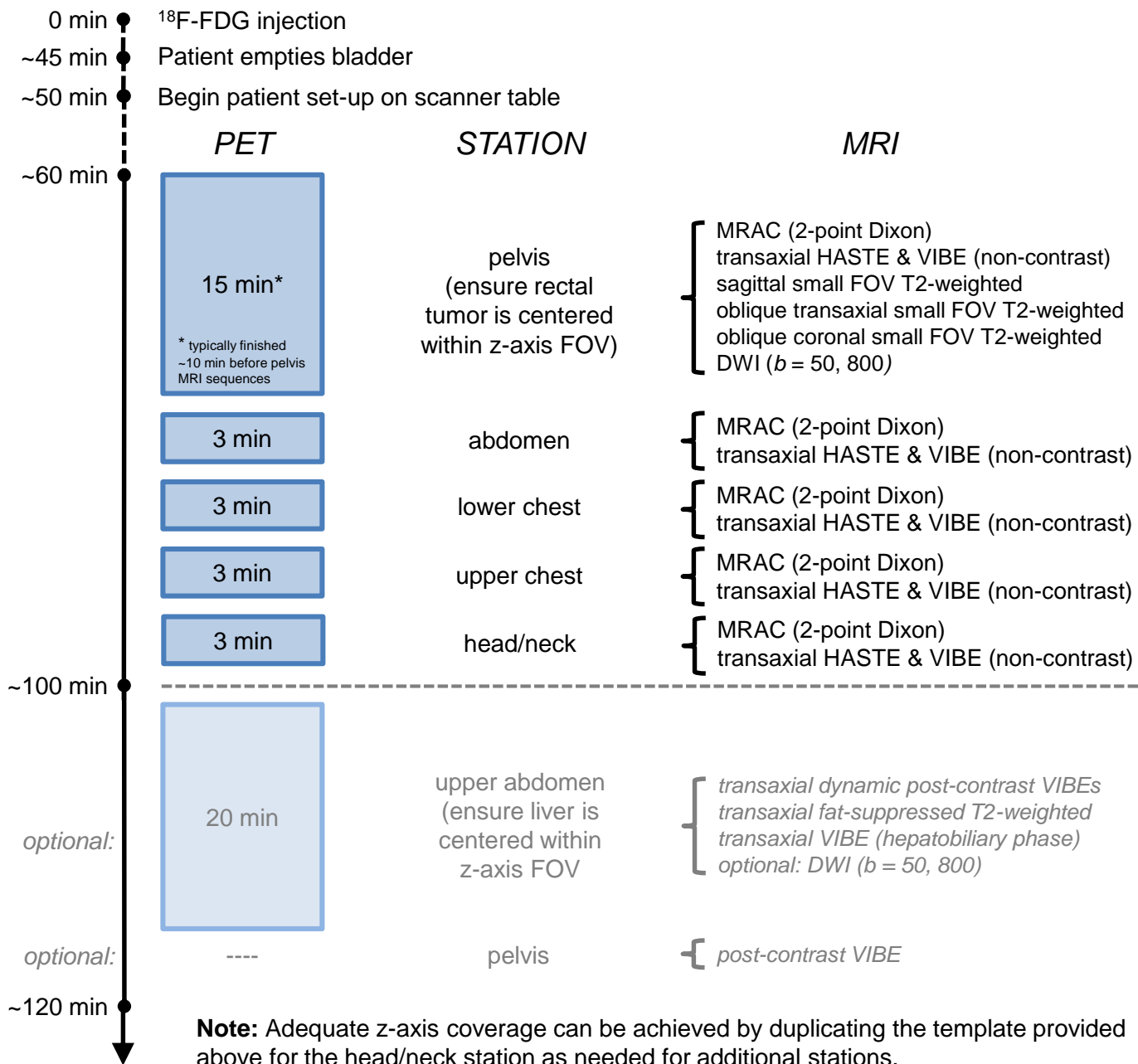


Rectal Cancer PET/MRI Staging Protocol for Siemens mMR



Rectal Cancer PET/MRI Staging Protocol for Siemens mMR

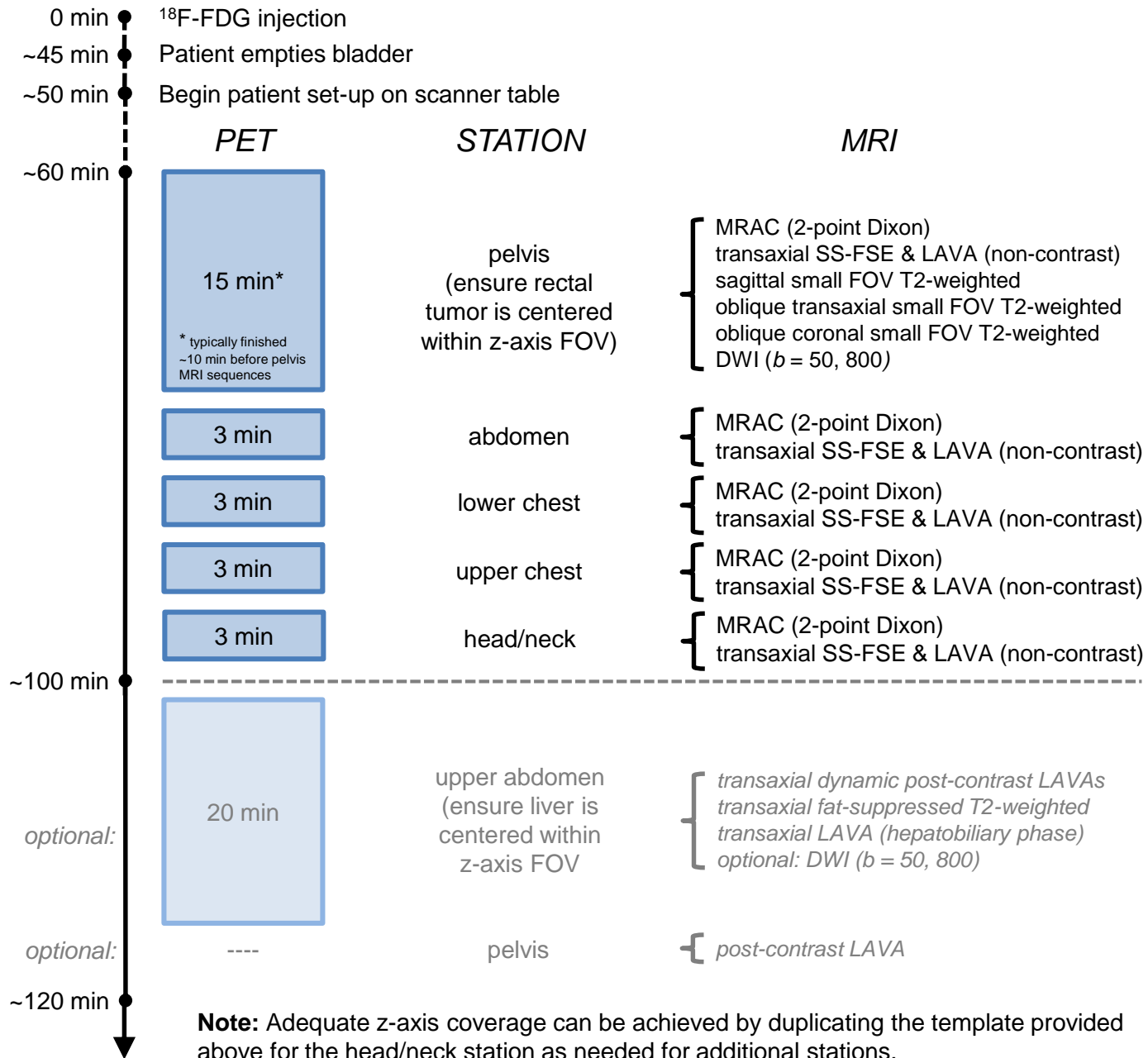
MRI Parameters

Sequence	Sagittal small FOV T2-weighted	Oblique axial small FOV T2-weighted	Oblique coronal small FOV T2-weighted	DWI
Region	Pelvis	Pelvis	Pelvis	Pelvis ± abdomen
Plane	Sagittal	Oblique axial	Oblique coronal	Axial
FOV (mm) [phase x frequency]	200 x 200	200 x 200	200 x 200	338 x 450
ST (mm)	3	3	3	5
Fat suppression	No	No	No	Yes
TE (ms)	75	124	124	85
TR (ms)	5500	5420	5420	8100
Flip angle (degrees)	180	180	180	--
Bandwidth (Hz/pixel)	200	203	203	1628
Base resolution	384	320	320	128
Phase direction	A-P	A-P	R-L	A-P
Averages	3	4	4	3
<i>b</i> values (s/mm ²)	--	--	--	50, 800

PET Parameters

Reconstruction	Dimensionality	Iterations	Subsets	Matrix	Zoom
HD OSEM	3D	3	21	172 x 172	1

Rectal Cancer PET/MRI Staging Protocol for GE SIGNA



Rectal Cancer PET/MRI Staging Protocol for GE SIGNA

MRI Parameters

Sequence	Sagittal small FOV T2-weighted	Oblique axial small FOV T2-weighted	Oblique coronal small FOV T2-weighted	DWI
Region	Pelvis	Pelvis	Pelvis	Pelvis ± abdomen
Plane	Sagittal	Oblique axial	Oblique coronal	Axial
FOV (mm) [phase x frequency]	240 x 240	160 x 160	160 x 160	240 x 240
ST (mm)	4	3	4	5
Fat suppression	No	No	No	Yes
TE (ms)	126	126	126	80
TR (ms)	6658	9314	4466	3500
Flip angle (degrees)	125	125	125	90
Bandwidth (Hz/pixel)	195	122	139	N/A
Base resolution	384	288	288	128
Phase direction	A-P	A-P	R-L	R-L
Averages	2	2	2	4
<i>b</i> values (s/mm ²)	--	--	--	50, 800

PET Parameters

Reconstruction	Dimensionality	Iterations	Subsets	Matrix	Zoom
TOF OSEM	3D	2	28	256 x 256	1