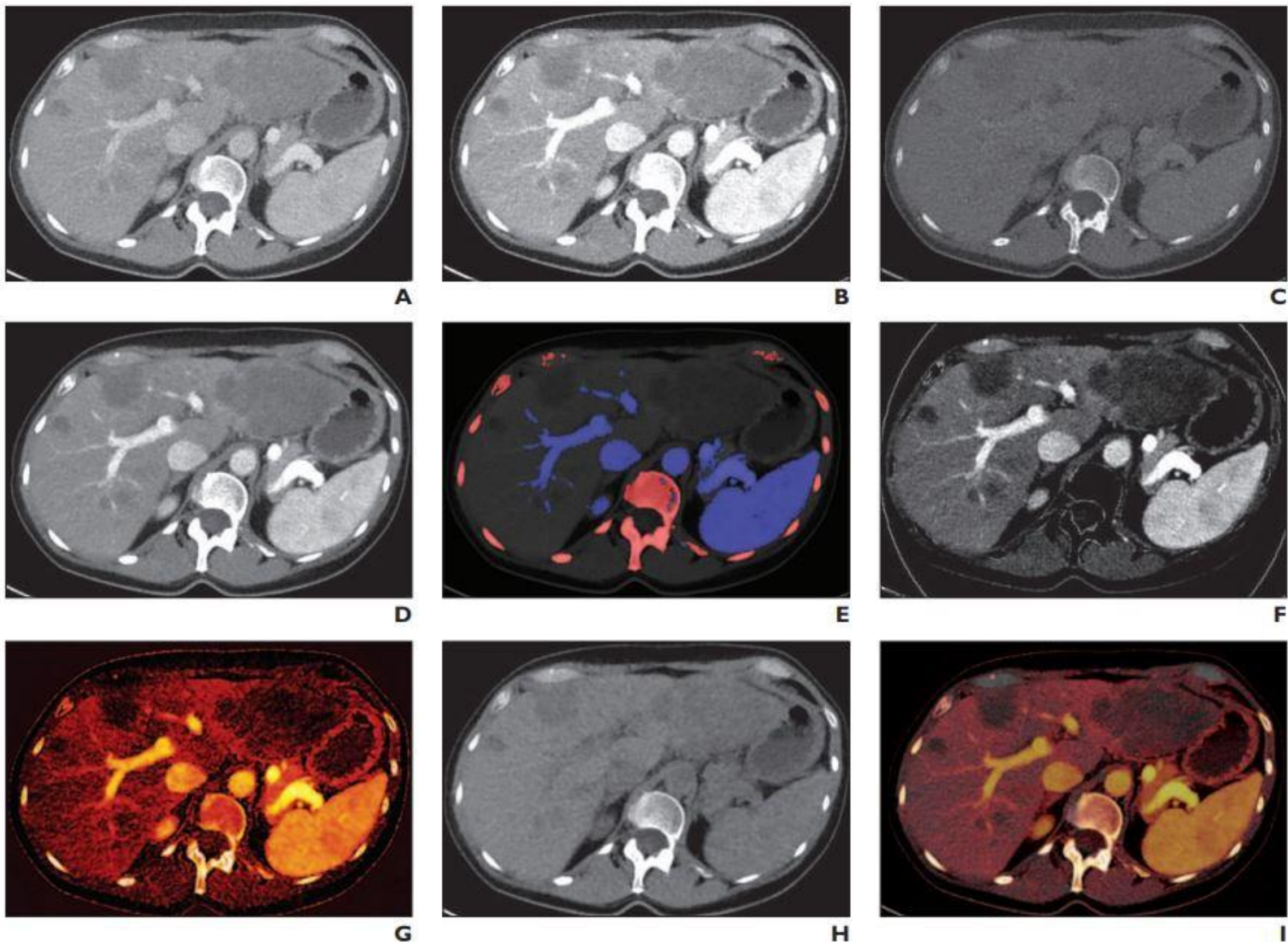# General Principles of DECT

Fig. 4—Clinical example dataset obtained on dual-source CT scanner using 0.4-mm stannum filter at 140 kVp and 71 mAs and 100 kVp and 69 mAs with overall CT dose index of 5.7 mGy. Images were generated with Syngo dual-energy software (version VE32B, Siemens Healthcare) of 72-year-old woman with liver metastasis from colorectal cancer.

A, Image acquired at 140 kVp using stannum filter.

B, Image acquired at 100 kVp.

C, Quasi monoenergetic image extrapolated to 140 keV.

D, Optimum contrast image after "sigmoidal blending."

E, Algorithm differentiates iodine (*blue*) from calcium (*red*).

F, Angiographic image after bone removal.

G, Algorithm quantifies iodine by color-coding iodine in orange.

H, Virtual unenhanced image after iodine subtraction.

I, Fusion of color-coded iodine image and unenhanced image.