



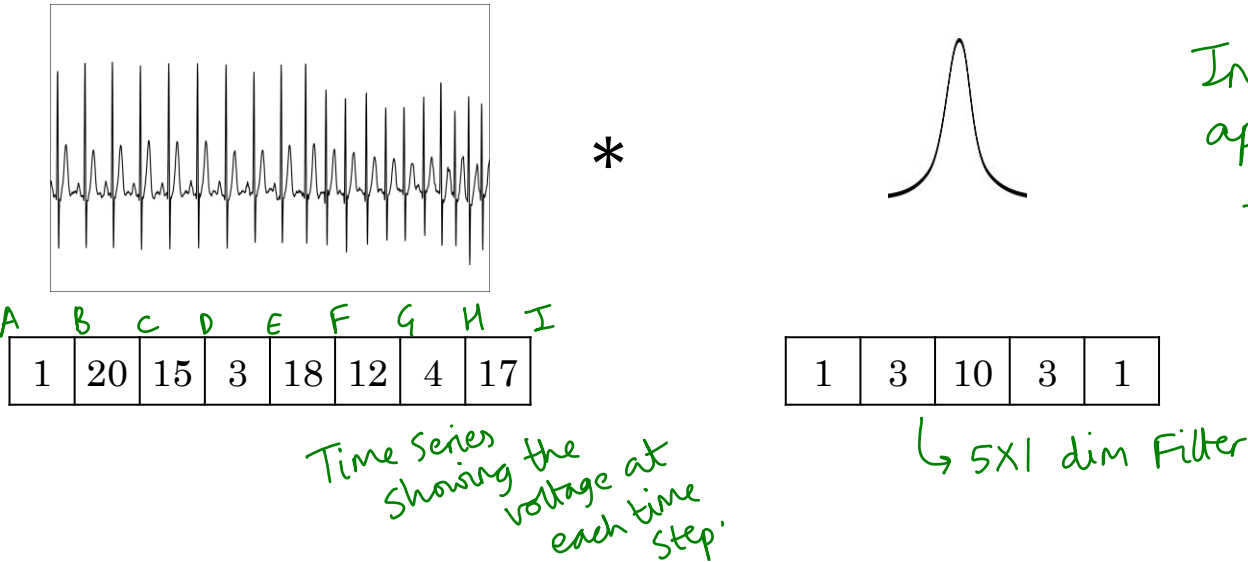
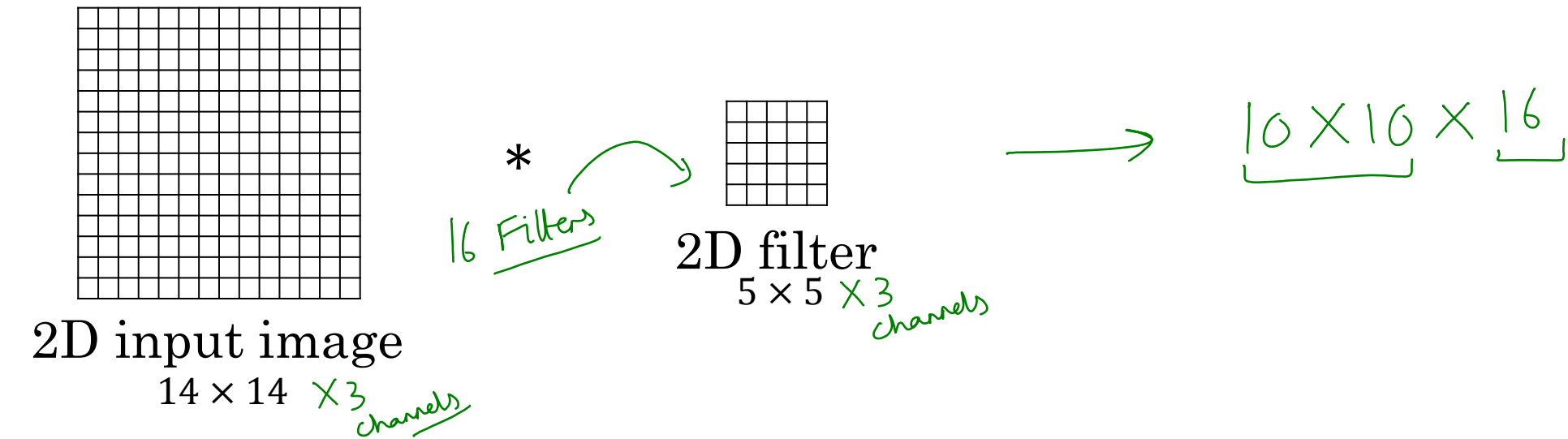
deeplearning.ai

- Images are 2D
- However, this works
with 1D and 3D as
well

Convolutional Networks in 1D or 3D

1D and 3D
generalizations of
models

Convolutions in 2D and 1D



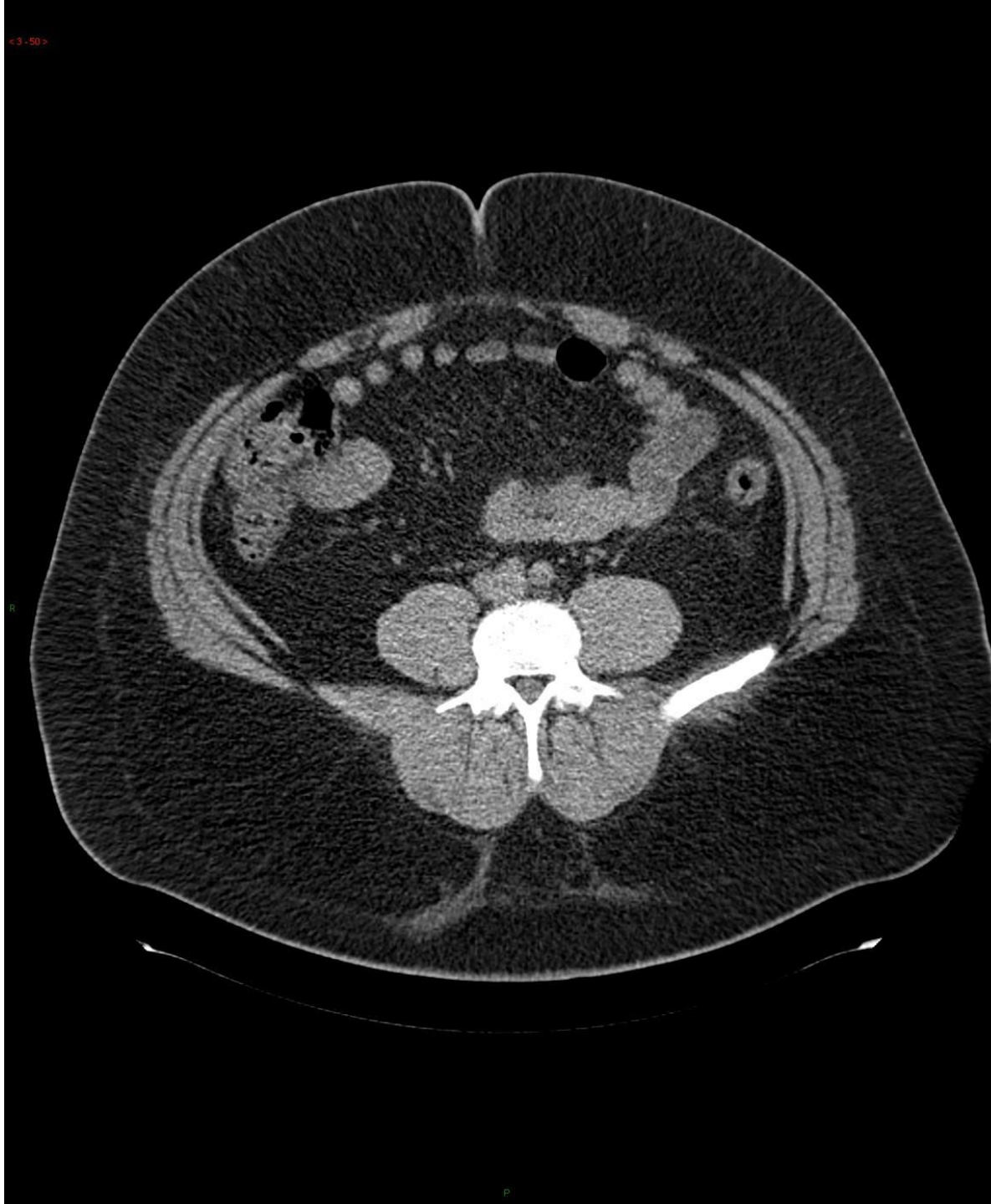
In 2D Image, we applied sliding window for the filter to get the 10x10 Image

We can Apply sliding window to 1D data as well
A → F C → H etc
B → G

14 * 5
↳ 10
If you had more channels/Filters that info would also translate similar to 2D data.

3D data

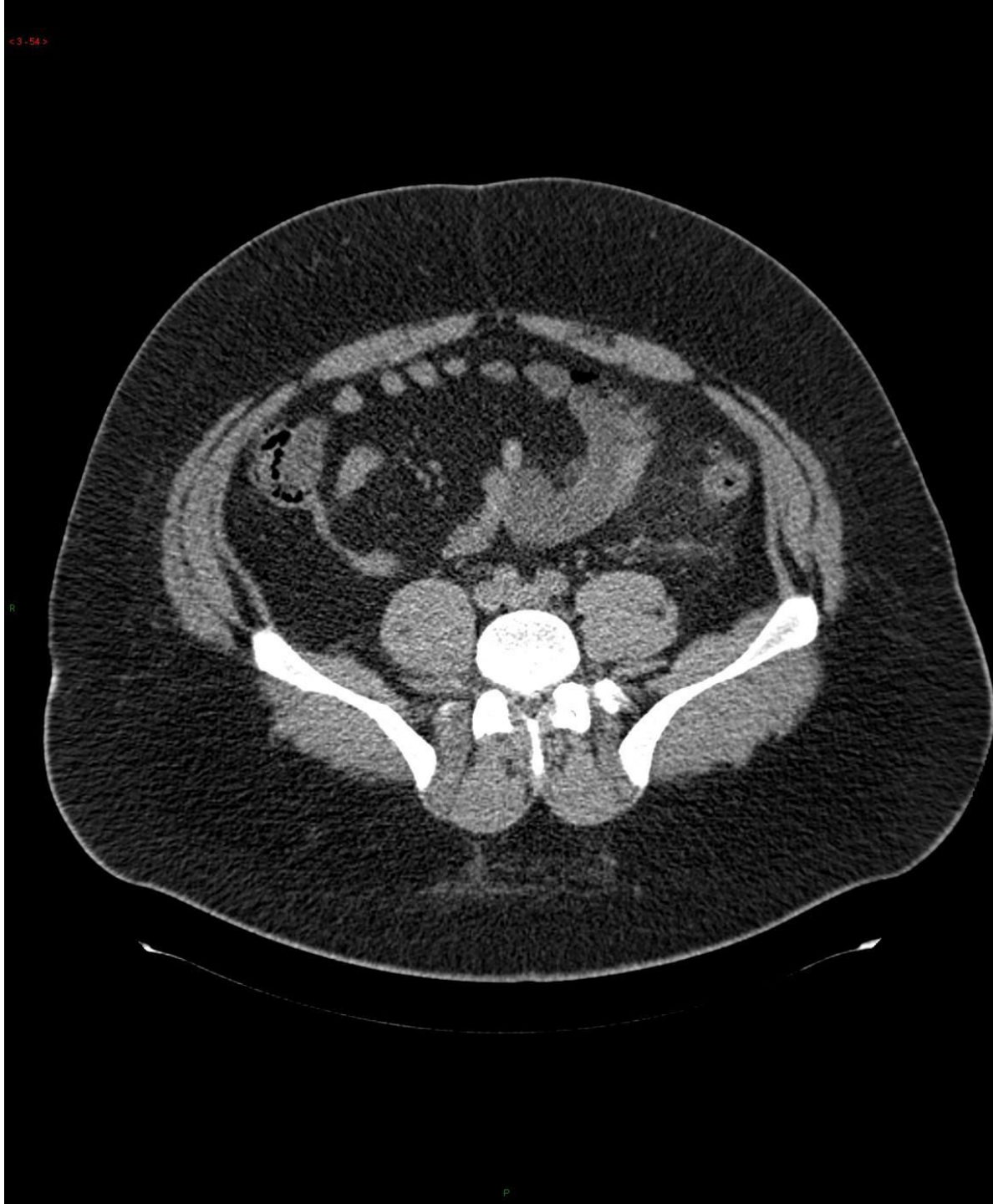
(Next couple of
slides are different
Angles of the same
Image)



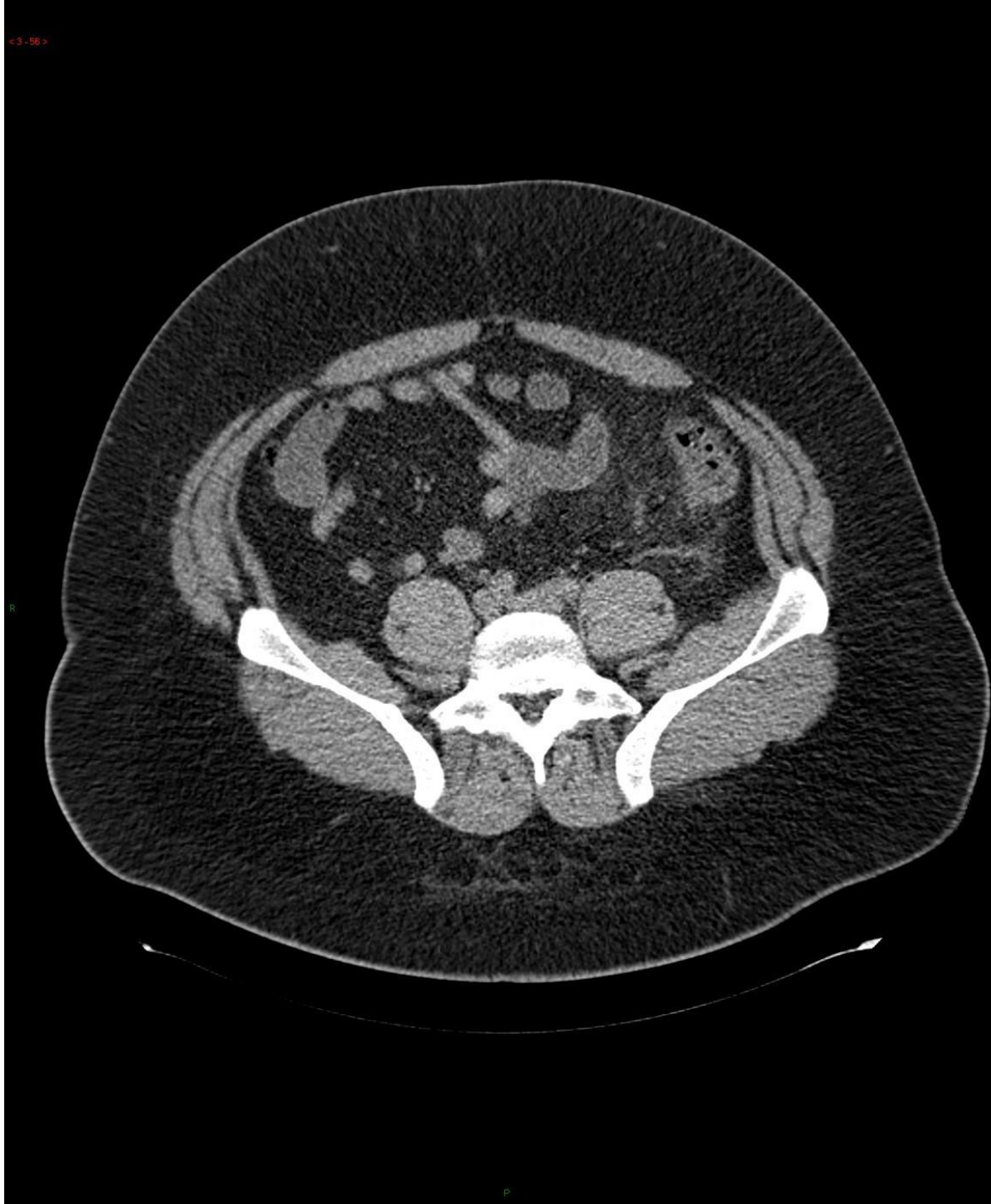
3D data



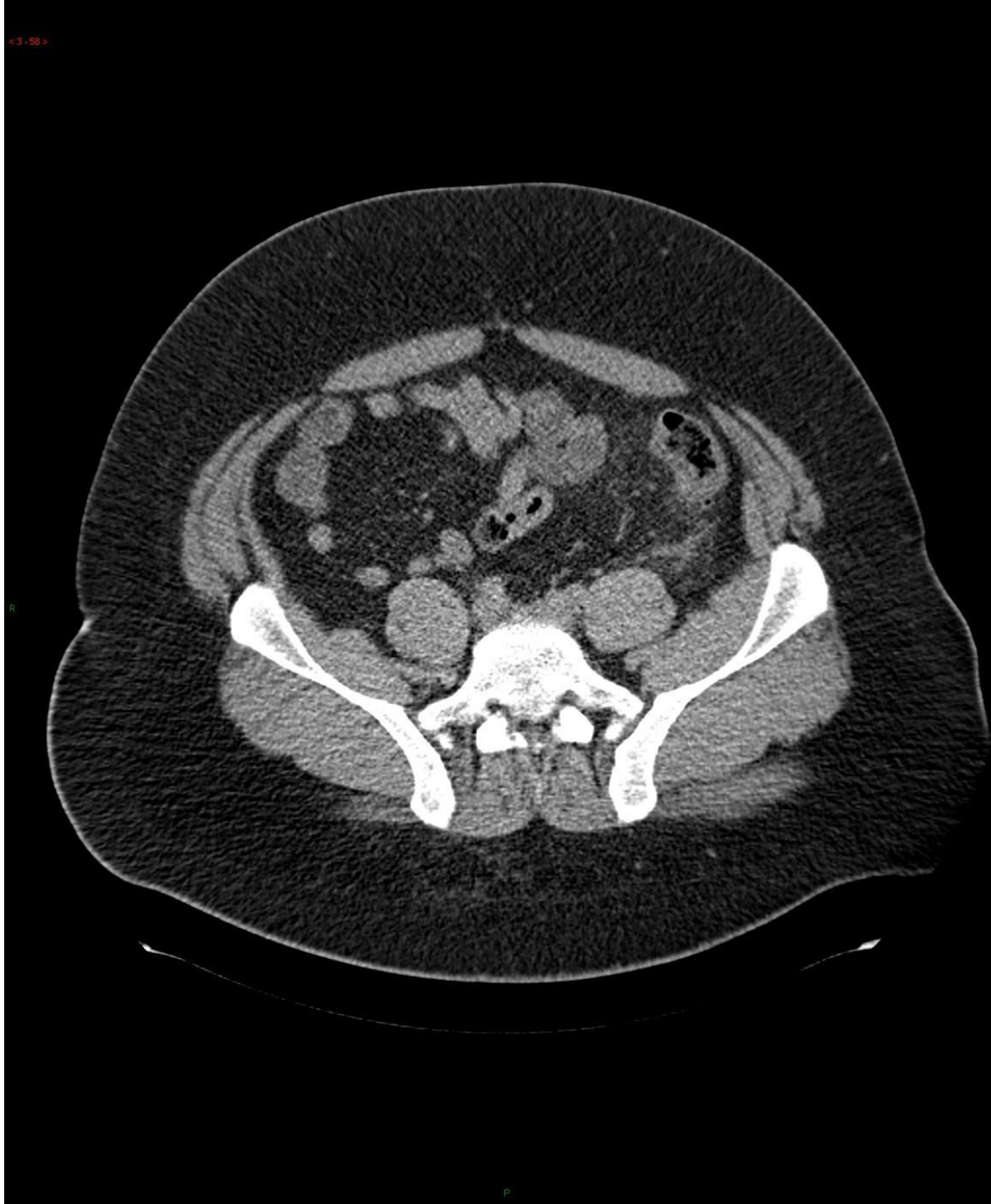
3D data



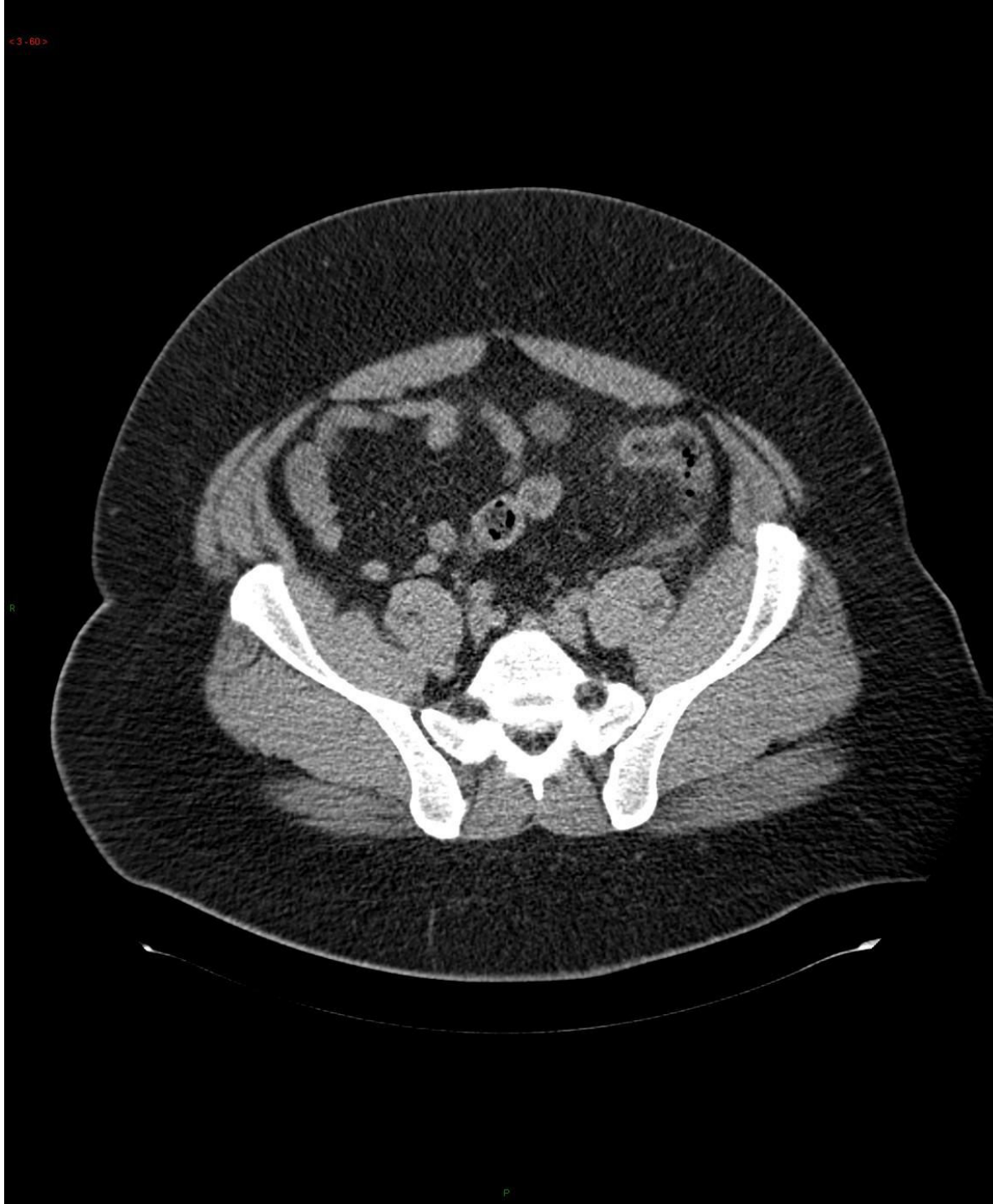
3D data



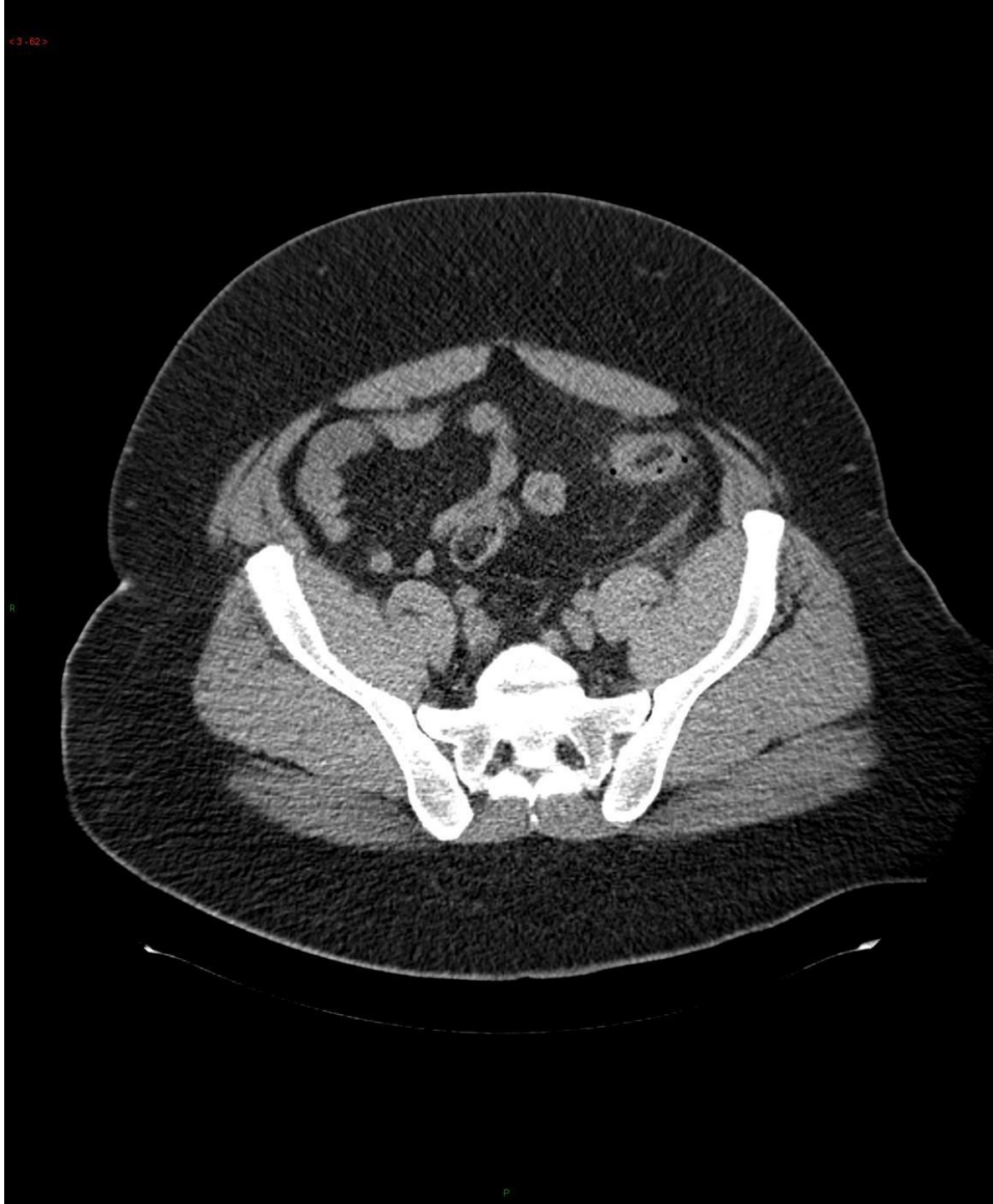
3D data



3D data



3D data



3D data



3D data



3D data



3D data



3D convolution

