

ADD (no change)

Current price:	A\$0.088
Target price:	A\$0.19
Previous target:	A\$0.19
Up/downside:	113.1%
Reuters:	RAP.AX
Bloomberg:	RAP AU
Market cap:	US\$43.15m
	A\$61.00m
Average daily turnover:	US\$0.04m
	A\$0.06m
Current shares o/s	659.0m
Free float:	74.1%



 Price performance
 1M
 3M
 12M

 Absolute (%)
 -7.4
 -20
 -26.7

 Relative (%)
 -9.7
 -30.7
 -31.5

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

ResApp Health

ResApp Health

Croup too rare to show significance

- RAP has announced its results from its SMARTCOUGH-C-2 croup results showing greater accuracy compared to clinicians.
- While results were positive, unfortunately the rarity of the condition (2%) within the sample requires a larger population in order to achieve statistical significance.
- RAP will press on without croup for its FDA submission this month with the three largest indications included being LRTD, Asthma, and primary URTD.
- We maintain an Add rating on the stock with a number of catalysts in the next couple of months to drive investor interest.

Progressing to FDA submission imminently

RAP has released its croup results from its US pediatric trial. While showing significantly higher accuracy when compared to the treating team clinicians (74% vs 65% PPA), the low number of patients that presented with the disease (29 out of 1,236 patients) meant that statistical significance on the results was unable to be achieved. While disappointing the results were not sufficient to include in the upcoming FDA de novo submission, we note that this indication is small (as evidenced by the low numbers within the study) and not material to commercialisation efforts. RAP expects to lodge the submission in coming weeks. As a reminder, de novo submissions are expected to take ~120 days from filing to approval, with clock stoppages occurring if the FDA requires more information. While difficult to predict timing, we forecast FDA approval in FY20.

Upcoming catalysts to keep an eye on

There are a number of short-term catalysts we are focused on: 1) FDA de novo submission for lower respiratory tract disease (LRTD), Asthma/reactive airway disease, and primary upper respiratory tract disease (URTD) – expect 1QY19; 2) the outcome of an acute adult respiratory disease diagnosis study in Australia (expect 1QCY19); 3) completing recruitment for an at-home obstructive sleep apnoea study (expect 1QCY19); and 4) CE mark approval (expect 4QCY19).

No changes to forecasts

We recently reviewed the timing of our telehealth revenue assumptions, revising our forecasts back six months to adjust for potential delays following the US government shutdowns (FDA impact), and Brexit (CE mark impact). We forecast CE mark approval late 4QCY19 and FDA de novo in FY20. Following approvals, we forecast initial take-up from global providers.

Investment view - Add recommendation maintained

Given there are no changes to forecasts our DCF derived valuation remains unchanged at A\$0.19. The target price is set at the same level. The key downside risk is failure to achieve FDA and CE mark approval. RAP is recommended only for investors with a higher risk profile and who follow catalyst driven stocks. We retain an Add recommendation.

Financial Summary	Jun-18A	Jun-19F	Jun-20F	Jun-21F
Revenue (A\$m)	1.00	0.00	2.24	21.60
Operating EBITDA (A\$m)	(6.49)	(7.04)	(4.91)	14.00
Net Profit (A\$m)	(6.53)	(7.24)	(5.07)	13.79
Normalised EPS (A\$)	(0.010)	(0.010)	(0.007)	0.019
Normalised EPS Growth	(34.9%)	5.4%	(32.7%)	
FD Normalised P/E (x)	NA	NA	NA	4.70
DPS (A\$)	-	-	-	-
Dividend Yield	0%	0%	0%	0%
EV/EBITDA (x)	NA	NA	NA	3.44
P/FCFE (x)	NA	NA	NA	5.21
Net Gearing	(60.4%)	(94.8%)	(93.9%)	(91.5%)
P/BV (x)	10.46	10.79	20.02	3.58
ROE	(77%)	(129%)	(115%)	130%
Normalised EPS/consensus EPS (x)		1.04	0.70	0.94

SOURCE: MORGANS, COMPANY REPORTS

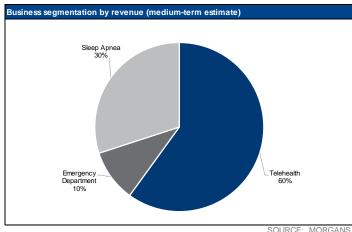


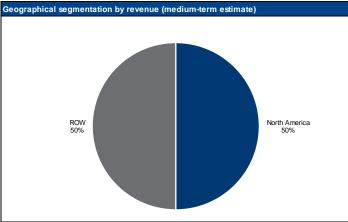
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ResApp Health (as at 18-03-19)	RAP AU / RAP.AX	Health Care Equipment & Services
Market cap (A\$m):	58.0 Rating:	ADD
Shares outstanding (m):	659.0 Price (A\$):	0.09
Free float (%):	74% Target price (A\$):	0.19
Company website: www.resap	ophealth.com.au Upside/downside to targe	et price (%): 114.3%

Company description

ResApp Health Limited (RAP, formerly Narhex Life Sciences Limited) 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: ResApp 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 had 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.



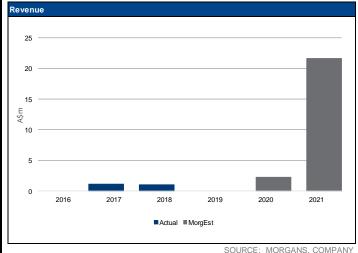


SOURCE:	MORGANS	

Assumptions	2017A	2018A	2019F	2020F	2021F
Clinical Revenue					
\$ Fee / test		5.0	5.0	5.0	5.0
Patient visiits to ED/GP (m)		1,199	1,259	1,322	1,388
% present with respiratory		10%	10%	10%	10%
Children/Adult split		25%	25%	35%	45%
Total address market (m)		149.9	157.3	231.3	312.3
Market share		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
# Providers		0	0	1	6
Avg consults p.a. / provider (m)		0	3	4	5
Patients presenting with problem		30%	30%	30%	30%
Market addressable (childen/adults)		25%	25%	35%	45%
Total address market (m)		0.00	0.00	0.42	4.05
Weighting within FY (%)		50%	100%	100%	100%
Revenue- Telehealth (US\$m)	0.0	0.0	0.0	1.7	16.2

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

SOURCE: MORGANS, COMPANY



Key drivers / risks

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 - the Australian adult respiratory study.

Key risks:

Regulatory clearances yet to be recieved from FDA in the US (largest and most immediate potential revenue source) and CE Mark in Europe.

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

Funding risk - delays in recieving 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



Income statement	FY17A	FY18A	FY19F	FY20F	FY21F	Valuation metrics					
						Share price (A\$)	0.09	Price Ta	rget (A\$)		\$0.19
Total revenue	1.1	1.0	0.0	2.2	21.6	DCF valuation inputs					
EBITDA	-10.0	-6.5	-7.0	-4.9	14.0	Rf	4.00%	10-year rat	е		4.009
Associate income	0.0	0.0	0.0	0.0	0.0	Rm-Rf	5.00%	Margin			2.09
Depreciation	0.0	0.0	0.0	0.0	0.0	Beta	1.70	Kd			4.209
EBITA	-10.2	-6.6	-7.3	-5.2	13.7	CAPM (Rf+Beta(Rm-Rf))	12.5%	Ke			12.59
Amortisation/impairment	0.0	0.0	0.0	0.0	0.0			NPV cash			127.
EBIT	-10.2	-6.6	-7.3	-5.2	13.7	Equity (E/EV)	100.0%	Minority int	•	1)	0.
Net interest expense	0.2	0.1	0.1	0.1	0.1	Debt (D/EV)	0.0%	Net debt (A			-3.
Pre-tax profit	-10.0	-6.5	-7.2	-5.1	13.8	Interest rate	4.20%	Investment		۸۵	0.
Income tax expense	0.0	0.0	0.0	0.0	0.0	Tax rate (t)	30.0%	Equity mar	,		130.
After-tax profit	-10.0	-6.5	-7.2	-5.1	13.8	WACC	12.5%	Diluted no.	of snares valuation	(m)	693. \$0.1 9
Minority interests NPAT	0.0	0.0 -6.5	0.0	0.0 -5.1	0.0			DCF	valuation		\$U.18
	-10.0 0.0	0.0	-7.2 0.0		13.8	Multiples	EV4.7	A EV40A	EV4.0E	EVONE	EV24
Significant items	-10.0	-6.5	-7.2	0.0 -5.1	0.0 13.8	Enterprise value (A\$m)	FY17 69.		FY19F 66.4	FY20F 64.1	FY21
NPAT post abnormals	-10.0	-0.5	-1.2	-3.1	13.0						77.
Cash flow statement	FY17A	FY18A	FY19F	FY20F	FY21F	EV/Sales (x) EV/EBITDA (x)	n -7.	a na 0 -9.9	na -9.4	28.6 -13.1	3. 5.
EBITDA	-10.0	-6.5	-7.0	-4.9		, ,			-9.4 -9.1		
Change in working capital	-10.0 4.7	-6.5 0.2	-7.0 1.6	-4.9 -0.2	14.0 -1.6	EV/EBIT (x) PE (x)	-6. - 5 .		-9.1 - 8.4	-12.4 -12.5	5. 4.
Net interest (pd)/rec	4.7 0.2	0.2	0.1	-0.2 0.1	0.1	PE (x) PEG x)	- 5 .		1.6	-0.4	0.
Taxes paid	0.2	0.1	0.1	0.1	0.0	I LG A)	U.	0.3	1.0	-0.4	0.
Other oper cash items	0.0	0.0	0.0	0.0	0.0						
Cash flow from ops (1)	-5.0	-6.2	-5.3	- 5.0	12.4	Per share data	FY17	A FY18A	FY19F	FY20F	FY21
Capex (2)	0.0	0.0	0.0	0.0	0.0	No. shares	659.		659.0	693.0	721.
Disposals/(acquisitions)	0.0	0.0	0.0	0.0	0.0	EPS (cps)	-1.		-1.0	-0.7	1.
Other investing cash flow	0.0	0.0	0.0	0.0	0.0	Dividend per share (c)	0.		0.0	0.0	0.
Cash flow from investing (3)	0.0	0.0	0.0	0.0	0.0	Dividend payout ratio (%)	0.0		0.0%	0.0%	0.09
Incr/(decr) in equity	0.3	0.0	7.5	2.8	1.2	Dividend yield (%)	0.0		0.0%	0.0%	0.0
Incr/(decr) in debt	0.0	0.0	0.0	0.0	0.0	Dividend yield (70)	0.0	70 0.070	0.070	0.0 /0	0.0
Ordinary dividend paid	0.0	0.0	0.0	0.0	0.0	Growth ratios	FY17	A FY18A	FY19F	FY20F	FY21
Preferred dividends (4)	0.0	0.0	0.0	0.0	0.0	0.000					
Other financing cash flow	0.0	0.0	0.0	0.0	0.0	Sales growth	n	a na	na	na	864.3%
Cash flow from fin (5)	0.3	0.0	7.5	2.8	1.2	Operating cost growth	237.69		-6.0%	1.5%	6.39
Forex and disc ops (6)	0.0	0.0	0.0	0.0	0.0	EBITDA growth	-202.99		-8.5%	30.3%	385.39
Inc/(decr) cash (1+3+5+6)	-4.8	-6.2	2.1	-2.2	13.7	EBITA growth	-211.19		-10.4%	29.2%	365.39
Equity FCF (1+2+4)	-5.0	-6.2	-5.3	-5.0	12.4	EBIT growth	-211.19		-10.4%	29.2%	365.39
, , ,						NPAT growth	-208.89		-10.8%	30.0%	371.99
Balance sheet	FY17A	FY18A	FY19F	FY20F	FY21F	Normalised EPS growth	-204.09		-5.4%	32.7%	366.49
Cash & deposits	8.6	3.4	5.4	3.0	16.6	_					
Trade debtors	0.1	0.0	0.0	0.1	0.9	Operating performance	FY17	A FY18A	FY19F	FY20F	FY21
Inventory	0.0	0.0	0.0	0.1	1.1	Asset turnover (%)	2.	0 2.7	0.0	8.1	40.
Other current assets	1.2	1.0	1.0	1.0	1.0	EBITDA margin (%)	n	a na	na	-219.1	64.
Goodwill	0.0	0.0	0.0	0.0	0.0	EBIT margin (%)	n	a na	na	-231.1	63.
Other intangible assets	2.2	2.0	1.8	1.5	1.2	Net profit margin (%)	n	a na	na	-226.4	63.
Fixed assets	0.0	0.0	0.0	0.0	0.0	Return on net assets (%)	-90	2	-105.6	-20.5	-90.
Investments	0.0	0.0	0.0	0.0	0.0	Net debt (A\$m)	-8.		-5.4	-3.0	-16.
Other assets	0.0	0.0	0.0	0.0	0.0	Net debt/equity (%)	-75	4 -60.4	-94.8	-93.9	-91.
Total assets	12.0	6.5	8.1	5.7	20.8	Net interest/EBIT cover (x)				
Short-term borrowings	0.0	0.0	0.0	0.0	0.0	Invested capital	7.	5 2.4	1.9	0.0	-0.
Trade payables	0.6	8.0	2.3	2.3	2.5	ROIC (%)	-133	4 -275.2	-376.1	-21528.8	-17850.
Long-term borrowings	0.0	0.0	0.0	0.0	0.0	Internal liquidity	FY17	A FY18A	FY19F	FY20F	FY21
Other term liabilities	0.1	0.1	0.1	0.1	0.1	Current ratio (x)	16.	8 5.8	2.8	1.8	7.
Other liabilities	0.0	0.0	0.0	0.0	0.0	Receivables turnover (x)	12.	5 15.7	0.0	48.7	44.
Total liabilities	0.6	1.0	2.5	2.5	2.7	Payables turnover (x)	27.	6 11.0	4.6	3.1	3.
Share capital	21.8	21.8	29.3	32.1	33.3						
Other reserves	6.3	7.1	7.1	7.1	7.1						
Retained earnings	-16.8	-23.3	-30.7	-35.9	-22.3						
Other equity	0.0	0.0	0.0	0.0	0.0						
	11.3	5.5	5.7	3.2	18.1						
Total equity											
Total equity Minority interest	0.0	0.0	0.0	0.0	0.0						
	0.0 11.3	0.0 5.5	0.0 5.7	0.0 3.2	0.0 18.1						



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