

# Q & A: Phasing Out Mercury Thermometers and Blood Pressure Devices

## Are Alternatives to Mercury Thermometers and Blood Pressure Devices Accurate?

The WHO Technical Guidance document "Replacement of mercury thermometers and sphygmomanometers in health care"," published in 2011 concludes that "alternatives to mercury-containing thermometers and sphygmomanometers are available, and are accurate and practical in clinical settings."

## Are Alternatives to Mercury Thermometers and Blood Pressure Devices Affordable?

The experience of hospitals and health systems and studies conducted in numerous developing countries<sup>(2)</sup> have found that while an individual digital thermometer is more expensive than a mercurial device, given much higher breakage rates of the mercury thermometer, within a year hospitals are often saving money. Savings have also been found when substituting sphygmomanometers.

### What is the World Health Organization's Policy?

In 2005 WHO issued a Policy Paper (a) calling for support for short, medium and long-term solutions to the issue of mercury in health care. In the short-term WHO called for the safe management of mercury waste. In the medium term it called for the progressive replacement of mercury-based medical devices

with alternatives. The long-term solution proposed by WHO includes "a ban for use of mercury containing devices and effectively promote the use of mercury free alternatives."

#### What Other Policies Exist to Substitute Mercury-based Medical Devices with Affordable, Accurate Alternatives?

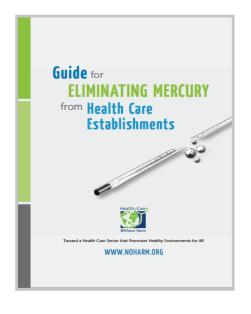
Many countries from every continent have developed substitution policies, including but not limited to:

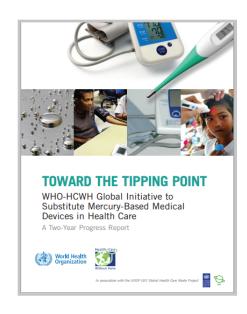
Argentina – In February 2009, the Argentine Ministry of Health issued a resolution 139/2009 calling for an end to purchase of mercury medical devices in all Argentine hospitals. In February 2010, the Ministry of Health of Argentina published an Administrative Order banning mercury sphygmomanometers.

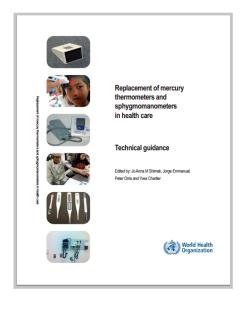
Brazil – In 2010, the Health Secretariat of São Paulo State <u>banned</u><sup>(6)</sup> the purchase and the use of any equipment contain ing mercury in public hospitals and other health services. The Santa Catarina State government has also <u>banned</u><sup>(7)</sup>mercury thermometers in hospital systems and pharmacies.

Chile – In April 2011, the Ministry of Health Issued a <u>National Guidance</u>® for Mercury-free Health Care.

Cuba – Since the 1980s, Cuba has replaced most of its mercury sphygmomanometers with aneroid devices<sup>®</sup>.









The European Union banned mercury thermometers (10) for home and health care use in 2008 and will enact a sphygmomanometer ban (11) with extremely limited exceptions in 2014.

India – In May 2010, India's Central Government issued <u>guidelines</u><sup>(12)</sup> to phase-out mercury containing equipment from all Government-run Hospitals. In Delhi, <u>all government-run hospitals</u><sup>(13)</sup> have stopped purchasing new mercury-based medical devices.

Mongolia – The Ministry of Health and the National Emergency Management Agency of Mongolia issued a <u>Joint Order</u> to "ban further procurement of the mercury containing thermometer, sphygmomanometer and dental amalgam, beginning January 15, 2011.

Philippines – In 2008, the Philippines issued and subsequently implemented an <u>Administrative Order</u><sup>(15)</sup> calling for the phase-out of mercury based medical devices across the country.

South Africa – The Province of Kwa Zulu Natal, South Africa has issued and is implementing <u>directives</u><sup>(16)</sup> banning the purchase of mercury thermometers and spygmomanometers. In 2011, South Africa's <u>Department of Environmental Affairs called</u> (17) on the country's Ministry of Health to issue a directive immediately suspending the purchase of mercury-based thermometers, blood pressure devices and dental amalgam.

Taiwan Republic of China – In March 2008, the Environmental Protection Administration announced a <u>national policy</u> (18) to phase-out of mercury thermometers.

United States – The United States has virtually phased out mercury-based medical devices. With <u>bans or severe</u> <u>restrictions in the majority of US states</u>. It is nearly impossible to purchase a mercury thermometer in the United States today.

The World Medical Association passed a <u>resolution</u><sup>(19)</sup> in 2008 calling for the substitution of mercury-based medical devices with safer alternatives.

#### What Position Should Countries Take at INC5 Regarding Mercury-based Thermometers and Blood Pressure Devices?

Countries should support the listing of mercury thermometers and sphygmomanometers in Annex C - Mercury Added Products - of the treaty with a timetable for rapid phase-out that includes the manufacture, import or export of mercury-added products with no exemptions. Mercury free alternatives to these products are already globally widely available and phase-out can be achieved within clear and reasonable time frames that should be agreed to in Annex C and Article 6.

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