

# mp Prostate – Case Study

Diffusion Sequence Philips Ingenia 1.5T Release 4

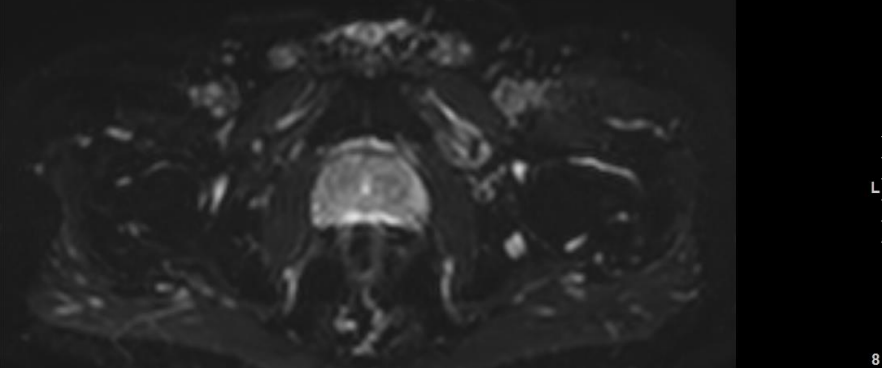
Varun Daniel Singh

Lead Cardiac MRI Radiographer

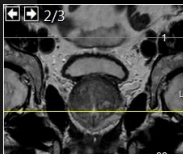
Bupa Cromwell Hospital - London

Slice: 5 mm  
Dist: 5.5 mm  
TR: 2900  
TE: 90.2  
AC: 10  
B-value:0

C: 321.4, W: 787.1  
C=203.7, W=397.7 \* 1/3

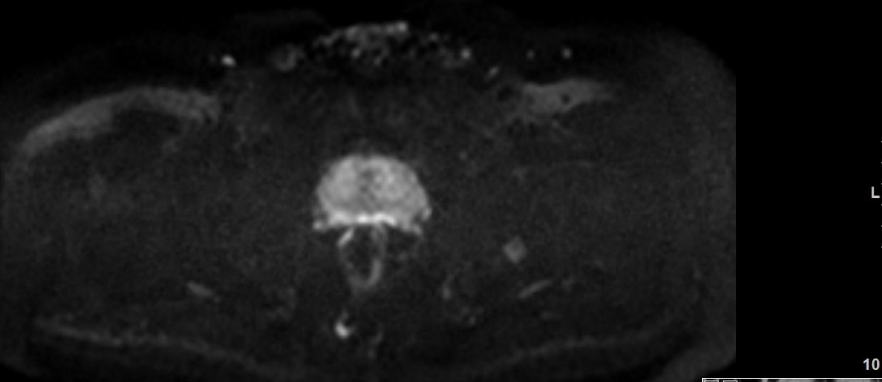


B0

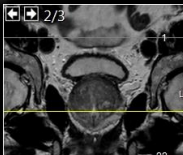


C: 53.6, W: 97.0  
C=49.1, W=82.3 \* 1/3

FoV: 350 mm  
Image no: 100  
Coil: MULTI COIL  
Pos: FFS  
Series: 80100001  
Image 14 of 22  
DWI\_3b ax sFOV  
Slice: 5 mm  
Dist: 5.5 mm  
TR: 2900  
TE: 90.2  
AC: 10  
B-value:1100



B1100



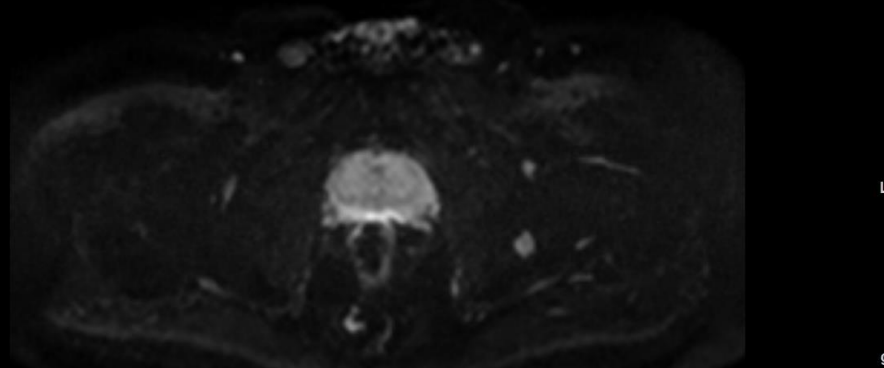
FoV: 350 mm  
Image no: 108  
Coil: MULTI COIL  
Pos: FFS  
Series: 80100003  
Image 14 of 22  
DWI\_3b ax sFOV  
05/02/2014, 18:31:39

PH

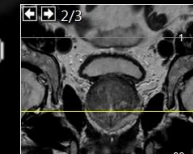
2014

Slice: 5 mm  
Dist: 5.5 mm  
TR: 2900  
TE: 90.2  
AC: 10  
B-value:700

C: 90.3, W: 172.8  
C=49.9, W=94.3 \* 1/3

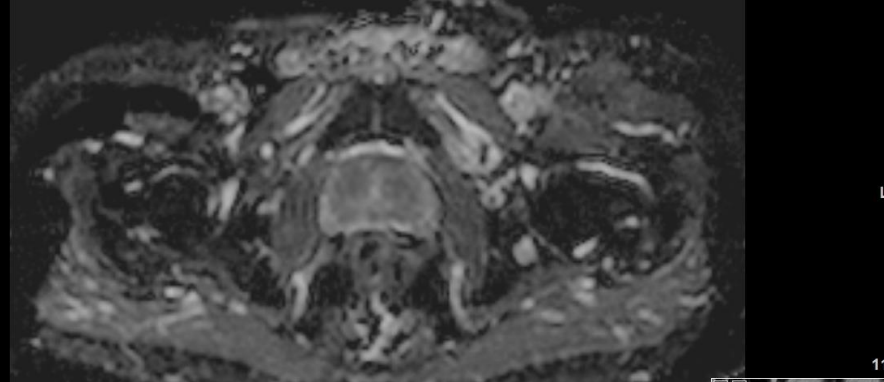


B700

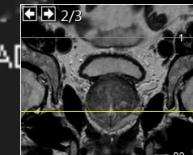


C: 2541.0, W: 6714.6  
C=1633.9, W=4057.3 \* 1/3

FoV: 350 mm  
Image no: 104  
Coil: MULTI COIL  
Pos: FFS  
Series: 80100002  
Image 14 of 22  
DWI\_3b ax sFOV  
Slice: 5 mm  
Dist: 5.5 mm  
TR: 2900  
TE: 90.2  
AC: 10  
B-value:0



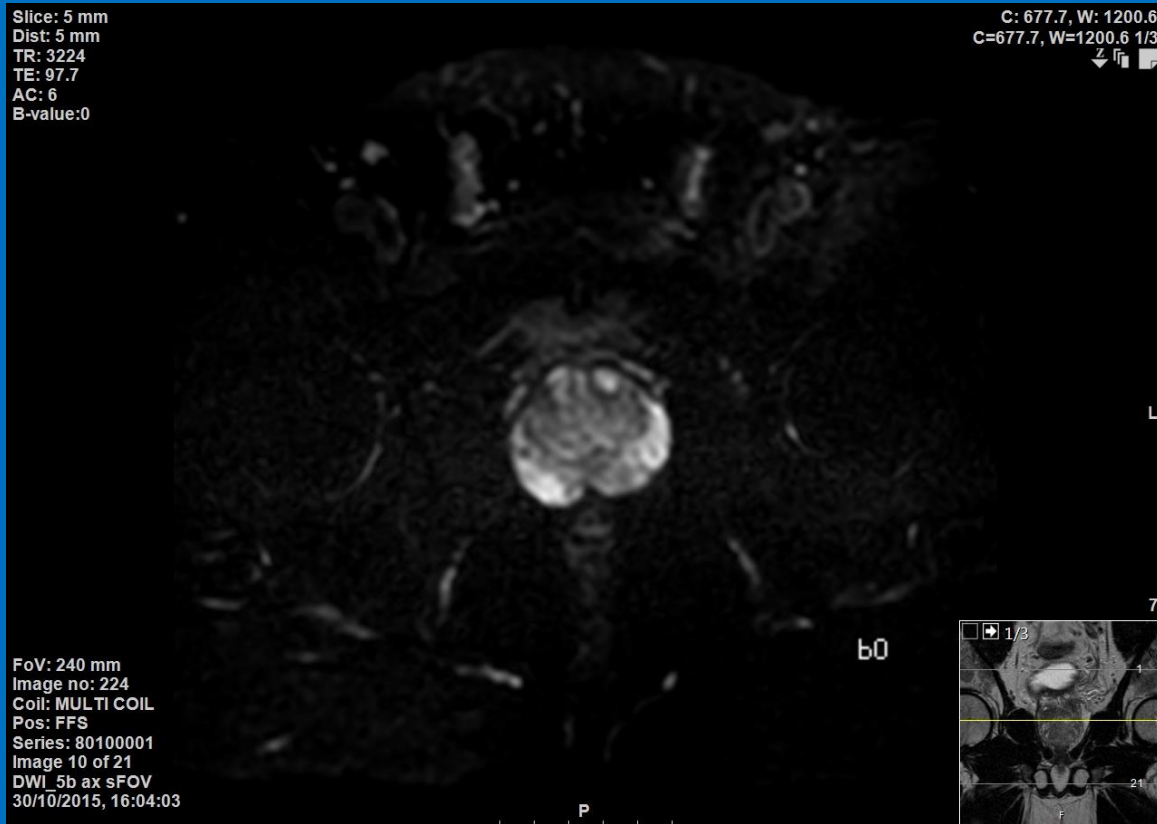
A1



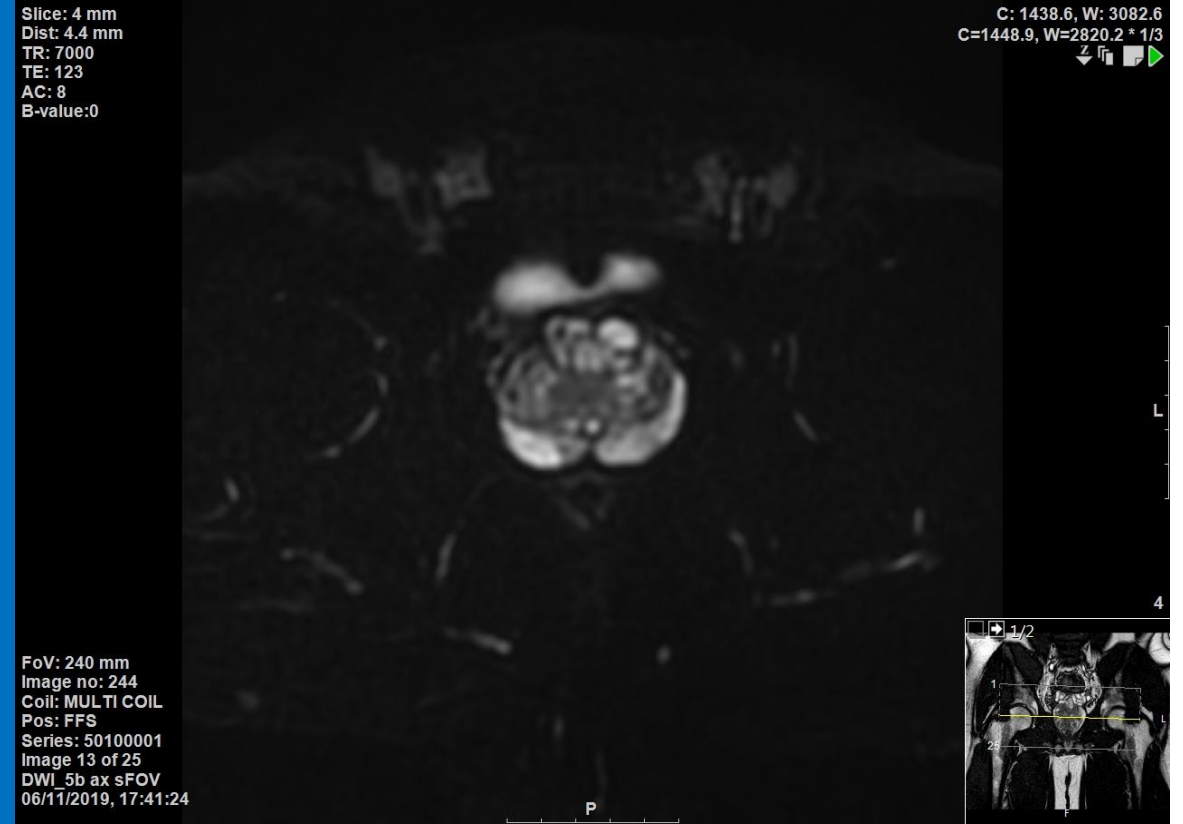
FoV: 350 mm  
Image no: 100  
Coil: MULTI COIL  
Pos: FFS  
Series: 80200001  
Image 14 of 22  
dDWI\_3b ax sFOV SENSE  
05/02/2014, 18:31:39

PH

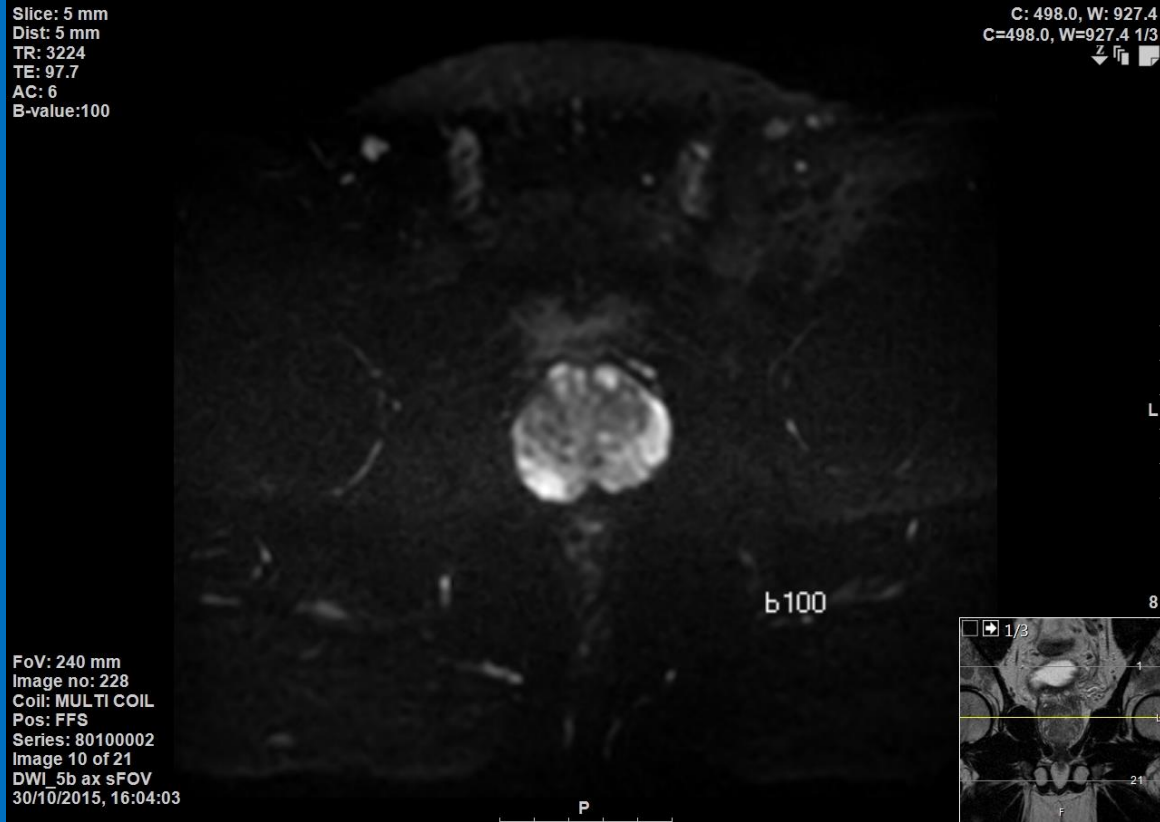
50yr old male weighing 129kg, presented with raised PSA - ? cancer



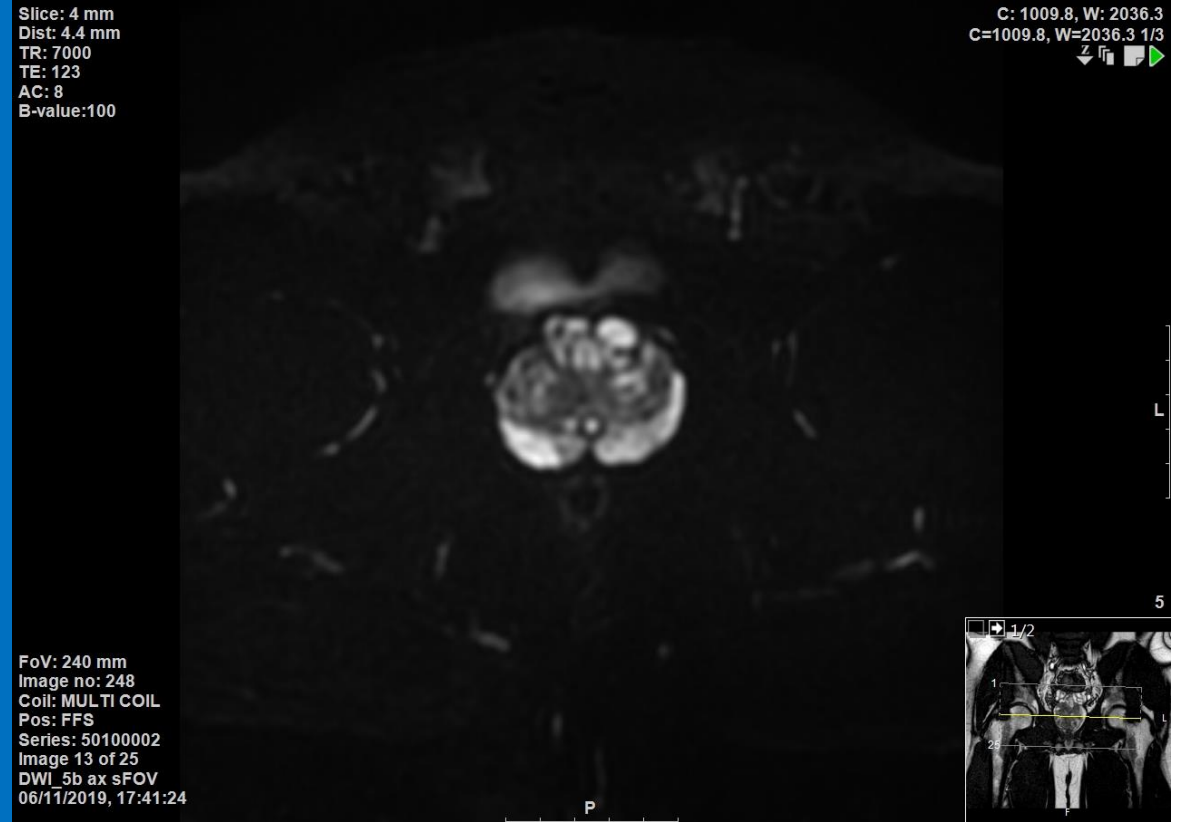
2015



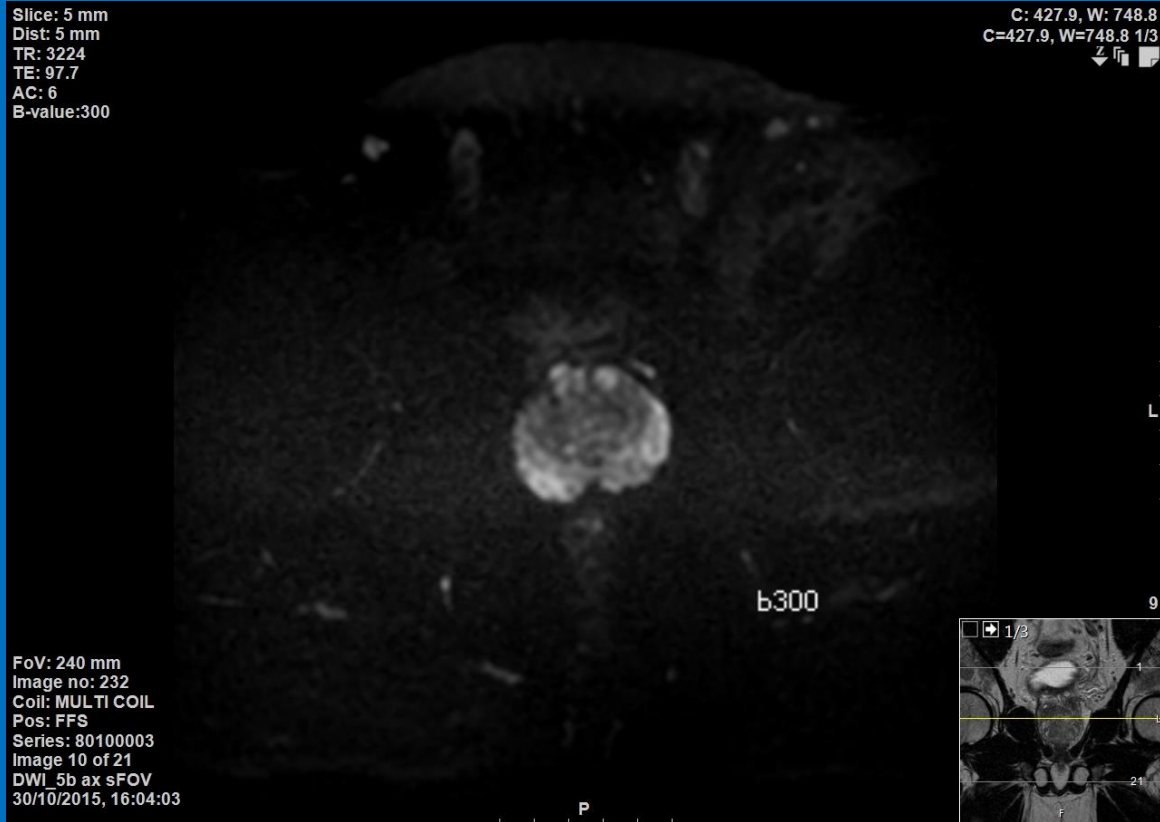
2019



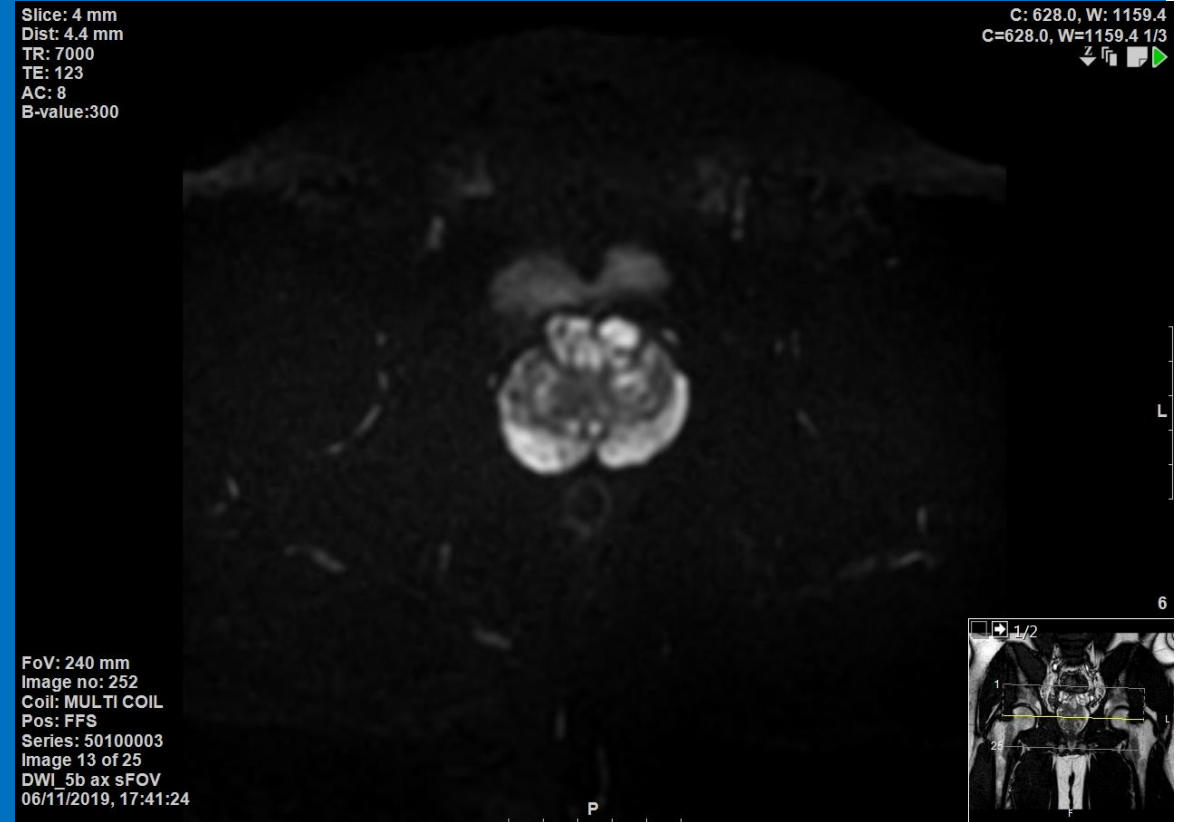
2015



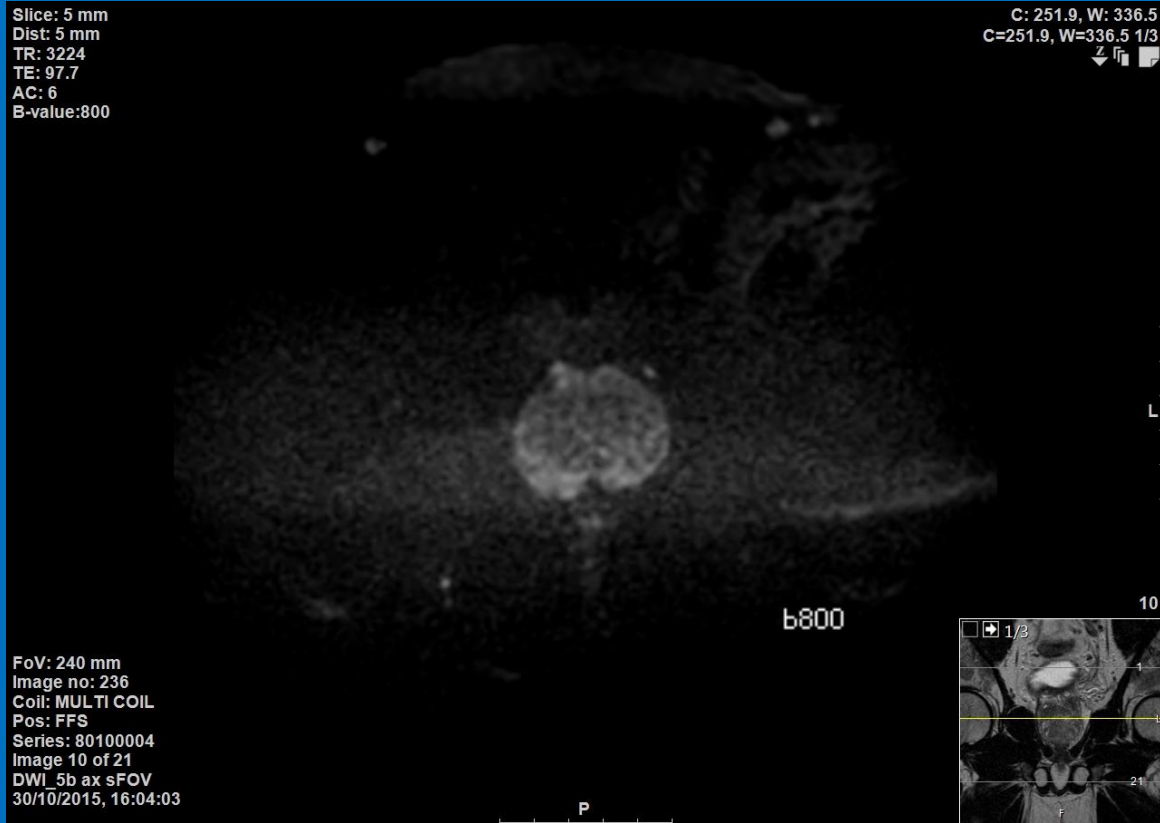
2019



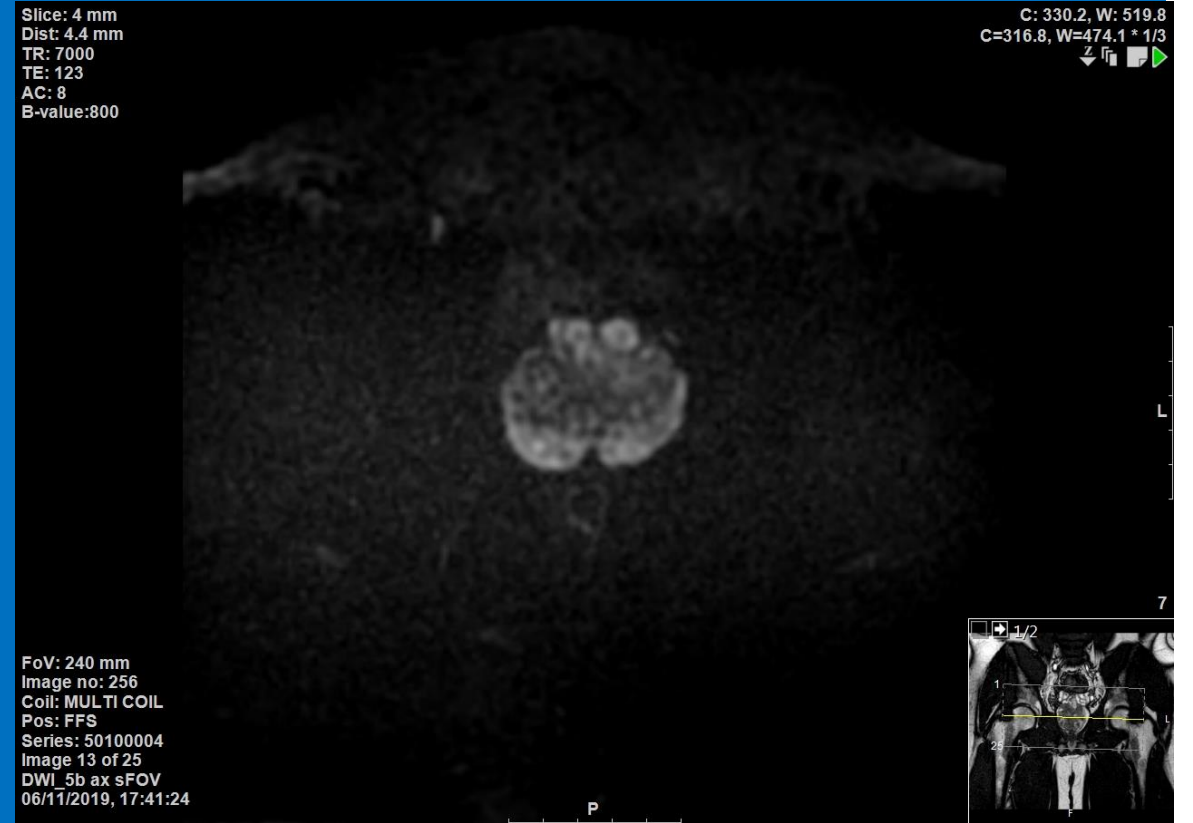
2015



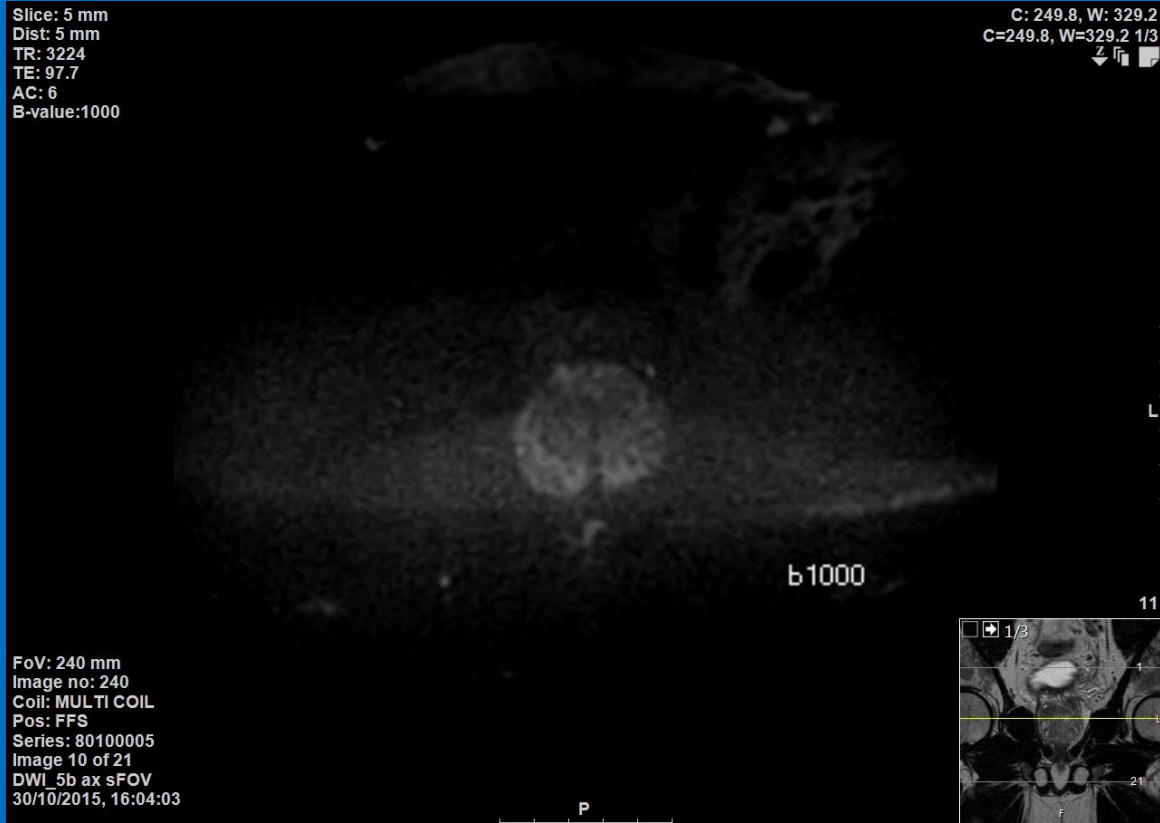
2019



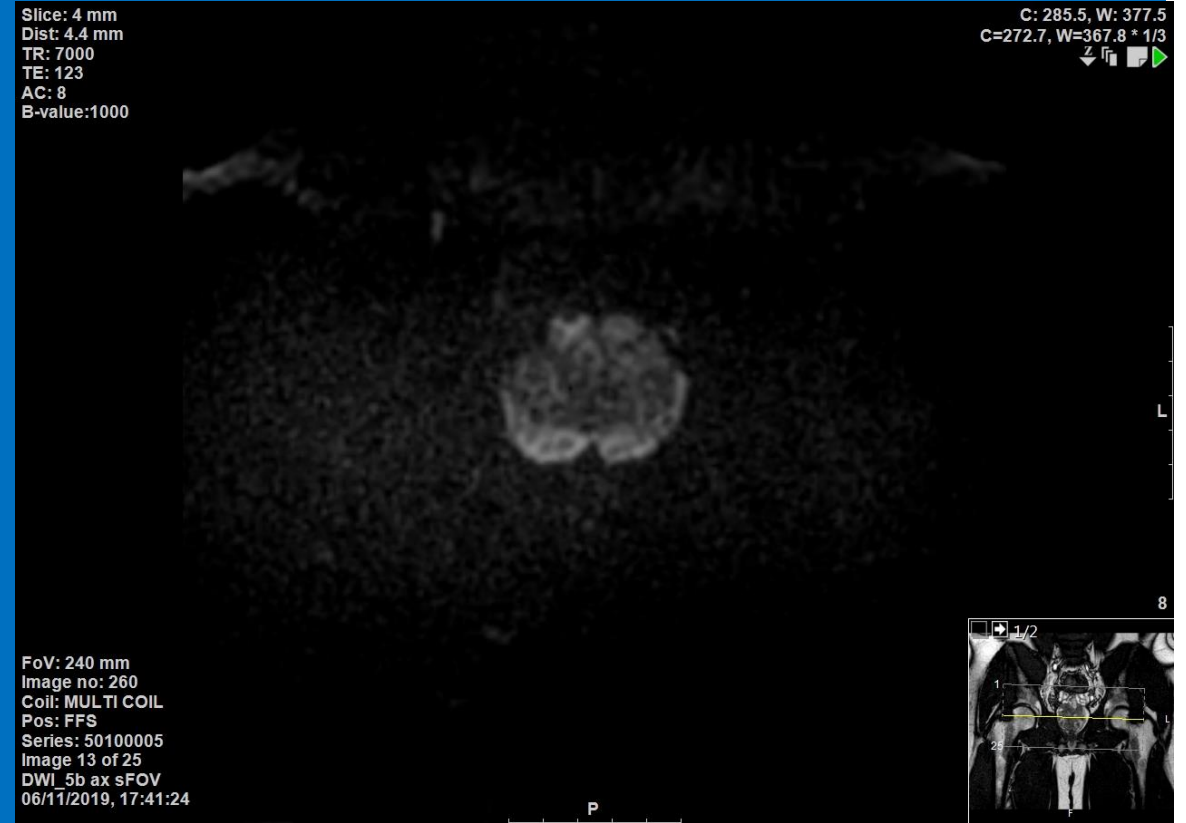
2015



2019



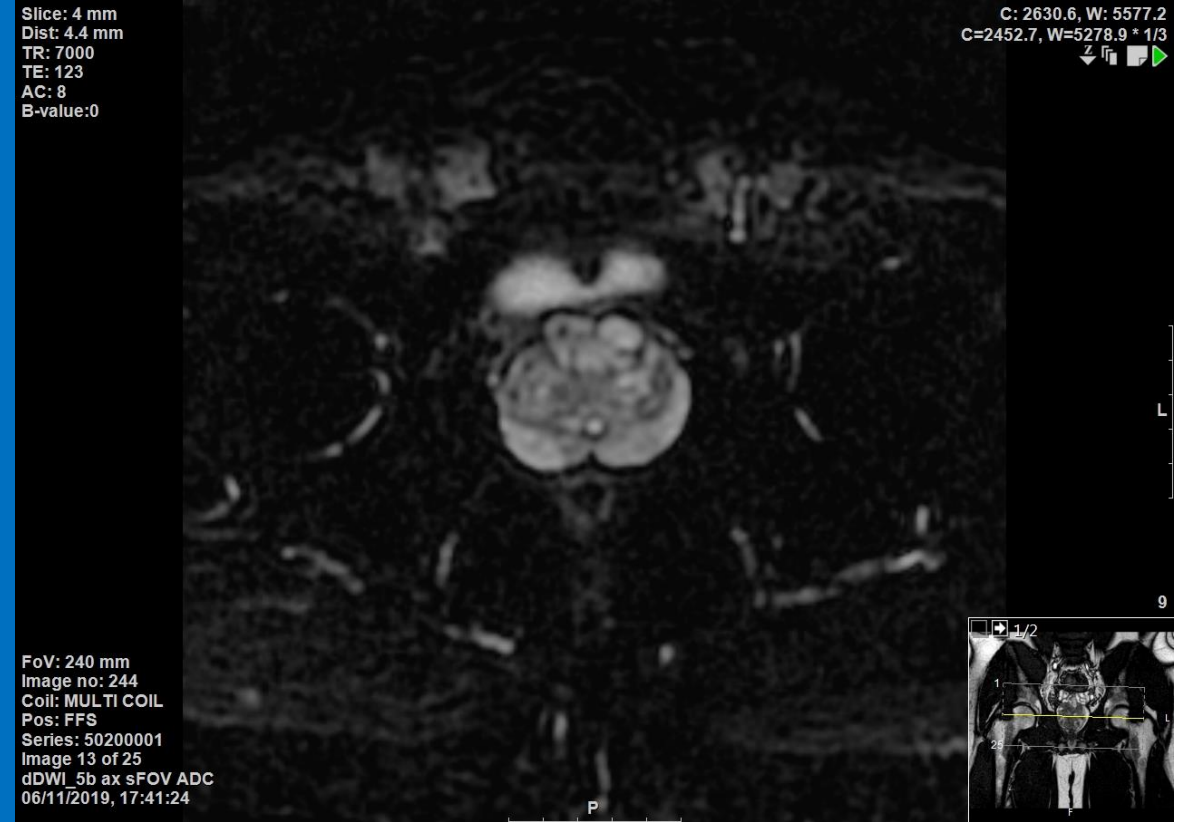
2015



2019

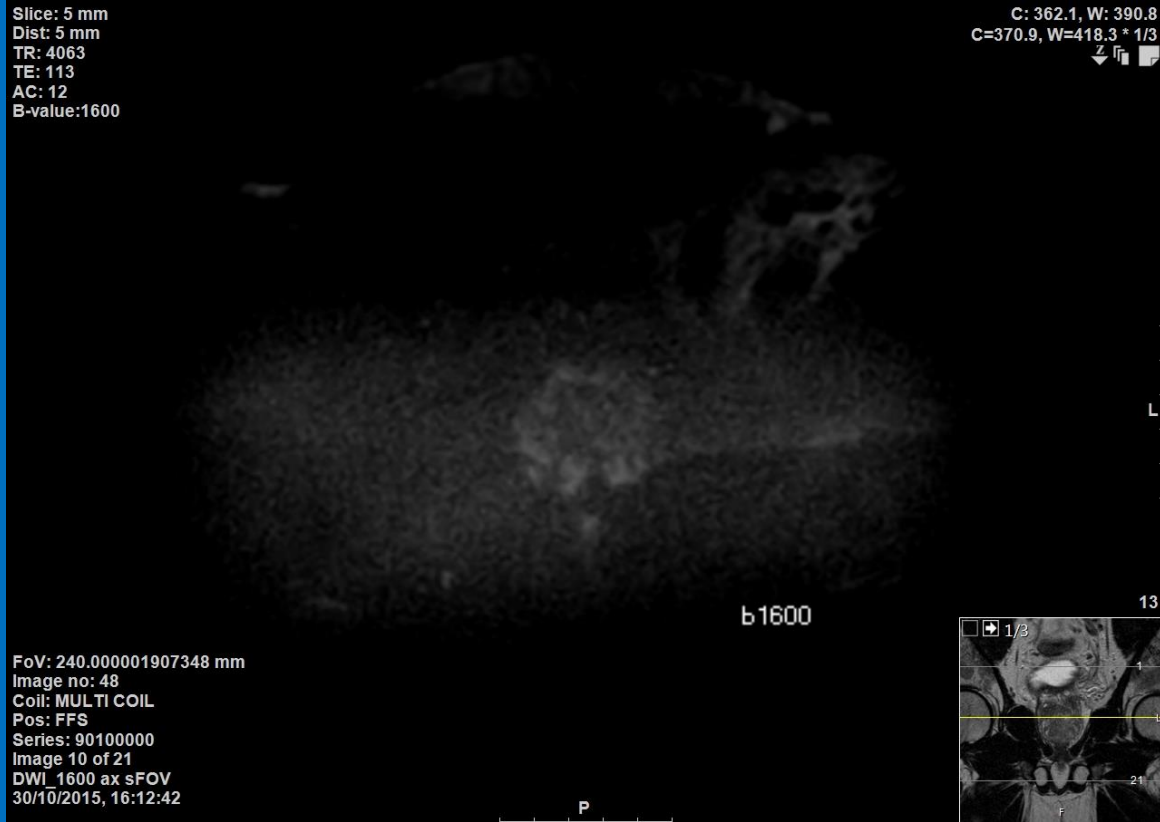


2015

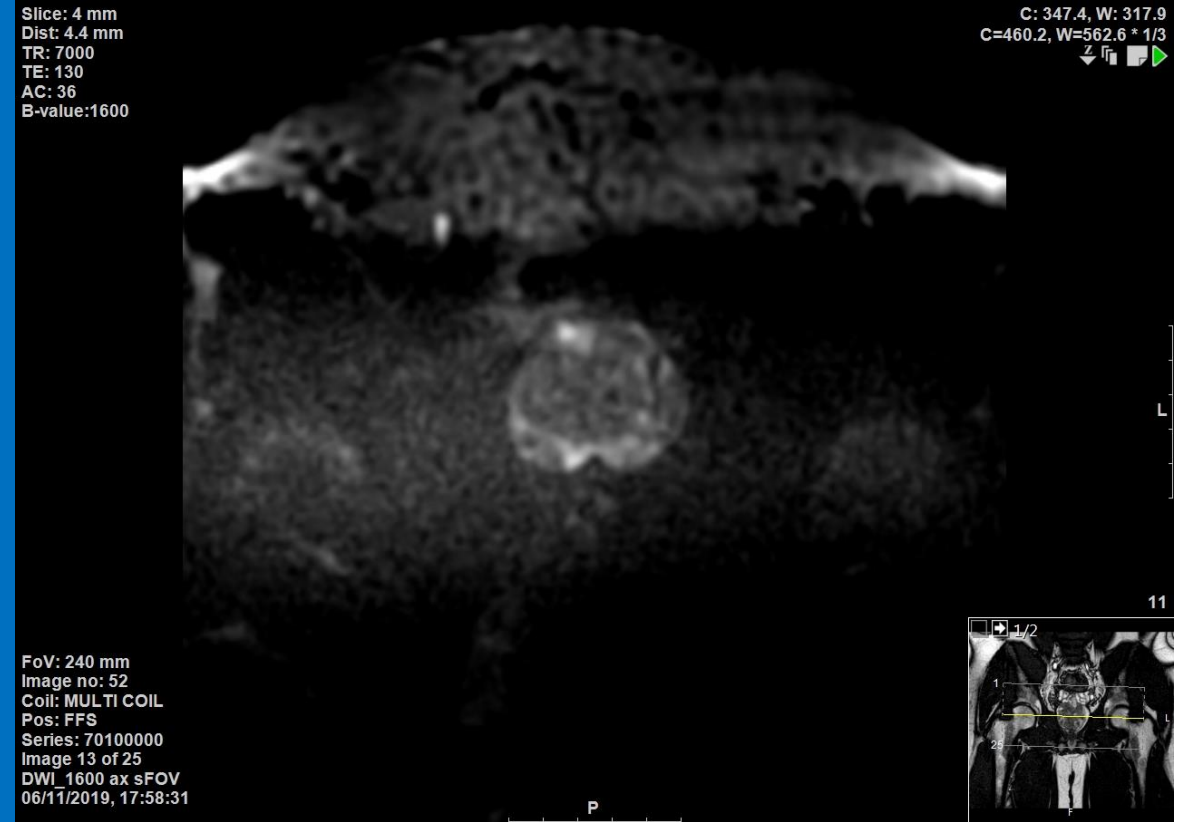


2019

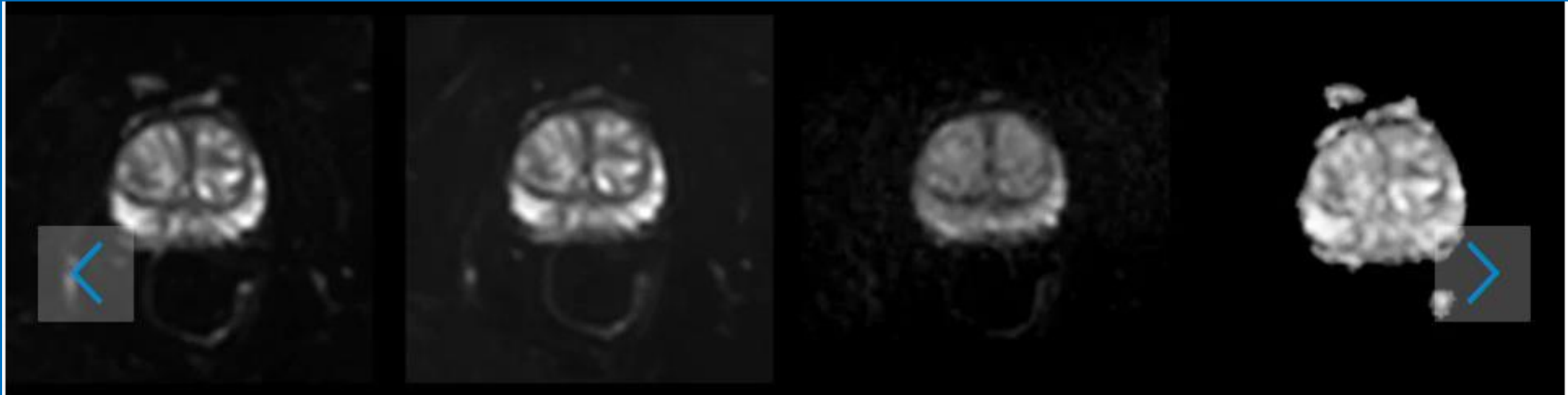




2015

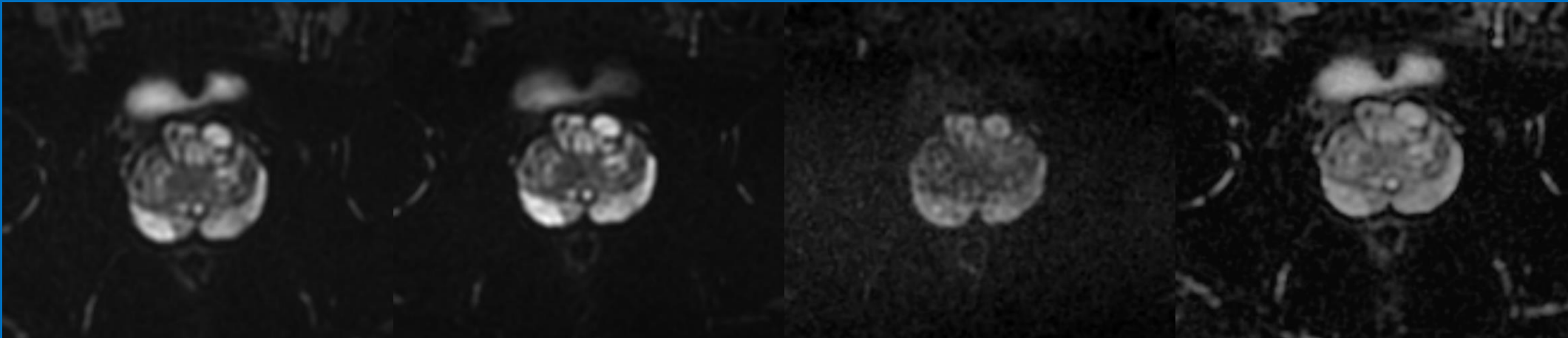


2019



3T images from Philips Healthcare Website

[https://www.philips.co.uk/healthcare/education-resources/publications/fieldstrength/ingenia-30t-delivers-high-performance-mri-to-the-busy-practice-at-dmg#slide\\_tab4](https://www.philips.co.uk/healthcare/education-resources/publications/fieldstrength/ingenia-30t-delivers-high-performance-mri-to-the-busy-practice-at-dmg#slide_tab4)



1.5T images from Bupa Cromwell Hospital



# Technical Parameters

## Old – 2015

FOV – 240 x 224

Slice Thickness – 5mm

Slice Gap – 0

Voxel Size – 2 x 2

Sense – 2

TR – 3224ms (set to shortest)

TE – 97.7ms (set to shortest)

B Values – 0/100/300/800/1000

NSA – 6

Scan time – 7mins 14.3sec

## New – 2019

FOV – 240 x 240

Slice Thickness – 4mm

Slice Gap – 0.4mm

Voxel Size – 1.9 x 1.9

Sense – 1.3

TR – 7000ms (set to shortest)

TE – 130 (set to shortest)

B Values – 0/100/300/800/1000

NSA – 8

Scan time – 11mins 02.7sec

# Technical Parameters

## Old – 2015

FOV – 240 x 224

Slice Thickness – 5mm

Slice Gap – 0

Voxel Size – 2 x 2

Sense – 2

TR – 4063ms (set to shortest)

TE – 113ms (set to shortest)

B Values – 1600

NSA – 12

Scan time – 6mins 47sec

## New – 2019

FOV – 240 x 240

Slice Thickness – 4mm

Slice Gap – 0.4mm

Voxel Size – 2.5 x 2.5

Sense – 1.3

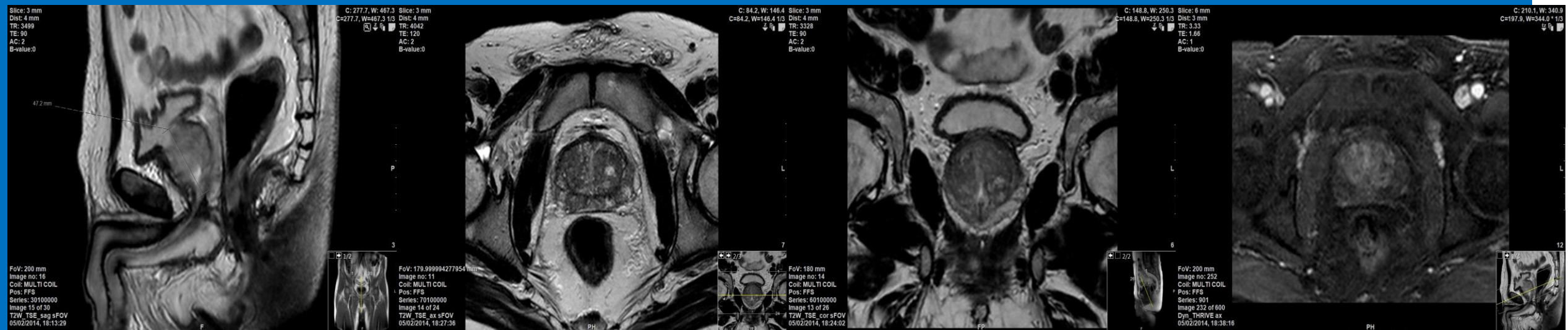
TR – 7000ms (set to shortest)

TE – 123 (set to shortest)

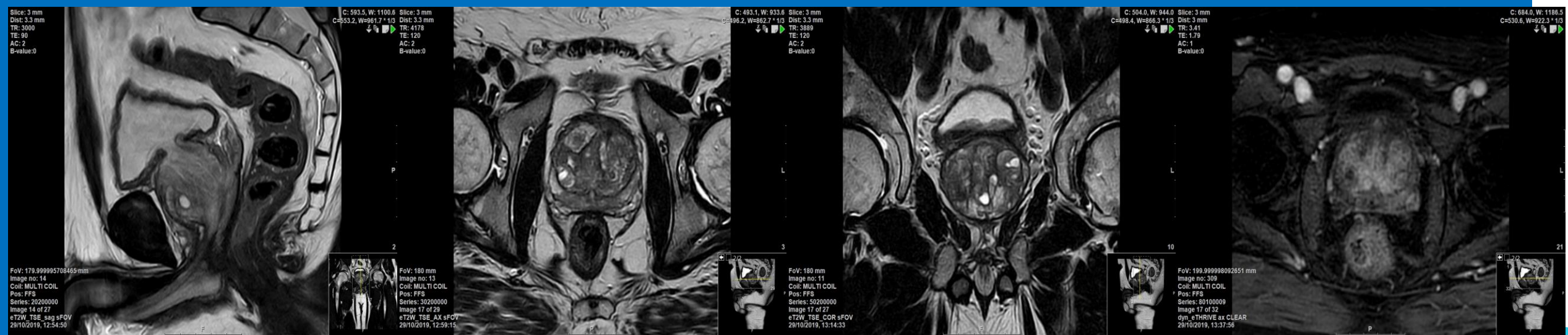
B Values – 1600

NSA – 36

Scan time – 11mins 00.2sec



2014



2019

