

Patient (adult, non pregnant) with an indication for MR imaging procedure

No contraindications such as implantable devices, or metallic implants

Assess risk of renal impairment based on history

No history or risk factors for
estimated GFR $> 30\text{ml}/\text{min}/1.73\text{m}^2$

No laboratory testings
required

Use GBCAs according to
labeling

History or risk factors for
estimated GFR $< 30\text{ml}/\text{min}/1.73\text{m}^2$

Laboratory testings: GFR $< 30\text{ml}/\text{min}/1.73\text{m}^2$
→ Check Indication for CMR:
alternative imaging
techniques available?

MR imaging procedure is irreplaceable

Not on dialysis
Discuss risks with patient
good documentation
Use low- risk GBCAs
use lowest possible dosage,
Close monitoring during and after
imaging procedure

Dialysis- patient
Discuss risks with patient, good
documentation
Use low- risk GBCAs
Use lowest possible dosage
Close monitoring during and after
imaging procedure
SCHEDULE FOR HEMODIALYSIS
WITHIN 2h AFTER IMAGING
PROCEDURE

Risk factors for chronic kidney disease: Diabetes, Hypertension, heart disease, smoking, obesity, high cholesterol, family history of kidney disease, age 65 or older, urinary tract infections/ obstructions, systemic infections or autoimmune diseases (Levey 2003)