



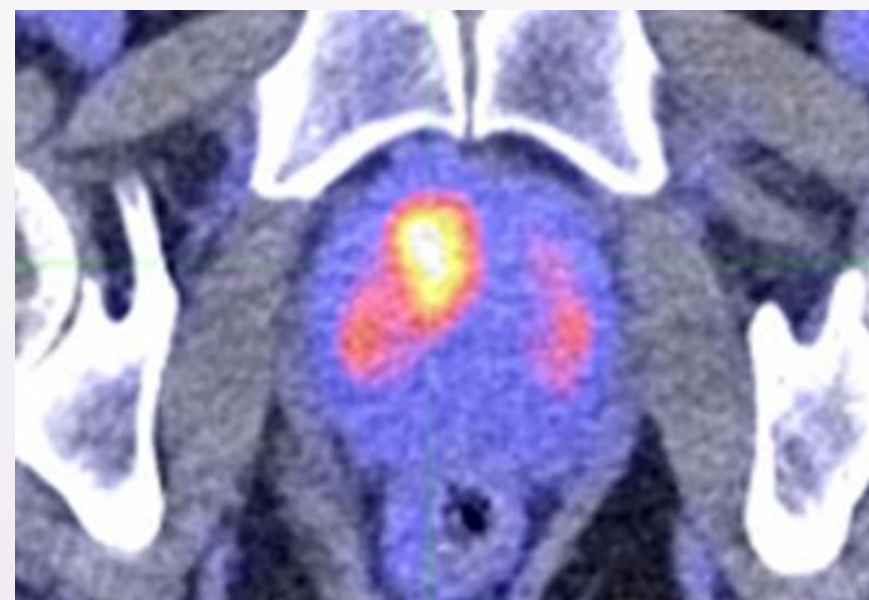
UMP 25 – Assessment of Size of Prostate Cancer with PSMA PET/CT and Its Applications

- A) 1) Some patients put on active surveillance and later prostatectomy found to have locally advanced cancers or even with lymph nodes or distant dissemination.
 2) Four patients put on active surveillance for their prostate cancers consulted for medical opinion.
 3) PSMA PET/CT scans were done to assess the size of the prostate cancers.
 4) Results as below:

Patient	Age years	PSA ug/l	Biopsies Result cancer length, Gleason's score, (site)	PET/CT lesion size	Prostatectomy Pathology transverse diameter, Gleason's score
1	52	4.6	<1mm, 3+3, (1/12)	29x12mm	10mm, 3+3
2	67	7.58	<1mm, 3+3, (1/12)	14x12mm	14mm, 4+4
3	63	15	<1mm, 3+3, (1/12)	14x11mm	20mm, 3+4
4	59	5	1mm, 3+4, (1/9)	19x13mm	23mm, 3+3

- B) 1) Patients with MRI prostates showed PIRADS 4 or 5 lesions consulted for treatment
 2) They requested no prostate biopsies and straight to prostatectomy
 3) PSMA PET/CT scans were done
 4) Prostatectomy were done when the MRI lesions were also positive on PET/CT scans

Patient	Age years	PSA ug/l	MRI Lesion	PET/CT lesion size	Prostatectomy Pathology transverse diameter, Gleason's score
A	67	6.77	PIRADS 5	23x17mm	18mm, 3+3
B	75	6.96	PIRADS 4	13x9mm	14mm, 4+5
C	60	8.50	PIRADS 5	14x11mm	15mm, 3+4



Patient A : DWI and PET/CT

Conclusion

- A) PSMA PET/CT can help patients to continue active surveillance or early prostatectomy
 B) PSMA PET/CT may help to proceed prostatectomy without prostate biopsies when MRI showed up PIRADS 4 or 5 lesions.

