

Appendix

Below are the MR settings from all planning experiments

1. Scout

Position

Slice Groups				Presat Blocks			
Slice Group #	1	+	-	Offset X	0.0		
Slices in this Group	1			Offset Y	0.0		
Total Slices	3			Offset Z	0.0		
Thickness	1.0			Slice Gap	0.0		
FOV	60.00			FOV Ratio	1.000		
Slice Order							
Comments							

	Offset	Thickness
<input type="radio"/> Feet	30.5	5.0
<input type="radio"/> Head	30.5	5.0
<input type="radio"/> Left	30.5	5.0
<input type="radio"/> Right	30.5	5.0
<input type="radio"/> Front	1.0	5.0
<input type="radio"/> Back	1.0	5.0
<input type="button" value="Reset"/>		

Sequence

Sequence	SCOUT	Filter	None
Flip angle	30	Batch size	0
Averages	1	Views	192
TE	8	TR	80
		<input checked="" type="checkbox"/> Reverse order	
		<input checked="" type="checkbox"/> Hold	

Admin

PPR Filename	Default PPR	Default PPR file: gre2scout_nongated.ppr
Samples	512	<input checked="" type="checkbox"/> 2xOversample

2. GRE scout

Position

Slice Groups				Presat Blocks				
Slice Group #	1	Offset X	-3.6	<input type="radio"/> Feet	Offset	30.5	Thickness	5.0
Slices in this Group	5	Offset Y	2.3	<input type="radio"/> Head	30.5	5.0		
Total Slices	15	Offset Z	1.0	<input type="radio"/> Left	30.5	5.0		
Thickness	1.0	Slice Gap	0.6	<input type="radio"/> Right	30.5	5.0		
FOV	60.00	FOV Ratio	1.000	<input type="radio"/> Front	4.2	5.0		
Slice Order				<input type="radio"/> Back	4.2	5.0		
Comments				Reset				

Sequence

Sequence		Filter		None			
Flip angle	40	Batch size	0	Gating mode	1	<input checked="" type="checkbox"/> Fat Sat	
Missing lines	0	Lines per seg	0	Views 3D	1	<input checked="" type="checkbox"/> Slice clustering	
Averages	1	Dummy lines	0	PE1 order	0	<input checked="" type="checkbox"/> MGE(0)/card(1)	
Echoes/Frames	1	Experiments	1	Sample period	200	<input checked="" type="checkbox"/> 2xOversample	
Samples	192	Views	160			<input checked="" type="checkbox"/> Prep pulse	
Effective views	128	TD	0			<input checked="" type="checkbox"/> Reverse order	
RF pulse	1	3D slab thk (%)	80			<input checked="" type="checkbox"/> RF spoiling	
Averages (slice)	1	TE(0=min)	0			<input checked="" type="checkbox"/> Slice navigator	
TI	1000	TR(0=min)	150				
No of FA	0	Averages (block)	1				

Admin

PPR Filename		Default PPR file: flash612.ppr			
gr_comp_scale	-10	Read crusher	0	Phase correction	0
Interleave	2	Slice spoiler amp	0	Read balance	0
Refocus time	450	MGE echoes gap	0	Read prephase	1
TE[us](0=min)	0	Ramp time	220	Slice balance	0
TR extra [us]	0			Slice refocus	1
				Slice rephase	0

☒ Inc delay

3. Multislice scout

Position

Slice Groups		Offset X		Offset Y		Offset Z		Slice Gap		FOV Ratio	
Slice Group #	1	Offset X	0.6	Offset Y	4.8	Offset Z	1.6	Slice Gap	0.5	FOV Ratio	1.000
Slices in this Group	4										
Total Slices	4										
Thickness	1.0										
FOV	35.00										
Slice Order											
Comments											

Presat Blocks		
	Offset	Thickness
<input type="radio"/> Feet	17.5	5.0
<input type="radio"/> Head	17.5	5.0
<input type="radio"/> Left	18.0	5.0
<input type="radio"/> Right	18.0	5.0
<input type="radio"/> Front	3.3	5.0
<input type="radio"/> Back	3.3	5.0
Reset		

Sequence

Sequence		Filter		None	
Flip angle	20	Batch size	0	Gating mode	1
Missing lines	0	Lines per seg	0	Views 3D	1
Averages	3	Dummy lines	0	PE1 order	0
Echoes/Frames	1	Experiments	1	Sample period	200
Samples	192	Views	192		
Effective views	128	TD	0		
RF pulse	7	3D slab thk (%)	80		
Averages (slice)	1	TE(0=min)	4		
TI	1000	TR(0=min)	40		
No of FA	0	Averages (block)	1		

<input checked="" type="checkbox"/> Fat Sat
<input checked="" type="checkbox"/> Slice clustering
<input checked="" type="checkbox"/> MGE(0)/card(1)
<input checked="" type="checkbox"/> 2xOversample
<input checked="" type="checkbox"/> Prep pulse
<input checked="" type="checkbox"/> Reverse order
<input checked="" type="checkbox"/> RF spoiling
<input checked="" type="checkbox"/> Slice navigator

Admin

PPR Filename		Default PPR file: flash612.ppr	
gr_comp_scale	-10	Read crusher	0
Interleave	2	Slice spoiler amp	0
Refocus time	450	MGE echoes gap	0
TE[us](0=min)	0	Ramp time	220
TR extra [us]	0		

Phase correction	0	<input checked="" type="checkbox"/> Inc delay
Read balance	0	
Read prephase	1	
Slice balance	0	
Slice refocus	1	
Slice rephase	0	

4. Short and Long Chamber CINE

Position

Slice Groups		Presat Blocks	
Slice Group #	1	Offset X	-1.3
Slices in this Group	1	Offset Y	4.4
Total Slices	1	Offset Z	-0.2
Thickness	1.0	Slice Gap	0.0
FOV	35.00	FOV Ratio	1.000
Slice Order			
Comments		Reset	

Sequence

Sequence		Filter		None			
Flip angle	20	Batch size	0	Gating mode	1	<input checked="" type="checkbox"/> Fat Sat	
Missing lines	0	Lines per seg	0	Views 3D	1	<input checked="" type="checkbox"/> Slice clustering	
Averages	3	Dummy lines	0	PE1 order	0	<input checked="" type="checkbox"/> MGE(0)/card(1)	
Echoes/Frames	12	Experiments	1	Sample period	150	<input checked="" type="checkbox"/> 2xOversample	
Samples	192	Views	192			<input checked="" type="checkbox"/> Prep pulse	
Effective views	128	TD	0			<input checked="" type="checkbox"/> Reverse order	
RF pulse	7	3D slab thk (%)	80			<input checked="" type="checkbox"/> RF spoiling	
Averages (slice)	1	TE(0=min)	0			<input checked="" type="checkbox"/> Slice navigator	
TI	1000	TR(0=min)	7				
No of FA	0	Averages (block)	1				

Admin

PPR Filename		Default PPR file: flash612.ppr			
gr_comp_scale	0	Read crusher	4000	Phase correction	0
Interleave	2	Slice spoiler amp	0	Read balance	0
Refocus time	300	MGE echoes gap	0	Read prephase	1
TE[us](0=min)	0	Ramp time	130	Slice balance	0
TR extra [us]	0			Slice refocus	1
				Slice rephase	0

8. Systolic Function

Position

Slice Groups		Presat Blocks	
Slice Group #	1	Offset X	3.0
Slices in this Group	7	Offset Y	6.2
Total Slices	7	Offset Z	-2.8
Thickness	1.0	Slice Gap	0.0
FOV	35.00	FOV Ratio	1.000
Slice Order			
Comments		Reset	

Sequence

Sequence		Filter		None	
Flip angle	20	Batch size	1	Gating mode	1
Missing lines	0	Lines per seg	0	Views 3D	1
Averages	5	Dummy lines	0	PE1 order	0
Echoes/Frames	14	Experiments	1	Sample period	150
Samples	192	Views	192		
Effective views	192	TD	0		
RF pulse	7	3D slab thk (%)	80		
Averages (slice)	1	TE(0=min)	0		
TI	1000	TR(0=min)	7		
No of FA	0	Averages (block)	1		

- ☒ Fat Sat
- ☒ Slice clustering
- ☒ MGE(0)/card(1)
- ☒ 2xOversample
- ☒ Prep pulse
- ☒ Reverse order
- ☒ RF spoiling
- ☒ Slice navigator

Admin

PPR Filename		Default PPR file: flash612.ppr	
gr_comp_scale	0	Read crusher	4000
Interleave	2	Slice spoiler amp	0
Refocus time	300	MGE echoes gap	0
TE[us](0=min)	0	Ramp time	130
TR extra [us]	0		

Phase correction		Inc delay	
Phase correction	0		
Read balance	0		
Read prephase	1		
Slice balance	0		
Slice refocus	1		
Slice rephase	0		

9. Diastolic Function Final

Position

Slice Groups				Presat Blocks			
Slice Group #	1	+	-	Offset X	3.0		
Slices in this Group	1			Offset Y	6.2		
Total Slices	1			Offset Z	-2.8		
Thickness	1.0			Slice Gap	0.0		
FOV	35.00			FOV Ratio	1.000		
Slice Order							
Comments							

	Offset	Thickness
<input type="radio"/> Feet	18.0	5.0
<input type="radio"/> Head	18.0	5.0
<input type="radio"/> Left	17.5	5.0
<input type="radio"/> Right	17.5	5.0
<input type="radio"/> Front	1.0	5.0
<input type="radio"/> Back	1.0	5.0

Reset

Sequence

Sequence		Filter		None			
Flip angle	20	Batch size	1	Gating mode	1	<input checked="" type="checkbox"/> Fat Sat	
Missing lines	0	Lines per seg	0	Views 3D	1	<input checked="" type="checkbox"/> Slice clustering	
Averages	1	Dummy lines	0	PE1 order	3	<input checked="" type="checkbox"/> MGE(0)/card(1)	
Echoes/Frames	1	Experiments	400	Sample period	150	<input checked="" type="checkbox"/> 2xOversample	
Samples	232	Views	256			<input checked="" type="checkbox"/> Prep pulse	
Effective views	192	TD	0			<input checked="" type="checkbox"/> Reverse order	
RF pulse	1	3D slab thk (%)	80			<input checked="" type="checkbox"/> RF spoiling	
Averages (slice)	1	TE(0=min)	0			<input checked="" type="checkbox"/> Slice navigator	
TI	1000	TR(0=min)	8				
No of FA	0	Averages (block)	1				

Admin

PPR Filename		Default PPR file: flash612.ppr			
gr_comp_scale	0	Read crusher	4000	Phase correction	0
Interleave	2	Slice spoiler amp	5000	Read balance	0
Refocus time	300	MGE echoes gap	0	Read prephase	1
TE[us](0=min)	0	Ramp time	130	Slice balance	0
TR extra [us]	0			Slice refocus	1
				Slice rephase	0

☒ Inc delay