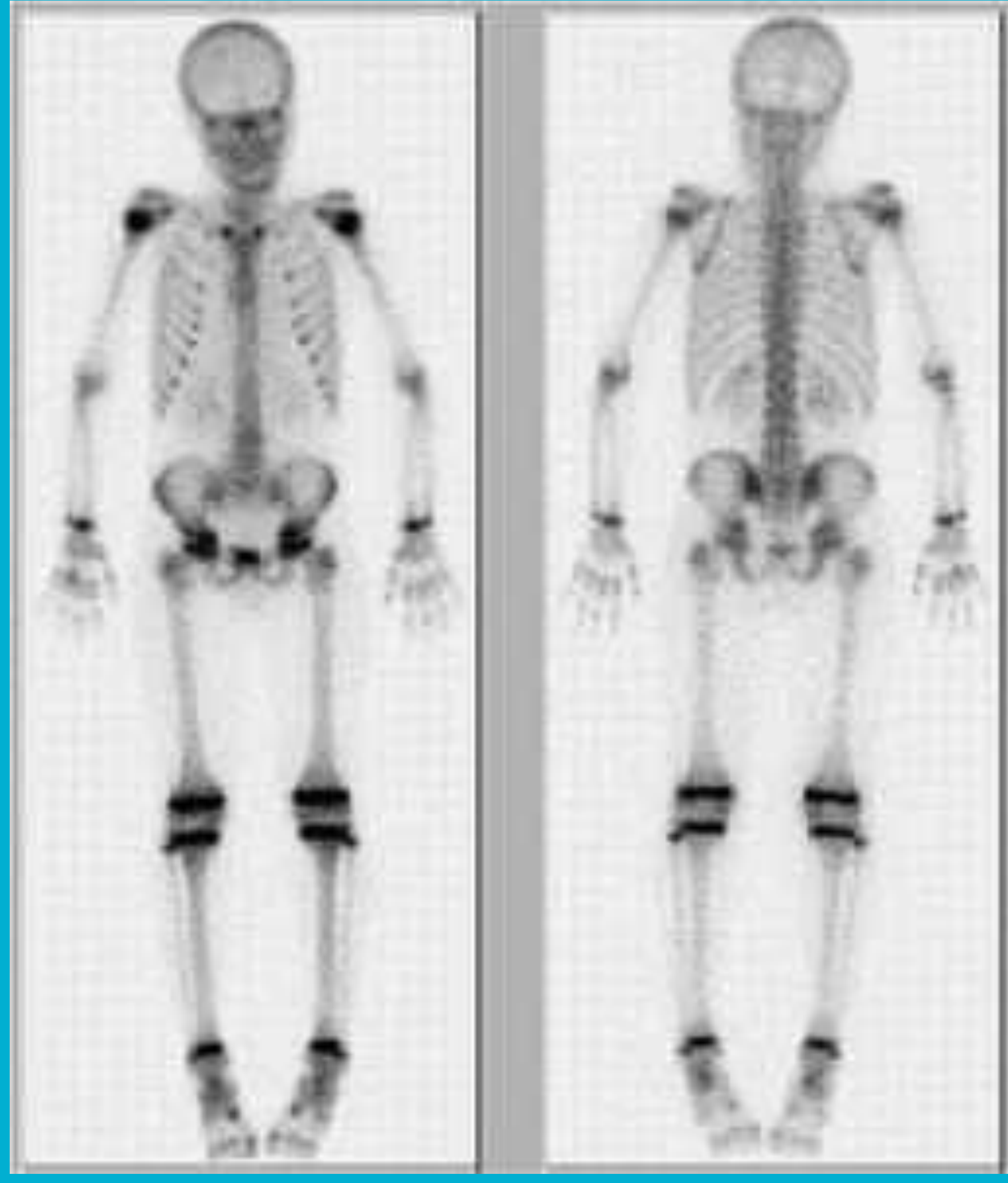


# Nuclear Medicine Radiopharmaceuticals

## Bone scan:

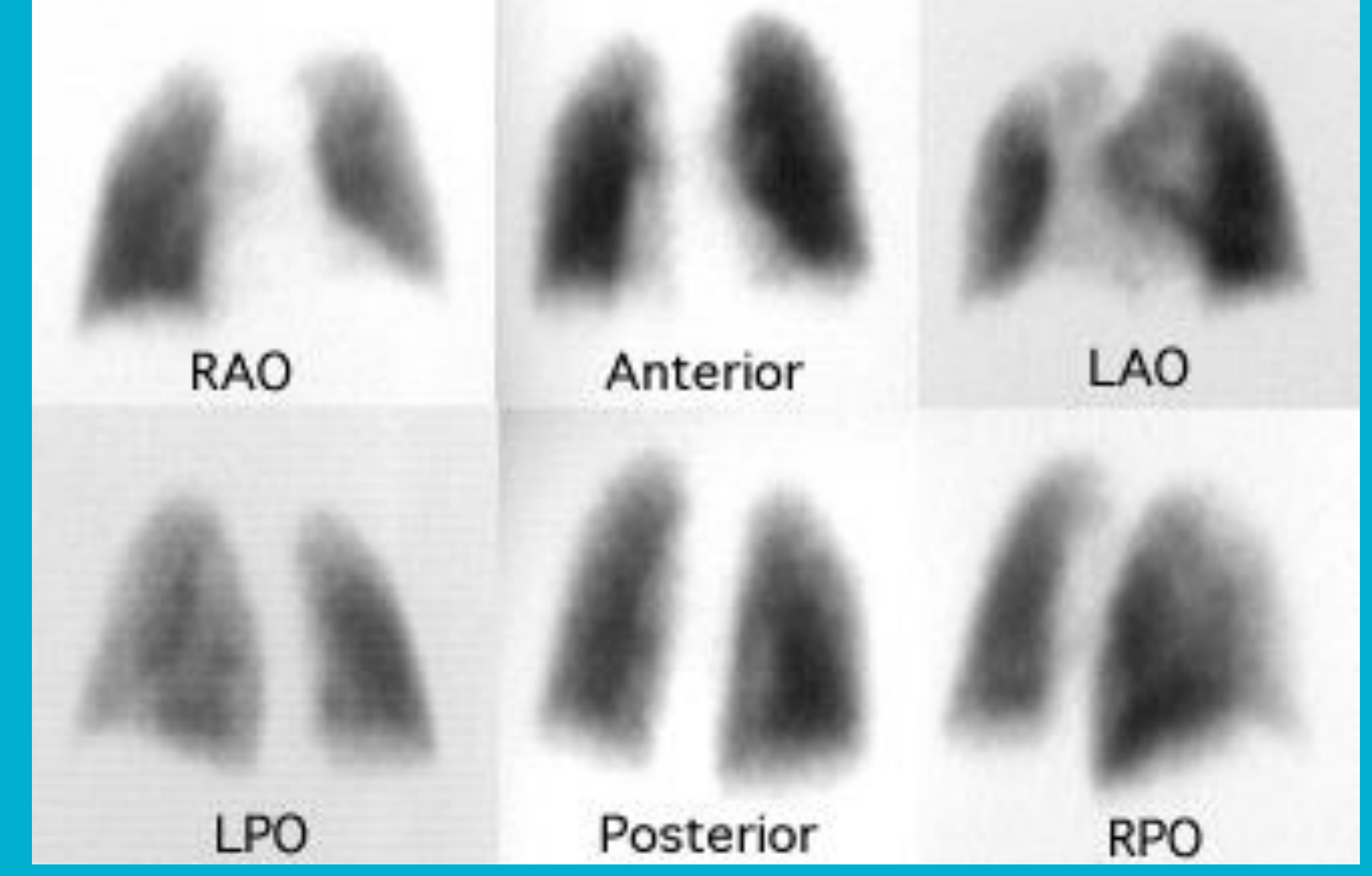
- Technetium 99m
- 6 Hr ½ life
- Evaluation for infection, cancers, or fractures
- Taken up by osteoblast cells within the bones



ABPP-CN, D. A. (n.d.). Retrieved December 05, 2017, from <http://www.medfriendly.com/bone-scan.html>

## Lung scan:

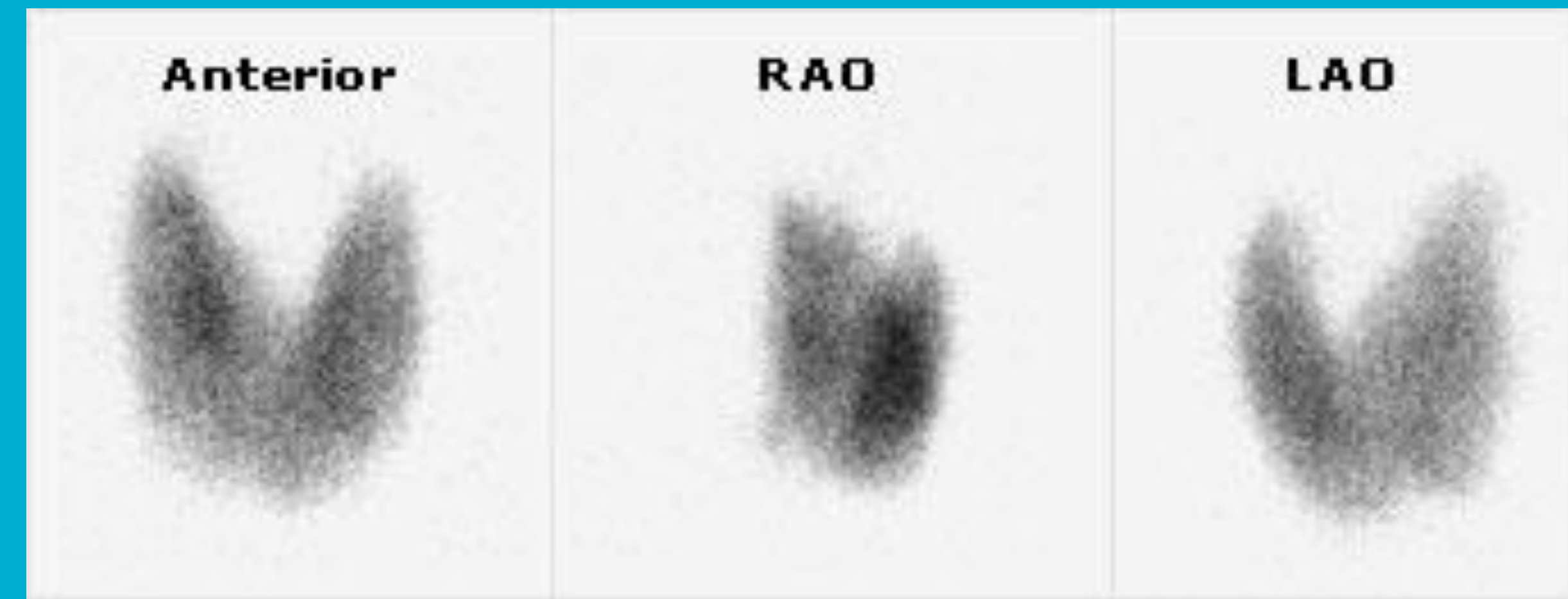
- Macroaggregated albumin w/ iodine
- 131 8 day ½ life
- Perfusion scans evaluate arterial blood flow within the lungs
- Taken up by the arterial vessels during perfusion studies
- Ventilation scans evaluate volume capacity



Findings: (n.d.). Retrieved December 05, 2017, from [http://www.med.harvard.edu/JPNM/TF94\\_95/Nov15/FindingsNov15.html](http://www.med.harvard.edu/JPNM/TF94_95/Nov15/FindingsNov15.html)

## Thyroid scan:

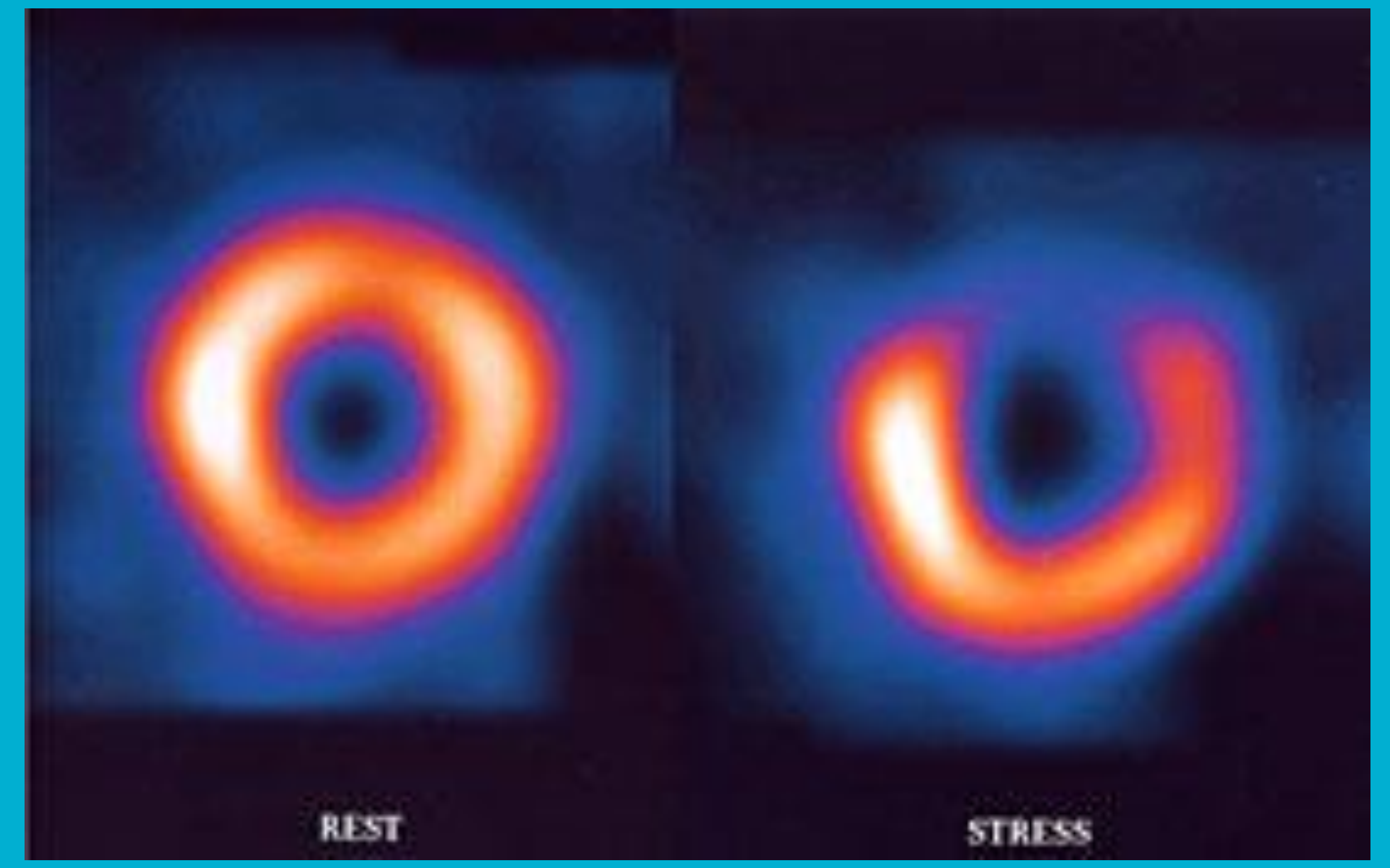
- 99mTc Pertechnetate
- 6 Hr ½ life
- Evaluation for hypo/hyperthyroidism, or palpable nodules



2013, B. C. (n.d.). Thyroid Scan (Thyroid Scintigraphy). Retrieved December 05, 2017, from <http://www.childrenshospital.org/conditions-and-treatments/treatments/thyroid-scan>

## Myocardial perfusion scan:

- Thallium 201
- 73.1 Hr ½ life
- Evaluation of arterial blood flow to the myocardium of the heart
- Taken up by the myocardial Muscle within the heart



(n.d.). Retrieved December 05, 2017, from <http://www.texasheart.org/HIC/Topics/Diag/dinuc.cfm>