

LiDCO Group Plc

Results Presentation

Year ended 31 January 2016

12 April 2016

Matt Sassone

Chief Executive Officer

Paul Clifford

Finance Director









Overview



- AIM quoted medical devices company
- A supplier of minimally and non-invasive hemodynamic equipment
- Addressing a potential \$2bn market with comprehensive product solutions addressing intensive care and high-risk surgical patient pathways
- LiDCO's brand known globally with extensive clinical data
- Use of LiDCO's patented technology has been shown to significantly reduce morbidity and complications, length of stay and overall costs associated with major surgery

Matt Sassone appointed CEO 14 August 2015

LiDCO's Product Offering

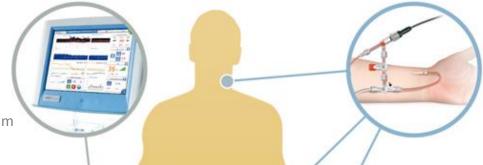


LiDCO@rapid

- ✓ Arterial line input
- ✓ Plug and play from existing vital signs monitor
- √ Validated PulseCOTM algorithm
- ✓ Beat-to-beat analysis and display of hemodynamic parameters

LiDCOnnon-invasive

- ✓ Quick and easy to set-up
- ✓ Real-time continuous non-invasive blood pressure (CNAPTM) and hemodynamic parameters
- ✓ Dual finger cuff with automatic finger switching for safer non-invasive use



LiDCO+plus

- ✓ Continuous real-time measurement with high precision
- ✓ Calibrate using LiDCO Lithium technology

Disposables

Critical Care disposablesLithium calibration kits

Element completely in

Surgery disposables
SmartCard





Why customers choose LiDCO?



Hemodynamic Monitoring for the whole patient pathway

Emergency Department



Operating Room



Intensive Care Unit



Other Patient Settings



Safe

- Calibrated cardiac output values from existing radial and venous catheters
- ✓ Dual finger cuff for non-invasive use
- Extensively validated including when used with vasoactive drugs^{1,2,3}

Prover

- Only arterial waveform analysis algorithm unchanged in 15 years
- √ Over 200 clinical studies⁴
- √ Improved patient outcomes^{5,6,7,8}

Flexible

- Switch from non-invasive to minimally invasive to calibrated with the same disposable
- LiDCOunity can be calibrated with any valid cardiac output measurement
- √ Hemodynamic management across the whole clinical pathway^a

Unique

- Single disposable for both invasive and dual cuff non-invasive monitoring
- Non-invasive CNAP calibrated to brachial arm cuff
- ✓ BIS[™] Depth of anaesthesia monitoring⁹
- √ 96 hours of monitoring with single disposable

- 1 Hadian M, Severyn D, Pinkey M. The effects of vascactive drugs on pulse pressure + stroke volume variation in post-operative ventistated patients (2011_Journal of Ortical Care. Jun; 26 (3: 328 E-18. Doi 10.1016/Lin.2010.08.015
- 2 Mora B, Ince I, Bikenberg B, Shirifadze K, Perridka E, Ankersmit HJ Dworschak, M (2011) Validation of cardiac output measurement with the LIDCO "Public contiour system in patients with impaired left wentriouser function after cardiac surgery". Annesthesia 66(B):678-81.
 3 Deer B, Berny J, Beand A, Strathia G, Lomberd C, Anthrony J, James M (2011) Commission.
- 3 Dyer R, Riercy J, Reed A, Strathie G, Lombard C, Anthony J, James M (2011) Comparison between pulse waveform analysis and thermodilution cardiac output determination in patients with severe pre-ediampsia. Brit Journal of Anaesthesia 105 (1)77 – 81
- 4 http://www.lidbo.com/outcomes/outcomes.php
- 5 Pearse R, Dawson D, Fawoett J, Rhodes A, Grounds RM, Bennett ED (2005) Early goal-directed through after major surgery reduces complications and duration of hospital stay. A randomised, controlled trial. Crit Care 9 (6) 687-693.
- 6 S. Huddart, C. J. Peden, M. Swart, B. McCormidk, M. Didkinson, M. A. Mohammed and N. Quiney (2014) Use of a Care Bundle to Radios Mortality after Emergency Lapartomy. British Journal of Surgary 2014; 10:1002/bis.9658
- 7 Thomson R, Meeran H, Valencia O, Af-Subsie N, Goel-Directed therapy following cardiac surgery and the incidence of acute kidney injury, Journal of Critical Care (2014), doi: 10.1016/j.prz.2014.06.011
- 8 Hatta J, Stottis C, Shiday C, Bayman E, Franzir A, Wang J, Nicial F (2011) Roduced mortality with noninvasive homodynamic monitoring of shock. J Crit Care vol 26 (2):224 E1-8
 9 Gan T, Glass P, Windsor A, Rayne F, Rosow C, Sobi P, Mincharg P. Bispectral index monitoring allows that or emergence and improved recovery time proportio, affortianl, and instruce oxide anathesia. BiSI" Villy Study Group. (1907) Anesthosiology 874:868-815.



Financial highlights

- Revenue of £7.59m (2014/15: £8.27m) down 8% largely due to slippage of monitor sales
- Gross margins (excluding third party products) of 81% (2014/15: 82%)
- Surgical disposables revenue down 5% to £3.21m (2014/15: £3.39m)
- ICU disposables revenue up 2% to £1.61m (2014/15: £1.58m)
- Loss before tax* £0.34m (2014/15: profit £0.33m)
- Debt free with cash at year end of £1.59m (2014/15: £1.51m)
 - * before exceptional item and share-based payments

Operational highlights

- Year of transition with Matt Sassone appointed CEO in August 2015
- Awarded a five year purchasing agreement by MedAssets, working on behalf of a large 38 hospital US healthcare group
- Master Distribution Companies appointed for S.E. Asia, Australasia, Canada, and Sub-Sahara Africa
- Awarded a NHS Supply Chain Framework Agreement
- Renewed five year commercial agreement with Argon Medical to distribute their pressure monitoring products in UK & Ireland.
- Launch of new LiDCOunity hemodynamic monitor

Income Statement Summary



- Total revenue down by 8% largely due to slippage of monitor sales
- Margin 81% (2014/15: 82%)
 - ICU disposables 85%
 - Surgery disposables 96%
- Overheads (before exceptional cost) up by £66,000
- Exceptional cost relates to recruitment of new CEO
- Profitable H2

	Year to	Year to
	Jan 2016	Jan 2015
	£'000	£'000
Revenue	7,593	8,267
Cost of sales	(2,455)	(2,535)
Gross profit	5,138	5,732
Administrative expenses	(5,718)	(5,489)
Adjusted operating (loss)/profit	(345)	331
Exceptional cost	(163)	-
Share based payment charge	(72)	(88)
Operating profit	(580)	243
Finance income/(expense)	2	(5)
(Loss)/profit before tax	(578)	238
Income tax	105	105
(Loss)/profit after tax	(473)	343

Revenues by Region



Year to January 2016			Year to January 2015					
	Monitors	Disposables	Other	Total	Monitors Di	sposables	Other	Total
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
LiDCO products								
UK - Total	279	2,983	322	3,584	610	3,045	297	3,952
US - direct	86	976	9	1,071	161	929	14	1,104
Japan	9	26	-	35	3	-	-	3
Europe	145	572	15	732	290	591	18	899
Rest of World	265	264	7	536	259	406	3	668
	784	4,821	353	5,958	1,323	4,971	332	6,626
3rd party sales								
UK	-	1,635	-	1,635	-	1,641	-	1,641
Total revenue	784	6,456	353	7,593	1,323	6,612	332	8,267

UK: Delayed capital purchases as customers' budgets were restricted

• **US**: Recovered from weak H1, which was affected by the major hospital group evaluation.

Japan: Recommenced sales after two years without monitors or disposables orders

EU: Transitioning to repeatable sustainable business transactions

• **ROW**: Underlying sales excluding China up 16%

Cash Flow and Working Capital



- Inventory down £180k and further reduction expected in 2016/17
- Product development cost of £419k
 down from £540k in prior year
- Closing cash £1.59m
- Well funded and no borrowings

	Jan 2016 £'000	Jan 2015 £'000
(Loss)/profit before tax	(578)	238
Cash flow from operating activities	728	274
Cash used in investing activities	(649)	(991)
Cash flow before financing	79	(717)
Cash flow - financing activities	(1)	(147)
Net change in cash	78	(864)
Opening cash	1,509	2,373
Closing cash	1,587	1,509

Building blocks for future success



Geographical expansion from core UK market

1

Commercial focus

2

Maintain technology leadership position

3

Focus on specific market applications

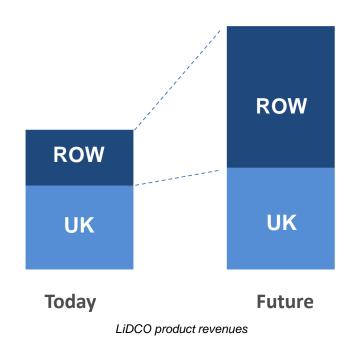
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Foundation of strong technology and growing global market

Geographical expansion



Proportion of revenue



Focus countries

- US: Largest & fastest growing market
 Adopting ERAS & PSH protocols
- EU: High clinical awareness markets and reimbursed markets e.g. Scandinavia, Poland
- Middle East: Rapidly adopting protocols
- India: Strong economy & large opportunity
- China: No established dominant player
- Japan: Second largest hemodynamic market globally

ERAS – Enhanced Recovery After Surgery PSH – Perioperative Surgical home

Geographical expansion



Europe

- Clear focus on markets where we can be #1 or #2
- GDT protocol projects underway in target countries
- Working with next generation of KOLs to develop clinical studies

Middle East

- Rapidly growing adoption of GDT
- KOL activity to embed technology
- Expanding distribution efforts across the region

LOK Master Distributor

- Agreements signed for Canada, Sub-Sahara Africa
- Exploring Russia & former Soviet States

Direct Markets

- UK
- USA



Japan

- Working with strategic partners to take market share from major incumbent
- Exploiting
 reimbursement to drive
 sales of LiDCOrapid
 Launching CNAP

China

- Registration for LiDCOrapid received March 16
- Represents 5% of global medical device market

India

 New distribution partner signed

Fieldman Master Distributor

- Agreements signed for South East Asia & Australasia
- Number of new distributor markets being opened

GDT – Goal Directed Therapy KOL – Key Opinion Leader

USA Market





H1 2015 10 week trial against competitor in 8 different sites

October 2015 Signing of five year agreement

January 2016 Initial placement of some monitors whilst sites await budget approval



2014 Initial discussions regarding opportunity

July 2015 Clinical decision for LiDCO, Commencement of commercial negotiations

November 2015
Start date of agreement

March 2016

Recruitment of additional US sales representative with 100% focus on this opportunity

Expansion Plans

- Will progressively build team in line with growing business
- Focus on large healthcare networks, as demonstrated by our MedAssets agreement, rather than only focus on an individual account approach which is very resource intensive
- Additional headcount already added to realise MedAssets opportunity
- Identified 3rd party training partner
- Faster market access plans developed

Commercial Focus



New UK sales management Hunter / farmer model in place



Incentivisation

New schemes rolled out across business Focused on gaining market share



Management

Focused on managing sales pipeline Business intelligence suite



Digital Focus

New Website Addressing education hurdle



Funding

Reinvesting spend to commercial operations & marketing efforts

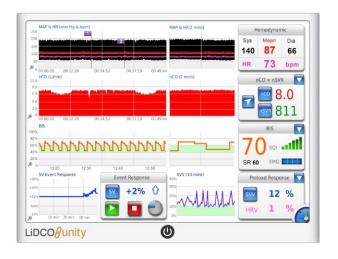


IMPROVED COMMERCIAL RESULTS

Technology Leadership



LiDCO Junity



A new 3 in 1 multi parameter hemodynamic platform

- Combines established brands: LiDCOplus and LiDCOrapid with screens designed for either Critical Care or Operating Room focus
- Offers customers the ability to have non-invasive, minimally invasive and calibrated hemodynamic monitoring all in one platform
- Works across the Patient Pathway A&E→OR→ITU
- Data is maintained from prior monitoring to provide complete history
- Compact screen size for easy integration around the bedside
- HL7 compatible for communication with HIS/EMR

NEW MONITOR LAUNCHED MARCH 2016 - CE Marked & FDA approved

HIS – Hospital Information Systems EMR – Electronic Medical records

Technology Leadership



Reflected in our Corporate Partnerships



Royalty license arrangement: Licensee awaiting approval from FDA for their new monitor



Incorporated BIS™ Technology: Use recommended by



Incorporated CNAPTM Technology: Non-Invasive technology adoption - fastest growing sector



Distribution arrangement: New 5 year distribution agreement signed, securing important revenue

LiDCO Final Results – April 2016

NICF in UK

Focus on specific market applications



Drivers of underlying market growth



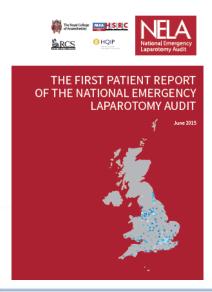
Focus on specific market applications

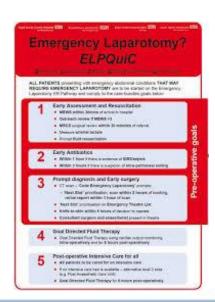


UK Example

High risk elective Surgery	Over 50,000 patients per annum (Colorectal 20,000; Vascular 20,000)
Emergency laparotomy Surgery	Over 30,000 patients per annum
Cardiac Surgery	Over 30,000 patients per annum
Emergency Orthopaedic Surgery	Over 70,000 patients per annum
Sepsis	Over 100,000 patients per annum

Source: NHS data





- Approximately 30,000 emergency laparotomies in the UK each year with an average mortality of 15%
- One of the highest risk hospital patient populations
- Cardiac output monitoring was used in fewer than 15% of all cases

Use of a pathway quality improvement care bundle to reduce mortality after emergency laparotomy (Huddart et al.British Journal of Surgery 2014)

- ELPQuiC pathway is a 5 step care bundle. Part of the pathway is goal directed fluid therapy using a cardiac output monitor
- The overall adjusted risk of 30-day mortality significantly decreased from 15.6% to 9.6% (p=0.001)
- The study's authors concluded that 5.97 more lives saved per 100 patients treated overall compared with outcomes before implementation of ELPQuiC bundle

Focus on specific market applications



New clinical evidence

Announced	The Study	The Benefits
March-2015	Evaluation of the utility of the Vigileo FloTrac TM , LiDCO TM , USCOM and CardioQ TM to detect blood loss	LiDCO monitors have been shown to be the quickest at detecting blood loss (five times faster than our major competitors). This performance gives our customers the best chance of avoiding excessive blood loss and guiding fluid replacement
August-2015	A meta-analysis analysing the effect of GDHT (Goal Directed Hemodynamic Therapy) in adult non-cardiac surgery patients	The authors analysed the results of 10 randomised controlled trials involving 1,527 patients undergoing surgery. The authors concluded (with high statistical significance p< 0.001) that the use of GDHT decreases post-operative complications and that "potential cost savings resulting from GDHT were substantial."
October-2015	A randomised study investigating the effective of goal-directed fluid therapy (GDFT) on mothers and their babies who have been selected for caesarean section.	The study concluded that LiDCO <i>rapid</i> -guided GDFT can reduce the incidence of maternal hypotension and vasopressor requirement during operation, with a subsequent decrease in the incidence of neonatal adverse events
December-2015	Using data from the trial, a cost effectiveness analysis was undertaken of the OPTIMISE study - a multi-centre trial in the UK aimed at improving surgical outcomes by GDFT	The research showed that using a conservative estimates, the size of the savings that could be achieved by the NHS over a five-year period were £65 million
January-2016	An editorial published in the World Journal of Surgery examined what can be learned from enhanced recovery after surgery programmes	Highlighted recent multi-centre study in UK that concluded the implementation of a care bundle including GDFT for patients undergoing emergency laparotomy was associated with a significant reduction in patient mortality

Further details can be found in results announcement

Summary



Delivering on Strategic Priorities

- Investing in USA to exploit opportunities
- Renewing key commercial relationships
- Implementing new distributor business model
- Launching new LiDCOunity product
- Focused on sales & marketing

Group remains debt free and well-funded with high margin products in a large growing market

We foresee 2016/17 as being a year of sales growth and cash generation. Whilst we expect to be profitable, we will continue to invest in the business to achieve the substantial growth opportunities that we believe are available



Appendices

Unit Sales/Installations by Region



	Year to January 2016		Year to January 2015	
LiDCO products	Monitors	Monitors Disposables		Disposables
(incl placed monitors)	Units	Units/Use	Units	Units/Use
Surgery products				
UK	48	22,965	73	24,410
US	31	6,885	37	7,065
Japan	-	500	-	-
Europe	29	6,895	37	7,210
Rest of World	29	2,730	63	6,073
Surgery total	137	39,975	210	44,758
ICU products				
All territories	23	16,777	57	15,903
Total	160	56,752	267	60,661

Arterial and Non-Invasive Disposables Market



Addressed by LiDCO products

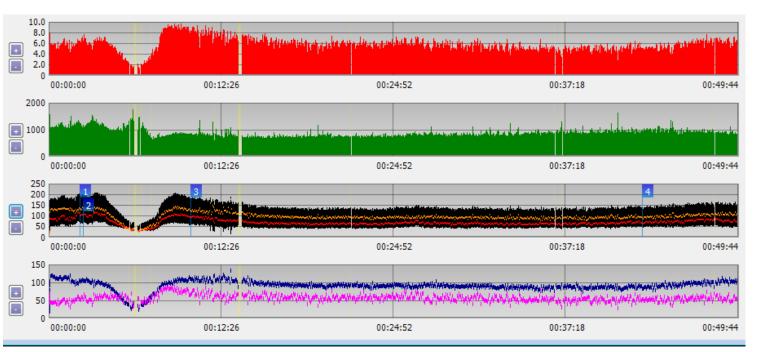
Peri-operative Surgical Fluid & Hemodynamic Monitoring Market				
Territory	UK	US	JAPAN	EU
Arterial line pts. Non arterial line pts	340,000 340,000	1,700,000 1,700,000	680,000 680,000	2,560,000 2,560,000
Total pts. / annum	680,000	3,400,000	1,360,000	5,120,000
Average price Disposable (\$)	\$102	\$195	\$420	\$150
Disposable market value / annum	\$70m	\$660m	\$570m	\$770m

Total market for disposables addressed by LiDCO \$2 billion

Source: Management estimates from published data

Blood flow fall across induction and its correction using LiDCO*rapid*





Cardiac Output

Systemic Vascular Resistance

Blood Pressure

Stroke Volume Heart Rate

Balance Sheet



	31 Jan 2016	31 Jan 2015
	£'000	£'000
Non-current assets	2,800	2,868
Current assets		
Inventory	1,939	2,119
Trade & other receivables	2,648	2,941
Cash	1,587	1,509
Total current assets	6,174	6,569
Current liabilities		
Trade & other payables	(1,482)	(1,596)
Deferred income	(116)	(121)
Borrowings	-	-
Total current liabilities	(1,598)	(1,717)
Net current assets	4,576	4,852
Net assets	7,376	7,720

Summary Cash Flow



	Year ended	Year ended
	31 January	31 January
	2016	2015
	£'000	£'000
(Loss)/profit before tax	(578)	238
Net cash inflow from operating activities	728	274
Cash flows from investing activities		
Purchase of plant, property & equipment	(163)	(363)
Purchase of intangible assets	(489)	(635)
Finance income	3	7
Net cash used in investing activities	(649)	(991)
Net cash inflow/(outflow) before financing	79	(717)
Cash flows from financing activities		
Finance expense	(1)	(12)
Repayment of finance lease	-	(175)
Issue of ordinary share capital	-	40
Net cash outflow from financing activities	(1)	(147)
Net increase/(decrease) in cash and cash equivalents	78	(864)
Opening cash and cash equivalents	1,509	2,373
Closing cash and cash equivalents	1,587	1,509