

Radiopharm Theranostics (ASX "RAD") is a **clinical stage radiopharmaceutical company** developing **Therapeutic and Imaging products** using peptides, small molecules, nanobodies and antibodies.



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INVESTMENT HIGHLIGHTS

3 Innovative clinical stage molecules

- Highly differentiated Imaging agent (Pivalate) for Brain Mets large disease area with high unmet need-
- Potential first-in-class PD-L1 targeting radiopharmaceutical
- Potential best-in-class HER2 targeting radiopharmaceutical

3 Highly promising late stage-preclinical molecules

- Potential first-in-class B7H3 (*from Joint Venture / Strategic partnership with MD Anderson*)
- Potential first-in-class KLK3 targeting radiopharmaceutical
- Theranostic Pair targeting Integrin AvB6, with Imaging Phase I proof of concept ongoing

Solid financials

- Strong investment endorsement from Lantheus with ~7%; Institutional Shareholders own 64%
- Cash runway to mid-2026



COMPANY PIPELINE

PROGRAM	TARGET & MOLECULE	INDICATION	Dx/Tx	ISOTOPE	PRECLINICAL	PHASE I	PHASE II	NOTES	
	Clinical								
RAD 101	Short Chain Fatty Acid (Small molecule)	BRAIN METS	Imaging	F18			Phase 2a Phase 2b	IND approval received for Phase 2b in US (n=30) FPFV expected in Dec 2024	
RAD204	PD-L1 (Nanobody)	NON-SMALL CELL LUNG CANCER	Therapy	Lu177	·		·	Phase 1 enrolling in Australia, NCT06305962 First two cohorts' patients' data by mid-2025	
RAD202	HER 2 (Nanobody)	BREAST / GASTRIC CANCER	Therapy	Lu177				Ethics approval for Phase 1 expected in Dec 2024 First two cohorts' patients' data by the end of 2025	
				Pre-	-Clinical				
RV01	B7H3 (mAb)	Multiple Solid Tumors	Therapy	Lu177				IND approval expected mid-2025 FPFV Phase 1 in Q3 2025	
RAD402	KLK3 (mAb)	PROSTATE	Therapy	Tb161				Ethics approval in Q3 2025 FPFV Phase 1 in Q4 2025	
RAD 301/302	Integrin α Vβ6 (peptide)	Multiple Solid Tumors	Therapy Imaging	Lu177 Ga68				Phase 1 Therapeutic planned for end of 2025 Phase 1 Imaging enrolling in USA	





RADIOPHARM THERANOSTICS

Targeting MoA: SHORT FATTY ACID CHAINS

Imaging for BRAIN METASTASIS

Molecule: RAD 101



RAD 101 Phase 2b Imaging: F18-PIVALATE

CLINICAL DEVELOPMENT & REGULATORY STRATEGY

IND approval received for Phase IIb

Only 1 expected competitor: Axumin (Bracco) currently in Phase III

300,000 new patients diagnosed every year (USA only)

PRECLINICAL	PHASE I	PHASE IIa	PHASE IIb	PHASE III
	UK	UK	US	SA
	24 pts	17 pts	30 pts	150 pts
V	V	V	2H 2024-2H2025	1H2026 – 2H 2027



RAD 101 Phase 2b - TRIAL DESIGN

Phase IIb imaging study in participants with suspected recurrent brain metastases from solid tumors

- Primary Objective: Concordance between RAD101 positive lesions and those seen in conventional imaging (MRI with gadolinium) in participants with suspected recurrent brain metastases
- Population: PTs with histopathologically confirmed advanced solid tumors with known history of brain metastases (lung, breast, colon, kidney, or melanoma), with SRS within 12 months prior to screening.
- **Design Methodology:** Single dose of RAD101, max 370 MBq (10 mCi), will be administered as IV followed by whole brain PET scan at 60 ± 10 min post-dose. High-resolution MRI will be performed in joint acquisition. 4-week screening period, 3-day imaging and safety follow-up, longitudinal imaging and data collection up to 6 months. N=30
- Imaging: Single dose of RAD101, at a maximum dose of 370 MBq (10 mCi)



UPCOMING MILESTONES

PROGRAM	TARGET & MOLECULE	INDICATION	Dx/Tx	ISOTOPE	1ST HALF 2024	2ND HALF 2024	1ST HALF 2025	2ND HALF 2025	1ST HALF 2026
RAD101	Short Chain Fatty Acid (Small Molecule)	BRAIN METS	Imaging	F18		IND Approval Phase 2b received First Patient Ph 2b	10/30 patients' data to be released	Phase 2 Top Line data	



ACHIEVED



Future Milestone





RADIOPHARM THERANOSTICS

Targeting MoA:

PDL1

Molecule: RAD 204

Therapeutic for

NON-SMALL CELL LUNG CANCER



RAD 204 THERAPEUTIC: PD-L1 NANOBODY

CLINICAL DEVELOPMENT & REGULATORY STRATEGY

- Human pharmacokinetic and biodistribution proven with imaging agent (positive Phase I in 10pts in 2021, followed by IIT in Germany in additional 6 pts.
- Phase I therapeutic dose escalation in Lung Cancers started in Australia in H1 2024

PRECLINICAL	IMAGING PHASE I	AGING PHASE I in AUSTRALIA			
	16pts	~25 pts	~50 pts		
V	V	V H1 2024 - H2 2025			



RAD 204 – THERAPEUTIC PHASE 1 TRIAL DESIGN

177Lu-ANTI-PD-L1 SINGLE DOMAIN AB IN METASTATIC NON-SMALL CELL LUNG CANCER

- Primary Objectives (Phase 1, Treatment):
 - o To assess the safety and tolerability of ¹⁷⁷Lu-RAD204_{tr}
 - To determine the recommended dose(s) of ¹⁷⁷Lu-RAD204_{tr} for future exploration
- Population: ≥ 18 years of age with a documented history of PD-L1 positive (≥1%) metastatic NSCLC
- **Design Methodology:** BOIN for escalation / de-escalation.
- Imaging: Imaging and dosimetry with low dose ¹⁷⁷Lu-RAD204_{im}, consisting of ¹⁷⁷Lu-RAD204_{im} Safety Lead-in, with or without dose escalation.
- Therapeutic Dose: 177Lu-RAD204_{tr} dose escalation. Treatment period of up to 3 cycles every 6 weeks.
- Dosimetry (*Phase 0, Imaging*): To assess the biodistribution, pharmacokinetics and radiation dosimetry of ¹⁷⁷Lu-RAD204_{im} in selected organs and tumor lesions.

Phase 0	Dose Level ¹	Dose (mCi)	Dose (GBq)	
(Imaging Period with ¹⁷⁷ Lu- RAD204 _{im})	lmaging dose	10	0.37	
	Dose Level ²	Dose (mCi)	Dose (GBq)	
	DL1	30	1.1	
Phase I (Treatment Period with 177Lu-	DL2	40	1.5	
RAD204 _{tr})	DL3	TBD	TBD	
	DL4	TBD	TBD	



RAD 204 – UPCOMING MILESTONES

PROGRAM	TARGET & MOLECULE	INDICATION	Dx/Tx	ISOTOPE	1ST HALF 2024	2ND HALF 2024	1ST HALF 2025	2ND HALF 2025	1ST HALF 2026
RAD204	PD-L1 (Nanobody)	NON-SMALL CELL LUNG CANCER	Therapy	Lu177	Ethics Approval received	First Patient treated at Wollongong Hospital Nepean Hospital opened	2 Cohorts completed & data release	Phase 1 Top Line data	



▲ Future Milestone





RADIOPHARM THERANOSTICS

Targeting MoA:

HER2

Molecule: RAD 202

Therapeutic for

BREAST AND GASTRIC CANCER



RAD 202 – THERAPEUTIC: HER-2 NANOBODY

CLINICAL DEVELOPMENT & REGULATORY STRATEGY

- Human pharmacokinetic and biodistribution proven with imaging agent
- Phase I therapeutic dose escalation in Breast / Gastric Cancers planned in Australia in Q4 2024

PRECLINICAL	IMAGING PHASE I	THERAPEUTIC PHASE I
	16pts	~25 pts
V	√	H2 2024-H1 2026



RAD 202 - PHASE 1 TRIAL DESIGN

HEAT Trial (HER2 Antibody Therapy with Lutetium-177) in patients with HER2+ advanced solid tumors

- Primary Objectives (Phase 1, Treatment):
 - o To assess the safety and tolerability of ¹⁷⁷Lu-RAD202_{tr}
 - To determine the recommended dose(s) of future exploration for ¹⁷⁷Lu-RAD202
- **Population**: Advanced solid tumours with HER2 amplification by local testing, including IHC,FISH and/ NGS
- Imaging: ¹⁷⁷Lu-RAD202_{im}, consisting of ¹⁷⁷Lu-RAD202_{im} Safety Leadin, with or without dose escalation.
- Therapeutic Dose: 177Lu-RAD202_{tr} dose escalation. Treatment period of up to 3 cycles every 6 weeks.
- Dosimetry (Phase 0, Imaging): To assess the biodistribution, pharmacokinetics and radiation dosimetry of ¹⁷⁷Lu-RAD202_{im} in selected organs and tumour lesions.

Phase 0 (Imaging	Dose Level	Dose (mCi)		
Period with 177Lu- RAD202 _{im})	lmaging dose	10 mCi		
Phase I (Treatment	Dose Level ²	Dose (mCi)	% Change in dose levels	
Period with	DLI	~1.1 GBq (30 mCi)	+0%	
RAD202 _{tr})	DL2	~2.2 GBq (60 mCi)	+100%	
	DL3	~4.4 GBq (120mCi)	+100%	
	DL4	~6.6 GBq (180 mCi)	+50%	
	DL5	~8.8 GBq (240 mCi)	+33.33%	



RAD 202 – UPCOMING MILESTONES

PROGRAM	TARGET & MOLECULE	INDICATION	Dx/Tx	ISOTOPE	1ST HALF 2024	2ND HALF 2024	1ST HALF 2025	2ND HALF 2025	1ST HALF 2026
RAD202	HER2 (Nanobody)	BREAST & GASTRIC	Therapy	Lu177		Ethics Submission Ethics Approval	First Patient dosed	2 Cohorts completed & data release	Phase 1 Top Line data



Future Milestone



CORPORATE SNAPSHOT

Stock Code: RAD

12-month trading range:

AUD\$0.023(Oct24) - AUD\$0.137(Oct 23)

Market Cap: AUD\$52m

Shares on Issue: 2.17 billion

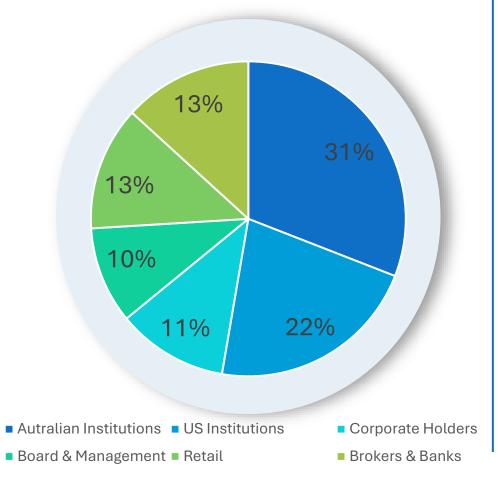
Options on Issue: 850m @ 6c/2y

Cash at Bank: AUD\$43M

No. of Shareholders: 2,300

FULLY FUNDED TO JUNE 2026





Top 20 Shareholders	2024, Oct 29 th
JP Morgan (incl. Point72)	175.096.000
Deutsche Bank	157.420.000
Lantheus	149.625.000
Paul Hopper	149.221.000
Regal Funds	142.140.000
Octagon	93.703.000
OC Funds	88.500.000
Investors Mutual	75.000.000
Australian Ethical	57.633.000
Silverarc	56.221.888
Northstar	51.234.000
Affinity	46.851.574
Dellora	46.851.574
UBS Securities	44.182.000
NanoMab	43.295.000
Atlantis Fund	42.356.000
Thorney	40.502.000
Merril Lynch	31.459.000
Goldman Sachs	24.044.000
Scarlett Hopper	23.857.000





THANK YOU

