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For our last episkills lesson this semester, we'll pull everything we've learned together by automatically generating a report. Many public health departments manually generate reports using Excel and Microsoft Word. As we've learned, computer code is much faster and less error prone (after checking it, of course) than manual analyses, especially for tasks you do repeatedly.

The people who read your reports don't want to sift through a bunch of ugly computer code to see your results. There are a few different ways to pull together analyses into something more sleek, automatically. The one shown below relies on just one extra line of code to hide your inputs, leaving only figures and output text.

When you look at the output from this fake report, you'll see some weird white spacing. That's only because I have long commented blocks for notes to the reader.. It won't appear if you implement your own version w/o comment blocks.

I will put my notes and asides in commented code blocks below, so they will be hidden when we generate our final report.

Populating the interactive namespace from numpy and matplotlib

(Fake) MERS Annual Report

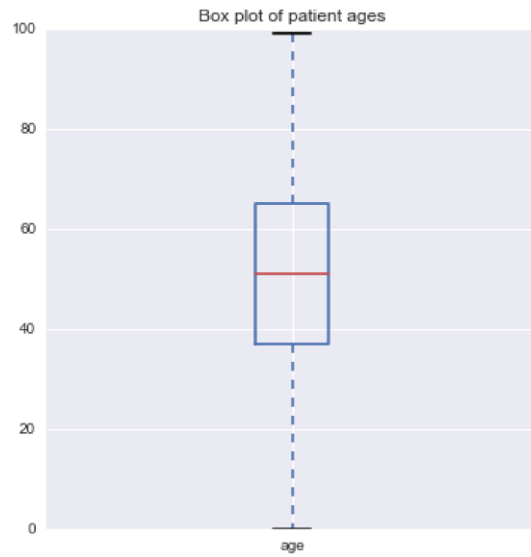
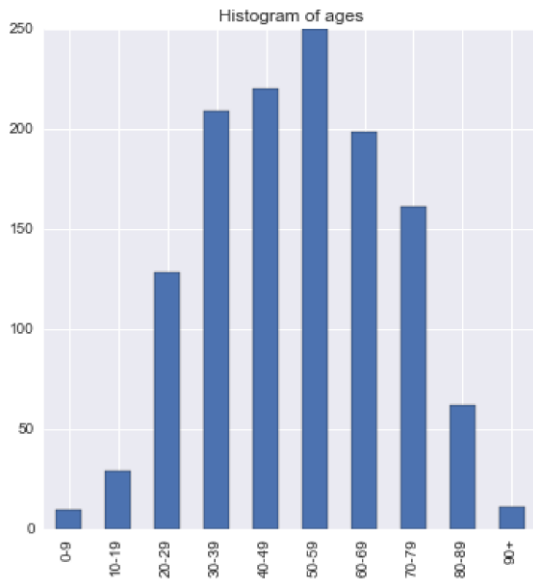


Metro Area Department of Public Health

Current as of: Dec 17 2015

Basic epidemiology

This year there were 391 new cases



The median age of male patients is 52.5, greater than than the average age of female patients at 50.0.

Geographic trends

Average age of MERS patients by sex and country of diagnosis.

country	France	Iran	KSA
gender			
F	NaN	51.0	48.590323
M	51	52.5	52.465710
age_diff	NaN	1.5	3.875387

Mean age of men and women by country

