Breast uptake

http://humanhealth.iaea.org
Physiologic FDG Uptake in Breasts

Premenopausal

Postmenopausal

Postmenopausal on Hormone Replacement

Breastfeeding

Courtesy of Dr. Barry Siegel
Mild bilateral FDG activity is within normal limits for hormonally active breast tissue in a post-menopausal female.
Lactating breasts

Marked bilateral FDG activity in the breast tissue is explained by breastfeeding.
55 year old female with bronchogenic carcinoma. Bilateral breast prostheses seen on CT, with mild FDG activity in the right anterior chest wall muscle (arrow) adjacent to the ruptured breast prosthesis due to reactive inflammatory change.
Teaching points

• Physiologic FDG uptake in the normal breasts are usually homogeneous

• There is a correlation between menstrual cycle and FDG uptake, with highest uptake in 2\textsuperscript{nd} half of cycle


• No breast uptake greater than liver in post-menopausal women who are not on hormone replacement therapy (HRT)

• Women on HRT can have mild bilateral FDG uptake