

Valneva presents its FY 2018 financial results

Analyst Presentation
February 21, 2019



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Key Business and R&D Milestones Completed in 2018



✓	Strong financial results	<ul style="list-style-type: none">+ Product Sales +16% CER vs. 2017, according to guidance+ 2018 Gross Margin 60.7% vs. 56.3% in 2017+ EBITDA €13.1m vs. €10.8m in 2017+ Net profit €3.3m; first ever profitable annual result for Valneva
✓	Major R&D milestones	<ul style="list-style-type: none">+ Nine key R&D milestones achieved in 2019 including Lyme Phase 1 results and Phase 2 initiation, Phase 1 trials for chikungunya and Zika
✓	Significant business milestones	<ul style="list-style-type: none">+ New IXIARO[®] supply contract with US Government worth up to \$70m+ Accelerated IXIARO[®] vaccination schedule approved by FDA and Health Canada
✓	Focusing on best capital markets	<ul style="list-style-type: none">+ €50m raised in oversubscribed placement led by blue-chip U.S. healthcare investors+ Delisting from the VSE announced. Company to focus on best capital markets for life science companies

CER: at constant exchange rates; all 2018 results are unaudited

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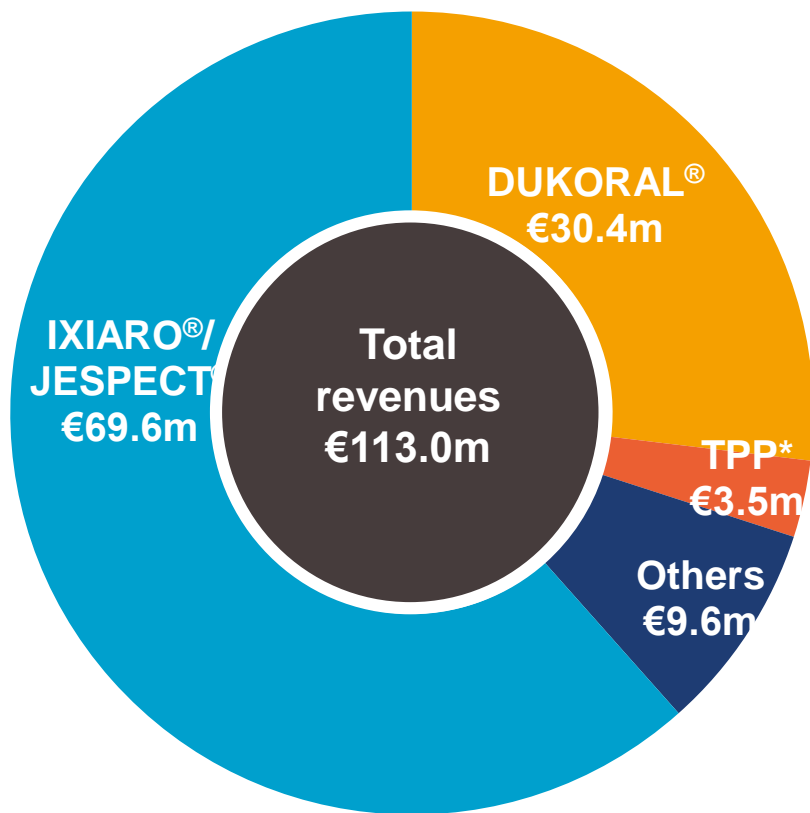
Q&A

Valneva's profitable commercial business funding key R&D programs



Repeated double digit product sales growth
16% CER in 2018 vs. 2017

2018 Full-year results



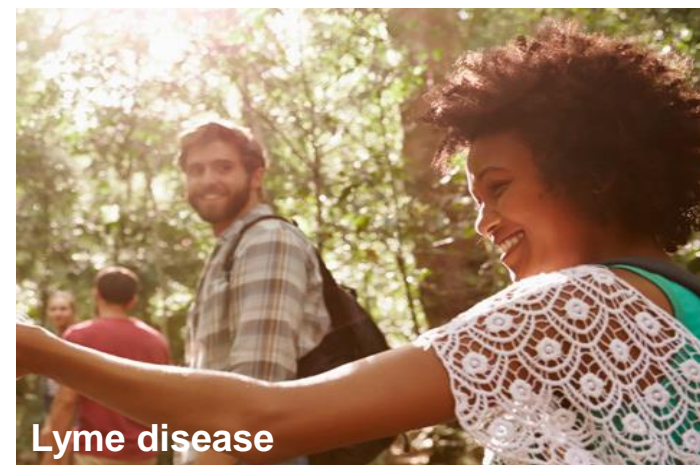
Product sales
€103.5m

Direct sales
81.2%

Gross margin
60.7%

Cash generated
€16.3m

Innovative R&D pipeline in areas of high unmet medical need



CER: at constant exchange rates; all 2018 results are unaudited
*Third party products sold by Valneva's commercial organization

Revenue analysis



€m (CER ¹)	FY 2017		FY 2018 (unaudited)		2019 Guidance
	Actual	CER	Actual	CER growth	
<i>Product sales revenues</i>					
IXIARO [®] /JESPECT [®]	60.0	58.3	69.6	19%	
DUKORAL [®]	28.5	27.1	30.4	12%	
Third party products	3.9	3.9	3.5		
Product revenues	92.6	89.3	103.5	16%	115 - 125
Other revenues	12.7	12.4	9.6		
Total revenues	105.3	101.7	113.0		125 - 135
Grants / R&D tax credits	4.5	4.5	4.3		
Total revenues & grants²	109.8	106.2	117.3		

1 CER at constant exchange rates as FY avg. Act 2018 2 "Grant income" was reclassified from the position "Revenue and Grants" and included in "Other income/expense" for periods starting Jan 1, 2018. The comparable period was adjusted accordingly to maintain comparability.

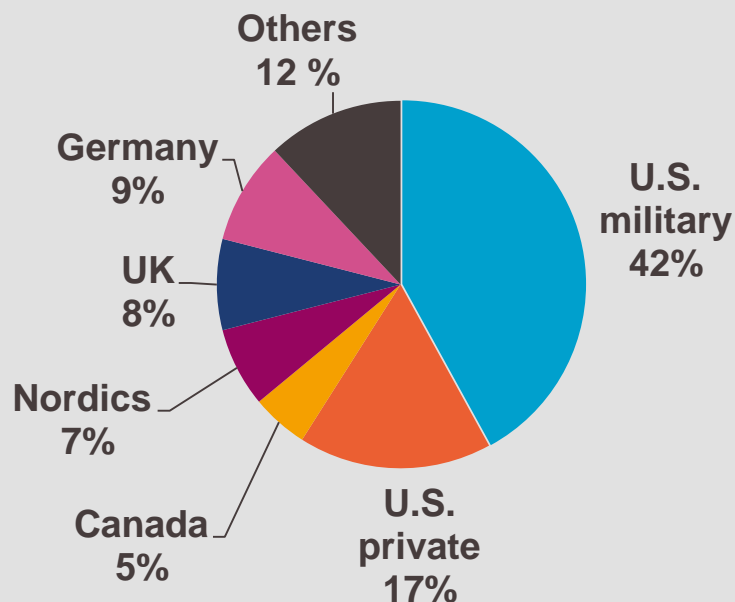


Product sales growth expected to continue in 2019

US and Canada driving top line growth, supported by other markets

IXIARO®/JESPECT®: North America is the biggest contributor

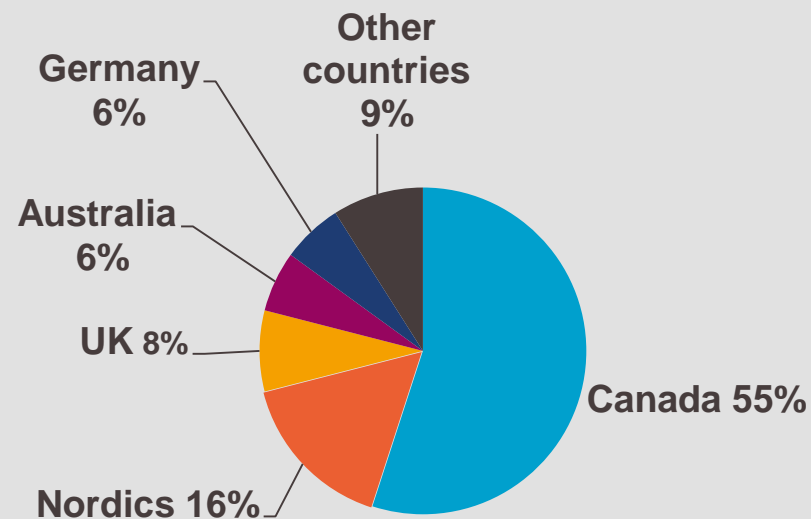
Split of 2018 product sales



Growth expected to be 15% CER or more in 2019

DUKORAL®: Canada is the biggest contributor

Split of 2018 product sales



Revenues to grow by up to 5% CER in 2019

CER: at constant exchange rates; all 2018 results are unaudited



FY 2018 Profit & Loss Report (all figures at AER)

Strong financial performance

€m	12 months ended December	
	2018 (unaudited)	2017
Product Sales	103.5	92.6
Revenues from collaboration, licensing and services	9.6	12.7
Revenues¹	113.0	105.3
Cost of goods and services	(44.4)	(46.0)
Research and development expenses	(25.3)	(23.4)
Marketing and distribution expenses	(20.9)	(17.9)
General and administrative expenses	(16.9)	(15.5)
Other income ¹ / (expense), net	4.0	4.2 ¹
Amortization and impairment	(3.2)	(10.7)
OPERATING PROFIT/LOSS	6.3	(4.0)
Finance, investment and income taxes	(3.0)	(7.5)
PROFIT/LOSS FOR THE PERIOD	3.3	(11.5)
EBITDA²	13.1	10.8

AER: at actual exchange rates **1** "Grant income" was reclassified from the position "Revenue and Grants" and included in "Other income/expense" starting Jan 1, 2018. The comparator period was adjusted accordingly to maintain comparability. **2** Full Year 2018 EBITDA was calculated by excluding €6.8 million of depreciation and amortization from the €6.3 million operating profit as recorded in the condensed consolidated income statement under IFRS.

Cash and debt position



€m	December 2018 (unaudited)	December 2017
CASH & CASH EQUIVALENTS ¹	81.7	38.1
Finance Lease Liabilities	(25.8)	(26.7)
-/- Cash Deposit (Finance Lease related) ²	11.3	11.3
Non current borrowings	(14.3)	(27.4)
TOTAL NON-CURRENT LIABILITIES (>1 year)	(28.8)	(42.8)
Finance Lease Liabilities	(0.9)	(0.9)
Current borrowings	(16.7)	(16.5)
TOTAL CURRENT LIABILITIES (<1 year)	(17.5)	(17.4)
TOTAL BORROWINGS	(46.3)	(60.2)
NET CASH/ DEBT ³	35.4	(22.1)

¹ Net proceeds from €50m capital increase included; ² included in Other non-current assets on the condensed consolidated interim balance sheet; ³ Net Debt calculated by deducting current and non-current liabilities from Cash & Cash Equivalents.

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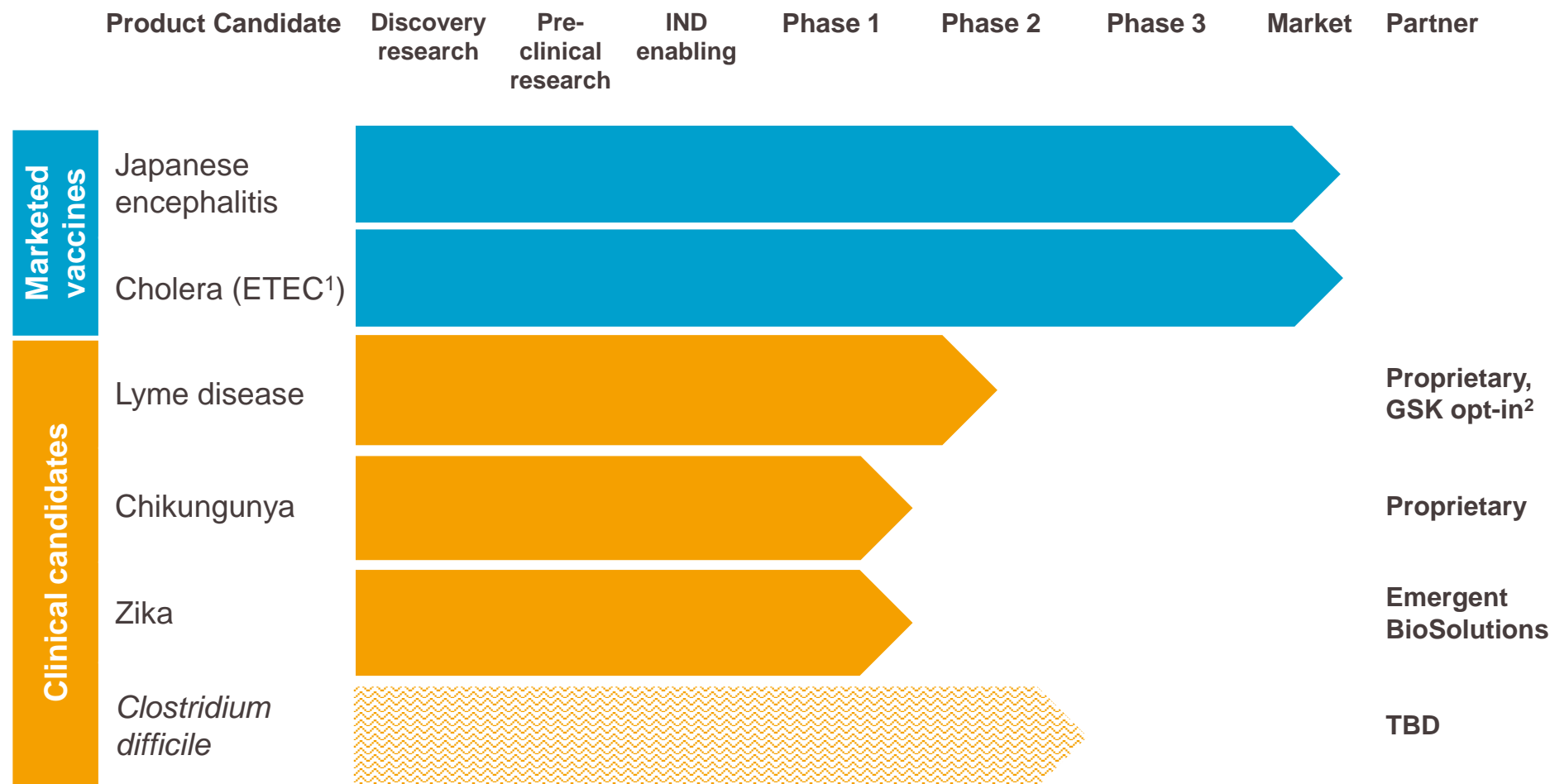
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Valneva's R&D pipeline

Focusing on innovative vaccine candidates with high unmet medical need



¹ Indications differ by country - Please refer to Product / Prescribing Information (PI) / Medication Guide approved in your respective countries for complete information, incl. dosing, safety and age groups in which this vaccine is licensed, ETEC = *Enterotoxigenic Escherichia coli* (E. Coli) bacterium; ² Based on a strategic partnership agreement signed in 2007, GSK has an opt-in after Phase 2 on products developed by Valneva GmbH



Key R&D progress reported in 2018 and early 2019

January 2019

- + Positive initial booster data & final Phase 1 data for Lyme disease vaccine candidate (VLA15)
- + Positive Phase 1 interim results for Chikungunya vaccine candidate (VLA1553)

December

- + Initiation of Phase 2 for Lyme disease vaccine candidate (VLA15)
- + FDA Fast Track Designation for chikungunya vaccine candidate (VLA1553)

November

- + Positive Phase 1 results for Zika vaccine candidate (VLA1601)

October

- + Positive feedback from EMA on further development for Lyme disease vaccine (VLA15)
- + Initiation of 2nd stage of Phase 1 study for chikungunya vaccine candidate (VLA1553)

July

- + Successful conclusion of end of Phase 1 process for Lyme disease vaccine candidate with FDA and Phase 2 strategy alignment (VLA15)

March

- + Positive Phase 1 interim results for Lyme disease vaccine candidate (VLA15)
- + Initiation of Phase 1 study to evaluate vaccine candidate against chikungunya (VLA1553)

February

- + Initiation of Phase 1 study to evaluate Zika vaccine candidate (VLA1601)

VLA15: the only Lyme disease vaccine in clinical development

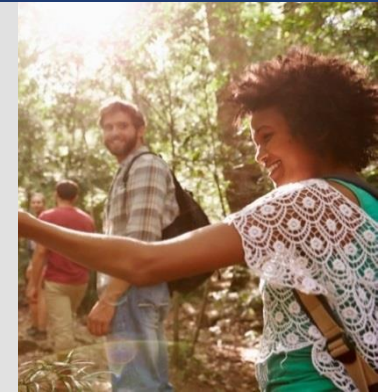


Lyme disease

- + Transmitted by *Ixodes scapularis* ticks (Northeastern & Midwestern US) and *Ixodes ricinus* ticks (Europe)¹
- + Most common vector borne illness in the Northern Hemisphere (over 300,000 cases per year in US² and at least 200,000 cases per year in Europe³)
- + Delayed or inadequate treatment can lead to disabling sequelae

Valneva's vaccine candidate

- + Only active clinical program, no vaccine on the market
- + Multivalent, protein subunit-based vaccine
- + Targets the outer surface protein A (OspA) of *Borrelia* (proven mode of action)
- + FDA Fast Track Designation



Positive initial booster data and final Phase 1 data

- + Final Phase 1 results confirmed favorable safety profile and encouraging immunogenicity⁴
- + Positive initial booster data: single re-vaccinations resulted in a significant immune-response⁴
- + Preclinical data showed that the vaccine has the potential to provide protection against the majority of *Borrelia* species pathogenic for humans⁵

Phase 2 ongoing

- + Phase 2 investigating higher doses and vaccination schedules
- + Phase 2 initial data expected mid-2020
- + Medical need for Lyme vaccine steadily increasing as the disease footprint widens⁶

¹ Stanek et al. 2012, The Lancet 379:461–473; ² As estimated by the CDC https://wwwnc.cdc.gov/eid/article/21/9/15-0417_article; ³ Estimated from available national data. Number largely underestimated based on WHO Europe Lyme Report as case reporting is highly inconsistent in Europe and many LB infections go undiagnosed; ECDC tick-borne-diseases-meeting-report; ⁴ Valneva Reports Positive Initial Booster Data and Final Phase 1 Data for its Lyme Disease Vaccine Candidate, ⁵ Plos One; Design and Development of a Novel Vaccine for Protection against Lyme Borreliosis; ⁶ New Scientist, Lyme disease is set to explode and we still don't have a vaccine; March 29, 2017.

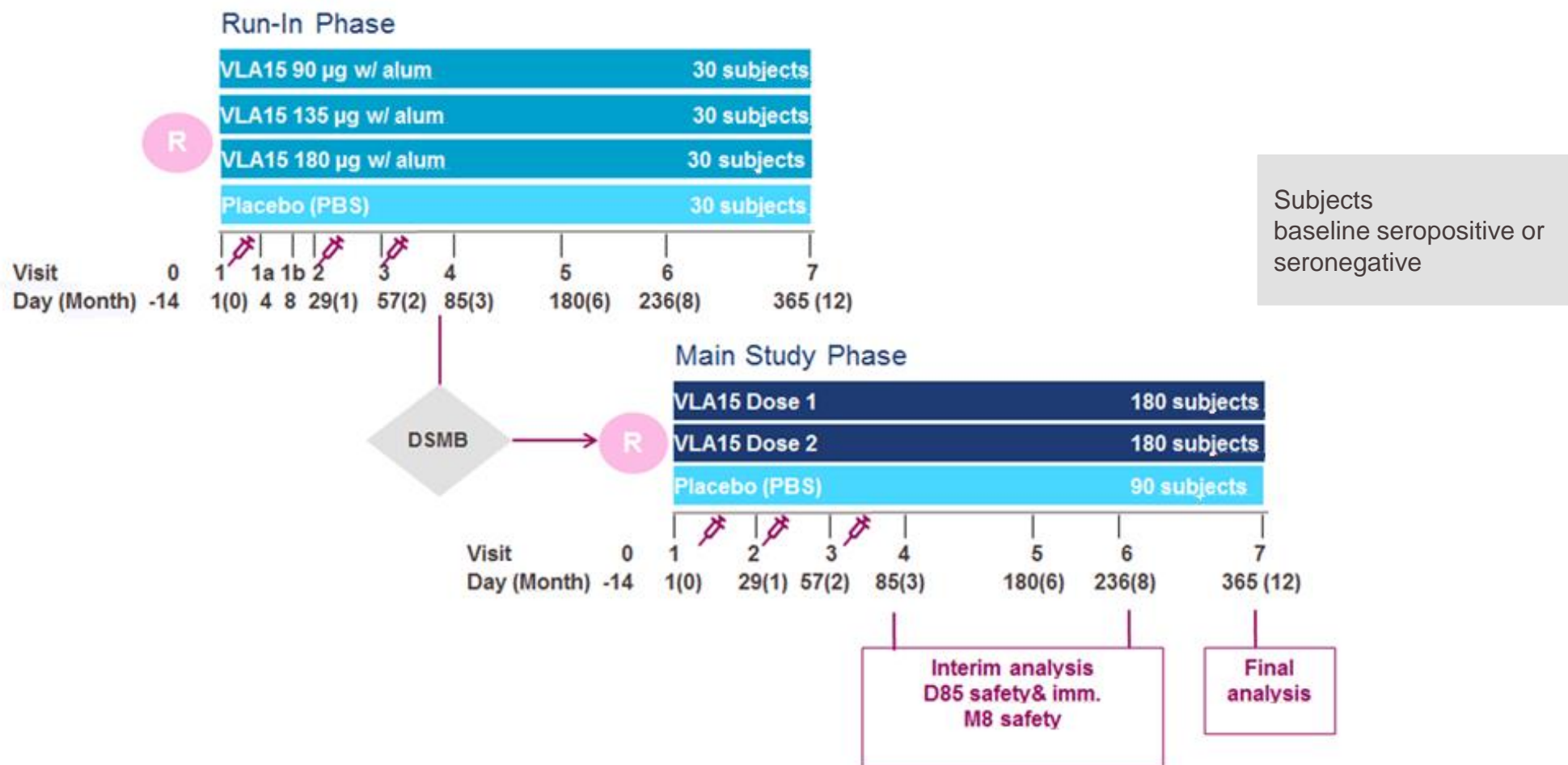


VLA15 (Lyme): Phase 2 study (VLA15-201)

Observer-blind, randomized, placebo-controlled, multicenter study

Phase 2 study conducted in US and EU

- Main Study Phase: 3 groups (2 adjuvanted dose levels and placebo)
- Run-in Phase: 120 healthy volunteers (18 to 40 years)
Main Study Phase: 470 healthy volunteers (18 to 65 years)
- Primary objective: Immunogenicity data at Month 3
- Secondary objectives: Immunogenicity and safety data until M12





Lyme (VLA15) – Development

Key milestones

Current Development Assumptions		
Phase 2 initiation (VLA15-201)	end 2018	✓
Phase 1 final data (D365) and initial Booster data	Q1 / 2019	✓
Run-in Phase (Phase 2) completed	mid 2019	
Second Phase 2 initiation (VLA15-202)	mid 2019	
Phase 2 data (primary)	mid 2020	
Phase 3 initiation	Q4 / 2021	
Phase 3 data*	Q4 / 2022	
1 st possible BLA submission*	Q4 / 2023	
1 st possible licensure*	Q3 / 2024	

*If pivotal field efficacy trial sufficient over one tick season – otherwise +1 year / rolling submission under Fast Track



VLA15: Outlook

Striving towards first BLA submission in 2023¹

Phase 3 – Current Hypothesis²

Pivotal, double-blind, placebo controlled field efficacy study in endemic countries

Key objective:

- › Efficacy against Lyme disease (all serotypes) with vaccine at final dose and schedule
- › Adults (18-70 yrs)
Possible inclusion of younger age group (12-17)

Likely ~ 16,000 subjects

- › US and Europe, possibly also Canada
- › Study sites in high-risk, endemic areas
- › Two tick seasons with interim results submitted after the first tick season
 - Subject to data, possible BLA submission based on one season

Pediatric studies (Ph2/Ph3) largely in parallel

¹ Assumes licensure with data from one tick season; ² Based on company assumptions and estimates. No detailed discussions with regulatory authorities have yet taken place.



VLA1553: A differentiated Chikungunya vaccine candidate

Potential single-shot vaccine against a severe, growing threat

Chikungunya

- + Mosquito-borne viral disease caused by the Chikungunya virus (CHIKV), a Togaviridae virus
- + Transmitted by *Aedes* mosquitoes
- + Causes clinical cases in 72-92% of infected humans who can develop serious, long-term health impairments¹
- + Outbreaks in Asia, Africa, Europe & the Americas (as of Feb. 2017, > 1 million reported cases in the Americas)²
- + No preventive vaccines or effective treatments exist

Valneva's vaccine candidate

- + Monovalent, single dose, live attenuated prophylactic vaccine³
- + Aims for long-lasting protection of individuals > 1 year of age
- + Protective against various CHIKV outbreak phylogroups & strains⁴
- + FDA Fast Track Designation



Positive Phase 1 interim data

- + Positive Phase 1 interim results showed excellent immunogenicity with acceptable safety profile⁵
- + Long term protection shown in preclinical testing
Data from non-human primates (NHP) show vaccine's good safety profile and its potential to provide long-term protection after a single immunization⁶

Phase 1 progression on track to conclude early 2020

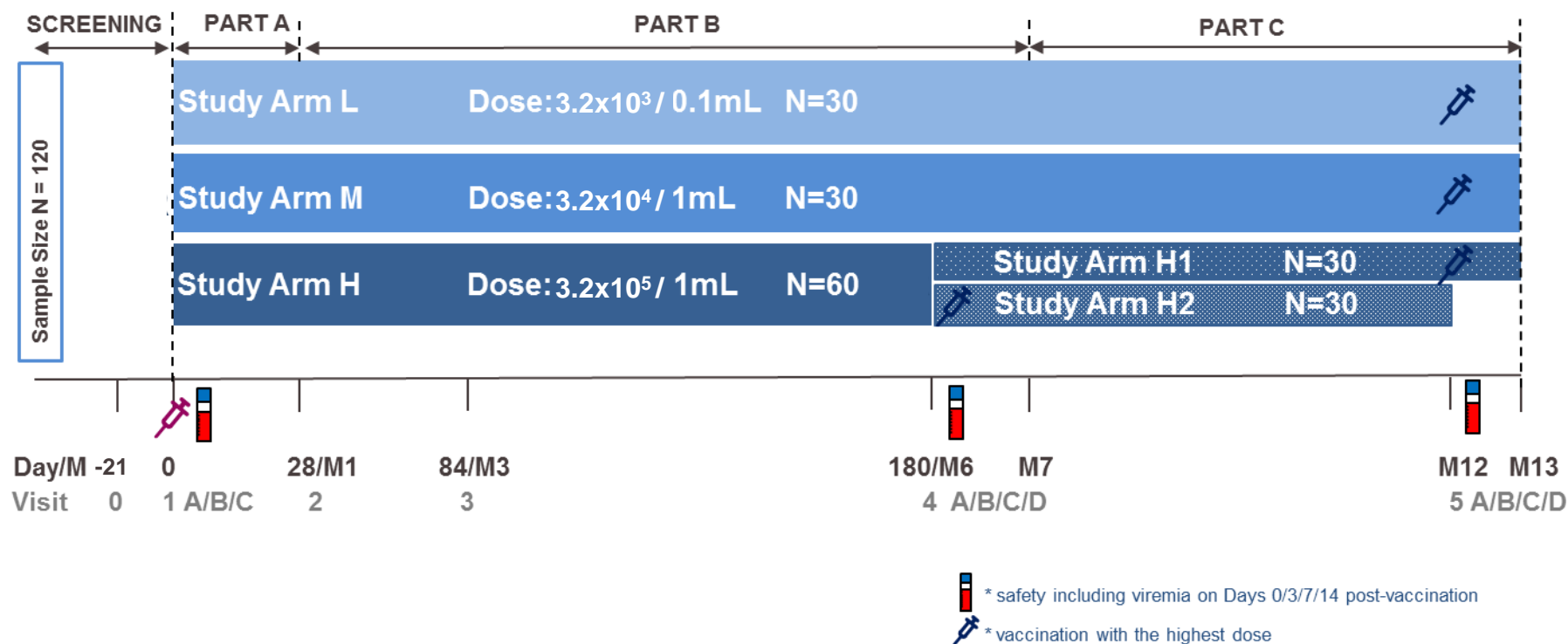
- + Group of study participants being re-vaccinated with highest vaccine dose to provide early intrinsic human challenge
- + Chikungunya now eligible for FDA Priority Review Voucher (PRV)⁷
- + Target populations include travelers, military personnel and individuals at risk living in endemic regions

¹ PAHO/WHO data: Number of reported cases of Chikungunya Fever in the Americas - EW 33 (August 19, 2016) <https://www.paho.org/hq/dmdocuments/2016/2016-aug-19-cha-chikv-cases-ew-33.pdf> ; ² PAHO/WHO data: Number of reported cases of Chikungunya Fever in the Americas - EW 5 (February 3, 2017) <https://www.paho.org/hq/dmdocuments/2017/2017-feb-3-phe-CHIKV-cases-ew-5.pdf> ; ³ CHIKV LR2006-OPY1 infectious clone was attenuated by deleting large part of gene coding nsP3 (alphavirus-replicase; ⁴ Hallengård et al. 2013. J Virology 88:2858–2866; ⁵ Pooled analysis of all study groups since study continues with additional vaccination to potentially obtain a first indication for efficacy ⁶ Roques et al. 2017JCI Insight 2 (6): e83527; ⁷ As of August 23, 2018 <https://www.fda.gov/NewsEvents/Newsroom/FDAInBrief/ucm618097.htm>

VLA1553: Chikungunya vaccine candidate, Phase 1 study design



Blinded, randomized, dose-escalation study



Vaccination Schedule

- + Single-dose vaccination (Day 0)
- + Re-vaccination with highest dose (Month 6 and 12)
 - (1) to show that single-shot is sufficient to induce high titer neutralizing antibodies;
 - (2) to serve as indirect human viral challenge demonstrating that subjects are protected from viremia and thereby indicating early VE



Chikungunya Phase 1 study (VLA1553-101) Interim Results

Excellent immunogenicity with acceptable safety profile¹

Immunogenicity

- 100% Seroconversion Rate (SCR)² at day 28 after single dose¹
- 96.5% of subjects achieving ≥ 16 fold rise in antibody titres²
- High Geometric Mean Titre (GMT) in pooled analysis

Excellent immunogenicity profile after single vaccination

Safety

- No Serious Adverse Events (SAEs) up to day 28¹
- No Adverse Events of Special Interest (AESIs) up to day 28¹
- Local tolerability excellent
- Systemic adverse events included short-term fever, headache and fatigue
- Transient cases of reduced levels of neutrophils, lymphocytes or leucocytes w/o clinical symptoms³

Safety profile acceptable and supporting further development

¹ Pooled analysis across all study groups since study continues with additional vaccination to potentially obtain a first indication for efficacy; ² SCR defined as proportion of subjects achieving a CHIKV specific neutralizing antibody titre as NT50 ≥ 20 ; ³ As for other live-attenuated vaccines

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Financial Outlook

Continued double-digit sales growth and positive EBITDA, higher R&D investment driven by clinical development progression

	2018 (unaudited)	2019
Product sales revenues	€103.5m	€115m - €125m
Total revenues	€113.0m	€125m - €135m
R&D investments	€25.3m	€35m - €40m
Gross margin	60.7%	> 60%
Net operating margin ¹	27.9%	25% - 35%
EBITDA	€13.1m	€5m - €10m

CER: at constant exchange rates, ¹ Net operating margin prior to R&D investment is calculated by excluding R&D expenses from the operating profit as recorded in the consolidated income statement under IFRS divided by total revenues



An exciting year ahead – Further double-digit product sales growth and significant R&D progress expected in 2019

15-20% CER product sales growth expected in 2019

Major confirmatory and supportive data points for the Lyme vaccine candidate (VLA15)

Development acceleration of chikungunya vaccine candidate (VLA1553)

Potential partnering and business development opportunities

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Thank you
Merci
Danke
Tack

