

KERATAN AKHBAR

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AKHBAR	:	STARLIFESTYLE		1	
TARIKH	:	30/12/2019	MUKA SURAT		5
JABATAN	:	UMUM			
KLASIFIKASI	:	PERHATIAN			

much production and disposal of these products might increase lithium levels in drinking water, the study team notes in *Nature*

Communications.

offered a clear picture of how

water. But even with the rapid rise of consumer electronics powered by lithium batteries in recent years, research to date hasn't crust and in soil and bodies of occurs naturally in the Earth's tle lithium because the mineral water, a Korean study suggests. electric cars may contaminate tap power smartphones, tablets and JITHIUM from batteries that Drinking water can contain a lit-

"Quantifying precisely the exact contribution from high tech materials remains an open question, as well as predicting how this contribution will evolve in the next 20 years," Vigier said by email.

The results suggest that lithium levels in water may be associated with population density, and that waster water treatment plants.

to determine the potential sources of lithium contamination.
They found that lithium entering

For the current study, researchers tested water from the Han river where it runs through Seoul as well as upstream, before it reaches

low and similar to what's found naturally in many rivers, the study found. But where the Han

river ran through Seoul, lithium levels in the water were up to six

the metropolitan area. Upstream, lithium levels were

aren't currently effective at remov-ing it from drinking water, the study team concludes. waste-water treatment plants Researchers also tested the water

(lithium is prescribed for certain psychiatric disorders) and food waste (lithium enters certain produce from soil and water) also appeared to contribute to lithium levels in the Han river. Contamination from lithium ion batteries might come from waste waters released at industrial sites,

incineration systems, illegal landfills or storage of old batteries, Vigier said.

The study wasn't designed to determine how lithium got in the water supply or to prove whether increasing lithium levels in drinking water has an impact on health. "The study does not demonstrate

ithium from e-waste can contaminate water supply that lithium-batteries are the source of the lithium in the river water," said Brett Robinson, a professor of environmental chemistry at the University of Canterbury in New Zealand who wasn't involved

"In addition to batteries, lithium is used in greases, ceramics and mood-stabilising drugs," Robinson said by email. "Lithium from greases may enter river water through storm water and lithium from mood-stabilising drugs may enter through treated sewage (the treatment does not remove lithium)."

Lithium may also leach into the environment from electronic waste in landfills, Robinson said.

"In poor countries, where informal recycling of electronic waste occurs, it is likely that large amounts of (lithium) are entering the environment," Robinson said.

The batteries can be recycled, but most are not, he added. "As with other recycling is a social and political challenge." – Reuters

ernisation will result in an increase of the (lithium) levels in waters in the future," said senior study author Nathalie Vigier of the times higher than upstream. "This new study suggests that an increase of urbanisation and mod-Sorbonne University in Paris. not. – Reuters but most are be recycled, batteries can