

monitoring the snoutbreak [using biosurveillance data]

atar baer
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public health - seattle & king county



[1] ED visits

[1] ED visits

[2] outpatient visits

[1] ED visits

[2] outpatient visits

[3] hospital admissions

local **ILI** definition

chief complaint or diagnosis:

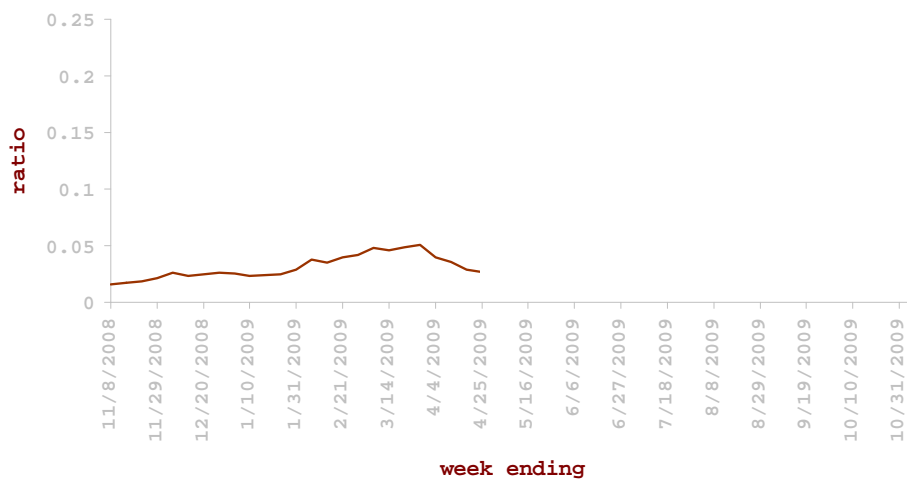
[1] flu

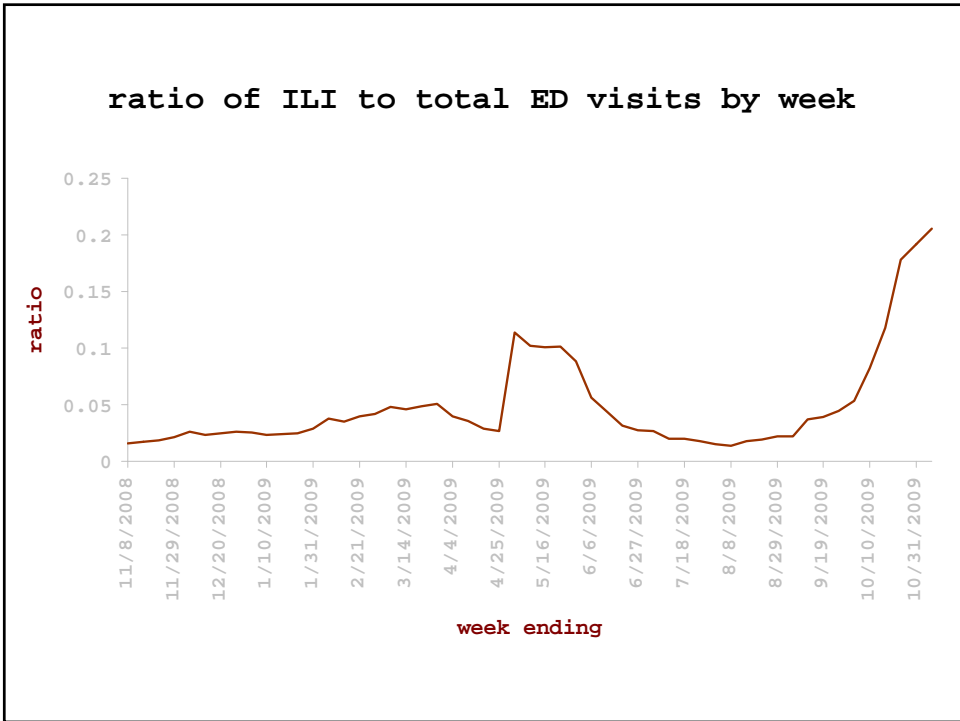
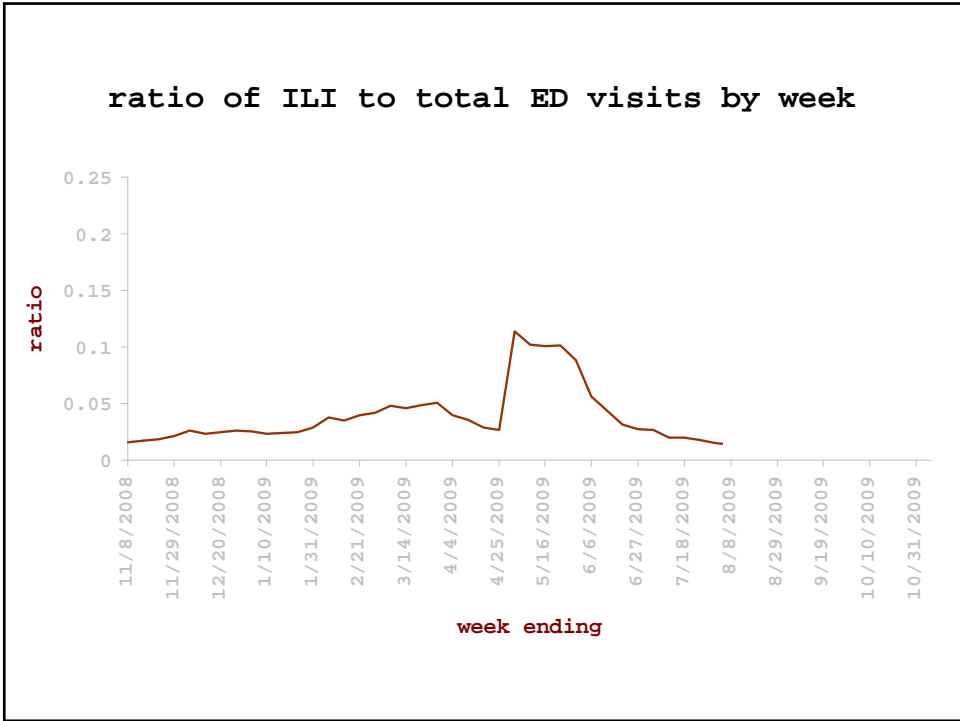
[2] fever & cough

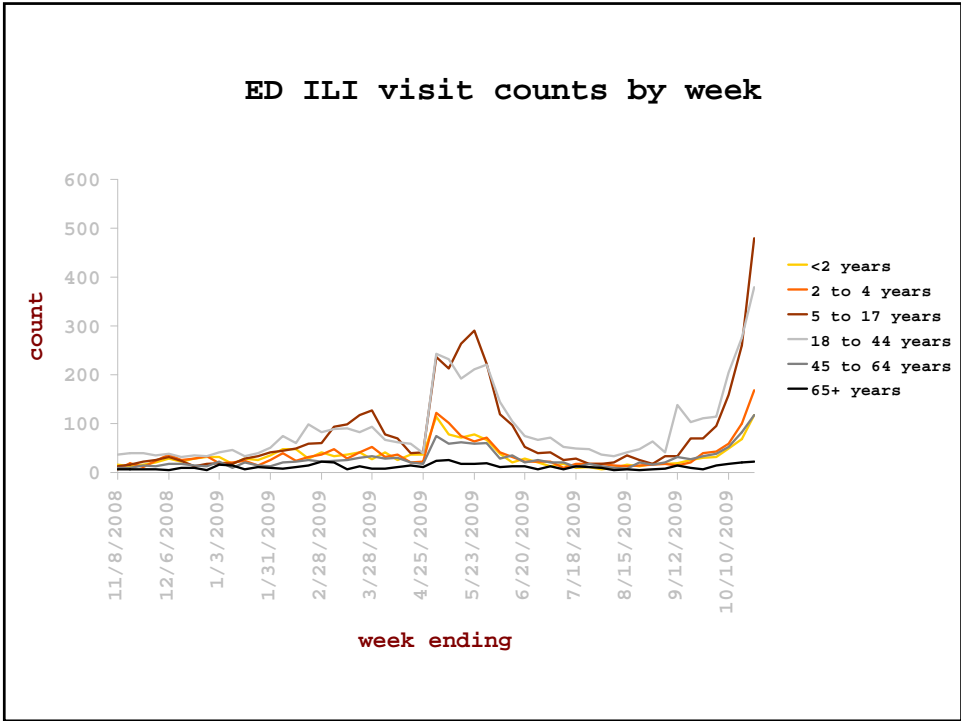
[3] fever & sore throat

ED visits

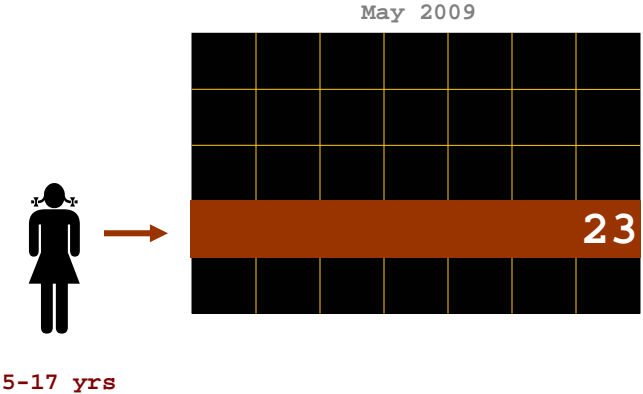
ratio of ILI to total ED visits by week



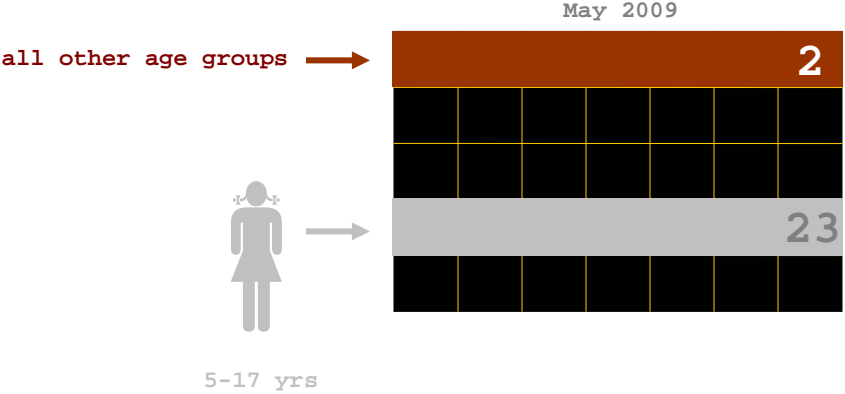




[peak volume]



[peak volume]



[peak weekly counts]

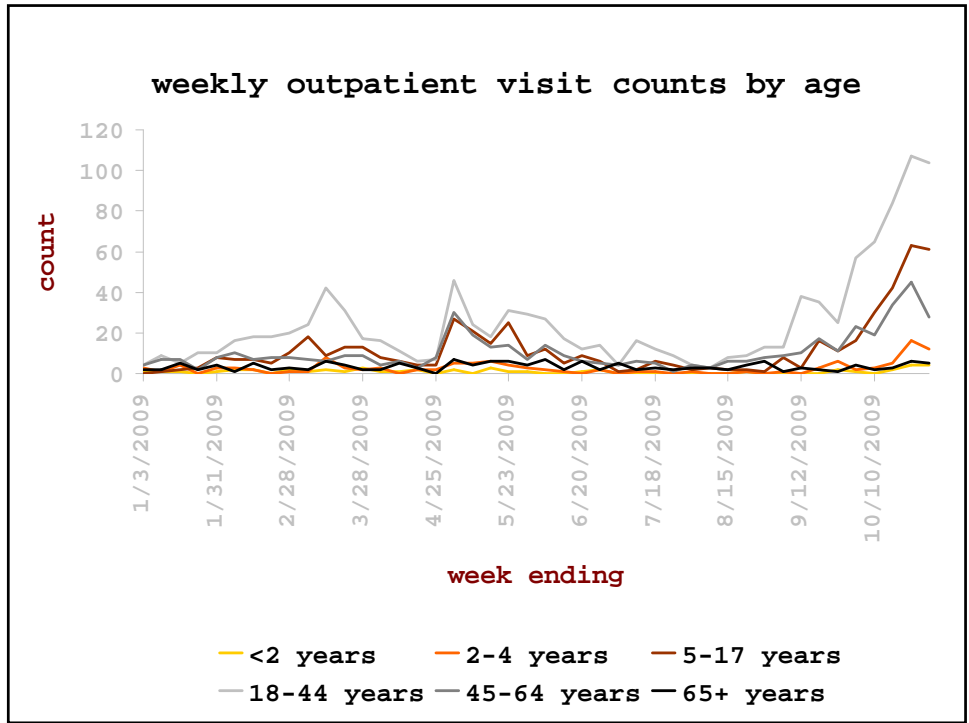


x seasonal flu

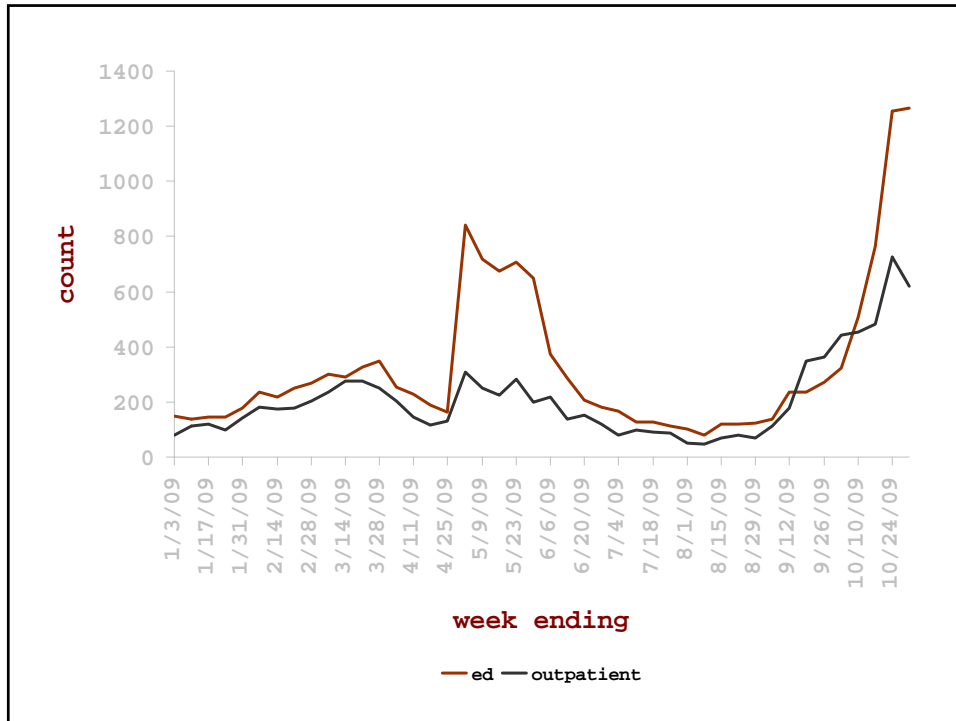


x pre-outbreak

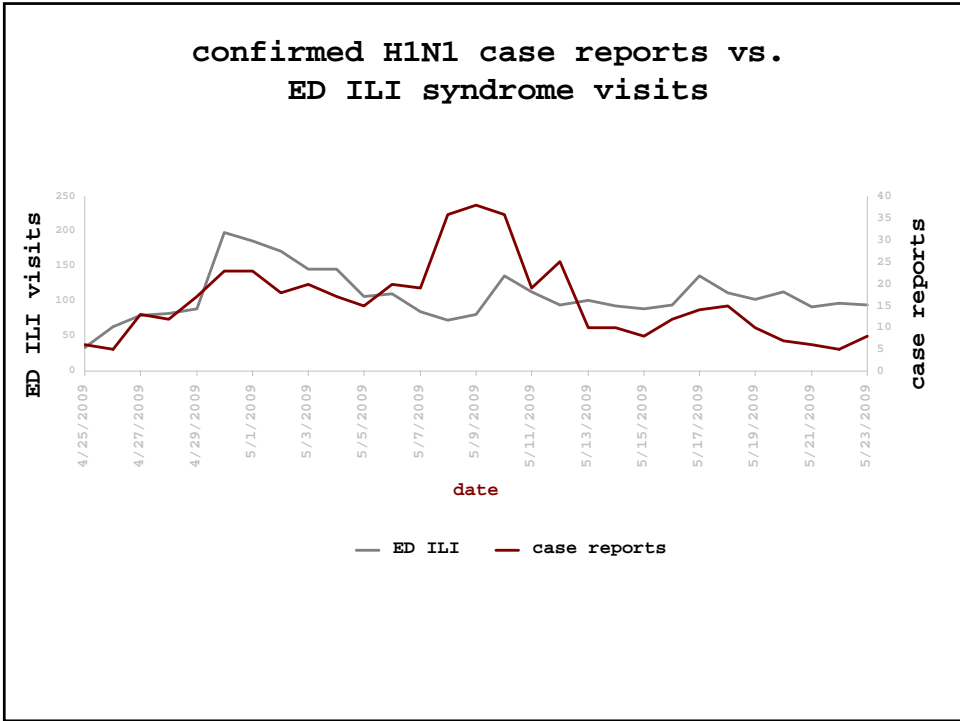
outpatient visits



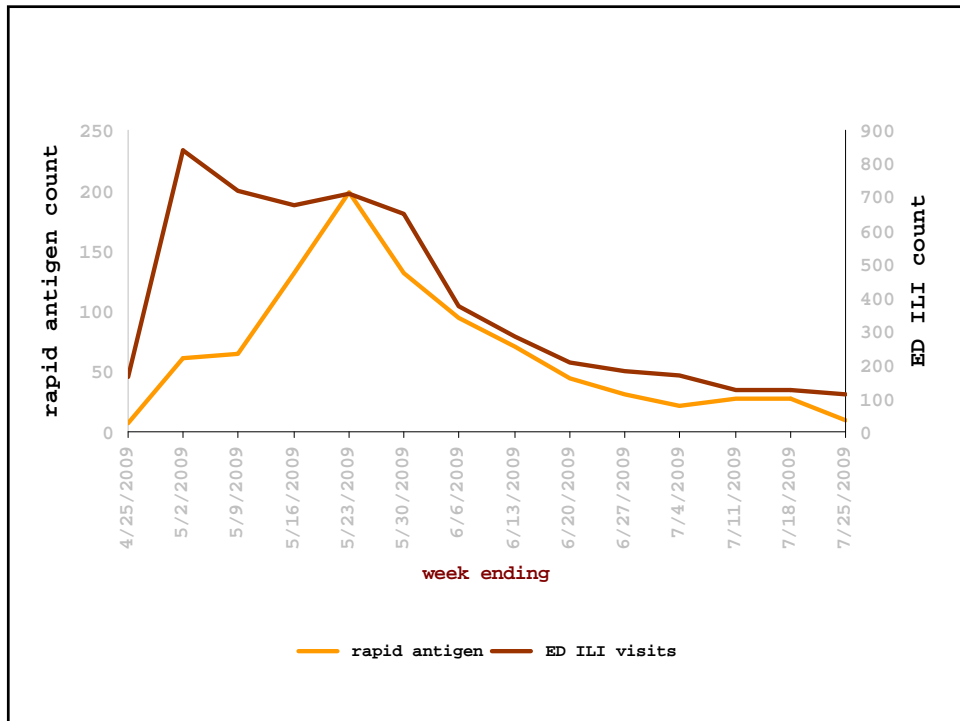
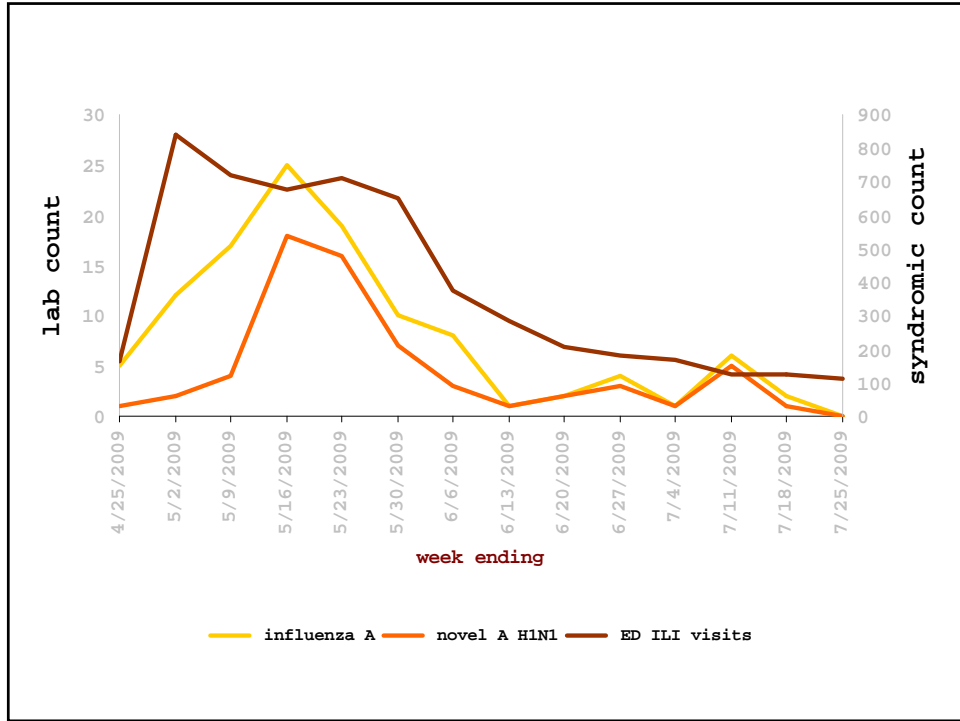
ED vs outpatient



ED vs case reports



ED vs lab

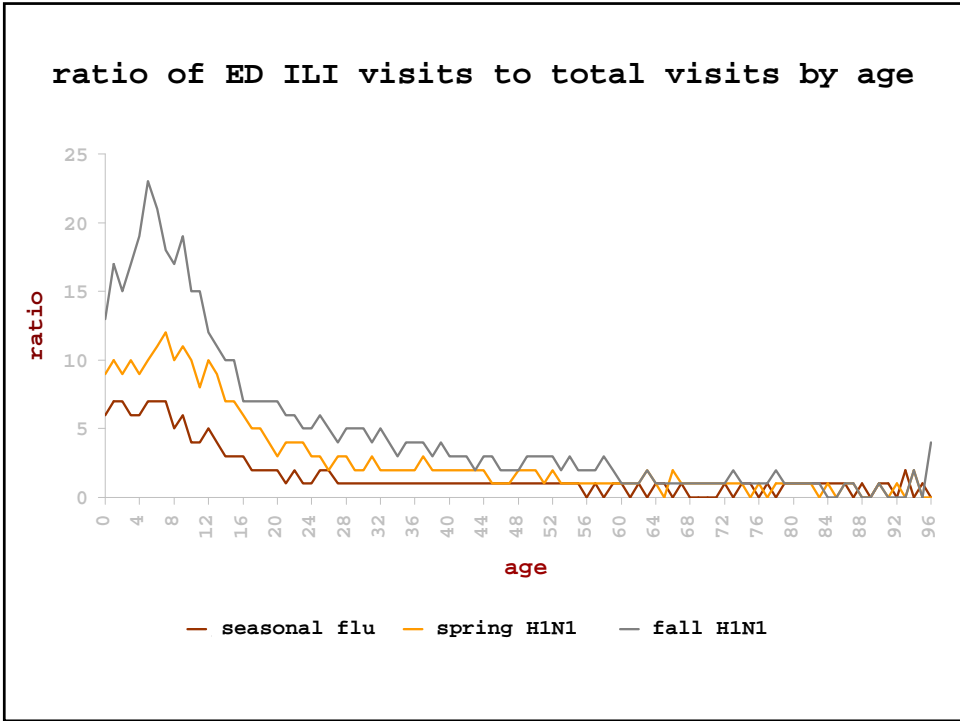


is it **severe** ?

what ,



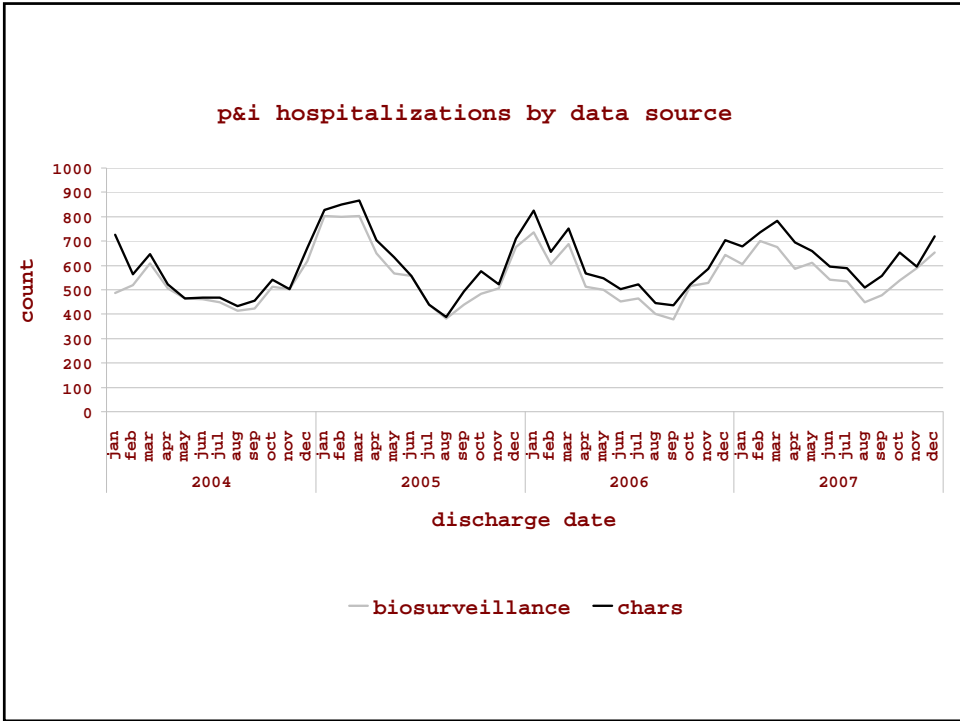
me worry?



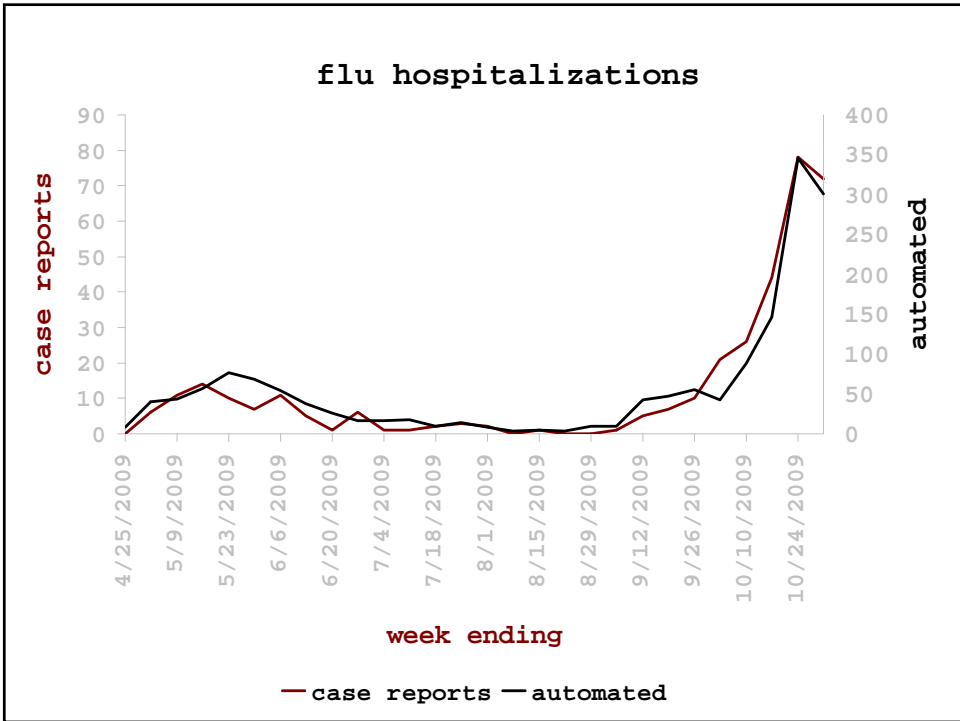
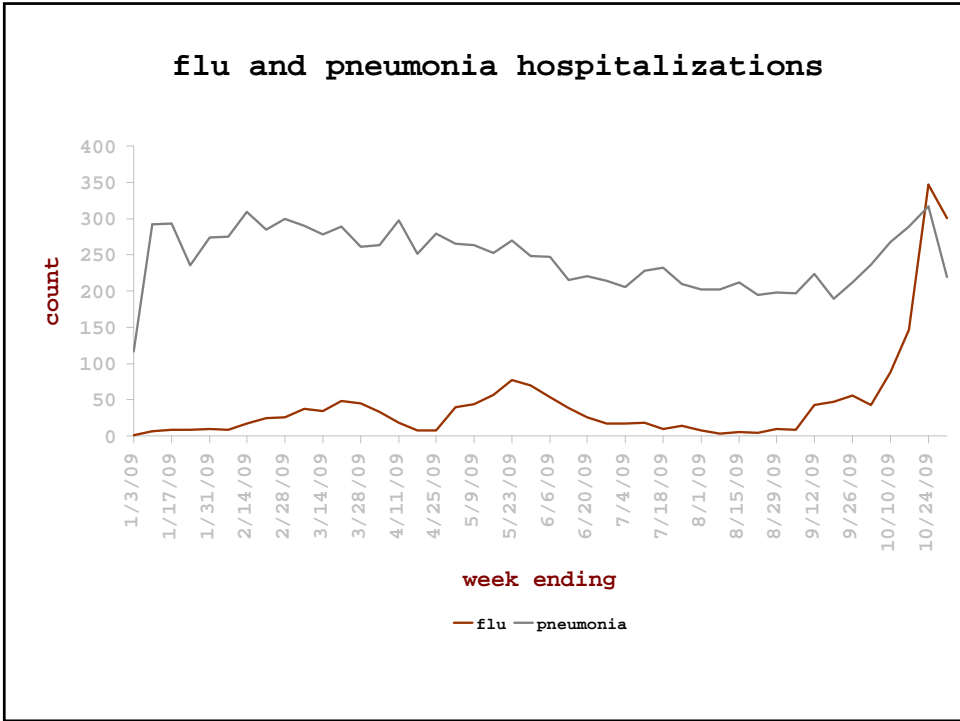
are **admissions** up?

[rewind]

hospital name
admit date
admit time
discharge date
age
sex
zip code
chief complaint
disposition
admission diagnoses
discharge diagnoses
ICU
intubated
patient key
visit key



[fast forward]

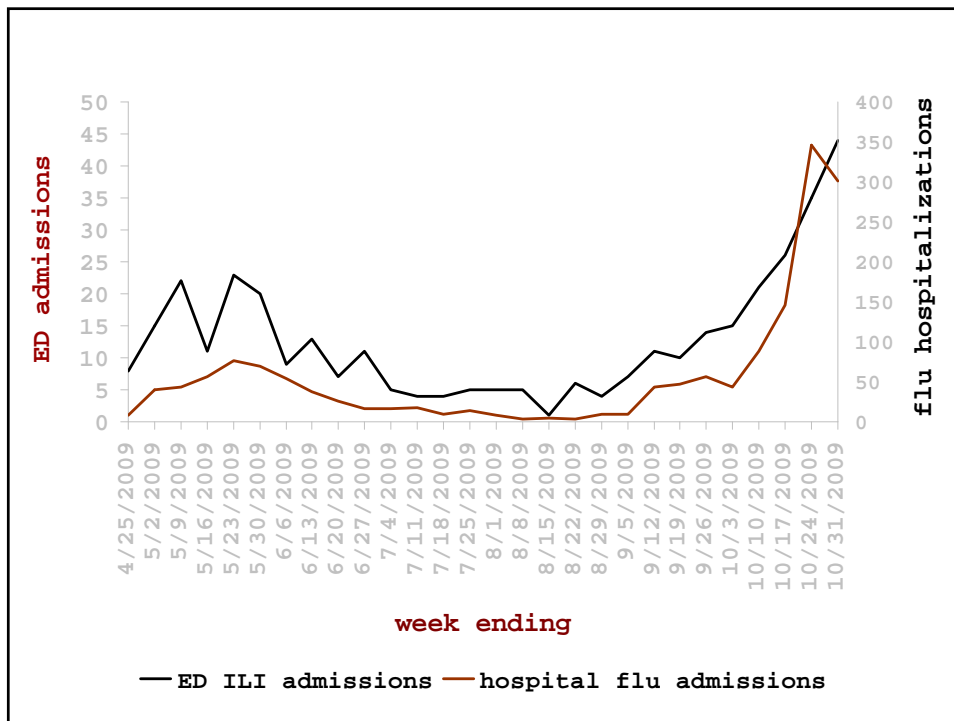


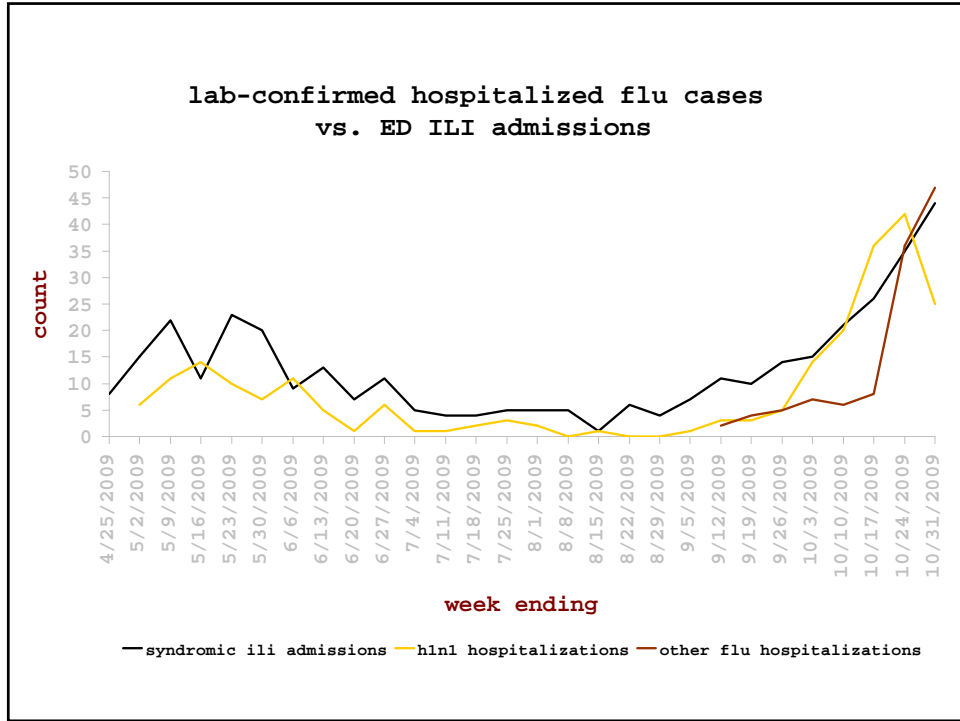
short outbreak
+ one month delay

short outbreak
+ one month delay

= old data

is ED disposition useful?





challenges

thresholds:
pig in a poke?

wish list



acknowledgements

Matt Hanson
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Lin Song
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Yoli Stetson
Michael Strojen
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Nhan Thai
Diana Vinh

that's all, folks