Clinical development of PSMA target therapeutic radiopharmaceutical for prostate cancer



ONCOLOGY	Phase 1				
Product Type		Radiopharmarceutical ([177Lu]Ludotadipep) (Lu-177 labeled prostate cancer target therapeutic radiopharmaceutical)			
Indication	Prostate cancer/	Prostate cancer/ metastatic castrate-resistant prostate cancer (mCRPC)			
Target	Prostate specific	Prostate specific membrane antigen (PSMA)			
MoA(Mechanism of Action)		PSMA targeting and cell binding \rightarrow cell surface bind/internalization \rightarrow cancer cell death by beta-ray radiation of Lu-177			
Competitiveness	Contents	FC705 (Ludotadipep)	PSMA617	PSMA I&T/point 2002	
	Company	FutureChem	N****	C*****/p*****	
	Single dose	100 mCi	200 mCi	~200 mCi	
	Differentiation point	PSMA Peptide + Albumin Binder	PSMA Peptide only	PSMA Peptide only	
	Dosing cycle	6 times per 8 weeks (phase 2)	6 times per 6 weeks	4 times per 8 weeks	
	Tumor lesion (Gy/Gbq)	11.1(phase 1)	5.9(phase 3)	5.7(phase 2)	
	Enhancement of blood circulation time by Albumin Binder (AB)				
Development Stage		phase 1 trials in Korea phase 1/2a clinical trial in US			
Route of Administratio	n Intravenous injed	Intravenous injection			

