China

“My Children Have Been Poisoned”
A Public Health Crisis in Four Chinese Provinces
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Lead Poisoning Incidents and Figures Compiled by Human Rights Watch from Reports in Mainland Chinese Media, including Official Government Media, between January 2009 to May 2011

**Jiyuan City, Henan Province**
- October 2009
- 1,000 children

**Jianning City, Chongyang County**
- Hubei Province
- June 2010
- 30 people (3 children)

**Si County**
- Anhui Province
- June 2010
- Over 100 children (specific number unknown)

**Dafeng Economic Development Zone**
- Jiangsu Province
- January 2010
- 31 children

**Huaining County**
- Anhui Province
- January 2010
- 23 children

**Deqing County**
- Zhejiang Province
- May 2011
- No specific number given

**Qingyuan City**
- Guangdong Province
- December 2009
- 44 children

**Heyuan City, Zijin County**
- Guangdong Province
- May 2011
- 136 people (number of children unknown)

**Wugang City**
- Hubei Province
- August 2009
- 1,354 people (number of children unknown)

**Zhudu Township, Langshuijiang City**
- Hunan Province
- August 2009
- 20% of the town

**Jiahe County**
- Hunan Province
- February 2010
- 234 children

**Chenzhou City**
- Hunan Province
- March 2010
- 28 children

**Longyan, Shanghang County**
- Fujian Province
- September 2009
- 32 children

**Taizhou City**
- Zhejiang Province
- April 2011
- Over 20 children (specific number unknown)

**Dongchuan Area, Kunming City**
- Yunnan Province
- August 2009
- Over 200 children (specific number unknown)

**Fengxian County**
- Shaanxi Province
- August 2009
- 615 children

**Longchang County**
- Sichuan Province
- March 2010
- 94 people (88 children)

The dates above refer to the month in which media reported the incident. Locations appear above as they appear in the media reports. In China, towns may be located within cities, and cities are typically located within counties. Dongchuan Area is located within the official limits of Kunming City.
Summary

My children have been poisoned and there is nothing I can do to help them.
—Sun, Henan province, May 2010

Hundreds of thousands of children in China are suffering permanent mental and physical disabilities as a result of lead poisoning. Many of them live in poor, polluted villages next to, and surrounded by, lead smelters and battery factories. Often, their parents work in these factories, bringing more lead into their homes on their clothes, boots, and hands.

China today has the world's largest population and second largest economy. The country's gross domestic product has increased ten-fold in the last 15 years. That rise in gross domestic product (GDP) growth has helped lift 200 million people out of absolute poverty since 1978. But this rapid economic development has also exacted a steep environmental price; widespread industrial pollution that has contaminated water, soil, and air and put the health of millions of people—likely even hundreds of millions—at risk. Currently, 20 of the world's 30 most polluted cities are in China.

Pollution from lead is highly toxic and can interrupt the body's neurological, biological, and cognitive functions. Children are particularly susceptible, and high levels of lead exposure can cause reduced IQ and attention span, reading and learning disabilities, behavioral problems, hearing loss, and disruption in the development of visual and motor functioning. High levels of lead can cause anemia, brain, liver, kidney, nerve, and stomach damage, as well as comas, convulsions, and even death. Worldwide, lead poisoning kills 230,000 people each year.

Today, lead poisoning is among the most common pediatric health problems in China. While the lack of comprehensive data makes it difficult to determine the extent of the epidemic, a number of sources—including academic and media reports—indicate it is a public health emergency affecting whole communities.

The Chinese government’s ill regard for human rights means it has been able to pursue a model of economic development that is not accountable to its citizens, including poor people who are often particularly susceptible to the most damaging health effects of environmental hazards. But industrial pollution, and the lack of accountability that accompanies it, extends far beyond health issues: it impacts the full realization of human
rights in China, including people’s right to life, health, an adequate standard of living, as well as to information, participation, and access to justice.

Underpinning China’s lead poisoning epidemic is a tension between the government’s goals for economic growth and its efforts to curb environmental degradation. The Chinese government has developed numerous laws, regulations, and action plans designed to cut emissions, encourage more environmentally-friendly industries and decrease pollution. Yet these policies are in competition with the Chinese government’s goals for economic development; the first guiding principle of the country’s Twelfth Five-year Plan for Environmental Protection (2011-2015) is “optimizing economic development.”

At the local level, such policy contradictions may encourage factories to cut corners on emissions standards. Corruption and conflict of interest can also undermine environmental protection efforts. Local officials, who often have a legal or financial role in local factories, may be resistant to implementing environmentally friendly technology. Existing environmental laws often lack effective enforcement mechanisms.

This report—based on interviews in Henan, Hunan, Shaanxi, and Yunnan provinces, and research in Beijing and Shanghai between late 2009 and early 2010—finds that local governments have imposed arbitrary limits on access to blood lead testing; refused appropriate treatment to children and adults with critically high lead levels; withheld and failed to explain test results showing unaccountable improvements in lead levels; and denied the scope and severity of lead poisoning.

Parents said that government officials told them that only children living within one kilometer of a factory smokestack were at risk and that milk was adequate treatment for lead poisoning. Parents reported that local police threatened individuals seeking treatment and information, and those trying to protest against polluting factories have been arrested. Journalists told us they have been intimidated and threatened when trying to report on lead poisoning.

Meanwhile local Environmental Protection Bureaus (EPBs), staffed and supervised by local government officials, have done little to fulfill their obligation to monitor emissions, disseminate information to the public about polluting factories, and enforce environmental regulations that stipulate a factory or polluting entity must be improved or removed when it endangers public health.

Among the many government abuses that Human Rights Watch documented that directly compromised the health of children and adults at risk for lead poisoning are:
Testing Practices

Although local governments have provided some free testing for children under the age of 14, in the areas we visited with acute lead poisoning, seemingly arbitrary restrictions on testing restricted the ability of individuals to access free testing. In some cases, children were denied testing, even when parents were willing to pay for it.

Many parents in Henan and Shaanxi, suspicious about false results showing normal blood lead levels (BLLs), brought their children to towns outside the contaminated area for testing. In every case, these results were much higher than those provided by the local hospital or the Chinese Center for Disease Control and Prevention (CCDC). In Yunnan, many parents said they were denied access to their children’s results and simply told the results were normal.

Access to Information

In Hunan, Henan, Shaanxi, and Yunnan provinces, parents said they only learned that local factories were polluting at toxic levels when their children fell ill. In each province, they said they received no information about the health risks associated with the pollution, including any risk or medical consequences of lead poisoning.

Journalists who reported on lead poisoning told Human Rights Watch that police had followed them or forced them to leave the area when they tried to interview people. A foreign journalist who had been to a polluted site in Hunan said police had questioned his driver, as well as people he had interviewed. A journalist reporting on lead poisoning in Shaanxi was also forced to leave.

Access to Medical Treatment

Parents of children with dangerously high blood lead levels in all four provinces were unable to access effective treatment. They reported that health workers and government officials told them to feed their children specific foods, including apples, garlic, milk, and eggs. In rare cases children were given medicine but inconsistently and without medical supervision. In nearly every case, children were returned to their homes to face ongoing exposure to lead with dangerous and potentially deadly consequences.

Intimidation by Police and Government Officials

In all four provinces, villagers told Human Rights Watch they were scared to ask government officials for more help or information. In Shaanxi province, villagers said police had detained
people protesting outside a lead-processing factory. In Hunan, seven people were arrested while trying to seek help for their children.

**Remediation and Long-Term Solutions**
Most families said they were not financially able to move to an unpolluted area. Villagers in Shaanxi said the government had announced plans to move residents from several villages to other areas but did not know when or if this will happen, where they are supposed to go, and/or how they would earn a living in a new area.

In villages where lead exposure is highest, a generation of cognitively and physically disabled children will need significant and ongoing support. Most parents Human Rights Watch spoke with were generally unaware of these long-term consequences of lead exposure. However, some said their children were already struggling: failing physically or underperforming in school. Yet neither the schools nor the local government had offered special services or opportunities for children with lead poisoning. These needs will become even more acute as the years pass and lead poisoning continues to be neglected.

**Occupational Health**
In addition to researching the effects of lead on the communities surrounding polluting factories, Human Rights Watch interviewed family members of a female worker in a lead processing plant in Yunnan who died of acute lead poisoning. Human Rights Watch also interviewed individuals concerned about the absence of adequate worker protections. According to workers in Yunnan, Henan, and Shaanxi, blood lead tests and safety measures are not routine practice.

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The Chinese people have already suffered grave consequences as a result of inappropriate and inadequate responses to public health crises. During the 1990s and early 2000s, local officials in Henan and other provinces ran programs for impoverished farmers to sell their blood plasma and platelets. The program was unsanitary and unsafe, but selling blood plasma was profitable for officials, and they continued to deny evidence of an emerging HIV epidemic. Tens of thousands were infected, nearly a majority of adults in some villages, and the public health consequences continue. Similarly, in 2003, SARS was first denied and then downplayed by government health officials who censored media and lied to international health agencies, resulting in ongoing transmission and unnecessary suffering and deaths.
The Chinese government’s response to AIDS and SARS was characterized by corruption, cover-up, and harassment of media and health activists, resulting in a delayed and ineffective public health response. The response to lead poisoning has so far followed this same road, but it is not too late for the Chinese government to take a different approach.

The Chinese government has repeatedly and voluntarily pledged in public statements, in domestic law, and in international treaties to protect the fundamental human rights of its citizens, including their right to the highest attainable standard of health. It must ensure that laws that safeguard human health against environmental hazards are implemented locally and followed consistently. When health is compromised, the government needs to act swiftly to provide health information and evidence-based medical treatment. Further, the government must hold accountable those responsible for protecting the community’s health and wellbeing when they choose actions that instead endanger or neglect health.
Recommendations

To the Government of the People's Republic of China

• Ensure that government officials who are suspected of failing to uphold environmental regulations or preventing people from accessing medical care are investigated and held accountable.

• Invite the special rapporteur on the right of everyone to the enjoyment of the highest attainable standard of physical and mental health and the United Nations independent expert on the issue of human rights obligations related to access to safe drinking water and sanitation to lead an independent inquiry into the impact of industrial lead poisoning in China.

To the Local Governments across China Facing Widespread Lead Poisoning

• Conduct surveillance to determine the extent of lead poisoning affecting communities.
  o Where surveillance indicates lead poisoning, take immediate actions to identify and eliminate sources of lead pollution and to treat those affected. Ensure that local residents are informed of the results of surveillance efforts and the measures being taken in response.

• If contamination is severe enough to require the community's relocation:
  o Begin a relocation process that includes community participation. Attention should be paid to the UN Basic Principles and Guidelines on Development-based Evictions and Displacement. Relocation should, as far as possible, provide equivalent land, facilities, and opportunity to earn an income that permits an adequate standard of living as that provided by the land from which communities are forced to relocate.
  o Provide affected communities with regular and accurate information regarding relocation, including a timetable, and any economic, health, or educational services that will be provided.

• When blood lead testing shows elevated levels of lead, provide referrals to social services to ensure that children and adults who have, or may develop, physical and cognitive disabilities as a result of lead poisoning receive disability-related services, including educational, employment, and financial assistance, as guaranteed under Chinese law.
• Allow communities to exercise their rights to assembly and expression in seeking remedies in relation to environmental contamination. Stop all arbitrary arrests of individuals who are exercising these fundamental rights.

• Stop the harassment and obstruction of journalists seeking to report on environmental pollution and its impact on communities and arbitrary detention and arrests of parents and community members seeking information and remedies to environmental contamination.

To the Environmental Protection Bureau of the Chinese Government

• Test all factories for pollution levels that surpass national guidelines, prioritizing factories that are located close to residential areas; that have not had environmental impact assessments; and which have been the focus of inquiries about contamination without proper investigation.

• Shut down factories found to have pollution levels that surpass national standards or put in place lead mitigation systems to reduce exposure to toxic chemicals, both for the workers inside and local communities. Ensure affected communities receive information on the environment and health consequences of contamination.

• Revise laws by closing loopholes to ensure that factories which endanger people’s health cannot continue to operate by paying a fine without further measures.

• Ensure that local Environmental Protection Bureaus have the staff, resources, and accountability mechanisms to implement and enforce the Environmental Protection Law and other legislation protecting health and the environment.

• Ensure that government officials do not have ownership or financial interests in industrial facilities under their direct supervision and strengthen monitoring of government officials to identify conflicts of interest.

• Devise a comprehensive environmental clean-up strategy for all lead contaminated areas in China.

• Provide citizens with environmental information in an accessible format that they are entitled to by law.

To the Ministry of Health at the National and Provincial Levels

• Use scientifically sound methods to designate the accurate area of risk for lead exposure and ensure all people within that area are offered free blood lead testing.

• Ensure that no one, regardless of residency or proximity to lead poisoning areas, is denied access to blood lead tests.

• Put in place quality control measures and oversight to ensure that each individual who is tested receives accurate test results.
• Provide evidence-based medical treatment and case management for lead poisoning to all in need, consistently across provinces.
• Work with the local government to ensure that all children receiving treatment are removed from the area of contamination.
• Ensure that all affected communities have access to information on lead poisoning.
• Devise a comprehensive public health strategy to tackle chronic lead exposure and its long-term consequences in China.

To the Ministry of Education at the National and Provincial Levels
• Ensure that all children who have developmental disabilities as a result of lead poisoning are able to access appropriate educational opportunities.

To the World Health Organization
• Provide technical expertise to the Chinese Center for Disease Control and Prevention to ensure accuracy of blood lead level testing.
• Work with the Ministry of Health to develop a comprehensive treatment plan for children and adults with elevated blood lead levels.

To Foreign Companies Sourcing Materials from China
• Ensure that materials originate from a factory with an environmental impact assessment and that is legally allowed to be operating through the following mechanisms:
  o Execution of a social and environmental review by a credible third party of source industrial facility operations.
  o Conduct site visits of source industrial facilities to ensure compliance with safeguards aimed to mitigate social and environmental risks.
• Ensure that allegations of hazardous conditions which local populations are exposed to are investigated and resolved.

To Governments and International Organizations Funding or Concerned about Health, Environment and Human Rights Issues in China, including the United States (US) Government and European Union
• Voice concern to the Chinese government about the severity and persistence of industrial pollution in China.
• Strongly condemn the arrests and detention of citizens exercising their legal rights by protesting industrial pollution and lead poisoning in China.
Methodology

Between the second half of 2009 and the first half of 2010, Human Rights Watch conducted research in villages in four different provinces: Henan, Hunan, Shaanxi, and Yunnan, as well as in Beijing and Shanghai.

China does not allow independent, impartial organizations to freely conduct research or monitor human rights abuses; as a result, conducting interviews and gathering credible information presents great challenges.

This report is based on interviews we conducted with 52 parents and grandparents whose children or grandchildren have lead poisoning. Some of the parents and grandparents work in lead processing factories and smelters. We also interviewed the family of a female factory worker who had died of lead poisoning in the previous six weeks and six children who have lead poisoning. In addition we interviewed five journalists who had reported on lead poisoning issues in China and both Chinese and international nongovernmental organization (NGO) workers with familiarity on pollution and lead poisoning in China.

Interviews were conducted in Chinese and English and no incentives were offered or provided to persons interviewed. All participants provided oral informed consent to participate and were assured anonymity. As a result, pseudonyms have been assigned to each individual interviewed and, where relevant, to their child or grandchild. Individuals were assured that they could end the interview at any time or decline to answer any questions, without any negative consequences. In addition to oral statements, some interviewees also gave Human Rights Watch copies of test results and health records. All participants were informed of the purpose of the interview, its voluntary nature, and the ways data would be collected and used.

Human Rights Watch also interviewed government officials in two provinces who were responsible for restricting access to villages where high levels of lead poisoning has occurred. For security reasons, names of villages and specific information on their locations are withheld. Because of security concerns, Human Rights Watch did not request interviews with central government officials.

1 Some parents gave us lab results showing elevated blood lead levels. Others reported that they had not been given actual results but had been told by medical workers that their child’s blood lead level was elevated.
Past and current environmental legislation, regulation, and policy documents in English and Chinese were reviewed, as well as scholarly articles from Western and Chinese journals of environmental health, the United Nations (UN), and US Centers for Disease Control and Prevention (CDC) health guidelines and Chinese Ministry of Health guidelines. In addition, researchers also reviewed local news reports of lead poisoning, environmental pollution, and environmental protests.

Human Rights Watch research in four provinces found similar trends in each government’s response to the local lead poisoning epidemic, and media and Chinese government reports support our findings. However, several limitations to our research should be considered. First, our research is based on interviews in only 4 of China’s 33 provinces. While the problem of pollution and lead poisoning is widespread, local responses may be different in provinces we did not visit. Second, because of security concerns, we were limited in our ability to interview government officials, including government health workers, and were not therefore able to reflect their perspectives on barriers to treatment and the limited scope of testing. While the Chinese GDP has grown rapidly in recent years, healthcare spending has lagged, and rural healthcare facilities are generally under resourced. The extent to which these facilities have failed to effectively respond to the lead crisis because of lack of financial resources or because of other causes is unknown.

In this report, the word “child” refers to anyone under the age of 18. The Convention on the Rights of the Child states, “For the purposes of the present Convention, a child means every human being below the age of eighteen years unless under the law applicable to the child, majority is attained earlier.”


I. Background

The Scope and Impact of Pollution in China

Since the late 1970s, China has achieved tremendous economic growth. With the second largest economy in the world, China is widely recognized as an economic superpower. In the past 15 years, the gross domestic product has increased ten-fold. China contributed one-third of global economic growth in 2004 and held 14 percent of the world economy on purchasing parity basis in 2005, second to the United States. The rapid economic growth has lifted millions out of poverty: according to the World Bank, the average income was US$293 in 1985 and $2,025 in 2006.

However, this unprecedented growth has come at a high environmental cost. Rapid development has triggered widespread industrial pollution. China has earned the notorious distinction of having 20 of the world’s 30 most polluted cities. Water, air, and soil pollution in China are dangerously widespread and are garnering international attention as a public health crisis both domestically and abroad.

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7 Ibid.
Contaminated drinking water kills 95,600 people per year in China.\(^{11}\) Approximately one-third of low-income households depend on surface water as the primary drinking source. Yet even after treatment, only half of China’s 200 major rivers and less than a quarter of its major lakes and reservoirs are considered suitable for human consumption.\(^{12}\) Widespread pollution exacerbates water scarcity by compelling communities and factories to rely on contaminated water sources.\(^{13}\) As a result, water scarcity quickly becomes a public health problem. For instance, water scarcity in northern China forced farmers to irrigate approximately 40,000 kilometers with waste water; consequently, crops and soil were contaminated with heavy metal pollutants such as lead and mercury.\(^{14}\) Water scarcity additionally contributes to the spread of diseases associated with microbial and industrial pollutants. Over 300 million people in China rely on hazardous water sources.\(^{15}\)

Industrial run off and disasters profoundly impact the safety of the water supply since the release of toxic chemicals can devastate an entire city; for example, Harbin, China’s tenth largest city, was left with no water for its four million residents after a chemical plant explosion in 2005. The city’s water system was shut down for four days as the accident led to the release of 100,000 kg of benzene, aniline, and other heavy metals into the water system.\(^{16}\)

In addition to severe water pollution, China has the world’s highest levels of air pollution\(^{17}\) and is the largest emitter of greenhouse gases in the world.\(^{18}\) The World Health Organization (WHO) reported that an estimated 656,000 Chinese citizens die of diseases triggered by indoor and outdoor air pollution per year,\(^{19}\) and the level of airborne particulate matter,


\(^{19}\) Ibid.
which includes ozone, nitrogen dioxide, and dust, in Chinese cities consistently violates WHO air quality guidelines.\(^{20}\) In 2004, the State Environmental Protection Agency (SEPA) conducted a routine monitoring of air quality in 360 cities, and results showed that 70 percent of urban areas failed to meet national ambient air quality standards.\(^{21}\)

Adverse health effects from air pollution include acute lower respiratory infections, lung cancer, and chronic obstructive pulmonary disease (COPD). Compounded by the high prevalence of smoking in China,\(^{22}\) COPD alone is responsible for one to three million deaths in China every year.\(^{23}\) Outdoor air pollution is caused by a variety of sources, including motor vehicle emissions, chemical combustion from industrial use, burning of agricultural waste and solid fuels, and use of coal as a primary energy source. Because coal provides 70 percent of China’s electricity, China has become one of the world’s largest emitters of sulphur dioxide, which in turn has increased occurrences of acid rain.\(^{24}\) The use of coal in China accounts for 25 percent of mercury and 12 percent of carbon dioxide emissions globally.\(^{25}\)

Heavy metal pollution is also widespread within China. Heavy metals are discharged as waste from various industries such as mining, chemical refineries, textile printing and dyeing, leather tanning, pesticides, animal feed manufacturing, electroplates, battery producers, and smelters, which are electrolytic plants that separate chemical concentrates into a pure form. Heavy metals commonly discharged through air or water pollution include arsenic, mercury, zinc, copper, nickel, chromium, manganese, cadmium, and lead. These elements are all found naturally in the environment. Trace amounts of arsenic, mercury, zinc, copper, manganese, chromium, and nickel in the human body are tolerable; however, overexposure results in adverse health effects.


Although these substances are naturally found within the environment, they may become extremely toxic to the ecosystem in high concentrations. Copper amounts above 0.0002 mg/L become toxic for fish in water and adversely affect other aquatic organisms. Copper toxicity also prevents the development of plants, negatively impacting the process of nutrient absorption and root growth. Chromium inhibits the water self-purification process and kills beneficial microorganisms in water. In animals, chromium may induce birth defects, weaken immune systems, and cause tumors. The accumulation of heavy metals in the soil has also been known to adversely affect plant growth. If heavy metals are prevalent in soil, then plants may absorb the chemicals and become contaminated as well, causing food safety issues.

The dangers of widespread pollution have been acknowledged at the highest levels of the Chinese government. Premier Wen Jiaobao summarized the grim challenges facing China: as of 2006, one-third of China was affected by acid rain, 90 percent of natural grasslands have deteriorated, and 1.74 million square kilometers had become desertified. Despite a rising GDP, Cheng Siwei, former vice chairman of the Standing Committee of the National People’s Congress, conceded in 2010 that the country has “paid heavy costs for all the environmental pollution, wasted resources and ecological deterioration.”

In an effort to address environmental degradation, the Chinese government has committed to what it calls “sustainably developed GDP” and has implemented plans to slow the growth of greenhouse gases. In expanding its environmental agenda, the government has rigorously developed and encouraged the use of green technologies. Yet despite the pledge to adopt greener policies and technologies, China still faces an enormous task in protecting health and cleaning up pollution sites while employing sustainable practices and technologies.

The Chinese government has also fined or shut down companies that operate illegally. According to government statistics, a total of 2,183 heavy metal companies were punished

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26 主要污染物排放量超过环境承载能力, 水、大气、土壤等污染日益严重, 固体废物、汽车尾气、持久性有机物等污染持续增加。流经城市的河段普遍遭到污染, 1 / 5 的城市空气污染严重, 1 / 3 的国土面积受到酸雨影响。全国水土流失面积 356 万平方公里, 沙化土地面积 17.4 万平方公里, 90 %以上的天然草原因化, 生物多样性减少。流经城市的河段普遍遭到污染, 1 / 5 的城市空气污染严重, 1 / 3 的国土面积受到酸雨影响。流经城市的河段普遍遭到污染, 1 / 5 的城市空气污染严重, 1 / 3 的国土面积受到酸雨影响。http://www.gov.cn/ldhd/2006-04/23/content_261716.htm (accessed November 4, 2010).


28 Ibid.


for illegal operations in 2009,\(^1\) and an additional 231 companies were shut down. In November 2010, the Ministry of Environmental Protection (MEP) issued a list of enterprises which violated national safety standards through unsafe heavy metal storage and disposal procedures, and the list typifies the kinds of violations which commonly occur among heavy-metal-related enterprises. Among these companies, illegal operations generally involved improper management and storage of hazardous waste, such as lead-containing slag, failure to implement preventative measures for the seepage of arsenic-containing residue into the environment, and failure to adhere to environmental impact assessments, such as the improper disposal of lead-containing sludge through rainwater channels.\(^2\) In rare instances, owners of hazardous factories may face criminal charges.\(^3\) However, liability for contaminated industrial sites is frequently disputed, with neither current nor former owners consistently held responsible. Even when hazardous facilities are shut down in response to environmental concerns, they may be re-opened with no changes in operation procedures.\(^4\)

In addition to large industrial facilities, small-scale heavy metal enterprises can pose a serious threat to the eco-system and public health.\(^5\) The township and village enterprise (TVE) sector, comprised of small-scale, private factories, emits 60 percent of China’s air and water pollution and employs more than 130 million rural workers.\(^6\) The TVE sector encompasses over 20 million small-scale factories scattered throughout the Chinese countryside, making these enterprises difficult to monitor and regulate.\(^7\) The TVE sector is less likely to use environmental mitigation technologies since they often lack access to significant capital. Although national regulations have successfully closed some of the worst

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\(^5\) Xiaoying Ma and Leonard Ortolano, Environmental Regulation in China: institutions, Enforcement and Compliance (Lanham: Rowman and Littlefield, 2000).


\(^7\) Ibid.
environmental offenders, the TVE sector remains a major threat to the environment and public health.\textsuperscript{38}

A study by the Ministry of Health and the Ministry of Agriculture surveyed the TVE sector in 30 sample counties in 15 provinces.\textsuperscript{39} Industries surveyed included textiles, chemical production, metal processing, construction material production, plastics manufacturing, coal mining, and electronic equipment production. It found that there was at least one occupational hazard to worker safety in 83 percent of the workplaces surveyed. Within the chemical industry, the study noted that 1,473 out of 1,553 enterprises had occupational risks, and in the electronic communication equipment manufacturing industry 414 out of 548 enterprises were also found to have occupational hazards.\textsuperscript{40} The study concluded that approximately one-third of all employees were exposed to those hazards.\textsuperscript{41}

In response to increasing cases of heavy metal pollution, the Ministry of Environmental Protection\textsuperscript{42} in August 2009 approved a draft of the Implementation Plan for the Comprehensive Handling of Heavy Metal Pollution, which set out to strengthen the regulatory system for heavy metal pollutants, bolster industrial structure reform, and establish an inspection and supervision system for the prevention of pollution.\textsuperscript{43} The MEP also announced a three-month nationwide campaign that would investigate enterprises

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\textsuperscript{38} Xiaoying Ma and Leonard Ortolano, \textit{Environmental Regulation in China: institutions, Enforcement and Compliance} (Lanham: Rowman and Littlefield, 2000).


\textsuperscript{40} Ibid.

\textsuperscript{41} Ibid.

\textsuperscript{42} In 2008, the State Environmental Protection Agency was upgraded to ministry status as the Ministry of Environmental Protection. As an independent ministry under the State Council, China’s highest organ of government, the MEP now has power to develop national policies and laws and formulate national environmental quality standards. However, the MEP has struggled to improve the environmental situation within China, despite increased executive power. Although SEPA had achieved significant environmental victories despite its lower status as an agency—such as launching successful crackdowns against enterprises that broke regulations and holding an unprecedented environmental public hearing—the MEP has not achieved many victories since its upgrade to ministry status. The primary triumph cited by the MEP is its success against water pollution. In 2009, Zhou Shengxian stated that China had “stopped water pollution worsening” according to the results of a national water pollution survey, yet the claim does not match pollution statistics. Despite 91 billion Yuan spent over a six year investment program to improve China’s three most polluted rivers and lakes, water quality remains substandard. For instance, water quality in Lake Taihu in eastern China has dropped by three grades. In the 1980s, the water quality was rated a grade two; today it is a grade five or worse. Other lakes, such as Lake Dian in the south west or Lake Chao in the east, have shrunk and are heavily contaminated from reclamation of land for agriculture and the construction of factories. The vice minister of environmental protection, Zhang Lijun, stated that sulphur dioxide and chemical oxygen demand levels were the two measures used to determine the amount of organic pollutants in surface water, citing that they both fell in 2008 and 2009. However, these two indicators alone are inadequate to understand the state of water quality in China.

which handle significant amounts of heavy metals.\textsuperscript{44} Locally, some municipal governments have been reported to offer free lead blood tests for children under 14 in response to the outcry over heavy metal pollution cases.\textsuperscript{45}

**Lead Poisoning in China**

Elevated lead levels damage the brain, kidneys, and blood cells, which may result in anemia, deficits in IQ, high blood pressure, coma, or death.\textsuperscript{46} However, the range of manifestations of lead poisoning may also mean that it can go unrecognized or confused with other disorders.\textsuperscript{47} While the US Centers for Disease Control and Prevention defines lead poisoning as any blood lead concentrations over 10 micrograms per deciliter, the World Health Organization considers lead in the blood unsafe at *any* level.\textsuperscript{48} Researchers have suggested that there is no blood lead level in which there are not cognitive effects, and each microgram per deciliter of blood lead concentration can be associated with a reduction in IQ of 0.25 points.\textsuperscript{49}

Childhood lead poisoning is among the most common pediatric health problems in China.\textsuperscript{50} Pregnant women and children are particularly vulnerable to lead poisoning. In pregnant women, lead poisoning can cause premature birth, low birth weight, or damage the fetus.\textsuperscript{51} Children are especially at risk for lead poisoning because they tend to absorb up to 50 percent of lead they are exposed to, compared to 10-15 percent for adults.\textsuperscript{52} Lead affects the development of a child’s nervous and digestive system, and virtually every organ in children

\textsuperscript{44} Ibid.
\textsuperscript{46} There is no threshold in which lead in the blood is considered safe. However, a blood lead level of 10 micrograms per deciliter of blood (10 μg/dL) is the level at which the World Health Organization and CDC recommend a public health actions be taken.
\textsuperscript{52} Ibid.
is susceptible to damage from lead poisoning. The propensity of infants and young children to explore the world through their mouths or play in what may be lead contaminated areas, increases their likelihood of ingesting or inhaling lead in dust and dirt.

In China, lead exposure may occur through a variety of sources such as lead-polluted air, paint, water, food, lead-painted toys, and stationery. Determining the overall extent of lead poisoning in China is difficult due to a lack of comprehensive data, but an increasing number of sources including academic and media reports suggest that lead poisoning is becoming a public health emergency, especially in heavy industrial areas. In a study published in 2004 of the blood lead levels of children in rural communities in Zhejiang province, the average blood lead level was 95 μg/dL, nearly ten times what the CDC defines as a safe level; children whose parents worked in potentially lead contaminated sites had BLLs greater than 100 μg/dL. A review of reports regarding lead poisoning in the Chinese medical literature between 1990 and 2005 found that the 2002 Occupational Diseases Prevention and Control Act had limited impact on either lead exposure or lead poisoning in China.

Even in non-industrial areas located away from heavy metal facilities, people were still found to have elevated blood lead levels. In 2004 in Chengdu, located in Sichuan province, 938 children under seven-years-old were tested for elevated blood lead levels; the average BLL was 63.88 μg/dL. The studies concluded that using formula rather than breast milk and living on the ground floor, in one story houses, or near the street were all considered major risk factors in exacerbating lead exposure.

In an attempt to provide an overall picture of the distribution of blood lead levels among children in China, researchers from the Peking University Health Science Center reviewed articles regarding children’s BLLs from 1994 to 2004. The study looked specifically at children living in sites far from industrial sources of lead pollution and found a BLL average of

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53 Ibid.
54 Ibid.
59 Ibid.
of 93 μg/dL; 34 percent of subjects possessed BLLs greater than 100 μg/dL. Children in Shaanxi were found to have the highest average BLL and highest prevalence of BLLs over 100 μg/dL (70.6 percent). After Shaanxi, provinces with the highest averages included Henan and Sichuan, following by Gansu, Hainan, Liaoning, Jilin, and Yunnan. Despite these cases of elevated blood levels in non-industrial and urban areas, China has not yet established a routine national blood lead surveillance system.

Social Unrest Due to Environmental Hazards at Home and in the Workplace

Chinese residents are increasingly participating in public protests, which the government refers to as “mass incidents”. Protests over pollution and occupational health and labor disputes are increasingly accounting for many of the more than 100,000 mass protests occurring each year in China.

As reported by Chinese media, the MEP acknowledged that in Shaanxi province alone in 2009, there were 32 public disturbances (起群体性事件). In addition, an average of 10 air and water contamination accidents nationally was reported per month in 2010. Environmental protests are largely in rural areas, and many are either quickly suppressed or censored. Any news of these incidents often emerges days or weeks later.

For instance in 2005, thousands of people rioted in the village of Huaxi in Zhejiang province after police officers attempted to stop elderly villagers from protesting the poor air quality and contaminated farmland due to a nearby factory’s pollution. Although the government temporarily suspended the factory’s operation after several weeks of protesting, villagers reported that the government eventually sent over 3,000 police officers in response to disperse the elderly women who continued to protest and the village erupted in violence. According to a local resident, the village had already sent representatives to file complaints.

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at the government petition offices in Zhejiang province and Beijing over the course of two years, with “no results.”

Although environment-related protests largely occur in rural areas, growing social unrest caused by environmental concerns has also risen among city dwellers and the middle class. In 2009 more than one thousand people protested the construction of a rubbish incinerator in a district in Guangzhou province. In 2008 hundreds in Chengdu, the capital of Sichuan province, protested against the construction of an ethylene and oil refinery in a neighboring city. Over 400 residents took part in the peaceful demonstration against the joint project between the Sichuan provincial government and PetroChina, a publicly traded subsidiary of the country’s main oil producer. In interviews, critics of the joint venture stated that the government had failed to perform proper environmental assessments and hold public hearings on the project.

In China the number of labor disputes due to occupational health hazards has also risen dramatically with a 16-fold increase from 1994 to 2006. Between 2004 and 2005, the number of labor-related protests rose from 87,000 to 127,000. In an effort to address occupational health hazards, the central government has launched investigations into workplace health and safety. During a nationwide campaign in 2002, authorities probed more than 48,000 enterprises and found that almost one quarter had violated laws on labor safety and occupational disease control. The Chinese government subsequently shut down or suspended production in more than 12,000 enterprises that failed to protect employees from toxic working conditions.

66 Ibid.
71 Human rights for the millions, by the China Labor Bulletin Labour Rights Litigation Program, China labor bulletin labor rights. [no date].
73 Ibid.
Access to Information and Environmental Protection

In an effort to ease public fears about industrial pollution, China has instituted legislation that calls for increased transparency of environmental pollution issues. In 2008 China passed the Environmental Information Measures, a law which requires environmental protection departments to disclose information such as environmental statistics, environmental investigative information, the allocation of total emission quotas of major pollutants and their implementation, the issuance of pollutant emission permits and importantly, lists of heavily polluting enterprises, enterprises that have caused serious environmental pollution accidents, and enterprises that refuse to enforce environmental administrative penalty decisions.\(^7\) Article 5 of the law explicitly states that citizens have the right to request environmental information from government departments as well.\(^5\) However, a recent survey performed by the US-based National Resource Defense Council and the Institute of Public & Environmental Affairs, a Chinese research institute, found that average compliance levels remained low despite the recent passage of the Environmental Information Measures.\(^6\) Of the 113 municipal environmental protection departments that were tested, only five were recognized for meeting information disclosure requirements.

In addition to the Environmental Information Measures, the Regulations of the People’s Republic of China on Open Government Information legally obligate local governments to disclose information that is “vital” to public interest. Articles 9-12 state that governments must disclose any information that “involves the vital interests of citizens, legal persons or other organizations” or is related to “important and major matters in urban and rural construction and management.”\(^7\) Article 5 further states, “Citizens, legal persons and other organizations may request environmental protection departments to obtain government environmental information.”\(^8\)

Despite these laws, the public continues to be blocked from accessing public information. For example, during the Heilongjiang Provincial government’s 2009 environmental emergency

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\(^5\) Ibid.


\(^8\) Ibid.
management work meeting, media outlets were invited to observe proceedings. However, as two journalists from Xinhua, the Chinese state media outlet, attempted to photograph internal documents listing polluting enterprises, a local official stopped them, saying that the information was “confidential.” He added that the current public information was “enough,” despite the fact that China’s transparency laws require environmental departments to disclose the information. Xinhua later ran an article asking, “How can it be that information meant to be disclosed and publicly supervised is kept confidential from the media and the public? Especially information regarding enterprises’ illegal discharge of pollutants – how can this ‘confidentiality’ protect the people’s right to know and right to supervise?”

II. Findings

I’m very worried about my son’s health, I’m very worried about my son’s future, but what can I do? The government ignores us.  
—Su, father of a nine-year-old boy with lead poisoning, Henan province, 2010

The villages that Human Rights Watch visited are mostly in rural areas, with villagers relying primarily on small scale agriculture for their livelihood. In one area of Hunan where Human Rights Watch carried out research, the manganese smelting factory that villagers believe is the cause of elevated blood lead levels is situated in the center of several villages. The surrounding areas are large tracts of land for farming. In Shaanxi, the factory rises up over multiple villages, with some homes bordering the factory. In Yunnan, there are small factories dotting the hillside as far as the eye can see with villages all around, on the side of the hill and in the valley. In Henan, where the area is more industrial, the lead factories are situated next to clusters of villages and near schools. All of these areas are poor and the factories are an important source of income for the villages.

In the area of Henan we visited, there are three large lead smelting factories that were in full operation. There are also dozens of smaller factories that we were told had been temporarily shut down because of pollution violations. In Hunan, the main factory in the area we visited was a manganese smelting factory; in Shaanxi it was a zinc and lead smelter. In Yunnan there were dozens of small factories of different types.

Although most of these factories are privately owned, many are connected to the local government in some way, which could present a conflict of interest. In Hunan, for example, the legal representative of the manganese smelter is also a city government official, serving on the National People’s Congress for Hunan province. In Henan one lead smelter is state-owned, while another, which is privately owned, has top local officials on its board, including the chairman of the City People’s Congress. In Shaanxi, local government

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81 The term “legal representative” (法人代表) is often used to denote an owner rather than a legal advisor.
83 Resume of the Chairman of the privately-owned smelter indicates that he is a high-profile local official in Henan, which is available at http://www.hngcc.org/news/News_View.jsp?NewsID=9871; more information about the state owned smelter can be found at http://y.model.china315.com/web/y/u/g/u/a/n/g/g/o/l/d/-/i/e/a/d/.
officials were instrumental in securing the construction of the lead and zinc smelter, even orchestrating forced evictions to ensure that there was a place for the factory to be built.84

In each province, the people we spoke with had common complaints: parents and grandparents caring for sick children told us that local governments had given them little or no information on lead poisoning, or they had denied its scope and severity, and had intimidated parents and journalists so they would not call for attention to be paid to their children and demand accountability for those responsible.

Human Rights Watch heard how children are turned away from hospitals, are denied access to testing for blood lead levels, and how test results are withheld or unreliable. Despite strong Chinese environmental laws, Human Rights Watch was told that polluting factories are rarely shut down, and when they are, they often quickly re-open with no apparent change in their operations. Human Rights Watch was told that local police and government officials harass and intimidate, and even arrest, many of those who complain, and when journalists investigate these issues they are told that access to highly contaminated regions is restricted. When Human Rights Watch researchers spoke with government officials in two provinces, we were also told that these areas are off-limits.

Testing Practices

I want to know how sick my son is, but I can’t trust the local test results.
—Dan, mother of a three-year-old with lead poisoning, Hunan province, 201085

In each area visited in Henan, Shaanxi, Hunan, and Yunnan the local governments provided free testing for lead poisoning to children under the age of 14 who local authorities designated to be at high risk for lead poisoning.86 Testing took place at local hospitals and local Chinese Center for Disease Control and Prevention clinics.87 However, according to all the parents we spoke with, families in these high-risk areas were not informed by medical or government workers that the testing sites had been set up; rather people found out about the testing by word of mouth.

86 In general, children whose village was within one kilometer were considered “at risk” and received free testing. However the criteria for receiving free testing was not consistent across regions.
87 Blood lead testing for lead poisoning is a simple, inexpensive blood test. The results can be ready almost immediately.
Restricted Testing

Evaluating a population’s exposure to lead is an extremely complex process as there are numerous pathways for lead exposure, including via air, water, food, and soil, and the harm that lead in environmental sources can cause is dependent on more than just the concentration of lead. While the exact risk of exposure cannot be precisely measured, the best estimates require monitoring of both blood lead levels and environmental sources of lead and take into consideration factors other than distance from a polluting source. The Chinese government’s designation of testing areas, such as one kilometer from the largest smokestack, are arbitrary and do not reflect the actual area of risk.

Although blood lead testing was available in Henan, Shaanxi, Hunan, and Yunnan, parents and grandparents reported that local government officials had placed arbitrary restrictions, beyond age restraints, on who could be tested. In Henan, the local government mandated that only children from villages that are within one kilometer of the largest smokestack in the nearest factory could be tested. Children who did not fall within these areas were unable to access the free government testing, and in many cases they were prevented from being tested at all, even if the parents were willing to pay for the testing themselves.

One woman, Yan, explained:

Quote: Officially our village is four kilometers from the factory but I had heard that some neighbors had found out that their children had lead poisoning. I went to the testing center but the government said they wouldn’t test my son because our village is not within one kilometer of the factory. I brought a complaint to the Office of Letters and Visits but they said the rule is that they will only test people within one kilometer. I took my son to a different city to get tested and his lead level was 32.9 μg/dL.

A man, Liu, from a different village in Henan, where palpable heavy pollution made the air thick and hard to breathe told Human Rights Watch:

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89 Human Rights Watch interviews with multiple families, Henan, 2010.
90 The Office of Letters and Visits is the official bureau for protest and complaint in China, where people go to seek help or redress.
Our village is not within the government’s one kilometer line, but when it turned out that children in other villages had lead poisoning we wanted to find out if our children also had lead poisoning. There were 56 children in total who needed to get testing. About half of them went, this was early on, and almost all of them showed serious lead poisoning. But then when we wanted to bring in the second group the government wouldn’t test them. They kept making up excuses, like the testing machines were broken. When my son got tested in a different city his level was over 40 μg/dL. All the children who got tested in the second group had lead poisoning and really high lead levels.92

Several people from different villages in Henan explained that at the beginning of the local lead poisoning epidemic, children who lived outside of the one kilometer zone could be tested, but according to several accounts, the local government started adding more restrictions and the local hospital began refusing to test people as the extent of the lead poisoning became clear.

A man named Su in Henan told us:

We don’t live in the one kilometer zone, but my son was very sick so the doctor suggested a lead test. I had to pay for it myself, and his result was high, 35.6 μg/dL. This was early on, and we’re lucky because now the hospital won’t do tests for children who live outside the one kilometer mark, even if the parents pay out of pocket.93

One woman, in Henan, whose six-year-old child had a lead level of 20 μg/dL explained:

At the beginning, some children in this village had free tests. But then as other people heard about lead poisoning and wanted to have their children tested, it wasn’t free anymore. Now it’s hard to have your child tested at all.94

In Shaanxi, where heavy pollution extends far beyond the government’s designated lead-testing area, parents told Human Rights Watch that only children in the villages right next to the factory could be tested. According to one grandmother, “the way the government is doing testing is excluding many children who need help.”95

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95 Human Rights Watch interview with Bao, Shaanxi, 2010.
Both the Convention on the Rights of the Child, which China ratified in 1992, and the International Covenant on Economic, Social and Cultural Rights (ICESCR), which China ratified in 2001, guarantee the right to the highest attainable standard of health. The UN Committee on Economic, Social and Cultural Rights (CESCR), which oversees states compliance with the ICESCR clarified in its General Comment 14 on the Right to Health, that states are obligated to “[refrain] from denying or limiting equal access for all persons...to preventative...and curative health...” The CESCR has also clarified that a core obligation of the right to health is: “To provide education and access to information concerning the main health problems in the community, including methods of preventing and controlling them.”

The government’s refusal to provide access to testing for all children affected by lead poisoning constitutes a violation of the right to health.

**Witholding of Test Results**

Even parents who were able to access testing for their children reported difficulties in obtaining the results of the tests conducted. Many parents in Yunnan and Shaanxi reported that test results from their children’s lead tests were withheld completely. Some parents in Yunnan and Shaanxi told Human Rights Watch that they never saw any test results. Others were allowed to see the results from initial testing but were prevented from seeing the results from follow-up testing.

Several of the parents Human Rights Watch spoke to in Yunnan said that medical workers told them that their child had a slightly elevated level and that the parents should give them extra milk and vegetables. Those parents told Human Rights Watch that attempts to get the actual results from medical workers were refused.

In Yunnan one woman explained:

> All of the children in this village got free testing paid for by the government. The doctor told us that that some of the results were a little bit higher than

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98 Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 44(d).
normal and they should drink more milk. They wouldn’t give us the results; they just told us to give the children milk.99

Parents in Yunnan reported they were told that follow up tests were “normal” although they were never allowed to see the result themselves. One mother told us:

The doctor told us all the children in this village have lead poisoning. Then they told us a few months later that all the children are healthy. They wouldn’t let us see the results from the tests though.100

According to a grandmother named Bao who Human Rights Watch spoke to in Shaanxi, attempts to access the results of her four-year-old granddaughter’s follow-up lead test were unsuccessful. She said:

Her first test, done at the hospital in our local town was 18 μg/dL. We went back for another test, which we had to pay for ourselves. The doctor said her results were fine. We didn’t believe him so we asked to see the results but he wouldn’t give them and just said the results were fine. We don’t have any power to force him to give them to us so we don’t know what her true result is now.101

A man, Dong, who lives in Shaanxi across the street from the smelter, told Human Rights Watch:

The first time my grandson got tested his result was 30 μg/dL. When he had a second test a few weeks later the doctors said he was normal. We didn’t believe that could be right, so we brought him in a third time and they still said it was normal. But they refused to let us see the actual results.102

An international NGO working on environmental issues in China told Human Rights Watch that the local CCDC clinics did blood lead testing on communities across China without informing people that they were doing lead tests. According to this NGO, the CCDC clinics did not tell people even when the tests showed that people had lead poisoning.103

99 Human Rights Watch interview with Feng, Yunnan 2010.
100 Human Rights Watch interview with Tan, Yunnan, 2010.
103 Human Rights Watch interview with international NGO staff member, Beijing, 2009.
A professor at a Chinese university who works closely on these issues suggested that the reason the CCDC does not inform people of their results is because they do not have the infrastructure to treat everyone with lead poisoning, and they also do not have the resources to relocate the families who are living in a toxic environment.104

Discrepancies in Test Results

In villages in Henan, Yunnan, Hunan, and Shaanxi, parents told Human Rights Watch they are afraid the blood lead test results provided by health workers are incorrect. In a number of cases, those parents had their child tested again by a hospital or a CCDC clinic in a different area. In each case reported to Human Rights Watch, the second test revealed far higher levels of lead in the blood, and parents were gravely concerned that the first test result had been deliberately altered and falsified so that it seemed as if the child’s health was either not at risk or at lower levels of risk.

In Henan, parents told us that at first when the government started testing children in 2009 all the children had very high levels. After a few months, in which there had been consistent results of high blood lead levels indicating that lead poisoning was a big problem in the area, children being tested for the first time started to receive test results indicating much lower levels. This was despite the fact that the factories were still operating as normal and there had been no other changes to the environment or treatment offered to the children. According to parents in Henan and Shaanxi, authorities offered no explanation for the suddenly lower level results. According to many parents we spoke to, suspicion about false results led parents to bring their children to towns outside the contaminated area for testing. In every case these results were much higher than the results that the local hospital or CCDC clinic had provided.

In Henan, a father tearfully described the experience of his daughter, Rong, who was 10-years-old when she was tested for lead poisoning. According to his account, Rong received government sponsored free testing. He went on to say:

She was very thin and not eating and had trouble sleeping. When she got tested her level was over the normal limit, but it wasn’t very high. It was 14.8 μg/dL. We didn’t think that test result could be right, and we had heard of other children being given results that were false, so we took her to another place to be tested. The result of the second test was 25.4 μg/dL. These tests

were on the same day! The government doesn’t want to have to give us anything so they make up the results.\textsuperscript{105}

A mother told Human Rights Watch about her son who is four-years-old and had been losing weight and frequently had a fever. She said:

He had been feeling sick for a long time and we didn’t know what was wrong with him. In August, when a lot of children were having tests for lead poisoning we took him to the doctor to do the test. His result was 8 $\mu$g/dL. In September we took him to a different town to do another lead test. His result was 22 $\mu$g/dL.\textsuperscript{106}

The parents of a five-year-old girl, Peng told Human Rights Watch that their daughter had been tested for lead poisoning at the local CCDC clinic in September 2009. They were very worried about her health and thought the result of her lead test, which was 15.2 $\mu$g/dL, was not right. According to her parents, Peng had not been eating, had lost a significant amount of weight and frequently had fevers. Her father told Human Rights Watch:

We want to take her to the doctor, we want her to have another test, we want her to get better. But we don’t have any money to pay for the test or the doctor. We’re very worried about her, but what can we do?\textsuperscript{107}

The mother of a 10-year-old girl from Henan province had a similar experience. At the local CCDC clinic where Xuxu had the government-sponsored test, her result was 25.5 $\mu$g/dL. Her mother said:

My daughter is not well. She is really skinny, she doesn’t eat and she doesn’t study well. I took her to the doctor in a different town a few weeks later and they did another lead test. Her result was over 40 $\mu$g/dL.\textsuperscript{108}

Wei, the mother of a five-year old girl, said:

\textsuperscript{105} Human Rights Watch interview with Zhen, Henan, 2010.  
\textsuperscript{106} Human Rights Watch interview with Kang, Henan, 2010.  
\textsuperscript{107} Human Rights Watch interview with Lin, Henan, 2010.  
\textsuperscript{108} Human Rights Watch interview with Xue, Henan, 2010.
We are really worried about our daughter. They said the result of her lead test was 16 μg/dL but we don't believe it. She doesn't eat, her stomach hurts all the time and she gets fevers easily. We don't have any money to take her to the doctor.\textsuperscript{109}

Purposely withholding tests results violates the right to health. Any efforts to manipulate test outcomes, to alter, or to deliberately falsify test results would be an even more egregious violation. At a minimum as a matter of basic accountability, when there is an inexplicable change in the outcome of testing that has direct health implications, not attributable to an identifiable change of circumstance or specific intervention, the authorities should provide a plausible explanation for the difference. The CESCR specifically states that “the deliberate withholding or misrepresentation of information vital to health protection or treatment” is a violation of the right to health.\textsuperscript{110}

**Access to Medical Treatment**

My children are sick but we didn’t get any medicine. ‘Just drink milk,’ they tell us.
—Peng, mother of a boy with lead poisoning, Henan, 2010\textsuperscript{111}

The US Centers for Disease Control and Prevention lays out guidelines for the treatment of children with elevated blood lead levels. According to these guidelines, when the blood lead level is 10 μg/dL and above, the nutritional and environmental interventions should include reducing the lead hazard and eating foods with calcium and iron. For children who have blood lead levels persistently between 15 μg/dL and 44 μg/dL, the CDC also recommends extensive lab work, lead hazard reduction, neurodevelopment monitoring, environmental investigation and follow-up blood monitoring. For levels above 44 μg/dL, it additionally suggests chelation therapy, a process usually requiring a lengthy hospitalization when a medication is taken that binds to the lead, which is removed from the body in urine. The CDC stresses the necessity of medical supervision and follow-up testing in all interventions.\textsuperscript{112}

In Shaanxi, Hunan, Henan, and Yunnan provinces, there is no standardized treatment for lead poisoning. There was widespread confusion among all parents we interviewed about what kind of treatment, if any, is appropriate for lead poisoning.

\textsuperscript{109} Human Rights Watch interview with Wei, Henan, 2010.

\textsuperscript{110} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 50.

\textsuperscript{111} Human Rights Watch interview with Peng, Henan, 2010.

There is also confusion at the national level. National Ministry of Health guidelines for lead poisoning state that only children under six in higher risk areas should be tested, since, according their guidelines, the number of children in China with levels of 20 $\mu$g/dL or higher has decreased in recent years.\textsuperscript{113} Not only does this claim run counter to indications that lead poisoning is on the rise in China, the Ministry of Health defines unsafe levels of lead in children at 10 $\mu$g/dL and above, not 20 $\mu$g/dL or higher. The World Health Organization also identifies a lead level of 10 $\mu$g/dL and above as detrimental to physical and mental health.\textsuperscript{114} At that level the CDC recommends environmental and nutritional interventions.\textsuperscript{115}

\textit{Provision of Inappropriate, Inadequate, and Inconsistent Treatment}

The most common response we received when we asked about treatment was that parents were told to give their children more of any number of food items. According to parents in Shaanxi, medical workers and government officials told them to give their children apples and garlic.\textsuperscript{116} In Henan and Yunnan, parents told Human Rights Watch that they were instructed to give their children milk.\textsuperscript{117} However, even the provision of this nutritional treatment was not applied consistently. In no interviews with parents or children did we find the treatment they said their children had received for lead poisoning to be consistent with international standards and best practices.

A small number of parents told us that their children had been given some medicine, although it was unclear what medicine had been administered. While exposure was constant, almost always these “treatments” were sporadic.

A grandmother in Shaanxi, Zheng, whose grandson has lead poisoning, said:

\begin{quote}
The government gave us some garlic and told us to give our grandson extra garlic. We asked about medicine, something to make him better. They said they wouldn’t give us any because medicine for lead poisoning doesn’t work.\textsuperscript{118}
\end{quote}

\begin{flushright}
\textsuperscript{113}卫生部关于印发《儿童高铅血症和铅中毒预防指南》及《儿童高铅血症和铅中毒分级和处理原则（试行）》的通知.
\textsuperscript{116} Human Rights Watch interview with multiple families, Shaanxi, 2010.
\textsuperscript{117} Human Rights Watch interview with multiple families, Henan and Yunnan, 2010.
\textsuperscript{118} Human Rights Watch interview with Zheng, Shaanxi, 2010.
\end{flushright}
In Shaanxi a grandfather showed us a box of medicine that local officials had given his grandson. He told Human Rights Watch:

We were given some medication by local officials to give to our grandson. We don’t know what it is but we had him take it for a month until the supply ran out and so he stopped taking it. Then a few months later they brought another box of it. We don’t know when or if they’ll bring more.119

In Henan, according to some parents we spoke to, only children under six-years-old were to receive any kind of treatment. Others said they did not understand the criteria that determined who received what or why the treatment would improve their children’s health condition.

A grandmother of two children with lead poisoning in Henan told Human Rights Watch that the local government had provided milk for her nine-year-old grandson, not for her one-year-old granddaughter. She said:

There was milk provided for my grandson but not my granddaughter. I don’t know why. I asked them but they didn’t have an answer.120

Parents in Henan told us that they did not know why they would get a box of milk one day and then not another for a long period of time, sometimes as long as three months. One father, Su, spoke of his experience trying to get treatment for his son:

My son has a high lead level and is sick all the time. The government is not giving us any help or medication. I went to see a doctor in Zhengzhou [the provincial capital] and he told me to get a certain medication, which I did. It’s really expensive, 1000 RMB ($150) for four months, and said my son should take it for a year. We really can’t afford it but we borrowed money and bought the medication. It has been four months and there is no change in my son’s health. I wish they would just close the factory.121

Some parents in Hunan and Henan told Human Rights Watch that their children had been hospitalized to be treated for lead poisoning.122 According to guidelines put out by a local

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120 Human Rights Watch interview with Xu, Henan, 2010.
hospital in Henan, any child with a blood lead level over 25 μg/dL should be hospitalized.\textsuperscript{123} However, the guidelines give no indication of what kind of treatment the hospitalized children will receive. In Henan we spoke to several parents whose children had been hospitalized. One woman told us:

First my daughter was tested and her result was 25 μg/dL. But then she was tested again and it was over 40 μg/dL. They told us to bring her to the hospital and we did. She stayed there for a week. They said they gave her medicine but we don’t know if they actually did or what kind of medicine they gave her. When she came home they told us to give her more milk but we don’t know why. She doesn’t seem any better.\textsuperscript{124}

According to a father in Henan:

The local government told us that any children who had a blood lead level of over 40 would be hospitalized. They did not tell us what kind of treatment they would receive. My one-and-a-half-year-old had a high level so we brought her to the hospital. But there they did not give her any treatment and moved her to a hotel where there were other children with lead poisoning. We found out that a provincial level official came to town and our local officials wanted to hide these children! They kept them at the hotel for a month. My daughter was never given any treatment.\textsuperscript{125}

The lack of clear information about lead poisoning and treatment caused some people not to seek help. A grandmother we spoke to in Henan who has a young granddaughter with a very high blood lead level told us:

A local official said my granddaughter should be taken to the hospital for treatment. But she wasn’t even one-year-old at that time and I was afraid of what they would do to her. The official didn’t explain to me what the treatment was so I didn’t bring her. They never came back to talk about it again.\textsuperscript{126}

\textsuperscript{123}《铅超标防治宣传手册》[Brochure for Prevention and Treatment of Excessive Lead and Lead Poisoning] published by 济源市第二人民医院 [Jiyuan Second People’s Hospital], October 2009.

\textsuperscript{124} Human Rights Watch interview with Xue, Henan, 2010.

\textsuperscript{125} Human Rights Watch interview with Sun, Henan, 2010.

\textsuperscript{126} Human Rights Watch Interview with Xu, Henan, 2010.
Some parents in Henan reported that local officials had told them to give their children nutritional supplements. Yet parents said they did not have the financial resources to provide these to their children on their own, nor were they clear about the purpose of the supplements.

In Shaanxi, Henan, and Yunnan, when Human Rights Watch conducted interviews, the factories, believed to be the cause of widespread lead poisoning, were continuing to operate, even while the local governments were dispensing “treatment.” In Hunan, the factory had been temporarily shut down, but parents were concerned that it was already operating at night and would re-open fully in the future.

Treatment guidelines for lead poisoning from the CDC and WHO specify that any treatment should be undertaken in a “lead-free environment,” and the CDC guidelines say that the “single most important factor in managing of childhood lead poisoning is reducing the child’s exposure to lead.” The CDC guidelines go on to say that, “Children should NEVER be discharged from the hospital UNTIL THEY CAN GO TO A LEAD-FREE ENVIRONMENT” (emphasis in original).

According to experts from the US Centers for Disease Control and Prevention: “there is no evidence that chelation can prevent adverse developmental and intellectual outcomes in children who continue to be exposed to very high environmental lead concentrations.” A team of specialists from Britain’s National Health Service confirm:

> There is a risk that chronically poisoned children who receive chelation therapy then return to a high-lead environment soon afterwards while their blood lead concentrations are still high, could be at risk of acute lead toxicity.

Chinese guidelines recommend chelation therapy at a blood lead level of 45 μg/dL or higher. While Chinese national guidelines on lead poisoning treatment released by the Chinese Ministry of Health do not explicitly say that a child with lead poisoning should be removed from the area of contamination, they note the importance of identifying the source of the lead.

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128 Ibid., Chapter 7.


lead poisoning and say that no oral medication for lead poisoning should be taken while there is continued exposure.\textsuperscript{131}

\textit{Denial of Treatment}

One consequence of the denial of testing for lead poisoning, the withholding of test results, or the provision of inaccurate results, is the denial of treatment and financial compensation to children with acute lead poisoning.\textsuperscript{132} Children and adults who were excluded from the official testing program because of age or geographic restrictions but who tested positive for lead poisoning in other cities were also refused treatment where they live.\textsuperscript{133} While removing the lead hazard is the most critical step towards treatment, children who are still exposed to lead can benefit from certain nutritional supplements and other interventions.

In Henan, in cases where parents were denied treatment at the local hospital or CCDC clinic and took their children to other areas for testing, they reported that even when they showed the local government the results of the lead test, the government refused to give them the compensation offered to children within the one kilometer range. A mother, Yan, who took her son to a nearby town for testing after the local CCDC clinic refused to test him, told us:

\begin{quote}
The result of my son’s lead test was 32.9 g/dL.\textsuperscript{134} We showed our local officials that our son’s lead level was way over the safe level and that he should receive extra food and compensation from the government like other children who were tested. But they refused to give us anything because we are not within one kilometer. We’ve gone to complain a few times but we won’t anymore. We are afraid to make the local officials angry. There is nothing we can do now for our son.\textsuperscript{135}
\end{quote}

A man, Liu, took two groups of children from the same village to be tested for lead poisoning. The first group was tested locally, but the second group was refused testing and Liu had to

\begin{footnotes}
\item[131] 卫生部关于印发《儿童高铅血症和铅中毒预防指南》及《儿童高铅血症和铅中毒分级和处理原则（试行）》的通知
\item[132] While denial of treatment and financial compensation is a consequence of the denial of testing, some parents speculated that denial of treatment and financial compensation could also be a reason for the denial of testing. In other words, according to some parents, the government refused to test children so they would not be held accountable to provide treatment or financial compensation to children with lead poisoning.
\item[133] Human Rights Watch interviews with multiple families, Henan, 2010.
\item[134] In China the measurement for blood lead level is micrograms per liter. The WHO uses the measurement of micrograms per deciliter. For this report blood lead levels will be notated as micrograms per deciliter (g/dL).
\item[135] Human Rights Watch interview with Yan, Henan, 2010.
\end{footnotes}
take them to a different town for testing. Liu told Human Rights Watch that the children in the first group who were tested locally and had lead poisoning received milk and a small amount of monetary compensation from the local government. The children in the second group, who were refused testing locally, were denied compensation when they brought evidence of their high blood levels to officials.136

The father of a ten-year-old girl, Rong, told Human Rights Watch how she had two lead tests on the same day, one at the local CCDC clinic and one in a town further away. The result from her free at the local CCDC clinic, 14.8 μg/dL was much lower than the one at nearby town, which was 25.4 μg/dL. Rong’s father explained:

To get compensation from the government or to receive free milk and garlic, a child had to have a lead level over 25 μg/dL. Even though her other test result was high, Rong’s free government test was under the 25 μg/dL mark, so she did not receive any milk and we did not receive any compensation.

A woman in Henan, whose one-and-a-half-year-old son had very high levels of lead, said that because they had not been within the official testing zone her son was refused treatment:

My son is in poor health. He doesn’t eat, he can’t sleep, and he gets sick really easily. He can’t talk at all and can’t walk. We know his development has been affected by the lead poisoning. We have not been given any lead poisoning medication or any other kinds of help. We haven’t gotten anything at all from the government.137

A mother in Henan told us that her son could not receive treatment because her family members are migrants and their residence permit is from a different part of the province. She said:

We are living within the one kilometer mark and my son got tested for free. His test was high, over 40 μg/dL. He’s sick, he doesn’t eat and he’s lost so much weight. But they wouldn’t give him any medicine because his residence permit is not from here.138

As a party to the ICESCR, China is obligated to ensure that access to health facilities is available on a non-discriminatory basis, including on the basis of social origin. However, many of China’s domestic migrant workers who are employed in parts of the country other than the province of their residence permit are denied access to health care. This practice violates the Chinese government’s obligations to ensure non-discriminatory access to available health care.

**Protection from Re-exposure**

When Human Rights Watch visited Henan, Shaanxi, and Yunnan, the factories surrounding the villages were still in operation. In Hunan, although the factory in the middle of the villages had been officially closed, villagers told us they were suspicious that the factory was already operating at night. The majority of families we interviewed said they could not move away from the factories because they lacked the financial means to do so. People were clearly angry that the factories had not been closed (or had been closed and then re-opened), but there was a lack of understanding about the extent to which staying in the polluted areas would continue to be harmful to their children, even if the children were on “treatment.”

Human Rights Watch interviewed a grandmother in Henan, who lives close to a lead processing plant. Her grandchildren, who live with her, both have lead poisoning, the six-year-old granddaughter having a lead level over 30 μg/dL. The grandmother told us: “The government has given us milk but not any information about lead poisoning.”

In Henan a father to a girl with lead poisoning told us:

> The factory should be closed. We have lived here for years and the factory is newer. We are worried about our daughter but we have no ability to move. What can we do?

A mother in Hunan, whose three-year-old has a lead level of over 30 μg/dL said:

> My son is sick, always has a cold and a temperature, he doesn’t eat much anymore. He’s not taking any medicine. My only hope is that the factory will

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139 *Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 34.*


141 In some cases treatment is defined as food supplements, such as garlic and milk.


not re-open because there’s nothing I can do for his health. Maybe if he lives
in a cleaner environment he will get better.\textsuperscript{144}

In Henan, some children in villages where officials acknowledged the lead poisoning were
moved to new schools, ostensibly away from the toxicity of their village. But parents told
Human Rights Watch that the new schools were not safer. A grandfather said:

The new school is not safe! The only difference is that the government has
not tested the children in this area so they can claim there is not a problem.
But children from this area who already go to the school have been tested in
other places and have high levels too. One child whose parents I know had a
level of lead of over 30 \(\mu\text{g/dL}\). How is that safe?\textsuperscript{145}

Parents and grandparents were distraught over temporary relocation in Shaanxi as well,
where the factory is still in operation. One parent told us:

Our children are bused to a school in the town, so that they are not going to
school in the pollution. But they still live here, sleep here, and eat this food. And
the factory has been re-opened and is still polluting everything. If the government
really wanted to help our children they would shut the factory down.\textsuperscript{146}

China’s Law for the Protection of Minors requires schools and departments of health to
provide children with “the necessary hygienic and healthcare conditions and make efforts to
prevent diseases.”\textsuperscript{147} Moreover, the law stipulates that: “Schools, kindergartens and
nurseries may not conduct education or teaching among minors in such school buildings or
places or with such facilities as are dangerous to their personal safety or health.”\textsuperscript{148}

The Convention on the Rights of the Child requires states to take appropriate measures to
combat disease and malnutrition through the provision of “clean drinking water, taking into
consideration the dangers and risks of environmental pollution.”\textsuperscript{149}

\textsuperscript{144} Human Rights Watch interview with Dan, Hunan, 2010.
\textsuperscript{145} Human Rights Watch interview with Hong, Henan, 2010.
\textsuperscript{146} Human Rights Watch interview with Ceng, Shaanxi, 2010.
\textsuperscript{147} LPM, art. 44.
\textsuperscript{148} LPM, art. 22.
\textsuperscript{149} CRC, art. 24(2)(c).
Article 25 of the Universal Declaration of Human Rights states that:

Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care...\textsuperscript{150}

Article 12 of the International Covenant on Economic, Social and Cultural Rights, which obligates states to provide for the health of its citizens, also implicates the right to a healthy environment. The Committee on Economic, Social and Cultural Rights has clarified that the right to health imposes on states:

The requirement to ensure an adequate supply of safe and potable water and basic sanitation; the prevention and reduction of the population’s exposure to harmful chemicals or other detrimental environmental conditions that directly or indirectly impact upon human health.\textsuperscript{151}

Access to Information

Is it safe for my grandchildren to be living so near the lead factory?
—Xu, Grandmother of children with lead poisoning, Henan, 2010\textsuperscript{152}

Withholding of Information

In Hunan, Henan, Shaanxi, and Yunnan, parents told Human Rights Watch that they found out that the local factories were polluting at toxic levels only when they realized that children were getting sick. Parents in each place told Human Rights Watch they received no information about the factories, the pollution, health risks associated with the pollution, including any risk of lead poisoning, or about the medical consequences of lead poisoning.

In addition to not being able to obtain test results for lead poisoning, parents in Hunan, Henan, Yunnan, and Shaanxi routinely told Human Rights Watch they had not received information about what lead poisoning is, its impact, or its treatment. Almost none of the parents and grandparents we interviewed had an understanding of what lead poisoning is. Although many of their children have blood lead levels that are considered dangerously high,

\textsuperscript{150} UDHR, art. 25.
\textsuperscript{151} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 14.
\textsuperscript{152} Human Rights Watch interview with Xu, Henan, 2010.
neither the local health workers nor government officials had explained the health consequences of lead poisoning and how to prevent it.

In the shadow of a lead processing factory in Henan, Human Rights Watch spoke to the grandmother (who is the primary caretaker) of a one-year-old girl, who, at the age of nine-months, had a lead level of over 40 μg/dL. She said:

I know that 40 μg/dL is above the normal standard. I don’t know what that means. During Chinese New Year we got some extra milk for my grandson from the government, but they didn’t tell us anything about what lead poisoning is or where it comes from.\(^{153}\)

In the villages we visited in Henan, Yunnan, Shaanxi, and Hunan, parents had not received any information on the kinds of health consequences caused by lead poisoning. Although many reported that their children were not well, could not eat or hold down food, or had a constant low-grade cold, none of them had been told at any point the symptoms and health consequences of lead poisoning. Even parents whose children were receiving treatment were uninformed when it came to the basics of lead poisoning.

In Yunnan, parents of children with lead poisoning uniformly told Human Rights Watch that no information on lead poisoning had been provided. One mother, Lei, told us:

The local government said that all the children in this village were tested and that they have a little bit of lead poisoning and they should eat more apples and drink milk. But I don’t understand, are our children still sick? No one will answer our questions.\(^{154}\)

In Henan, Human Rights Watch asked a medical worker in a hospital for information about lead poisoning treatment. She produced a booklet. We asked if every family affected by lead poisoning was given the booklet. She said: “These books are not widely distributed. If people want to know more information about treatment they can look on the Ministry of Health website.”\(^{155}\)

\(^{153}\) Ibid.

\(^{154}\) Human Rights Watch interview with Lei, Yunnan, 2010.

\(^{155}\) Human Rights Watch interview with a medical worker, Henan, 2010.
The vast majority of families affected by industrial pollution and lead poisoning in the areas we visited have no access to the internet or a computer; some grandparents charged with their grandchildren's care are illiterate.

While information about lead poisoning is not disseminated in communities that are affected or given to parents whose children are at risk or have high blood lead levels, the Ministry of Health does have detailed information about lead poisoning on its website. The guidelines specify that health workers should educate parents on lead poisoning, including the health consequences. But rather than focusing on removing the lead hazard, the treatment guidelines emphasize children's sanitation and indicate that lead poisoning can be avoided by children washing their hands and cleaning under their fingernails.156

Chinese laws, such as the Measure on Open Government Information, state clearly that citizens should have access to government information on environmental issues. The 2009 National Human Rights Action Plan reiterates the Chinese government's commitment to citizens' “right to be informed,” the goal is to “improve relevant laws and regulations so as to guarantee citizens’ right of information.”157 The right to be informed reads:

The state will release information on natural disasters, emergencies and production safety accidents in a timely manner and accurate manner, and in accordance with the law, and publicize timely the results of investigation and handling of serious or exceptionally serious production safety accidents.158

The 2008 Measures on Open Environmental Information expand the breadth of information to be released by the government, focusing specifically on information relating to environmental issues. Article 1 of the Measures states that these regulations are intended, in part, to “maintain the rights and interests of citizens” and to “promote the public’s involvement in environmental protection.”159

156《儿童高铅血症和铅中毒预防指南》[Guidelines for Prevention of Children's High Blood Lead Level and Lead Poisoning]及《儿童高铅血症和铅中毒分级和处理原则（试行）》[Diagnosis and Treatment Principles for Children’s High Blood Lead Level and Lead Poisoning].
158Ibid.
The Human Rights Action Plan, as well as the Measures on Environmental Information, clearly put the burden of disclosure on the Chinese government, indicating that the government is responsible for actively informing citizens when there is an accident or a mass pollution incident. The fact that the burden of disclosure is on the government is especially important to protect those most susceptible to industrial pollution and lead poisoning including rural populations who are already socially marginalized and vulnerable.

One aspect of this public participation guaranteed in the Measures is that citizen complaints posted on Environmental Protection Bureau websites will be made public and the ensuing investigation and results will be posted on the website as well. In the polluted area we visited in Hunan, a group of villagers had made a written complaint on the local Environmental Protection Bureau website. The complaint entitled *Pollution from the manganese smelter is harming people and crop*, says:

In 2008 a manganese smelter was built next to our township middle school. Black smoke came from the factory production and affected people around the area and now our crops are dying too. The Agricultural Board already said our harvests would have to take a big cut this year. In order for us to harvest our crops, and for the health of our people, and also for the health of middle school students in the future, we ask our superiors to close this manganese smelter!160

Although the local Environmental Public Bureau acknowledged receipt of the complaint, government officials have not taken direct action in addressing the local accounts of lead pollution; neither have the investigations into the allegations of pollution or the findings been made public, as required by law.

**Obstructions to Reporting**

The Measures on Government Environmental Information states that media should be used to disseminate environmental information.161 Yet attempts by journalists to report on

160 Although the complaint was originally posted on the Wugang Environmental Public Bureau website, there is currently no evidence of the recorded complaint on the Wugang Environmental Public Bureau website. An individual re-posted the complaint regarding local lead poisoning from the Wugang manganese smelter on the Chinese website, Space for Legal Rights. In the post, the individual described the deteriorating environmental conditions in city of Wugang and stated that the environmental protection bureau of Shao Yang city responded to the original complaint on the Wugang Environmental Public Bureau website, simply noting that their office was “urging the Wugang environmental protection office to carry out an investigation.” Space for Legal Rights, “Wugang City’s Lead Pollution from the Manganese Smelter Is Causing Mass Illness,” August 5, 2009, http://www.315wq.com/zxts/11748.htm (accessed October 20, 2010).

pollution have been undermined by intimidation and threats by government officials. Journalists who reported on the lead poisoning in three of the four locations told Human Rights Watch that police had followed them or forced them to leave the area when attempting to interview people. A journalist who had been to a pollution site in Hunan told Human Rights Watch that after he left the area police had questioned the people he had interviewed. His driver had also been questioned. A journalist who had been reporting on the lead poisoning in Shaanxi was forced to leave.

In one province, government officials told Human Rights Watch that journalists are not permitted to be in the area. The police told Human Rights Watch: “Journalists are not allowed to come here and not allowed to go into villages to talk to people. There was a small problem here last year but it’s all been resolved, there is nothing to see here.”

In another province, government officials told Human Rights Watch that individuals could only be interviewed about pollution if the local propaganda department cleared the questions in advance, and if they were accompanied by a local government official.

In obstructing journalists from reporting on lead poisoning, the Chinese government is violating its own domestic laws, as well as international human rights standards.

Both international and Chinese law protects freedom of the press. Article 19 of the International Covenant on Civil and Political Rights, which China has signed but not ratified, states:

Everyone shall have the freedom of expression; this right will include freedom to seek, receive and impart information and ideas of all kinds, regardless of frontiers, either orally, in writing or in print, in the form of art or through any other media of his choice.

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162 Human rights Watch interview with journalist, Beijing and Shanghai, 2010.
163 Human rights Watch interview with journalist, Shanghai, 2010.
164 Human rights Watch interview with journalist, Beijing, 2010.
166 Human Rights Watch conversation with government officials, 2010.

Institutional guarantees for the legitimate rights of news agencies and journalists will be strengthened, the legitimate rights and interests of news agencies, journalists, editors and the person(s) concerned in news items safeguarded, and the journalists’ right to gathering materials, criticize, comment and publish ensured in accordance with the law.

In order to ensure that the provisions of the Law for the Protection of Minors are effectively implemented, the law also assures all organizations and individuals the right to accuse and report any person infringing upon a minor’s lawful rights and interests.

**Intimidation by Police and Government Officials**

We want to talk about what is happening here but we are afraid to.
—Ai, female factory worker, Yunnan, 2010

In many of the poorer areas in China, people are reliant on the local government for food subsidies, health care, and in some cases, employment. People in these areas reported that raising the lead poisoning issue with local government officials could result in the loss of whatever government help they were receiving.

**Arrests and Detention**

In villages in Yunnan, Henan, Hunan, and Shaanxi that Human Rights Watch visited, villagers said they were scared to try to obtain more help or information for their children from government officials. In Shaanxi province, villagers told Human Rights Watch that people had been detained when they protested outside the lead-processing factory that had begun operating again.

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170 LPM, art. 6(2).

171 Human Rights Watch interview with Ai, Yunnan, 2010.
One elderly woman said:

The factory was shut down after everyone found out that hundreds of children have serious lead poisoning. But actually the factory started operating again at night. This happened right after the school vacation for Chinese New Year, when children were coming back to the village after being away. Lots of us, including me, protested that the government was allowing the factory to operate at night even when it was supposed to be closed, and especially because the children were back in the villages. When we were protesting the police came and detained several people. It was very scary and then everyone was too scared to keep on protesting.\textsuperscript{172}

She went on to say:

When the factory officially re-opened, at the beginning of April, there were lots of police all around the factory to keep us from protesting. By that time we were all afraid to protest anyway because we don’t want to get detained.\textsuperscript{173}

Villagers in Shaanxi told Human Rights Watch that plainclothes police walk the streets of the villages in the area near the factory to make sure that people are not gathering and discussing more protests or other ways to stop the factory from operating or bring more attention to this issue. Indeed when Human Rights Watch was visiting there was a heavy police presence, both plainclothes and uniformed officers.

Villagers reported that they were very afraid of talking about these issues, even with each other, for fear of retribution by local government officials. One villager, Ling, told us:

We are very scared to talk about lead poisoning or the factory or what to do because we don’t want to make trouble with the local government.\textsuperscript{174}

In Henan, a man named Ting with two children who both have lead poisoning told Human Rights Watch the story of how he had been detained:

\textsuperscript{172} Human Rights Watch interview with Yun, Shaanxi 2010
\textsuperscript{173} Human Rights Watch interview with Yun, Shaanxi 2010.
\textsuperscript{174} Human Rights Watch interview with Ling, Shaanxi, 2010.
On October 6 2009, after it was clear that lead poisoning was all over our village and the whole area and very serious, about 1,000 people protested in front of the factory gates demanding that the factory be closed. The local government responded and promised that all children [within the officially acknowledged lead poisoning area] with a level of lead over 25 μg/dL would receive free cartons of milk and medical attention by October 20. On October 25, when none of the promises made by the local officials had been delivered on, villagers went back to the factory and protested again.

I wasn’t there though, because one my relatives had died and I was taking care of his family. On October 30, 10 police, some uniformed and some not, came to my house. It was really scary and my children had to see the whole thing. They took me to the police station and held me there for eight days. They didn’t tell me why even though I kept asking why I had been detained. Eventually when they let me out they told me I had been detained for being a leader of the protests.\textsuperscript{175}

Across the four research sites, people we spoke to consistently said they feared angering local government officials, and this prevented them from trying to seek help for their children.

One woman, whose two children both have lead poisoning, said:

\begin{quote}
The government isn’t doing anything. We are all scared to ask for help, because people have been detained. Other people have tried to ask the government for help and medicine but they were detained. Now we are all scared to do anything.\textsuperscript{176}
\end{quote}

In Hunan, seven people were arrested while trying to seek help for their children. One of the men arrested who was in jail for six months, explained:

\begin{quote}
There was a group of us who were trying to get to Changsha [the provincial capital] to seek more help for our children. We had already been to a hospital in Changsha: of 86 children who went originally, 83 were found to have very high blood levels. We were on our way back to Changsha when a huge number of police stopped us on the road; there were so many of
\end{quote}

\textsuperscript{175} Human Rights Watch interview with Ting, Henan, 2010.  
\textsuperscript{176} Human Rights Watch interview with Wang, Henan, 2010.
them. They said they were there to direct traffic, but then they stopped our bus and wouldn’t let us continue. We explained that we were going to get help for our children but the police didn’t care. They would not let us go and arrested seven of us.177

He went on to explain:

They wouldn’t let us out of jail unless our families paid a lot of money. Five people were let out earlier because their families could find the money. I was in jail for six months. Now of course everyone is terrified of the police so no one is protesting anymore.178

In Henan, a woman whose son has lead poisoning, said:

My son is sick, but I have no money to take him to the doctor. The doctor said to give him more milk, that’s all. The factory is still operating. What are we going to do? I’m afraid of going to the local government for help because I don’t want to get arrested.179

A man in Henan said:

We are intimidated into not doing anything to get more help because people have been detained. We really have no power.180

One woman in Henan told Human Rights Watch:

I tried and tried to get help for my son from the local government. But then some people got detained and I decided to stop trying because I don’t want the local government angry, that could have very bad consequences for our lives.181

177 Human Rights Watch interview with Xuan, Hunan, 2010.
Another man in Henan said:

A lot of people were detained while protesting in front of the factory in October. Now we all know that we have no power to keep protesting and no ability to change things.\textsuperscript{182}

International law prohibits arbitrary detentions, that is, detentions carried out without due process of law or carried out merely for exercising a basic right protected under human rights law. China's own domestic law also provides protections against illegal detention. The 2009 Human Rights Action Plan states:

The State prohibits illegal detention by law enforcement personnel. Taking a criminal suspect in custody, changing the place of custody or extending the term of detention must be carried out in accordance with the law. Wrongful or prolonged detention shall be prevented.\textsuperscript{183}

\section*{Remediation/Long-Term Solutions}

\subsection*{Relocation}

Under Chinese law when an environmental hazard threatens the health of the local population, the hazard is to be alleviated or removed.\textsuperscript{184} In Shaanxi, rather than removing the polluting factories, the government had told local communities that they had to move.\textsuperscript{185} Villagers we talked to in Shaanxi expressed confusion and anger over moving. They said they are being made to move against their will, but the government had not been clear about when they would have to leave their homes, or where and what their new living arrangements would be.

\begin{flushleft}
\textsuperscript{182} Human Rights Watch interview with Chan, Henan, 2010.
\textsuperscript{184} Environmental Protection Law of the People’s Republic of China, 1989, http://www.china.org.cn/english/environment/34356.htm (accessed November 4, 2010), art. 32. The law reads: “If the safety of the lives and property of inhabitants is endangered by severe environmental pollution, the competent department of environmental protection administration of the local people’s government at or above the county level must promptly report to the local people’s government. The people’s government concerned shall take effective measures to remove or alleviate the hazard.” The Environmental Protection Law does not have clear guidelines on when a factory should be fined and when it should be removed. The distinction that the hazard should be removed when it is endangering the population necessitates the local government to determine that it indeed is posing a health threat. It is much more common for the local EPB to fine a factory for exceeding emissions standards than to determine it is endangering the public’s health and force it to be removed.
\textsuperscript{185} Human Rights Watch interviews with multiple families, Shaanxi, 2010.
\end{flushleft}
One woman from Shaanxi told Human Rights Watch:

The government says we have to move soon, but the houses we are supposed to move into haven’t even been built yet. When we ask them questions about it, they have no answers.\textsuperscript{186}

Although the local government had closed the village schools and was bussing children to a school further away from the factory, at the time we visited there were still children living in the villages. According to families we spoke with, the children who remained in the villages came from families who could not afford to relocate to the nearby town without the government’s financial help and so had no choice but to live in the contaminated area.\textsuperscript{187}

Villagers from Shaanxi also told Human Rights Watch that they did not know how they would survive if forced to move. Many of the villagers have small plots of land that they rely on for income.\textsuperscript{188} Although the crops grown there are now contaminated with lead, the villagers we spoke to expressed concern over where they would derive their livelihood. A man in the village whose livelihood comes from farming a small plot of land told Human Rights Watch:

They are keeping the factory operating and forcing us to move. We have no way to make a living in the place we are supposed to move to because there is no land for us to farm. The government said they will bring us back here so we can farm and make a living but our land here is full of lead.\textsuperscript{189}

Another man in the same village, 60-years-old, said:

We are very concerned about how we will make a living and have enough money to survive when are forced to move. The government says we can do migrant work—but we are too old for that kind of work now! We don’t know what to do.\textsuperscript{190}

\textsuperscript{186} Human Rights Watch interview with Ling, Shaanxi, 2010.
\textsuperscript{187} Human Rights Watch interviews with several families, Shaanxi, 2010.
\textsuperscript{188} In Henan, villagers told us that although they eat the crops, they are not allowed to sell their crops outside of the local area, because it is well known that they are contaminated with lead.
\textsuperscript{189} Human Rights Watch interview with Dong, Shaanxi, 2010.
\textsuperscript{190} Human Rights Watch interview with Jia, Shaanxi, 2010.
According to another family, the local government had told them they would receive 200 RMB (US$30) a month for one year, to facilitate the move. The family was very angry and worried about how they would survive on that money. The grandfather said:

We live within one kilometer of the factory so we are being forced to move. The money we are getting is not enough to move and buy food and medicine for our grandchildren. We want the government to give us more help but it won’t.\(^{191}\)

An elderly woman told Human Rights Watch:

The government is forcing me to move so the factory can keep operating. But I don’t want to move, I don’t know how I’ll survive.\(^{192}\)

The issue of relocation is especially crucial for children. According to health experts the most critical intervention for children with lead poisoning is to remove them from the toxic environment.\(^{193}\) In every area where the factories are continuing to operate children’s health is potentially at risk. In Shaanxi, while children are waiting for relocation, they are still being exposed to a toxic environment that continues to affect their health.

In Henan and Yunnan, where the factories are all still in full operation, none of the villages are actively being relocated.\(^{194}\) Local governments in both these places are fully aware that their populations are being poisoned by lead, which is evident from the free testing that has occurred in both these places. Yet the local governments are still allowing the factories to operate, and the children, some of whom have taken medication distributed by the local CCDC clinic, are still living in a toxic environment, negating the effectiveness of any medication.

By not removing the environmental hazard, which is severely impacting the health of the local community, the Chinese government is in clear violation of the Environmental Protection Law. Article 32 of the law reads:

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\(^{192}\) Human Rights Watch interview with Bao, Shaanxi, 2010.


\(^{194}\) The exception is the one village in Henan where villagers were paid off and told they could use that money to move.
If the safety of the lives and property of inhabitants is endangered by severe environmental pollution ... the people’s government concerned shall take effective measures to remove or alleviate the hazard.195

The UN has developed a set of Basic Principles and Guidelines on Development-based Evictions and Displacement.196 Whilst these principles do not apply wholesale to those who are forced to move as a result of environmental degradation and toxic poisoning of their homes, the human rights framework provided is directly relevant. As well as articulating the core tenet of non-discrimination, the principles provide that “all persons, groups and communities have the right to resettlement, which includes the right to alternative land of better or equal quality and housing that must satisfy the following criteria for adequacy: accessibility, affordability, habitability, security of tenure, cultural adequacy, suitability of location, and access to essential services such as health and education.”197

Financial Remediation
In many places visited, the local government had given a small sum of money to each family that had been officially acknowledged to have been affected by lead poisoning.

In one village in Henan where lead levels of children are especially high, local government presented villagers with a contract, which several families showed us. The contract gave the families 6,000 RMB ($880) for one year, ostensibly to move. If they accepted the money, the villagers could no longer hold the factory responsible for any health effects caused by pollution from the factory. When Human Rights Watch visited the village, the factory was still in operation: its operating agreement with the local government is valid through 2030.198

At the time we visited the village, the villagers who signed the contract and accepted the money had not moved. According to villagers we talked to, 6,000 RMB ($880) over a year, or 500 RMB ($74) per month, was not enough money to relocate and start over. Some people also expressed confusion over the contract. One contract that a family showed us was signed with a thumbprint, which suggests that the man who signed is not literate. He may not have fully understood the ramifications of accepting the lump sum of money.

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197 Ibid., para.16.
198 Human Rights Watch was shown the contract between the local government and the company, Henan, 2010.
Very close to the village in Henan where villagers had been given 6,000 RMB ($880), large signs advertised new construction for new homes. Although the local government is aware that these areas are very polluted and residents have high blood lead levels, it is still building new homes in the area and encouraging people to move into them.

The Chinese government is obligated to protect the health of its citizens. By allowing citizens to sign away their right to hold the factory legally responsible and then to remain in the toxic area where the factory is in full operation, the Chinese government is in violation of its obligations to protect the health of its citizens under both Chinese and international law.

Services for Children

Lead poisoning affects cognitive development, and many children with moderate to severe lead poisoning experience developmental delays and disabilities.\(^{199}\) In China, because the testing for lead poisoning is unreliable if it exists at all and affected children remain in the toxic environment where they are continually exposed to dangerous levels of lead, the population of children who have been impacted developmentally is likely high.

Parents we talked to were generally unaware of the biological connection between lead poisoning and cognitive development. However, some parents did tell Human Rights Watch that their children were underperforming in school and that there appeared to be a marked difference in their ability to focus and succeed at school. All interviewees confirmed that the local government had offered no special services or schooling opportunities for children with lead poisoning. In fact, according to every family interviewed, neither local officials nor health workers had raised the issue of developmental delays caused by lead poisoning.

In Shaanxi, one man, Dong, was very worried about his grandsons, particularly the seven-year-old who had a blood lead level of 39.6μg/dL. We talked to him in his home, which is very close to the fully operating factory, with his grandson nearby. Dong said:

> His body is very weak, he gets sick all the time and he doesn’t have any energy. He is also doing very badly in school. We’re not getting any help from the government. I don’t know how to help him.\(^{200}\)


\(^{200}\) Human Rights Watch interview with Dong, Shaanxi, 2010.
Based on China’s obligations under both domestic and international law, the Chinese government is required to provide appropriate schooling opportunities for children who are developmentally delayed, irrespective of the cause. Under the Convention on the Rights of the Child, which China ratified in 1992, the Chinese government is required to provide adequate schooling opportunities for children with disabilities. Articles 23, 28, and 29 clearly state that parties to the convention are required to ensure that children with disabilities have schooling opportunities that are appropriate for their situation. China’s National Human Rights Action Plan 2009-2010 clearly states the rights of children with disabilities to receive appropriate schooling: “For children with eyesight, hearing, language or intelligence problems, special education will be provided.”

In 2008 China ratified the Convention on the Rights of Persons with Disabilities (CRPD), which recognizes the rights of children with disabilities. The CRPD obligates China to provide educational opportunities and health services to children with disabilities.

**Occupational Health**

Adults who work in smelters and factories have also suffered severe health consequences. In Henan and Yunnan, Human Rights Watch was told about two adult deaths from lead poisoning. In both cases the people worked in the local factories. In these areas many people who previously were farmers began working in the factories because the pay was considerably more. As the pollution from the factories made farming even less viable, more and more people moved to factory work.

In Yunnan, we spoke to the family of a woman named Ru who had died of lead poisoning six weeks earlier. The woman’s sister, who cried throughout the interview, said:

> My sister had been working in the lead factory for some time. The day before she died she was feeling very sick and the factory boss told her she could go to the village health clinic. They didn’t do any tests and she came home. The next day she was too sick and we brought her to the hospital in Kunming.

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203 CRPD, arts. 24-25.

204 Human Rights Watch interviews in Henan and Yunnan, 2010.

205 Human Rights Watch interviews with multiple workers, Yunnan, 2010.
[Yunnan’s capital]. She died that night. The doctor at the hospital in Kunming told us she died of lead poisoning. Now she’s gone.\textsuperscript{206}

The woman’s father-in-law said:

After she died they closed the factory for a month. But now it’s open again and there is still no information about lead poisoning available to the workers. There is no effort to tell people who work in the factory about what happened, no effort to get people tested. As long as there are no obvious symptoms, the factory boss won’t do anything.\textsuperscript{207}

In Henan, one man told us:

People who work in these factories die young. Either there is no safety equipment or people don’t know how to use it.\textsuperscript{208}

We heard another account of a lead poisoning death in Henan from a journalist who had interviewed a man, Li Yingfu, shortly before his death. In an article the journalist wrote:

After a year or so of working in the plant, Li lost feeling in his arms and legs and suffered severe abdominal pains. Then he began coughing up blood and, in the end, lost more than 20 kilograms. Tested four times, he registered alarming lead levels every time. Finally, after submitting to what he was told was experimental therapy at a clinic inside the plant, a doctor told him surgery was his only hope. "In August 2008 they removed two-thirds of my stomach," he says, lifting his shirt to reveal a 15 centimeter vertical scar. "I spent 31 days in hospital. I was in critical condition four times." Today he suffers from dizziness, ringing in the ears, forgetfulness, insomnia and headaches.\textsuperscript{209}

Li Yingfu died less than a week after this story was published. He was 42.

\textsuperscript{206} Human Rights Watch Interview with Ru’s sister, Yunnan, 2010.

\textsuperscript{207} Human Rights Watch Interview with Ru’s father-in-law, Yunnan, 2010.

\textsuperscript{208} Human Rights Watch Interview with Tian-Yi, Henan, 2010.

In Yunnan, Shaanxi, and Henan people told Human Rights Watch that workers are not routinely tested for lead poisoning. In Yunnan, one woman who works in the same factory where Ru died in the spring of 2010, said:

I heard that a woman who worked in the same factory as me died because of lead poisoning, but I have not been tested myself. The test is expensive and the factory won’t pay for it.

In the same village, Human Rights Watch talked with a cluster of people who expressed anger and confusion about treatment and lead poisoning in general. One woman said:

After the woman died because of lead poisoning, three other people who work in the factory were taken to the hospital in Kunming. One of them has left and is working in the factory again, and the other two are still in the hospital. But there are lots of other people who work in the factory and we don’t know if other people are sick and what to do. The factory doesn’t give lead tests so we don’t know if we’re sick or not.

In Shaanxi, a man told Human Rights Watch:

My two adult sons have both worked at the local factory. The factory didn’t want its employees to get tested for lead poisoning and did not provide testing. One of my sons snuck in to the hospital and got tested and he had a high lead level. I know my other son must be poisoned too.

A father in Henan said:

There are about 5,000 people who work in the nearby factory. The factory does not do lead testing but I know some people who have gone to the hospital because of lead poisoning. They stay for awhile and then go back to the factory. People have no choice; they have to make a living.

211 Human Rights Watch interview with Liang, Yunnan, 2010.
212 Human Rights Watch interviews with Ai, Yunnan, 2010.
Other people told Human Rights Watch that factory workers who are found to have elevated levels of lead are fired, not treated, and are not compensated for their termination.\textsuperscript{216}

China has several legal instruments to protect workers from occupational health hazards. China’s Labor Contract Law and the Occupational Disease Prevention and Control Act are among the legal instruments intended to protect workers’ health rights and interests. These laws aim to protect workers’ safety and health through its legal obligations for a safe and hygienic workplace. Article 32 of the Occupational Disease Prevention and Control Act guarantees that “expenses for occupational health checkups shall be borne by the employer.” Article 36 ensures occupational health rights which include: the right to receive education and training in occupational health, to receive services for prevention of occupational diseases, to criticize, report, and accuse violations of laws and regulations which endanger workers, among others.\textsuperscript{216}

Almost none of the adults interviewed by Human Rights Watch, including the majority of those who work at lead processing plants, were able to access government-sponsored testing or treatment for lead poisoning.

According to people interviewed by Human Rights Watch, adults in areas that are known to have severe lead poisoning—such as those in which we conducted interviews—are consistently denied testing.\textsuperscript{217} Some adult interviewees said the local CCDC clinic or hospital in Henan had directly refused them testing.\textsuperscript{218} Others said that each time they tried to get tested doctors came up with an excuse for why the testing could not be done, such as broken equipment.\textsuperscript{219} Not only were they not able to participate in the free testing program, many adults were refused testing at local hospitals even when they were willing to pay out of pocket for the test.\textsuperscript{220} Other people interviewed told us that the lead test was too expensive for them to pay for.\textsuperscript{221}

However, the vast majority of adults interviewed by Human Rights Watch said they had not tried to get tested because the government has made it clear that testing is only for children.

\textsuperscript{215} Human Rights Watch interviews with multiple workers, Yunnan, 2010.


\textsuperscript{217} Human Rights Watch interviews with families in Shaanxi, Henan, Henan, and Yunnan, 2010.

\textsuperscript{218} Human Rights Watch interviews in Henan, 2010.

\textsuperscript{219} Ibid.

\textsuperscript{220} Human Rights Watch interviews with people in Shaanxi, Henan, Henan, and Yunnan, 2010.

\textsuperscript{221} Human Rights Watch interviews in Yunnan, Henan, and Hunan, 2010.
III. China’s Domestic and International Obligations Related to Human Rights and the Environment

Right to Health

The right to highest attainable standard of health is found in article 25 of the Universal Declaration of Human Rights and in international treaties binding upon China, including the International Covenant on Economic Social and Cultural Rights and the Convention on the Rights of the Child. Realization of this right imposes a number of duties on the Chinese government including the obligation to provide relevant health information and to guarantee nondiscriminatory access to healthcare services.

Chinese law also contains a number of provisions that expressly protect the right to health. Most recently, the right to health is articulated in China’s National Human Rights Action Plan 2009-2010. The plan, issued by the Information Office of the State Council, lays out human rights obligations that are to take effect by 2011. This document, which is intended to strengthen the provisions laid out in the Chinese Constitution, contains strong protections of Chinese citizens’ right to health.

A number of other rights such as the right to receive and impart information and to access information and freedom of assembly also have direct relevance for realization and enjoyment of the right to health. China has signed but not ratified the International Covenant on Civil and Political Rights (ICCPR), which contains specific guarantees in relation to these rights. Additionally, Chinese domestic law provides for protection of these rights. The National Human Rights Action Plan reiterates the Chinese government's commitment to “guarantee citizen’s right of information”. Article 35 of the Chinese Constitution also guarantees these basic rights: “Citizens of the People’s Republic of China enjoy freedom of speech, of the press, of assembly, of association, of procession and of demonstration.”

As we document in this report, the families whose children have lead poisoning are affected by a series of factors that are impacting their health. Despite the visible signs of serious

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223 Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, paras. 3, 8, 9, 12 (b), 17, 18, 19, 23, 30, 34, 35, 43, 50.

pollution in their communities, many continue to eat food grown in toxic soil and breathe polluted air. People we spoke to had not received adequate or accurate information regarding lead poisoning and therefore had an inaccurate perception of risk and a lack of understanding of how to protect themselves. People were able to access testing and limited treatment not on objective, evidence-based criteria, but according to standards that were unrelated to the health risk and appeared to have been arbitrarily set.

The Committee on Economic, Social and Cultural Rights, the body charged with interpreting and monitoring compliance with the ICESCR, confirms that social determinants of health are crucial to the full realization of the right to health:

The Committee interprets the right to health...as an inclusive right extending not only to timely and appropriate health care but also to the underlying determinants of health, such as access to safe and potable water and adequate sanitation, an adequate supply of safe food, nutrition and housing, healthy occupational and environmental conditions, and access to health-related information and education.\textsuperscript{225}

\section*{Environmental Health}

The ICESCR requires that states, in order to realize the right to the highest attainable standard of health, shall take the steps necessary for “the improvement of all aspects of environmental and industrial hygiene.”\textsuperscript{226}

The CECSR, in their General Comment 14 on the Right to Health has clarified that this right imposes on states:

The requirement to ensure an adequate supply of safe and potable water and basic sanitation; the prevention and reduction of the population’s exposure to harmful chemicals or other detrimental environmental conditions that directly or indirectly impact upon human health...

States are also required to adopt measures against the environmental and occupational health hazards and against any other threat as demonstrated by epidemiological data. For this purpose they should formulate and implement

\textsuperscript{225} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 11.

\textsuperscript{226} ICESCR, art. 12(b).
national policies aimed at reducing and eliminating pollution of air, water and soil, including pollution by heavy metals such as lead from gasoline.\textsuperscript{227}

States should also refrain from unlawfully polluting air, water and soil e.g. through industrial waste from State-owned facilities.\textsuperscript{228}

The CESCR has also explained that governments violate the right to the highest attainable standard of health if they do not take reasonable measures to prevent third parties from causing environmental degradation:

Violations of the obligation to protect follow from the failure of a State to take all necessary measure to safeguard persons within their jurisdiction from infringements of the right to health by third parties. This category includes... the failure to enact or enforce laws to prevent the pollution of water, air and soil by extractive and manufacturing industries.\textsuperscript{229}

It is important to note that failure to enforce laws that are in place to protect people's health can be a violation of the right to health. China has many domestic laws on environmental protection and health, but these laws have very weak enforcement mechanisms and therefore do not adequately protect the health of Chinese citizens.

Chinese law broadly provides for the protection of the environment and the health of Chinese citizens. Starting with the Chinese Constitution in 1978 and evolving over the past 30 years, Chinese law has consistently reiterated and strengthened provisions around environmental protection. Under the Chinese Constitution, promulgated in 1978 and the highest law in China, the state is obligated to protect the environment. Article 26 of the constitution places clear responsibility on the state to “prevent and control pollution and other public hazards.”\textsuperscript{230}

In 1979 the Chinese government drafted the Environmental Protection Law, which came into force in 1989. Article 32 of the law stipulates that when the “lives and property of inhabitants is endangered by severe environmental pollution ... the people’s government shall take effective

\textsuperscript{227} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, paras. 14, 36.
\textsuperscript{228} Ibid., para. 34.
\textsuperscript{229} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, paras. 14, 51.
measures to remove or alleviate the hazard.”\textsuperscript{231} The Environmental Protection Law lays out a framework for protecting the environment and preventing excessive pollution, with the State Council setting the emissions standards at the national level. Local level officials are charged with enforcing regulations, including by monitoring emissions from factories and levying fines on companies that exceed emissions standards. The Environmental Protection Law compels the local government to take action when factories are found to be emitting pollutants in excess of the standards and threatening health.\textsuperscript{232}

The Environmental Protection Law obligates the government to investigate for “criminal responsibility” any violations of the law that result in human injuries or death. The law also requires investigation of officials who, charged with supervising environmental protection, are found to be abusing their position.\textsuperscript{233} After the creation of the Environmental Protection Law, a series of further environmental laws were promulgated, laying out specific regulations relating to water pollution, air pollution, and solid waste pollution, among other subjects.\textsuperscript{234}

The Child’s Right to the Highest Attainable Standard of Health

The Convention on the Rights of the Child, which the Chinese government ratified in 1992, is legally binding and provides special protections for all children. The convention calls on state parties to ensure the highest attainable standard of health for children. Article 24 reads: “States Parties recognize the right of the child to the enjoyment of the highest attainable standard of health and to facilities for the treatment of illness and rehabilitation of health. States Parties shall strive to ensure that no child is deprived of his or her right of access to such health care services.”\textsuperscript{235}

China is also required by the Convention on the Rights of the Child and the Convention on the Rights of Persons with Disabilities, to respect and protect the rights of children with disabilities.\textsuperscript{236} The Convention on the Rights of the Child calls on governments to ensure appropriate services, including health care and schooling opportunities, for children with

\textsuperscript{235} CRC, art. 24.
\textsuperscript{236} CRC; CRPD.
disabilities. The CRPD obligates China to provide educational opportunities and health services to children with disabilities.\footnote{CRPD, arts 24-25.}

China’s Law on the Protection of Minors states that children “shall enjoy the right to life, the right to development, the right to being protected and the right to participation, and the State gives them special and preferential protection in light of the characteristics of their physical and mental development and ensures the inviolability of their lawful rights and interests.”\footnote{LPM, art. 3.} The same law provides various protections to children and places an obligation on parents, schools, and society to protect children. For example, it states that “[s]chools, kindergartens and nurseries may not conduct education or teaching among minors in such school buildings or places or with such facilities as are dangerous to their personal safety or health.”\footnote{LPM, art. 22.} Moreover, it stipulates that: “Food, medicines, toys, utensils and amusement facilities produced and sold for use by minors shall conform to national or industrial standards and may not be harmful to minors’ safety and health.”\footnote{LPM, art. 35.}

The Children’s Rights section of the National Human Rights Action Plan reinforces the rights of children and highlights the importance of the right to life for children.

During the course of the research for this report in the spring of 2010, the action plan had been announced and the protection of the rights laid out in the plan was purported to have begun. However, Human Rights Watch research found that the Chinese government was consistently violating the rights of its citizens and that the action plan had no apparent effect on bringing China closer in line with international human rights norms.

**Occupational Health**

The ICESCR requires that states, in order to realize the right to the highest attainable standard of health, shall take the steps necessary for the “prevention, treatment and control of … occupational and other diseases.” In addition, article 7 of ICESCR recognizes “the right of everyone to the enjoyment of just and favorable conditions of work” including “safe and healthy working conditions.”\footnote{ICESCR, art. 7.}
The CESCR has affirmed states’ obligations to protect the health of its workers:

Violations of the right to health can also occur though the omission of States to take necessary measures arising from legal obligations. Violations through acts of omission include the failure to take appropriate steps towards the full realization of everyone’s right to the enjoyment of the highest attainable standard of physical and mental health, the failure to have a national policy on occupational safety and health as well as occupational health services, and the failure to enforce relevant laws.\textsuperscript{242}

The International Labour Organization (ILO) has developed a comprehensive body of conventions that address virtually every aspect of workers’ rights. ILO Convention 161 specifically addresses workers occupational health and safety. Article 12 states: “The surveillance of workers' health in relation to work shall involve no loss of earnings for them, shall be free of charge and shall take place as far as possible during working hours.”\textsuperscript{243} Article 13 states: “All workers shall be informed of health hazards involved in their work.”\textsuperscript{244}

Chinese law provides comprehensive protections for workers. China’s Labor Contract Law and the Occupational Disease Prevention and Control Act are among the legal instruments intended to protect workers’ health rights and interests. Workers may not have the power or finances to invoke these laws on their own behalf, as the administrative and legal procedures are often complicated and time consuming, especially for cases regarding compensation.

Nonetheless, Chinese law is clear in protecting the rights of workers from occupational hazards. Article 32 of China’s Labor Contract Law states: “The refusal of an employee to perform dangerous tasks shall not be deemed as a breach of contract if he is forced to do so by the management staff of the Employer or if the instruction to do so is made in violation of regulations.”\textsuperscript{245} Article 42 further states that the employer cannot terminate a labor contract if the employee “is engaged in operations that would expose him to occupational disease hazards and has not undergone a occupational health check-up before leaving work, or is suspected of having contracted an occupational disease and is being diagnosed or under

\textsuperscript{242} Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 49
\textsuperscript{243} ILO Convention No. 161 concerning Occupational Health Services, adopted June 25, 1985, entered into force February 17, 1988, art. 12.
\textsuperscript{244} ILO Convention No. 161 concerning Occupational Health Services), 1985, adopted June 25, 1985, entered into force February 17, 1988, art. 13.
medical observation;” neither can the employer end a labor contract if the employee “has been confirmed as having lost or partially lost his capacity to work due to an occupational disease contracted or a work-related injury sustained during his employment with the Employer.”

The Right to Health Information

Access to information is protected by both the International Covenant on Civil and Political Rights, which China signed in 1998 and the International Covenant on Economic, Social and Cultural Rights, which China ratified in 2001. The CESCR has stated that a “core obligation” of states under the right to the highest attainable standard of health is:

To provide education and access to information concerning the main health problems in the community, including methods of preventing and controlling them.

The committee has explained that:

Accessibility includes the right to seek, receive, and impart information and ideas concerning health issues.

Internationally, it is increasingly acknowledged that freedom of information is critical to environmental protection and the realization of the right to health. The Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters, known as the Aarhus Convention, went into effect in 2001, and has been ratified by more than 40 countries in Europe, the Caucuses and Central Asia, though not China. The convention reads:

The parties to this Convention:

Recognizing that adequate protection of the environment is essential to human well-being and the enjoyment of basic human rights, including the right to life itself.

246 ICCPR.
247 Substantive Issues Arising in the Implementation of the ICESCR, General Comment No. 14, para. 44(d)
248 Ibid., para. 12(b).
249 United Nations Economic Commission for Europe. This treaty applies to the European Union itself in addition to each of the individual signatory nations.
Recognizing also that every person has the right to live in an environment adequate to his or her health and well-being, and the duty, both individually and in association with others, to protect and improve the environment for the benefit of present and future generations.

Considering that, to be able to assert this right and observe this duty, citizens must have access to information, be entitled to participate in decision-making and have access to justice in environmental matters, and acknowledging in this regard that citizens may need assistance in order to exercise their rights.

Article one of the convention states the objective:

In order to contribute to the protection of the right of every person of present and future generations to live in an environment adequate to his or her health and well-being, each Party shall guarantee the rights of access to information, public participation in decision-making, and access to justice in environmental matters in accordance with the provisions of this Convention.

Regulations of the People’s Republic of China on Open Government Information, which took effect in 2008, lay out provisions intended to ensure that citizens have access to government information, in line with the law. The measure, said Vice Minister Zhang Qiong, ensures “the public’s right to know, the right to participate” and are intended to “help curb corruption at its source, largely reducing its occurrence.”

The State Environmental Protection Administration (now the Ministry of Environmental Protection) issued implementing measures for the regulations, that standardized “the disclosure of environmental information by government agencies and enterprises, and provide the public with the right to request government environmental information.”

Issued by the State Environmental Protection Agency in 2007, the Measures on Open Environmental Information, which went into effect in May 2008, require the disclosure of

environmental information. As written in the measures, “environmental information” includes both government and enterprise environmental information.\textsuperscript{254} The measures obligate the local Environmental Protection Bureaus to release environmental information at the public’s request. The scope of information that can be disclosed under the measures is broad and includes: results of environmental impact assessments, names of enterprises that have exceeded the government’s standards for emissions, enterprises that have caused pollution incidents and any fees levied upon enterprises, among other information. The measures also require the EPBs to disclose the outcome of petition letters and pollution complaints from local citizens.

The stated purpose of the Measures on Open Environmental Information is to provide the public with the right to request government environmental information. Despite a broad loophole in the regulations that allows EPBs to withhold information considered to be “trade secrets,” the ultimate objective of the law is to help control pollution by including citizens in the monitoring system.\textsuperscript{255}

\textsuperscript{254} Ibid.
\textsuperscript{255} Ibid.
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Appendix I: Lead Poisoning Symptoms, Effects on Health, and Treatment

Lead is a heavy metal that naturally forms in the Earth’s crust. It is highly toxic to humans when ingested or inhaled. Although lead was previously considered safe at low levels, lead is now considered unsafe at any level.\textsuperscript{256} Elevated lead levels damage the brain, kidneys, and blood cells, which may result in anemia, deficits in IQ, high blood pressure, coma, or death. Because lead poisoning may not necessarily manifest in obvious symptoms, it can often go unrecognized.\textsuperscript{257} Today, the US Centers for Disease Control and Prevention defines lead poisoning as any blood lead concentrations over 10 micrograms per deciliter. Although the effects of lead poisoning vary according to blood lead levels, the World Health Organization now considers lead unsafe at \textit{any} level.\textsuperscript{258}

Pregnant women and children are particularly vulnerable to lead poisoning. In pregnant women, it can cause premature birth, low birth weight, or damage the fetus’ developing brain.

Children are especially at risk for lead poisoning because they tend to absorb up to 50 percent of lead that they are exposed to, compared to 10-15 percent for adults.\textsuperscript{259} The potential damage of lead poisoning in children is high because lead affects the development of their nervous and digestive systems. Virtually every organ in children is susceptible to damage from lead poisoning.\textsuperscript{260} Infants’ and young children’s propensity to explore the world through their mouths or play in what may be lead contaminated areas increases their likelihood of ingesting or inhaling lead in dust and dirt.\textsuperscript{261}


\textsuperscript{259} Ibid.

\textsuperscript{260} Ibid.

\textsuperscript{261} Ibid.
In children, elevated blood lead levels can cause:  

- reduced IQ and attention span
- reading and learning disabilities
- behavioral problems
- hearing loss
- impaired growth and visual and motor functioning
- anemia
- brain, liver, kidney, nerve, and stomach damage
- coma and convulsions
- death

The adverse effects of lead poisoning intensify with repeated exposure, and the long-term effects of lead poisoning cause irreversible damage.

Chelation therapy is the most common treatment for lead poisoning. It uses EDTA (ethylenediaminetetraacetic acid), a synthetic amino acid, to bind and thus neutralize lead and other heavy metals in the bloodstream, forming a compound that is then dispelled in urine. The process generally takes one to three hours and can be administered through intravenous injection or orally in the form of dimercaptosuccinic acid. Chelation therapy can also be used to eliminate other heavy metals from the body including mercury, arsenic, aluminum, chromium, cobalt, manganese, nickel, and zinc.

Side effects of chelation therapy can include headaches, nausea, diarrhea, fatigue, joint pain, cramps, and skin irritation. More serious side effects include kidney toxicity, bone marrow depression, shock, low blood pressure (hypotension), convulsions, disturbance of regular heart rhythm, allergic heart reaction, and respiratory arrest. As chelation treatment may also deplete useful elements in the body, such as iron, zinc, and copper, dietary supplements and vitamins are recommended to be taken during treatment as well.

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264 Ibid.


According to the US Centers for Disease Control and Prevention, environmental impact assessments should be performed in tandem with lead detoxification treatments in order to identify and eliminate the source of contamination. Unless the exposure to lead is mitigated, chelation therapy may not be fully effective, and instead, chelating agents may in fact facilitate the absorption of lead in the gastrointestinal tract.267

Appendix II: Toxicity Levels in Children

Toxicity studies suggest that the tolerance levels for blood lead level concentrations in children are:\(^{268}\)

\(\geq 10 \, \mu\text{g/dL} \) warrants medical attention.
\(\geq 45 \, \mu\text{g/dL} \) requires medical treatment within 48 hours.
\(\geq 70 \, \mu\text{g/dL} \) is a medical emergency.
\(\geq 120 \, \mu\text{g/dL} \) is highly toxic and possibly lethal.

* \(\mu\text{g/dL} = \) micrograms/per deciliter. A deciliter roughly equals half a cup of water.

“My Children Have Been Poisoned”
A Public Health Crisis in Four Chinese Provinces

Rapid economic development in China, without essential oversight and protective measures, has led to widespread environmental pollution and lead poisoning, putting the health of millions of children at risk. Now among the most common pediatric health problems in China, lead poisoning, which disrupts development of the nervous system, has left hundreds of thousands of Chinese children with permanent mental and physical disabilities.

This report documents how China has failed in its obligations to respect and protect its citizens’ right to health. Focused on areas in Henan, Yunnan, Shaanxi, and Hunan provinces, it shows how local authorities have denied the scope and severity of lead poisoning, arbitrarily limited access to blood lead testing, and withheld or provided test results that inexplicably show improvements in blood lead levels. Children with critically high levels are refused appropriate treatment, and often continue living in contaminated areas where polluting factories still operate. Local police have threatened individuals seeking treatment and information, arrested those trying to protest against polluting factories, and intimidated journalists trying to report on the issue.

Over the past decade, the Chinese government has promoted numerous environmental regulations to curb industrial pollution and protect the environment and health of its citizens. It also is a party to international human rights treaties that obligate it to protect the rights of its children, including the right to the highest attainable standard of health. However, corruption and competing economic targets have undermined enforcement of health and environmental regulations.

*My Children Have Been Poisoned* calls on the Chinese government to hold polluting factories and officials who fail to uphold environmental regulations accountable, and to honor its obligations to protect its citizens’ health.