

# **SPECULATIVE BUY**

(no change)

Current price:	A\$0.32
Target price:	A\$0.40
Previous target:	A\$0.32
Up/downside:	27.4%
Reuters:	RAP.AX
Bloomberg:	RAP AU
Market cap:	US\$150.4m
	A\$219.3m
Average daily turnover:	US\$0.53m
	A\$0.78m
Current shares o/s	659.0m
Free float:	74.1%



Price performance	1M	ЗМ	12M
Absolute (%)	43.2	90.9	43.2
Relative (%)	42.8	92.1	25.4

# 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

#### **Dr Derek JELLINEK**

T (61) 2 9043 7904

E derek.jellinek@morgans.com.au

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

– N/A

# **ResApp Health**

# Not long now

- RAP released its quarterly cashflow report, posting an operating cash loss in line with our expectations.
- Significant progress was achieved over the quarter including European and Australian approvals, positive results from its prospective at-home sleep apnoea study, and RAP being selected to join Sanofi's digital health program to co-create consumer health-focused respiratory disease products.
- Our focus is on the pending FDA clearance for the children's diagnostic (expected late-CY19 to early-CY20) and the potential for early sales across Europe and Australia (expected before June 2020) to prove up the business model.
- We upgrade our price target to A\$0.40 (from A\$0.32) and retain our Speculative Buy recommendation.

# 1Q20 cash burn in line with expectations

RAP has released its 1Q20 cashflow report, indicating a net operating outflow of A\$1.6m for the quarter. All operating expenses remain in line with our forecasts including an expected step-up in R&D costs in 2QFY20 (to \$850k vs \$628k this qtr) with the commencement of the Sanofi program in Europe, continued work on FDA approvals, and further development of the sleep apnoea product. RAP closed 1QFY20 with A\$3.7m in cash reserves.

# **Upcoming catalysts**

Investor focus remains firmly on a number of near-term catalysts: 1) Australian adult TGA clearance (expected 4QCY19); 2) children's US FDA clearance (expected 4QCY19 to early-1QCY20); and 3) initial commercialisation in EU/AUS (expected 2H20). While we don't anticipate significant revenues in the short-term, we are mainly watching for indicative pricing to confirm our assumptions and prove up the business model.

## Changes to forecasts

We have made no changes to our short-term forecasts however we continue to gradually reduce our risk weighting from FY23 onwards as regulatory hurdles are derisked and commercialisation approaches. We have increased our fee per test to A\$5 (from A\$4) in FY23. Given the cash burn rate expected over the next six months, we do not rule out the possibility that additional capital may be required. We continue to see significant upside risk to our forecasts with the receipt of FDA approval for the children's diagnostic de-risking the investment case further (increasing addressable market) and early sales confirming the commerciality of the diagnostic both in terms of pricing and the type of institutions interested.

# Investment view - positive view maintained

Due to our changes in forecasts, our DCF valuation increases to A\$0.40 (from A\$0.32), where we have set our price target. Downside risks include failure to achieve FDA clearance in a timely manner. We retain our Speculative Buy recommendation. RAP is recommended for investors with a higher risk profile.

Financial Summary	Jun-18A	Jun-19A	Jun-20F	Jun-21F	Jun-22F
Revenue (A\$m)	1.00	0.00	2.24	10.80	21.60
Operating EBITDA (A\$m)	-6.49	-7.04	-4.91	3.42	13.93
Net Profit (A\$m)	-6.53	-7.24	-5.07	3.30	13.90
Normalised EPS (A\$)	(0.010)	(0.010)	(0.007)	0.004	0.018
Normalised EPS Growth	(35%)	5%	(34%)		312%
FD Normalised P/E (x)	NA	NA	NA	71.75	17.40
DPS (A\$)	-	-	-	-	-
Dividend Yield	0%	0%	0%	0%	0%
EV/EBITDA (x)	NA	NA	NA	65.96	15.50
P/FCFE (x)	NA	NA	NA	82.57	18.22
Net Gearing	(60.4%)	(94.8%)	(97.7%)	(95.0%)	(95.4%)
P/BV (x)	37.46	38.64	28.44	19.11	8.93
ROE	(77%)	(129%)	(73%)	32%	70%
% Change In Normalised EPS Estimates			2.26%	0.84%	(1.48%)
Normalised EPS/consensus EPS (x)			0.98	1.10	1.01

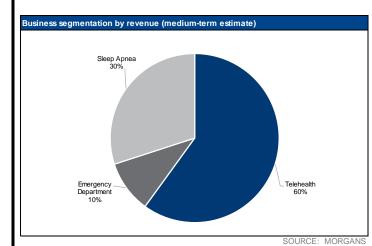
SOURCE: MORGANS, COMPANY REPORTS

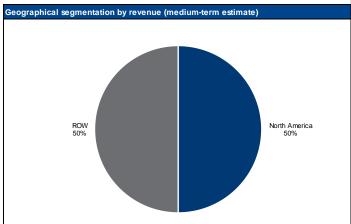


<b>Figure</b>	1:	<b>Business</b>	snapshot
---------------	----	-----------------	----------

ResApp Health (as at 30-10-19)		RAP AU / RAP.AX	Health Care Equipment & Services
Market cap (A\$m):	218.3	Rating:	SPECULATIVE BUY
Shares outstanding (m):	693.0	Price (A\$):	0.32
Free float (%):	74%	Target price (A\$):	0.40
Company website:	www.resapphealth.com.au	Upside/downside to target price (%):	27.4%

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 seventy 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

Basic revenue assumptions on ResAppDX (\$US)								
Assumptions	2018A	2019A	2020F	2021F	2022F			
Clinical Revenue								
\$ Fee / test	5.0	5.0	5.0	5.0	5.0			
Patient visiits to ED/GP (m)	1,199	1,259	1,322	1,388	1,457			
% present with respiratory	10%	10%	10%	10%	10%			
Children/Adult split	25%	25%	35%	45%	45%			
Total address market (m)	149.9	157.3	231.3	312.3	327.9			
Market share	0.0%	0.0%	0.0%	0.0%	0.0%			
Revenue- Clinical (US\$m)	0.0	0.0	0.0	0.0	0.0			
Telehealth Revenue								
\$ Fee / test	4.0	4.0	4.0	4.0	4.0			
# Providers	0	0	1	3	6			
Avg consults p.a. / provider (m)	0	3	4	5	5			
Patients presenting with problem	30%	30%	30%	30%	30%			
Market addressable (childen/adults)	25%	25%	35%	45%	45%			
Total address market (m)	0.00	0.00	0.42	2.03	4.05			
Weighting within FY (%)	50%	100%	100%	100%	100%			
Revenue- Telehealth (US\$m)	0.0	0.0	1.7	8.1	16.2			
Revenue- Direct (US\$m)	0.0	0.0	0.0	0.0	0.0			
Total revenue - ResApp (US\$m)	0.0	0.0	1.7	8.1	16.2			
AUDUSD FX	0.75	0.75	0.75	0.75	0.75			
Total revenue - ResApp (A\$m)	0.0	0.0	2.2	10.8	21.6			

Milestone	e table	
Timing	Milestone	Outcome
4QCY18	Top-line data from SMARTCOUGH-C-2	Mixed
2QCY19	File de novo premarket submission with FDA for lead pediatric product	Achieved
1QCY19	File for CE Mark in Europe for lead pediatric product	Achieved
1QCY19	SMARTCOUGH-C-2 Croup results	Insufficient data
2QCY19	Additional Australian adult study results	Achieved
3QCY19	CE Mark Clearance for pediatric application	Achieved
3QCY19	CE Mark Clearance for adult application	Achieved
4QCY19	FDA clearance for lead pediatric product	
1QCY20	Initial US commercialisation via telehealth partnership	
4QCY19	Sleep Apnea study top-line readouts	Achieved

SOURCE: MORGANS



# Key Drivers

Objective and repeatable - the trend towards medical diagnostics being both objective and repeatable.

Scalability - the low cost nature of the technology makes it easily scaleable for the tele-health providers and primary care physicians

Catalysts - FDA clearance and initial commercialisation.

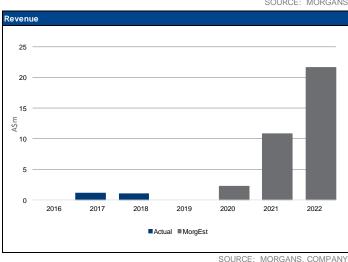


Regulatory clearances yet to be received from FDA in the US (largest potential revenue

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

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



Figure 2: Financial sumn	narv										
Income statement	FY18A	FY19A	FY20F	FY21F	FY22F	Valuation metrics					
						Share price (A\$)	0.32	Price Ta	rget (A\$)		\$0.40
Total revenue	1.0	0.0	2.2	10.8	21.6	DCF valuation inputs					
EBITDA	-6.5	-7.0	-4.9	3.4	13.9	Rf 4	.00%	10-year rat	е		4.00%
Associate income	0.0	0.0	0.0	0.0	0.0		5.00%	Margin			2.0%
Depreciation	0.0	0.0	0.0	0.0	0.0	Beta	1.70	Kd			4.20%
EBITA	-6.6	-7.3	-5.2	3.1	13.7	CAPM (Rf+Beta(Rm-Rf)) 1	2.5%	Ke	, (AA )		12.5%
Amortisation/impairment	0.0	0.0	0.0	0.0	0.0	Fit (F/F) 0	0.00/	NPV cash t		`	288.2
EBIT	<b>-6.6</b> 0.1	<b>-7.3</b> 0.1	<b>-5.2</b> 0.1	<b>3.1</b> 0.2	13.7	1 , ( )	0.0%	Minority into		)	0.0 -8.0
Net interest expense Pre-tax profit	-6.5	-7.2	-5.1	3.3	0.2 13.9	Debt (D/EV) Interest rate 4	0.0% 1.20%	Net debt (A Investment			0.0
Income tax expense	0.0	0.0	0.0	0.0	0.0		30.0%	Equity mar		1m2/	296.1
After-tax profit	-6.5	-7.2	-5.1	3.3	13.9	***	2.5%	Diluted no.			737.7
Minority interests	0.0	0.0	0.0	0.0	0.0		2.070		valuation	()	\$0.40
NPAT	-6.5	-7.2	-5.1	3.3	13.9			24.			<b>4</b> 01.0
Significant items	0.0	0.0	0.0	0.0	0.0	Multiples	FY18A	FY19A	FY20F	FY21F	FY22
NPAT post abnormals	-6.5	-7.2	-5.1	3.3	13.9	Enterprise value (A\$m)	239.5	241.5	244.1	247.9	262.0
-						EV/Sales (x)	na	na	109.0	23.0	12.1
Cash flow statement	FY18A	FY19A	FY20F	FY21F	FY22F	EV/EBITDA (x)	-36.9	-34.3	-49.8	72.6	18.8
EBITDA	-6.5	-7.0	-4.9	3.4	13.9	EV/EBIT (x)	-36.2	-33.1	-47.2	78.8	19.2
Change in working capital	0.2	1.6	-0.2	-0.7	-0.9	PE (x)	-32.3	-30.6	-46.6	72.9	17.7
Net interest (pd)/rec	0.1	0.1	0.1	0.2	0.2	PEG x)	-0.9	5.7	-1.4	0.4	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			5//	5/225	5015	F3 (0.0
Cash flow from ops (1)	-6.2	-5.3	-5.0	2.9	13.3	Per share data	FY18A	FY19A	FY20F	FY21F	FY22
Capex (2)	0.0	0.0	0.0	0.0	0.0	No. shares	659.0	659.0	693.0	737.7	752.7
Disposals/(acquisitions)	0.0	0.0	0.0	0.0	0.0	EPS (cps)	-1.0	-1.0	-0.7	0.4	1.8
Other investing cash flow  Cash flow from investing (3)	0.0	0.0 <b>0.0</b>	0.0	0.0 <b>0.0</b>	0.0	Dividend per share (c) Dividend payout ratio (%)	0.0	0.0	0.0	0.0	0.0
Incr/(decr) in equity	0.0	7.5	<b>0.0</b> 7.8	1.2	<b>0.0</b> 1.2	Dividend yield (%)	0.0% <b>0.0%</b>	0.0% <b>0.0%</b>	0.0% <b>0.0%</b>	0.0% <b>0.0%</b>	0.0% <b>0.0</b> %
Incr/(decr) in debt	0.0	0.0	0.0	0.0	0.0	Dividend yield (76)	0.0 /0	0.0 /6	0.0 /6	0.0 /6	0.0 /
Ordinary dividend paid	0.0	0.0	0.0	0.0	0.0	Growth ratios	FY18A	FY19A	FY20F	FY21F	FY22
Preferred dividends (4)	0.0	0.0	0.0	0.0	0.0	Gowania	1110/	1110/1	11201		
Other financing cash flow	0.0	0.0	0.0	0.0	0.0	Sales growth	na	na	na	382.1%	100.0%
Cash flow from fin (5)	0.0	7.5	7.8	1.2	1.2	Operating cost growth	-32.6%	-6.0%	1.5%	3.3%	3.8%
Forex and disc ops (6)	0.0	0.0	0.0	0.0	0.0	EBITDA growth	34.9%	-8.5%	30.3%	169.6%	307.9%
Inc/(decr) cash (1+3+5+6)	-6.2	2.1	2.8	4.1	14.5	EBITA growth	35.3%	-10.4%	29.2%	160.8%	334.2%
Equity FCF (1+2+4)	-6.2	-5.3	-5.0	2.9	13.3	EBIT growth	35.3%	-10.4%	29.2%	160.8%	334.2%
						NPAT growth	34.9%	-10.8%	30.0%	165.2%	320.6%
Balance sheet	FY18A	FY19A	FY20F	FY21F	FY22F	Normalised EPS growth	34.9%	-5.4%	34.2%	163.9%	312.3%
Cash & deposits	3.4	5.4	8.0	11.8	25.9						
Trade debtors	0.0	0.0	0.1	0.4	0.9	Operating performance	FY18A	FY19A	FY20F	FY21F	FY22I
Inventory	0.0	0.0	0.1	0.5	1.1	Asset turnover (%)	2.7	0.0	5.9	21.0	24.1
Other current assets	1.0	1.0	1.0	1.0	1.0	EBITDA margin (%)	na	na	-219.1	31.6	64.5
Goodwill Other intensible assets	0.0	0.0	0.0	0.0	0.0	EBIT margin (%)	na	na	-231.1	29.1	63.3
Other intangible assets	2.0	1.8	1.5	1.2	0.9	Net profit margin (%)	na	na 105.6	-226.4	30.6	64.3
Fixed assets Investments	0.0 0.0	0.0 0.0	0.0	0.0	0.0	Return on net assets (%) Net debt (A\$m)	-3.3	-105.6 -5.4	-20.5 -8.0	-90.2 -11.8	-119.4 -25.8
Other assets	0.0	0.0	0.0	0.0	0.0	Net debt/equity (%)	-60.4	-94.8	-6.0 -97.7	-11.6 -95.0	-25.d -95.4
Total assets	6.5	8.1	10.7	15.0	29.8	Net interest/EBIT cover (x)	-00.4	-34.0	-31.1	-33.0	-33.4
Short-term borrowings	0.0	0.0	0.0	0.0	0.0	Invested capital	2.4	1.9	0.0	-0.1	0.4
Trade payables	0.8	2.3	2.3	2.4	2.5	ROIC (%)	-275.2		-21528.8	-4277.9	3908.0
Long-term borrowings	0.0	0.0	0.0	0.0	0.0	Internal liquidity	FY18A	FY19A	FY20F	FY21F	FY22
Other term liabilities	0.1	0.1	0.1	0.1	0.1	Current ratio (x)	5.8	2.8	3.9	5.7	11.4
Other liabilities	0.0	0.0	0.0	0.0	0.0	Receivables turnover (x)	15.7	0.0	48.7	40.3	32.4
Total liabilities	1.0	2.5	2.5	2.6	2.7	Payables turnover (x)	11.0	4.6	3.1	3.1	3.1
Share capital	21.8	29.3	37.1	38.3	39.5						
Other reserves	7.1	7.1	7.1	7.1	7.1						
Retained earnings	-23.3	-30.7	-35.9	-33.0	-19.5						
•	0.0	0.0	0.0	0.0	0.0						
Other equity		5.7	8.2	12.4	27.1						
Other equity  Total equity	5.5										
Other equity  Total equity  Minority interest	0.0	0.0	0.0	0.0	0.0						
Other equity  Total equity  Minority interest  Total shareholders' equity	0.0 <b>5.5</b>	5.7	8.2	12.4	27.1						
Other equity  Total equity  Minority interest	0.0							SOURCE: MO			



Queensland		New South Wale	s	Victoria		Western Australia	
Brisbane	+61 7 3334 4888	Sydney	+61 2 9043 7900	Melbourne	+61 3 9947 4111	West Perth	+61 8 6160 8700
Stockbroking, Corporate Advice, V	Vealth Management	Stockbroking, Corporate Advice	ce, Wealth Management	Stockbroking, Corporate Advice, \	Wealth Management	Stockbroking, Corporate Advice, W	/ealth Management
Brisbane: Edward St	+61 7 3121 5677	Sydney: Grosvenor	+61 2 8215 5000	Brighton	+61 3 9519 3555	Perth	+61 8 6462 1999
Brisbane: Tynan	+61 7 3152 0600	Place		Camberwell	+61 3 9813 2945		
Partners		Sydney: Reynolds	+61 2 9373 4452	Domain	+61 3 9066 3200	South Australia	
Brisbane: North Quay	+61 7 3245 5466	Securities		Geelong	+61 3 5222 5128	Adelaide	+61 8 8464 5000
Bundaberg	+61 7 4153 1050	Sydney: Currency	+61 2 8216 5111	Richmond	+61 3 9916 4000	Exchange Place	+61 8 7325 9200
Cairns	+61 7 4222 0555	House		South Yarra	+61 3 8762 1400	Norwood	+61 8 8461 2800
Caloundra	+61 7 5491 5422	Armidale	+61 2 6770 3300	Southbank	+61 3 9037 9444	Unley	+61 8 8155 4300
Gladstone	+61 7 4972 8000	Ballina	+61 2 6686 4144	Traralgon	+61 3 5176 6055		
Gold Coast	+61 7 5581 5777	Balmain	+61 2 8755 3333	Warrnambool	+61 3 5559 1500		
Holland Park	+61 7 3151 8300	Bowral	+61 2 4851 5555				
lpswich/Springfield	+61 7 3202 3995	Chatswood	+61 2 8116 1700	Australian Capital	Territory		
Kedron	+61 7 3350 9000	Coffs Harbour	+61 2 6651 5700	Canberra	+61 2 6232 4999		
Mackay	+61 7 4957 3033	Gosford	+61 2 4325 0884				
Milton	+61 7 3114 8600	Hurstville	+61 2 8215 5079	<b>Northern Territory</b>			
Newstead	+61 7 3151 4151	Merimbula	+61 2 6495 2869	Darwin	+61 8 8981 9555		
Noosa	+61 7 5449 9511	Mona Vale	+61 2 9998 4200				
Redcliffe	+61 7 3897 3999	Neutral Bay	+61 2 8969 7500	Tasmania			
Rockhampton	+61 7 4922 5855	Newcastle	+61 2 4926 4044	Hobart	+61 3 6236 9000		
Spring Hill	+61 7 3833 9333	Orange	+61 2 6361 9166				
Sunshine Coast	+61 7 5479 2757	Port Macquarie	+61 2 6583 1735				
Toowoomba	+61 7 4639 1277	Scone	+61 2 6544 3144				
Townsville	+61 7 4725 5787	Wollongong	+61 2 4227 3022				

#### Disclaimer

The information contained in this report is provided to you by Morgans Financial Limited as general advice only, and is made without consideration of an individual's relevant personal circumstances. Morgans Financial Limited ABN 49 010 669 726, its related bodies corporate, directors and officers, employees, authorised representatives and agents ("Morgans") do not accept any liability for any loss or damage arising from or in connection with any action taken or not taken on the basis of information contained in this report, or for any errors or omissions contained within. It is recommended that any persons who wish to act upon this report consult with their Morgans investment adviser before doing so. Those acting upon such information without advice do so entirely at their own risk.

This report was prepared as private communication to clients of Morgans and is not intended for public circulation, publication or for use by any third party. The contents of this report may not be reproduced in whole or in part without the prior written consent of Morgans. While this report is based on information from sources which Morgans believes are reliable, its accuracy and completeness cannot be guaranteed. Any opinions expressed reflect Morgans judgement at this date and are subject to change. Morgans is under no obligation to provide revised assessments in the event of changed circumstances. This report does not constitute an offer or invitation to purchase any securities and should not be relied upon in connection with any contract or commitment whatsoever.

#### Disclosure of interest

Morgans may from time to time hold an interest in any security referred to in this report and may, as principal or agent, sell such interests. Morgans may previously have acted as manager or co-manager of a public offering of any such securities. Morgans affiliates may provide or have provided banking services or corporate finance to the companies referred to in the report. The knowledge of affiliates concerning such services may not be reflected in this report. Morgans advises that it may earn brokerage, commissions, fees or other benefits and advantages, direct or indirect, in connection with the making of a recommendation or a dealing by a client in these securities. Some or all of Morgans Authorised Representatives may be remunerated wholly or partly by way of commission.

#### Regulatory disclosures

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

#### Recommendation structure

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

# Research team

 $For analyst \ qualifications \ and \ experience, \ refer \ to \ our \ website \ at \ \underline{morgans.com.au/research-and-markets/our-research-team}$ 

#### Research coverage policy

For an overview on the stock selection process, refer to our website at morgans.com.au/research-and-markets/company-analysis/Research-Coverage-Policy

### Research independence statement

morgans.com.au/Research-Independence-Statement

### Stocks under coverage

For a full list of stocks under coverage, refer to our website at morgans.com.au/research-and-markets/company-analysis/ASX100-Companies-under-coverage and morgans.com.au/research-and-markets/company-analysis/EX-100-Companies-under-coverage

# morgans.com.au

If you no longer wish to receive Morgans publications please contact your local Morgans branch or write to GPO Box 202 Brisbane QLD 4001 and include your account details.

06.09.19