medicines is between 50 to 150 g per person per year in the EU.

## **The risks of environmental effects of pharmaceutical and**

...

The issue of pharmaceuticals in the environment requires a

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balanced approach. In contrast to many other substances/chemicals in the environment medicines play an important role in human health. Today, European citizens can expect to live up to 30 years longer than they did a century ago.

## **Pharmaceuticals in the Environment (PIE)**

In most cases, however, the

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concentrations of pharmaceuticals found in the environment are much lower than the therapeutic dose. In rivers and lakes that receive treated wastewater, drugs are typically found in concentrations of 0.1 mg/L to 1.0 mg/L. Klaper found concentrations of metformin in Lake Michigan of around 40 mg/L close to the sewage treatment

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plants, but only  
0.012mg/L offshore.

## **Pharmaceuticals in the environment: a growing problem ...**

Environmental  
Management Issues in  
the Pharmaceutical  
Industry: A Review  
Environmental  
Management Practices.  
By adopting  
Environmental  
Management Systems  
(EMS's) which meet  
internationally...

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In The  
Objectives and Policies.

Multinational  
pharmaceutical  
companies should start  
recognizing negative ...

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**Environmental  
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**Pharmaceutical ...**

Most pharmaceuticals  
are deposited in the  
environment through  
human consumption  
and excretion, and are  
often filtered  
ineffectively by

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municipal sewage treatment plants which are not designed to manage them. Once in the water, they can have diverse, subtle effects on organisms, although research is still limited.

## **Environmental impact of pharmaceuticals and personal care ...**

Pharmaceuticals reach the environment mainly in three ways:

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They are excreted from humans and animals, intact or metabolized, mainly into the urine, passing on to the environment directly or via sewage treatment plants. Unused pharmaceuticals reach the environment either via household wastewater or via urban solid garbage handling.

**Environmental  
persistent**

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## **pharmaceutical pollutant - Wikipedia**

Once released into the environment, pharmaceuticals will be transported and distributed to air, water, soil or sediment. A range of factors, such as the physico-chemical properties of the compound and the characteristics of the receiving environment, will affect their distribution.



**The environmental  
side effects of  
medication**

The issue has gained increasing attention, in scientific literature and the media, with governments, regulators and with other stakeholders (e.g., socially responsible investors). At the heart of the issue is whether existing controls (regulatory and other) of pharmaceuticals are

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protective of human health and the environment.

## **Pharmaceuticals in the Environment (PIE)**

With the encouragement of Germany's Environment Ministry (BUMB), the country's environment agency (UBA) has been conducting or funding studies in areas such as the contamination

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by pharmaceuticals of  
soil and sludge through  
emissions from  
production processes,  
sewage and waste-  
water treatment  
plants.

## **Regulating the Environmental Impact of Pharmaceuticals ...**

Pharmaceuticals and  
the Environment  
Environmental  
Pollution caused by  
human and veterinary

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pharmaceutical substances is an emerging environmental problem. Article 8c of Directive 2008/105/EC (amended by Directive 2013/39/EU) obliges the European Commission to develop a strategic approach to water pollution from pharmaceutical substances.

**Pharmaceuticals and  
the Environment |**

# Acces PDF Pharmaceuticals In The **Public Health**

Policy options for regulating pharmaceuticals in the environment. This document outlines the growing issue of pharmaceutical pollution and what we need to do about it. As well as other chemical pollutants such as pesticides, biocides or industrial chemicals, the emission of pharmaceuticals into the environment needs

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In The  
to be regulated.

## Environment

**The problem of  
pharmaceutical  
pollution - EEB - The**

## Science And

Ecologists have long  
recognized that  
pharmaceuticals, both  
unmetabolized drugs  
like metformin and  
others that break down  
into various  
metabolites, are  
polluting the  
environment, but  
researchers have

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traditionally focused on just two classes: antibiotics and endocrine-disrupting compounds such as the birth control hormone estradiol.

## **Drugging the Environment | The Scientist Magazine®**

The strategy on pharmaceuticals in the environment (PIE) would deal in particular with worries among Europeans as well as

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health professionals and non-governmental organizations (NGOs) about environmental causes of antimicrobial resistance, including untreated waste from plants making antibiotics and their APIs.

## **Pharmaceuticals in the Environment - AMR Industry Alliance**

The pharmaceutical and personal care



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products industries have created work groups to facilitate collaboration among members on these issues. An example is the Europe-based Inter-Association Initiative on Pharmaceuticals in the Environment, which consists of the Association of the European Self-Medication Industry, the European Federation of

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## **Position on Impact of Pharmaceuticals and Personal Care ...**

The budget impasse and resulting sequestration are election fall-outs that may impact the pharmaceutical industry in a number of ways: vaccines are the last goodwill remaining for the industry, due largely to exemption from nuisance lawsuits other drugs do not get, but those are likely to

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have decreased sales, if research funding is reduced it will also impact the private sector and any cuts at the FDA that could dramatically raise time to market.

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