

# LET'S READ OUT



**Topic:**  
**Pesky  
Protocols**

**Host:**

**Lindsey Negrete, M.D.**

**Guest:**

**A.J. Mariano, M.D.**

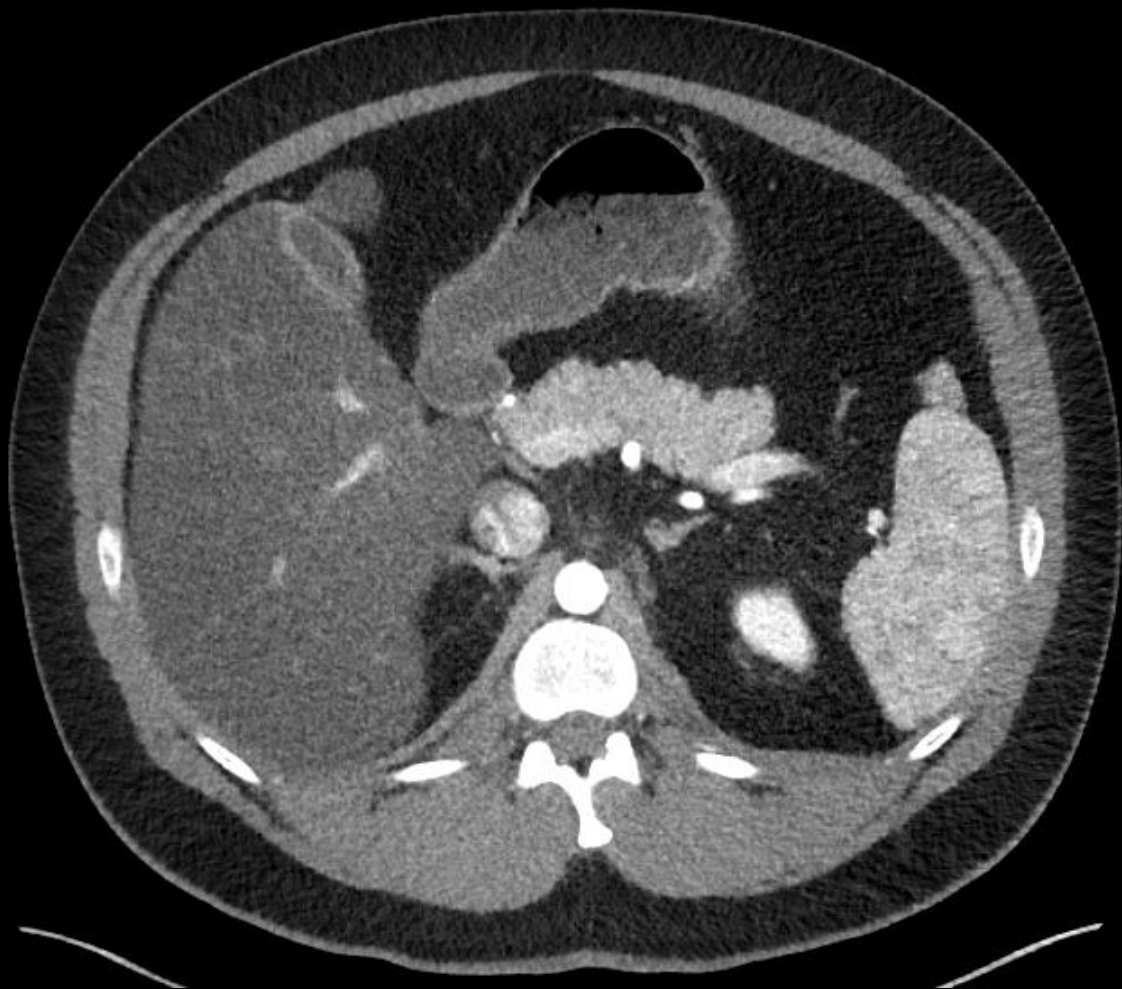
Clinical Assistant Professor  
Stanford University

*a radiology podcast*

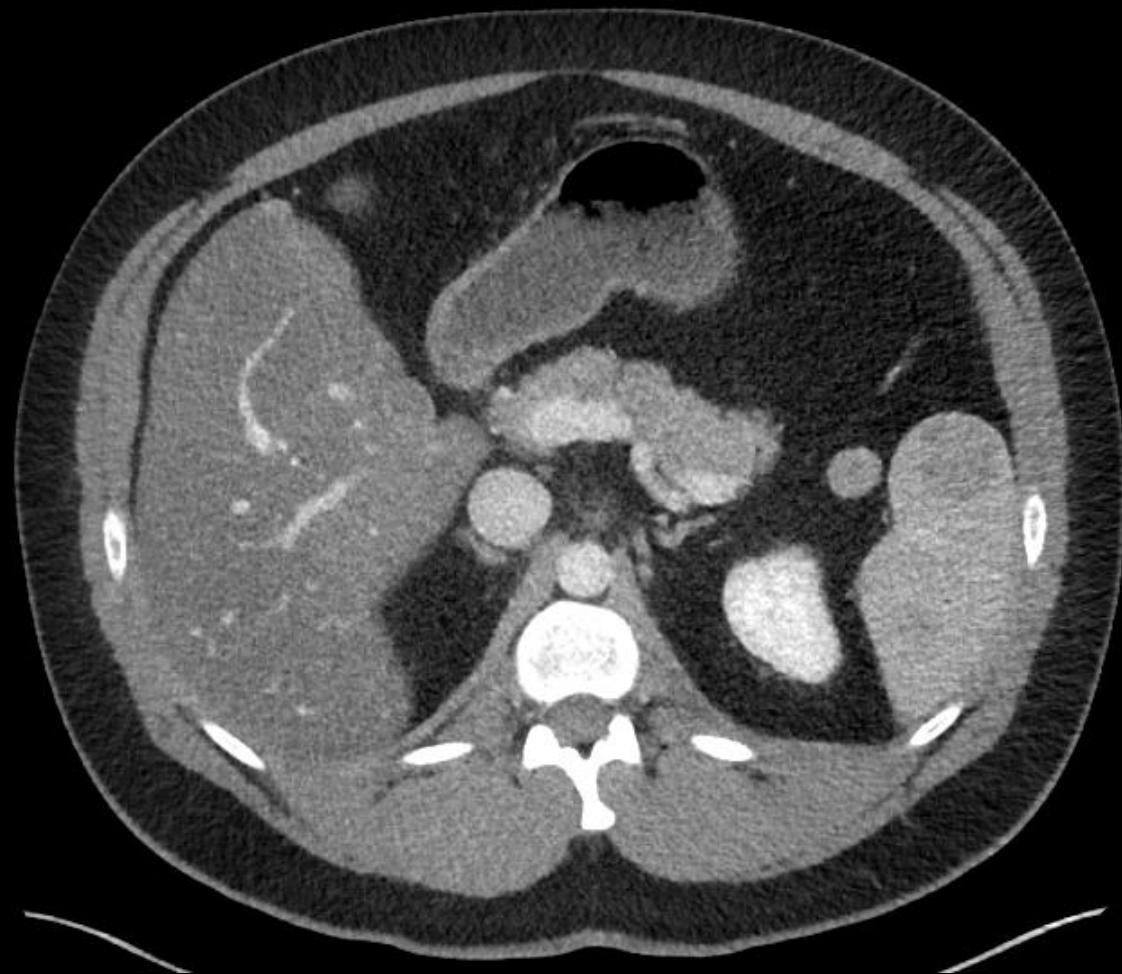
# Abdomen: Scan Timing

Phase	Timing
Early Arterial	15-20 sec
Corticomedullary	25-35 sec
Late Arterial	45 sec
Portal Venous	70 sec
Nephrographic	100 sec
Routine Delay	3 – 5 minutes
IVP Renal Delay	8-10 minutes
Cholangiocarcinoma Delay	15 minutes
Adrenal Delay	15 minutes

# Biphasic Pancreas CT

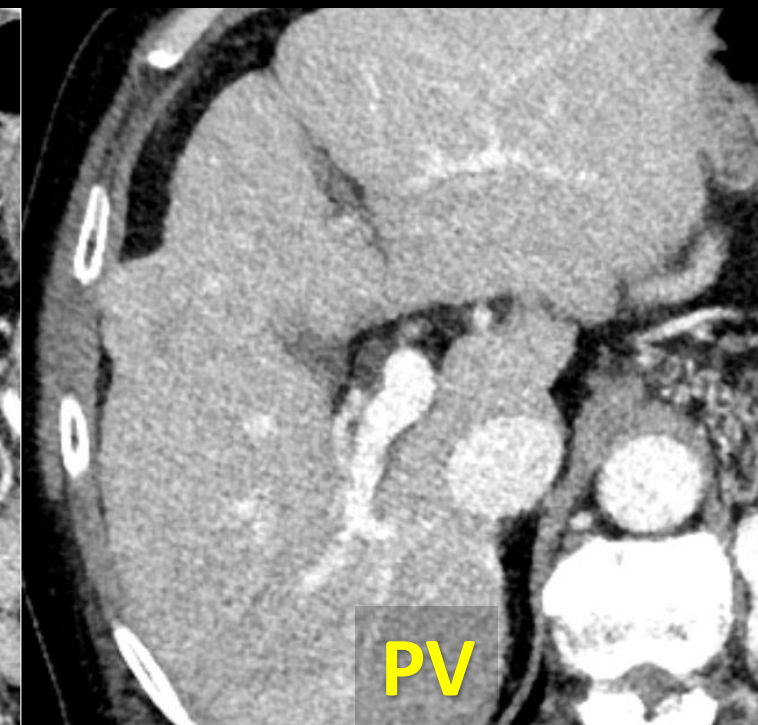


**Late Arterial**



**PV**

# Triphasic Liver CT



# “Quad” Phase Liver CT

Lipiodol  
from TACE



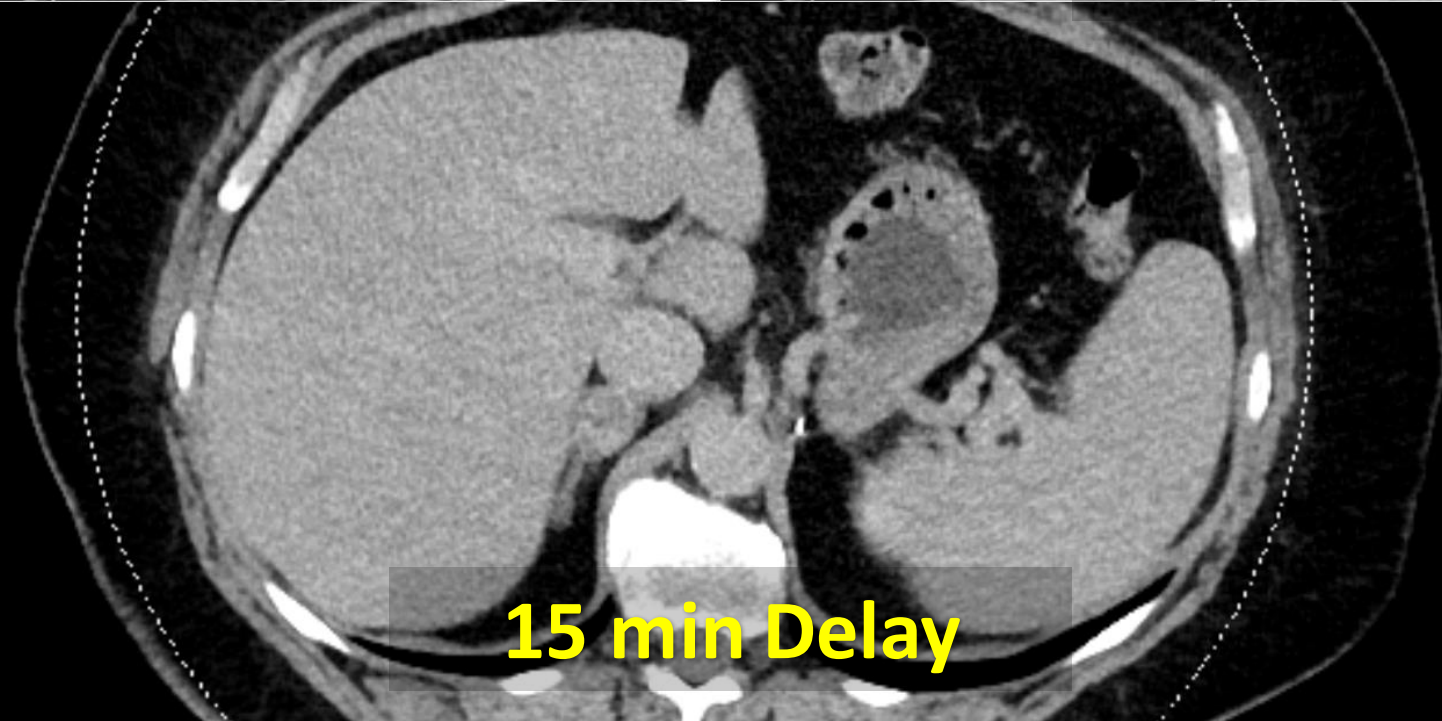
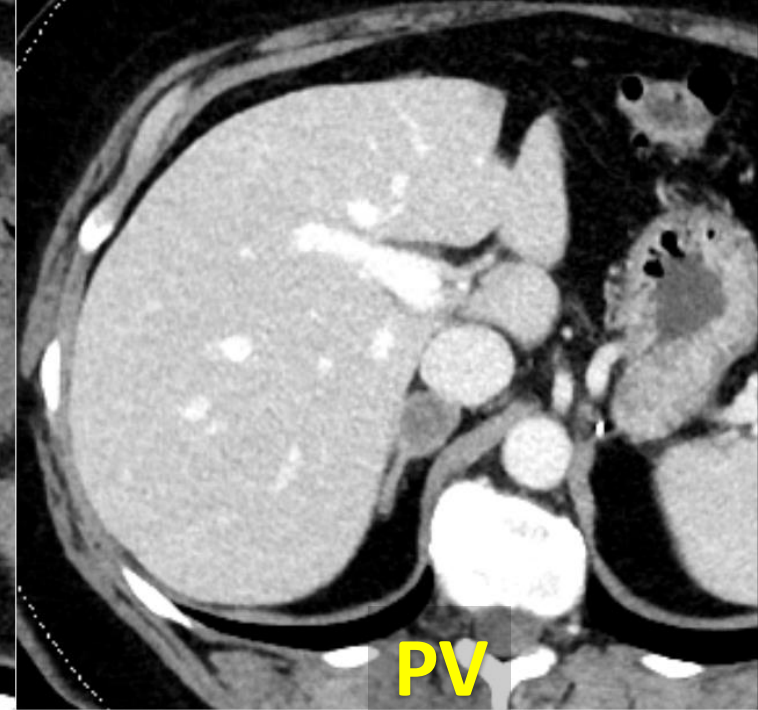
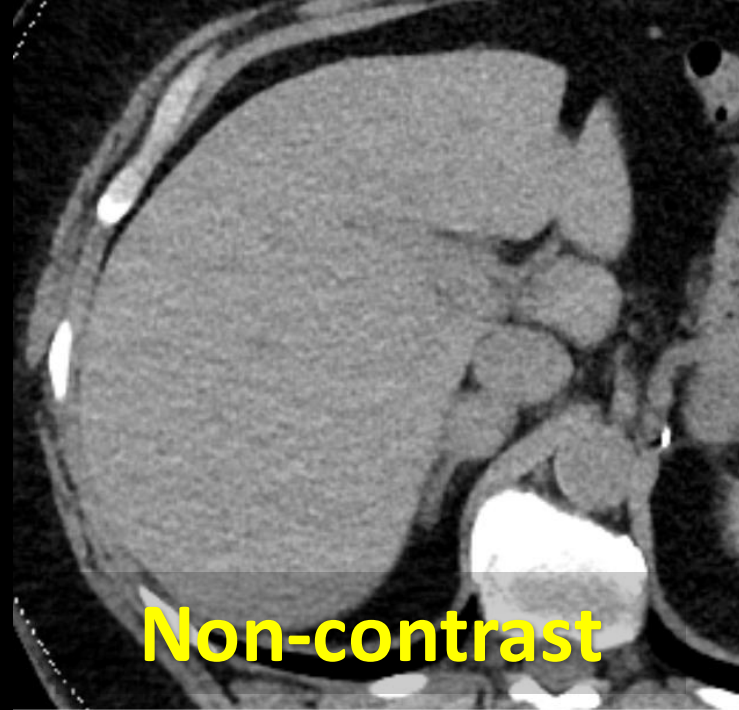
Non-contrast

Late Arterial

PV

Delay

# Adrenal CT Protocol



# Renal Mass CT Protocol

