

Interview with Dr. Mark Lange – Market America Quality Control Director

Subject: Lead contamination in water supplies of many housing estates.

M = Market Hong Kong

L = Dr. Mark Lange

M: Hello Dr Lange. Thank you for spending your time with us today to talk about the recent concerns on water supplies in Hong Kong.

L: Thank you. It's my pleasure. I heard about the recent lead in water issue in water supply and it really a big concern to the society. It should be a concern though since lead is something that can cause harm to our body.

M: How does lead affect our health?

L: Lead can enter the human body by ingestion, inhalation and skin absorption. When lead is absorbed into the body in excessive amount, it is toxic to many organs and systems. Significant exposure to lead is associated with a wide range of effects, including various neurodevelopmental effects, anaemia, impaired renal function, high blood pressure, impaired fertility and adverse pregnancy outcomes. Infants, young children (especially those under six years of age) and pregnant women are more likely to be affected by its adverse effects.

M: What is the recommended limit of lead in drinking water?

L: The World Health Organization's Guidelines for Drinking-water Quality has set a provisional guideline value of not more than 10 micrograms per liter for lead. Lifetime consumption of water meeting this guideline value does not represent any significant risk to health.

M: Does the boiling of water help to eliminate lead?

L: As hot water increases the amount of lead, therefore, boiling of tap water alone cannot reduce the amount of lead.

M: Does PureH2O Water Filtration System help to reduce the amount of lead in water?

L: The filter reduces dangerous heavy metals, such as lead and mercury, through a potassium ion exchange process. This allows lead and mercury ions to adhere to the filter media by exchanging these dangerous heavy metals with potassium. PureH2O Water Filtration System can help reduce the amount of lead in tap water to not more than 10 micrograms per liter for lead, which meets the recommended limit of lead by the World Health Organization. The product is performed under NSF standards 53.

訪問美安品質控制總監Dr. Mark Lange

主題：公共屋邨食水含鉛超標事件

M = 美安香港

L = Dr. Mark Lange

M: 你好Dr Lange。謝謝你抽時間接受我們訪問有關香港最近備受關注的食水含鉛超標事件。

L: 不用客氣。我很高興能接受你們的訪問。我知道最近在香港發生的食水含鉛超標事件涉及範圍越來越大，更令大家聞鉛色變。我很明白大家為甚麼會有這種憂慮，畢竟鉛確實會對我們身體有害。

M: 鉛會如何影響我們的健康？

L: 鉛可以透過進食、呼吸或皮膚表面吸收而進入人體。如果過量接觸及被人體吸收鉛，會嚴重影響器官及身體功能的運作。過量接觸鉛，可導致各種健康問題，包括神經系統的影響、貧血、腎功能受損、高血壓、生育能力受損和不良懷孕結果。嬰兒、兒童（特別是六歲以下的兒童）及孕婦較易受鉛影響。

M: 那麼飲用水中含鉛的標準是甚麼？

L: 世界衛生組織的飲用水水質標準規定，每公升水應只可含有不多於**10**微克的鉛含量。如果一生飲用這標準的水，對身體不會有任何顯著的健康風險。

M: 那煲水可以除去水中鉛嗎？

L: 煲水的過程中會令水份蒸發，只會令水中的含鉛量增加；所以只靠煲水不能除去水中的鉛！

M: 那PureH2O™桌上型濾水器能有效減少水中的含鉛量嗎？

L: 有效。因為我們的濾水器特設鉀離子交換程序，能降低水中危險重金屬 (例如鉛和水銀)的含量。鉛和水銀這些危險重金屬的離子與鉀離子交換後，會附在濾芯上，這樣就可確保過濾後的飲用水符合 **NSF 53** 標準。我們的濾水器所採用了先進的雙重過濾技術，功效亦在「**NSF 53**」國際標準下進行測試，能有效減低水中的鉛含量，達致世衛標準，即每公升水含有不多於 **10** 微克的鉛含量。