

SPECULATIVE BUY

(no change)

Current price:	A\$0.091
Target price:	A\$0.21
Previous target:	A\$0.21
Up/downside:	130.8%
Reuters:	RAP.AX
Bloomberg:	RAP AU
Market cap:	US\$50.57m
	A\$68.99m
Average daily turnover:	US\$0.15m
	A\$0.21m
Current shares o/s	693.0m
Free float:	74.1%



Price performance	1M	ЗМ	12M
Absolute (%)	-20.9	-30	-68.6
Relative (%)	-27.3	-37.4	-66.4

Iain WILKIE

T (61) 7 3334 4521

E iain.wilkie@morgans.com.au

Scott POWER

T (61) 7 3334 4884

E scott.power@morgans.com.au

Analyst(s) own shares in the following stock(s) mentioned in this report:

– N/A

ResApp Health

You snooze, you lose

- RAP announces it has received positive feedback and a clear path for regulatory submission for its SleepCheck application with the US FDA.
- A human factors (HF) study is required, which is expected to commence in the next couple of months followed shortly by submission of its 510(k).
- HF studies are relatively inexpensive and, if approved, will be cleared initially as a diagnostic (prescription only) in the US. Further clinical studies are required to support over-the-counter (OTC) use as there are no OTC predicate devices and earmarked to commence end FY21.
- A clear positive for RAP if achieved; however, investors appear unlikely to assign much value to the announcement until receipt of approval given the difficulty in dealing with the FDA to date.
- We view recent weakness as an opportunity to add to positions ahead of a number of significant milestones. We have made no changes to forecasts and retain our Speculative Buy recommendation and target price of A\$0.21.

What is a human factors study?

A human factors (HF) study is effectively a usability study where users test various factors of an application or device to understand and improve the way that people may perceive the information, interpret that information and ability to make an actionable decision about what to do next, and inform ease of control or navigation. Outcomes typically inform any potential deficiencies in usability although importantly in a medical device sense help reduce risk of use errors. These studies are cheap and typically run <A\$20k, only requiring a minimum of 15 representative users and expected to commence 1QCY21. Further clinical data for OTC is also relatively inexpensive and likely to cost ~A\$100k based on an estimated 100 patient sample being required.

SleepCheck - a reminder on clinical data to date

RAP developed the SleepCheck algorithm with data showing high levels of accuracy when compared to alternative at-home monitoring and diagnosis of OSA. In its clinical study (n=238), SleepCheck correctly identified patients (sensitivity) with mild OSA (85% accuracy), moderate OSA (83% accuracy), and severe OSA (83% accuracy) while correctly determining when a patient did not fit within the various spectrums (known as specificity) - mild OSA (73%), moderate OSA (80%) and severe OSA (90%) when compared to an AASM Type II sleep study (full but unattended polysomnography test) performed simultaneously in the patient's home. The application works by analysing breathing sounds to determine the level of hypoxia experienced during sleep.

Investment view - maintain positive recommendation

We have made no changes to our forecasts and our DCF valuation remains at A\$0.21. We have set the target price at the same level. Our assumptions continue to fully discount the SleepCheck product and ResApp-DX verticals outside of Telehealth, noting the early nature and number of commercial questions still remain. The downside risk includes failure to roll out the cough diagnostic across Europe and Australia in a timely manner. We maintain our Speculative Buy rating for investors with a higher risk profile.

Financial Summary	Jun-19A	Jun-20A	Jun-21F	Jun-22F	Jun-23F
Revenue (A\$m)	0.00	0.97	2.40	11.25	20.63
Operating EBITDA (A\$m)	-7.04	-8.52	-4.72	3.88	12.99
Net Profit (A\$m)	-7.24	-8.52	-4.87	3.67	12.87
Normalised EPS (A\$)	(0.010)	(0.011)	(0.006)	0.005	0.016
Normalised EPS Growth	5%	6%	(44%)		244%
FD Normalised P/E (x)	NA	NA	NA	19.78	5.75
DPS (A\$)	-	-	-	-	-
Dividend Yield	0%	0%	0%	0%	0%
EV/EBITDA (x)	NA	NA	NA	16.80	4.10
P/FCFE (x)	NA	NA	NA	22.57	5.98
Net Gearing	(93.0%)	(82.5%)	(100.0%)	(94.3%)	(95.6%)
P/BV (x)	10.94	9.99	22.70	9.16	3.40
ROE	(128%)	(134%)	(96%)	66%	87%
Normalised EPS/consensus EPS (x)			0.62	0.92	0.79

SOURCE: MORGANS, COMPANY REPORTS

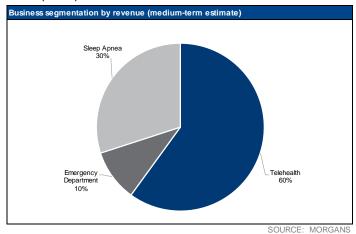


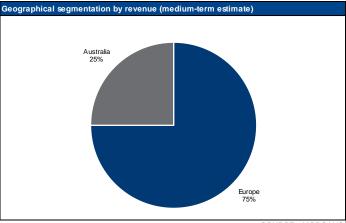
ResApp Health as at November 24, 2020

Market cap	A\$m):	68.99	Rating:	SPECULATIVE BUY
Shares outs	tanding (m):	693.0	Price (A\$):	0.091
Free float (%	5):	74.1	Target price (A\$):	0.21
Website:	www	resapphealth.com.au	Upside/downside to target price (%):	130.8

Company description

ResApp Health Limited (RAP) is a digital health company developing smartphone applications for the diagnosis and management of respiratory disease. The technology is based on machine learning algorithms that use cough sounds to diagnose and measure the severity of respiratory conditions without the need for additional hardware. TECHNOLOGY: RAP was created to diagnose and measure the severity of a range of chronic and acute diseases such as pneumonia, asthma, bronchiolitis and chronic obstructive pulmonary disease (COPD) using this insight. ResApp has developed new machine-learning algorithms to measure the severity of OSA from a patient's overnight breathing and snoring sounds recorded using a smartphone placed on a bedside table.





SOURCE: MORGANS

Assumptions	2018A	2019A	2020A	2021F	2022F	2023F
Clinical Revenue						
\$ Fee / test	5.0	5.0	5.0	5.0	5.0	5.0
Patient visits to ED/GP (m)	1,199	1,259	1,322	1,388	1,457	1,530
% present with respiratory	10%	10%	10%	10%	10%	10%
Children/Adult split	25%	25%	35%	45%	45%	45%
Total address market (m)	149.9	157.3	231.3	312.3	327.9	344.3
Market share	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Revenue- Clinical (US\$m)	0.0	0.0	0.0	0.0	0.0	0.0
Telehealth Revenue						
\$ Fee / test	4.0	4.0	4.0	5.0	5.0	5.5
# Providers	0	0	0	3	6	10
Avg consults p.a. / provider (m)	0	3	4	4	5	5
Patients presenting with problem	30%	30%	30%	30%	30%	30%
Market addressable (childen/adults)	25%	25%	25%	25%	25%	25%
Total address market (m)	0.00	0.00	0.00	0.90	2.25	3.75
Weighting within FY (%)	50%	100%	25%	40%	75%	75%
Revenue- Telehealth (US\$m)	0.0	0.0	0.0	1.8	8.4	15.5
Revenue- Direct (US\$m)	0.0	0.0	0.0	0.0	0.0	0.0
Total revenue - ResApp (US\$m)	0.0	0.0	0.0	1.8	8.4	15.5
AUDUSD FX	0.75	0.75	0.75	0.75	0.75	0.75
Total revenue - ResApp (A\$m)	0.0	0.0	0.0	2.4	11.3	20.6

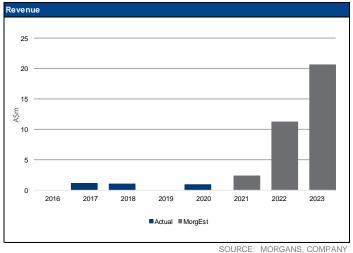
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Milestone	Outcome
Top-line data from SMARTCOUGH-C-2	Mixed
File de novo premarket submission with FDA for lead pediatric product	Achieved
File for CE Mark in Europe for lead pediatric product	Achieved
SMARTCOUGH-C-2 Croup results	Insufficient data
Additional Australian adult study results	Achieved
CE Mark Clearance for pediatric application	Achieved
CE Mark Clearance for adult application	Achieved
Sleep Apnea study top-line readouts	Achieved
TGA clearance for Adult product	Achieved
FDA clearance for lead pediatric product	Failed
Lodgement of CE Mark submission for OSA	
Coviu integration	Achieved
Phenix integration	Achieved
Initial telehealth agreement EU	
US FDA 510(k) submission for SleepCheck	
SOURCE: MORGA	NS COMPANY
	Milestone Top-line data from SMARTCOUGH-C-2 File de novo premarket submission with FDA for lead pediatric product File for CE Mark in Europe for lead pediatric product SMARTCOUGH-C-2 Croup results Additional Australian adult study results CE Mark Clearance for pediatric application CE Mark Clearance for adult application Sleep Apnea study top-line readouts TGA clearance for Adult product FDA clearance for lead pediatric product Lodgement of CE Mark submission for OSA Cowiu integration Phenix integration Initial telehealth agreement EU

SOURCE: MORGANS

Key drivers / risks Key Drivers

Key risks:

providers and primary care physicians



Regulatory clearances yet to be received from FDA in the US (largest single potential revenue

Objective and repeatable - the trend towards medical diagnostics being both objective and Scalability - the low cost nature of the technology makes it easily scaleable for the tele-health

Clinical - a number of trials are yet to read out - poor results could impact the ability to commercialise the technology.

Catalysts - Initial commercialisation and further deals with Telehealth organisations.

Funding risk - delays in receiving clearances could impact the commercialisation timelines resulting in further working capital being required.

FX risk - Main source of revenues are expected to be generated in overseas jurisdictions.

SOURCE: MORGANS, COMPANY



ncome statement	FY19A	FY20A	FY21F	FY22F	FY23F	Valuation metrics						
						Share price (A\$)	\$0.091		Price Tar	get (A\$)		\$0.
Total revenue	0.0	1.0	2.4	11.3	20.6	DCF valuation inputs		ī				
EBITDA	-7.0	-8.5	-4.7	3.9	13.0	Rf	3.00%		10-year rate	!		3.0
Associate income	0.0	0.0	0.0	0.0	0.0	Rm-Rf	5.00%		Margin			2.
Depreciation	0.0	0.0	0.0	0.0	0.0	Beta	1.70		Kd			3.5
EBITA	-7.3	-8.5	-5.0	3.6	12.7	CAPM (Rf+Beta(Rm-Rf))	11.5%		Ke			11.
Amortisation/impairment	0.0	0.0	0.0	0.0	0.0				NPV cash fl	ow (A\$m)		15
EBIT	-7.3	-8.5	-5.0	3.6	12.7	Equity (E/EV)	100.0%		Minority inte	rest (A\$m)		
Net interest expense	0.1	0.0	0.1	0.1	0.1	Debt (D/EV)	0.0%		Net debt (A	Sm)		
Pre-tax profit	-7.2	-8.5	-4.9	3.7	12.9	Interest rate	3.50%		Investments	(Á\$m)		
ncome tax expense	0.0	0.0	0.0	0.0	0.0	Tax rate (t)	30.0%		Equity mark	et value (A	\$m)	16
After-tax profit	-7.2	-8.5	-4.9	3.7	12.9	WACC	11.5%		Diluted no.			76
Minority interests	0.0	0.0	0.0	0.0	0.0					aluation	,	\$0
NPAT	-7.2	-8.5	-4.9	3.7	12.9				DOI 1	aidation		ΨΟ
Significant items	0.0	0.0	0.0	0.0	0.0	Multiples		FY19A	FY20A	FY21F	FY22F	F
•												
NPAT post abnormals	-7.2	-8.5	-4.9	3.7	12.9	Enterprise value (A\$m)		75.4	75.7	73.0	77.4	9
						EV/Sales (x)		na	77.7	30.4	6.9	
Cash flow statement	FY19A	FY20A	FY21F	FY22F	FY23F	EV/EBITDA (x)		-10.7	-8.9	-15.5	20.0	
BITDA	-7.0	-8.5	-4.7	3.9	13.0	EV/EBIT (x)		-10.3	-8.9	-14.6	21.4	
Change in working capital	1.6	4.3	1.0	-0.7	-0.8	PE (x)		-8.7	-8.2	-14.6	19.8	
Net interest (pd)/rec	0.1	0.0	0.1	0.1	0.1	PEG x)		1.6	1.3	-0.3	0.1	
Taxes paid	0.0	0.0	0.0	0.0	0.0							
Other oper cash items	0.0	0.0	0.0	0.0	0.0							
Cash flow from ops (1)	-5.3	-4.2	-3.7	3.2	12.4	Per share data		FY19A	FY20A	FY21F	FY22F	F
Capex (2)	0.0	0.0	0.0	0.0	0.0	No. shares		659.0	735.1	768.1	783.1	7
Disposals/(acquisitions)	0.0	0.0	0.0	0.0	0.0	EPS (cps)		-1.0	-1.1	-0.6	0.5	-
Other investing cash flow	0.0	-0.1	0.0	0.0	0.0	Dividend per share (c)		0.0	0.0	0.0	0.0	
Cash flow from investing (3)	0.0	-0.1	0.0	0.0	0.0	Dividend payout ratio (%)		0.0%	0.0%	0.0%	0.0%	C
U \ ,												
ncr/(decr) in equity	7.5	5.0	1.2	1.2	1.2	Dividend yield (%)		0.0%	0.0%	0.0%	0.0%	(
ncr/(decr) in debt	0.0	0.0	0.0	0.0	0.0							
Ordinary dividend paid	0.0	0.0	0.0	0.0	0.0	Growth ratios		FY19A	FY20A	FY21F	FY22F	F
Preferred dividends (4)	0.0	0.0	0.0	0.0	0.0							
Other financing cash flow	0.0	-0.4	0.0	0.0	0.0	Sales growth		na	na	147%	369%	8
Cash flow from fin (5)	7.5	4.6	1.2	1.2	1.2	Operating cost growth		-6%	35%	-25%	4%	
Forex and disc ops (6)	0.0	0.0	0.0	0.0	0.0	EBITDA growth		-9%	-21%	45%	182%	23
nc/(decr) cash (1+3+5+6)	2.1	0.3	-2.4	4.5	13.6	EBITA growth		-10%	-17%	41%	172%	2
Equity FCF (1+2+4)	-5.3	-4.2	-3.7	3.2	12.4	EBIT growth		-10%	-17%	41%	172%	2
-quity (01 (11211)	0.0	1.2	0.7	0.2		NPAT growth		-11%	-18%	43%	175%	2
Balance sheet	FY19A	FY20A	FY21F	FY22F	FY23F	Normalised EPS growth		-5%	-6%	44%	174%	2
Cash & deposits	5.4	5.8	3.1	7.5	20.8	Normansed Er 5 growth		-5 /0	-0 /0	44 /0	17470	
•						Operating performance		EV40A	EV20 A	EV24E	EV22E	Б
rade debtors	0.0	0.0	0.1	0.5	0.8	Operating performance		FY19A	FY20A	FY21F	FY22F	F
nventory	0.0	0.0	0.1	0.6	1.0	Asset turnover (%)		0.0	2.8	8.0	32.7	
Other current assets	1.0	0.9	0.9	0.9	0.9	EBITDA margin (%)		na	-875.7	-196.6	34.5	
Goodwill	0.0	0.0	0.0	0.0	0.0	EBIT margin (%)		na	-875.7	-207.9	32.1	
Other intangible assets	1.8	1.9	1.6	1.3	1.1	Net profit margin (%)		na	-875.7	-203.0	32.6	
ixed assets	0.0	0.3	0.3	0.3	0.3	Return on net assets (%)	-	105.6	-20.5	-90.2	-119.4	-1
nvestments	0.0	0.0	0.0	0.0	0.0	Net debt (A\$m)		-5.4	-5.8	-3.1	-7.5	-
Other assets	0.1	0.0	0.0	0.0	0.0	Net debt/equity (%)		-93.0	-82.5	-100.0	-94.3	-
otal assets	8.3	8.9	6.2	11.0	24.9	Net interest/EBIT cover (x)		n/a			
Short-term borrowings	0.0	0.0	0.0	0.0	0.0	Invested capital	•	2.0	5.6	1.0	-0.3	
rade payables	2.3	1.2	2.3	2.4	2.5	ROIC (%)		355.2	-153.5	-510.7	-1369.7	69
ong-term borrowings	0.0	0.0	0.0	0.0	0.0	Internal liquidity		FY19A	FY20A	FY21F	FY22F	F
Other term liabilities	0.1	0.4	0.4	0.4	0.4	Current ratio (x)		2.8	4.6	1.6	3.5	
Other liabilities	0.0	0.3	0.3	0.3	0.3	Receivables turnover (x)		0.0		48.7	40.1	
otal liabilities	2.5	1.9	3.0	3.1	3.2	Payables turnover (x)		4.6	5.5	4.1	3.1	
Share capital	29.3	35.9	37.2	38.4	39.7							
Other reserves	7.2	1.8	1.8	1.8	1.8							
Retained earnings	-30.7	-30.7	-35.8	-32.3	-19.7							
Other equity	0.0	0.0	0.0	0.0	0.0							
Total equity	5.8	7.0	3.1	7.9	21.7							
/linority interest	0.0	0.0	0.0	0.0	0.0							
Total shareholders' equity	5.8	7.0	3.1	7.9	21.7							
· · ·	5.6 8.3	7.0 8.9	6.2	11.0	24.9							
otal liabilities & SE												



Queensland		New South Wa	th Wales Victor			Western Austra	ılia
Brisbane	+61 7 3334 4888	Sydney	+61 2 9043 7900	Melbourne	+61 3 9947 4111	West Perth	+61 8 6160 8700
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Regulatory disclosures

Analyst owns shares in the following mentioned company(ies): N/A

Morgans Corporate Limited was Joint Lead Manager to the Placement of shares in ResApp Health Limited and received fees in this regard.

Recommendation structure

For a full explanation of the recommendation structure, refer to our website at morgans.com.au/research_disclaimer

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