

# The Choi et al IQ Study

Why it's critical to understand it

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For Portland City Council

# Choi IQ Study

Weighed 27 studies that compared  
high-and low-fluoride villages, mostly  
in China

# Choi IQ Study

In 26 out of 27 studies:

- The higher the fluoride,
  - The lower the IQ
- 
- Weighted average: 7 IQ points

# Choi IQ Study

MANY misconceptions: The major one:

Levels of fluoride in Chinese villages (.88 ppm–11.5 ppm) are higher than Portland proposes (.7 ppm) – not applicable

# Choi IQ Study

Standard toxicology – a factor of at least 10 to build in a margin of safety

- Individual variations to fluoride's toxicity, i.e. iodine deficiency (12% of U.S. population)
- Some people drink more water

# Choi IQ Study

Example:

- 3 ppm in high-fluoride village - typical
- Divide by 10
- .3 ppm would be upper limit to protect population
- Much lower than 0.7 ppm Portland proposes
- Directly applicable to Portland

# Choi IQ Study

Choi conclusion:

“... should be a high research priority.”

# Choi IQ Study

Further evidence:

- Over 80 controlled animal studies that fluoride harms the brain
- 15 affecting memory and learning
- Entirely consistent with human studies



# Choi IQ Study

Not 100% proof fluoridation lowers IQ's in children

But obviously far more evidence that fluoridation is harmful than it's safe

# Choi IQ Study

- All those organizations supporting fluoridation -
- All the people testifying today about their teeth -

Didn't know this information

*How many would trade the intelligence of their kids  
to prevent a cavity?*

# Choi IQ Study

If you vote to fluoridate, your most lasting legacy may very well be the diminished intelligence of an entire generation of Portland children