# Sunday – CIV-177

# Efficacy of Lefamulin (LEF) Versus Moxifloxacin (MOX) by Pathogen in Adults With Community-Acquired Bacterial Pneumonia (CABP): Pooled Results From the LEAP 1 and LEAP 2 Phase 3 Clinical Trials

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# INTRODUCTION

- and is among the leading causes of infection-related death in the United Stat
- Increasing rates of bacterial resistance<sup>2</sup> and safety issues associated with fluoroquinolones have created a need for new treatment options<sup>3,</sup>
- Lefamulin (LEF). a first-in-class pleuromutilin for intravenous (IV) and oral use in humans, inhibits protein synthesis by binding to the central part of the peptidyl transferase center of the 50S ribosomal subunit by forming 4 hydrogen bonds and other interactions that prevent the correct tRNA positioning in the A- and P-sites<sup>5</sup>
- LEF has potent in vitro activity against Streptococcus pneumoniae, Haemophilus influenzae, Moraxella catarrhalis, and Staphylococcus aureus, as well as the atypical pathogens Mycoplasma pneumoniae, Chlamydophila pneumoniae, and Legionella pneumophila; LEF activity is unaffected in vitro by an organism's resistance to other major antibiotic classes<sup>6-10</sup> • LEF has predictable pharmacokinetics after oral and IV administration, with rapid plasma absorption<sup>11</sup> and comparable
- penetration in the epithelial lining fluid of the lung in both fed and fasted states<sup>12</sup>
- The favorable pharmacokinetics and spectrum of activity of LEF led to its investigation in 2 phase 3 trials in adults with CABP - The Lefamulin Evaluation Against Pneumonia (LEAP) 1 study evaluated the efficacy and safety of LEF as monotherapy, with an IV-to-oral switch option, compared with moxifloxacin (MOX) (± linezolid)<sup>13</sup>
- The LEAP 2 study evaluated the efficacy and safety of oral LEF monotherapy compared with oral MOX monotherapy<sup>14</sup> • We report efficacy outcomes by baseline pathogen in pooled LEAP 1 and LEAP 2 analyses

# METHODS

### Study Design

- Both studies were prospective, randomized, double-blind, double-dummy, phase 3 trials<sup>13,14</sup>
- Patients in LEAP 1 and LEAP 2 were enrolled at 66 centers (18 countries) and 99 centers (19 countries), respectively (Figure 1) - In LEAP 1, patients were randomized to receive LEF 150 mg IV every 12 hours (q12h) for 5–7 days or MOX 400 mg IV every 24 hours (q24h) for 7 days
- Patients could switch to oral therapy (LEF 600 mg q12h or MOX 400 mg q24h) after 6 IV doses of study drug (~3 days) if predefined improvement criteria were met
- In LEAP 2, patients were randomized to receive oral LEF 600 mg g12h for 5 days or oral MOX 400 mg g24h for 7 days Figure 1. LEAP 1 and LEAP 2 Study Design



CABP=community-acquired bacterial pneumonia; CE=clinically evaluable (patients who met predefined specified criteria related to protocol adherence); ECR=early clinical response (patient assessed as responder if alive, showed improvement in ≥2 CABP signs and symptoms, no worsening in any CABP sign or symptom, and no receipt of a concomitant nonstudy antibiotic for the current CABP episode); IACR=investigator assessment of clinical response (patients assessed as success if alive, with signs and symptoms of CABP resolved or improved such that no additional antibacterial therapy was administered for CABP); ITT=intent to treat (all randomized patients); IV=intravenous; mITT= modified ITT (all randomized patients who received >1 dose of study drug); TOC=test-of-cure visit. \*In LEAP 1, if methicillin-resistant Staphylococcus aureus (MRSA) was suspected, linezolid or placebo was added to moxifloxacin or lefamulin therapy, respectively; if MRSA was confirmed, treatment duration was 10 days. A total of 14/275 (5.1%) MOX patients and 9/276 (3.3%) LEF patients received linezolid and linezolid placebo, respectively, because of suspected MRSA at baseline. The original protocol indicated a 5-day lefamulin treatment period but was later adjusted to 7 days to reduce medication errors and limit the burden on study sites.

### Patients and Assessments

- Adults with CABP of Pneumonia Outcomes Research Team (PORT) risk class ≥III or II–IV were eligible for LEAP 1 and LEAP 2, respectively
- In both studies, the primary efficacy endpoint for the US Food and Drug Administration (FDA) was early clinical response (ECR) at 96±24 hours after first dose of study drug in the intent-to-treat (ITT) population
- The European Medicines Agency coprimary endpoints (FDA secondary endpoints) were investigator assessment of clinical response (IACR) at the test-of-cure (TOC) assessment 5–10 days after the last dose of study drug in the modified ITT and clinically evaluable populations
- In both studies, baseline pathogens were identified from specimens collected within 24 hours of the first dose of study drug - The microbiological intent-to-treat (microITT) population included all patients with a baseline CABP pathogen detected by ≥1 method (Table 1)

The microITT-2 population included patients with a CABP pathogen detected by a method other than real-time polymerase chain reaction (PCR)

Confirmatory identification and susceptibility testing of isolates, Gram staining of sputum, resistance gene determination, S. pneumoniae and H. influenzae serotyping, serology ( $\geq$ 4-fold increase in L. pneumophila antibody titer or M. pneumoniae or C. pneumoniae IgG serum antibody titer), and real-time PCR were performed by a central laboratory and by specialized laboratories (see Acknowledgments)

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	microIT	T and microITT-2 Po	microITT Population only				
Pathogen	Gram Stain and Culture*	Urinary Antigen Testing	Serological Testing	RQ- and RT-PCR from Sputum	RQ-PCR from NP Swab or OP Swab		
Streptococcus pneumoniae	X <sup>†</sup>	Х		Х	Xt		
Staphylococcus aureus	Х			Х			
Haemophilus influenzae	Х			Х			
Moraxella catarrhalis	Х			Х			
Mycoplasma pneumoniae	X‡		Х	X§	X‡		
Legionella oneumophila	XII	Х	Х	X§			
Chlamydophila oneumoniae	X		Х	X§			

and culture were done in parallel.

## RESULTS

Pseudomonas aeruginosa (*n*=8; 0.8%)

Haemophilus parainfluenzae (*n*=13; 1.3%)

(*n*=26; 2.6%)

Staphylococcus aureus (*n*=33; 3.3%)

Chlamydophila pneumoniae 🗸 (*n*=58; 5.7%)

> Legionella pneumophila -(*n*=65; 6.4%)

> > (*n*=68; 6.7%)

<sup>†</sup>Includes Streptococcus pyogenes and S. agalactiae. mirabilis, and Serratia marcesens.

# METHODS (continued)

Table 1. Diagnostic Modalities Used for the Identification of Baseline Pathogens

Specimens included blood and sputum; bronchoalveolar lavage and/or pleural fluid were cultured only if clinically indicated. Inclusion as a baseline pathogen for sputum samples also required a Gram stain with >25 polymorphonuclear cells per low power field and <10 squamous epithelial cells per low power field

<sup>†</sup>Culture for *S. pneumoniae* was also performed on NP samples. RQ-PCR for *S. pneumoniae* was done on sputum samples and on NP swabs. \*RT-PCR was done on OP samples. If RT-PCR was positive. OP samples were used for isolation of *M. pneumoniae* and for subsequent susceptibility testing; on some occasions, RT-PCR <sup>§</sup>RT-PCR was performed for detection of *M. pneumoniae*. *L. pneumophila*. and *C. pneumoniae* 

Inclusion of *L. pneumophila* as a baseline pathogen did not require an appropriate morphology in the Gram stain <sup>¶</sup>Culture of *C. pneumoniae* by the local laboratories was allowed per protocol, but it was not cultured by any of the laboratories.

### Figure 2. Baseline Pathogen Distribution (Pooled microITT Population [Combined Treatment Groups]; N=1012 Pathogens Identified\*)



microITT=microbiological intent to treat; n=the number of patients with the respective baseline pathogen.

\*A patient could have had >1 pathogen identified. Multiple isolates of the same species from the same patient were counted only once for each phenotype and once for the overall tabulation of the genus and species. Phenotypes were only determined for pathogens identified from cultures and with susceptibility testing results.

<sup>‡</sup>Includes Aeromonas caviae complex, Citrobacter freundii complex, C. koseri, Enterobacter aerogenes, E. cloacae, Escherichia coli, Klebsiella oxytoca, K. pneumoniae, K. variicola, Proteus <sup>§</sup>Includes Achromobacter xylosoxidans, Acinetobacter calcoaceticus, A. calcoaceticus/A. baumannii complex, A. junii, A. lwoffii, Acinetobacter sp., A. ursingii, Burkholderia cepacia, Pasteurella pneumotropica, Pseudomonas luteola, and Stenotrophomonas maltophilia.

# **RESULTS (continued)**

### **Patients and Baseline Characteristics**

- 709 patients randomized to LEF (n=364) or MOX (n=345) were included in the pooled microITT population
- The most commonly identified baseline pathogens are shown in **Figure 2**
- 31.6% MOX)
- LEF and MOX showed similar in vitro activity against the most commonly isolated CABP pathogens, including drug-resistant isolates (Table 2)
- rates at TOC

### Table 2. Minimum Inhibitory Concentrations for Key Pathogens (Pooled microITT Population [Combined Treatment Groups])

		MIC <sub>50/90</sub> , μg/mL <sup>+</sup>						
Pathogen*	n	Lefamulin	Moxifloxacin					
Gram-positive bacteria								
Streptococcus pneumoniae	130	0.25/0.5	0.12/0.25					
Penicillin resistant	14	0.25/0.25	0.12/0.25					
Macrolide resistant <sup>‡</sup>	31	0.25/0.25	0.12/0.25					
Multidrug resistant§	32	0.25/0.25	0.12/0.25					
Staphylococcus aureus	24	0.12/0.25	0.06/0.5					
Methicillin susceptible	21	0.12/0.25	0.06/0.06					
Methicillin resistant	3	NA (0.12–0.12)	NA (0.06–>2)					
Gram-negative bacteria								
Haemophilus influenzae	35 <sup>  </sup>	1/2	0.03/0.06					
Moraxella catarrhalis	7	NA (0.06–0.25)	NA (0.03–0.06)					
Atypical pathogens								
Mycoplasma pneumoniae	17	≤0.001/≤0.001	0.12/0.25					
Legionella pneumophila	2	NA (0.5–1)	NA (0.03–0.03)					

MIC=minimum inhibitory concentration; MIC<sub>ro</sub>=minimum inhibitory concentration required to inh isolates; microITT=microbiological intent to treat; NA=not applicable because of small sample s \*Pathogens were isolated from sputum, nasopharyngeal swab, oropharyngeal swab, blood, bro Multiple isolates of the same species and phenotype from the same patient were counted only <sup>+</sup>MIC<sub>co</sub> and MIC<sub>co</sub> values are reported for pathogens with  $\geq$ 10 isolates in the relevant group. For Susceptibilities based on Clinical and Laboratory Standards Institute breakpoints. <sup>‡</sup>Defined as resistant to azithromycin or erythromycin

<sup>§</sup>Defined as resistant to  $\geq 2$  of the following: oral penicillin, moxifloxacin, ceftriaxone, clindamycin, azithromycin or erythromycin, doxycycline, or trimethoprim/sulfamethoxazole. <sup>II</sup>36 isolates were tested against moxifloxacin.

## Efficacy

- In the pooled microITT population, ECR rates were 89.3% with LEF and 93.0% with MOX (difference, -3.7%; (difference, -3.3%; 95% CI, -8.6% to 2.0%)
- In the pooled microITT-2 population, ECR rates were 90.0% with LEF and 92.8% with MOX (difference, -3.1%; 95% CI, -8.7% to 2.6%) and IACR success rates at TOC were 83.3% with LEF and 87.7% with MOX (difference, -4.6%; 95% CI, -11.5% to 2.3%)
- In both the microITT and microITT-2 populations, LEF and MOX demonstrated similar ECR responder and IACR success

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• Polymicrobial infections were identified in about one third of patients in the pooled microITT population (34.6% LEF,

- Increasing LEF minimum inhibitory concentration (MIC) did not result in lower ECR response or lower IACR success

hibit 50% of isolates; MIC <sub>90</sub> =minimum inhibitory concentration required to inhibit 90% of
IZE.
onchoalveolar lavage, and/or pleural fluid via culture. A patient could have had >1 pathogen.
pathogen groups with <10 isolates, the range of MIC values is provided in parentheses.

95% confidence interval [CI], –7.9% to 0.5%) and IACR success rates at TOC were 83.2% with LEF and 86.7% with MOX

rates across all baseline CABP pathogens, including drug-resistant isolates (Table 3) and polymicrobial infections (Table 4)

-24,	San	Francisco,	CA,	USA

	FCR IACR at TOC																			
	EGR				IACR at TOC				1 - 6-				1							
	Lefamulin Moxifloxacin					Baseline pathogen,	Leta microITT	mulin microITT-2												
Baseline			Moxifloxacin		Lefamulin		Moxifloxacin		Polymicrobial infections	90.5 (114/126)	82.9 (34/41)	2 microl I I 94.5 (103/109)	90.0 (27/30)	87.3 (110/126)	80.5 (33/41)	86.2 (94/109)	93.3 (28/30)			
athogen, % ( <i>n</i> / <b>N</b> )*	microITT	microITT-2	microITT	microITT-2	microITT	microITT-2	microITT	microITT-2	<i>Streptococcus pneumoniae</i> and <i>Haemophilus</i> <i>influenzae</i>	96.8 (30/31)	(2/2)	92.3 (36/39)	(3/4)	96.8 (30/31)	(2/2)	82.1 (32/39)	_ (4/4)			
Gram-positive bacte	ria								Streptococcus pneumoniae and atypical pathogen <sup>†</sup>	92.9 (13/14)	_ (5/5)	100 (17/17)	_ (6/6)	85.7 (12/14)	_ (3/5)	94.1 (16/17)	_ (6/6)			
Streptococcus pneumoniae	88.9 (192/216)	86.2 (75/87)	92.4 (206/223)	92.0 (92/100)	85.2 (184/216)	80.5 (70/87)	86.5 (193/223)	91.0 (91/100)	<i>Streptococcus pneumoniae</i> and <i>Moraxella</i> <i>catarrhalis</i>	_ (8/8)	0	_ (4/4)	 (1/1)	_ (6/8)	0	_ (4/4)	 (1/1)			
Penicillin resistant <sup>+</sup>	_ (7/7)	_ (7/7)	_ (6/7)	_ (6/7)	_ (7/7)	_ (7/7)	_ (4/7)	_ (4/7)	<i>Streptococcus pneumoniae</i> and <i>Staphylococcus</i> <i>aureus</i>	_ (5/5)	(3/3)	_ (2/2)	0	_ (3/5)	_ (2/3)	_ (1/2)	0			
Macrolide	92.9	92.9	82.4	82.4	92.9	92.9	82.4	82.4	Any ≥3 pathogens	87.9 (29/33)	_ (3/4)	91.7 (22/24)	_ (5/6)	90.9 (30/33)	_ (4/4)	83.3 (20/24)	_ (5/6)			
resistant <sup>‡</sup>	(13/14)	(13/14)	(14/17)	(14/17)	(13/14)	(13/14)	(14/17)	(14/17)	ECR=early clinical response; IAC *microITT (lefamulin, <i>n</i> =364, mox Percentages are reported for pa <sup>†</sup> Atypical pathogens are defined	ACR=investigator assessment of clinical response; microITT=microbiological intent to treat; TOC=test-of-cure visit. noxifloxacin, $n=345$ ); microITT-2 (lefamulin, $n=209$ , moxifloxacin, $n=195$ ); $n/N=$ patients successfully treated/patients with a specific baseline pathogen. pathogens with $\geq 10$ isolates in the relevant group. ed as Legionella pneumophila, Chlamydophila pneumoniae, and Mycoplasma pneumoniae.										
Multidrug resistant <sup>§</sup>	100 (14/14)	100 (14/14)	83.3 (15/18)	83.3 (15/18)	100 (14/14)	100 (14/14)	83.3 (15/18)	83.3 (15/18)	CONCLUS	IONS										
Staphylococcus aureus	100 (23/23)	100 (19/19)	_ (10/10)	_ (6/6)	87.0 (20/23)	89.5 (17/19)	_ (9/10)	_ (5/6)	<ul> <li>In these 2 glo typical and at</li> </ul>	global phase 3 studies, LEF showed potent activity against the most common atypical CABP pathogens, including drug-resistant strains, irrespective of whether										
Methicillin susceptible	100 (16/16)	100 (16/16)	_ (5/5)	_ (5/5)	87.5 (14/16)	87.5 (14/16)	_ (5/5)	_ (5/5)	<ul> <li>pathogens we antigen test, a</li> <li>LEF demonst</li> </ul>	re identified using classical detection methodologies (including culture, urinary nd serology) with or without real-time PCR ated high and similar ECR and IACR success rates to a respiratory										
Methicillin resistant	_ (2/2)	_ (2/2)	_ (1/1)	_ (1/1)	_ (2/2)	_ (2/2)	_ (0/1)	_ (0/1)	fluoroquinolor risk class II–V identification of Those results	e, without the associated class safety concerns, in patients with CABP (PORT), regardless of baseline CABP pathogen, presence of a drug-resistant strain, or f a polymicrobial infection										
Gram-negative bact	eria								empiric and d	irected CA	BP treatme	ent in adults	S aluable in		Ποποιτισταμ	y option for	I			
Haemophilus influenzae	90.7 (97/107)	91.3 (21/23)	93.3 (98/105)	88.9 (16/18)	88.8 (95/107)	87.0 (20/23)	83.8 (88/105)	94.4 (17/18)	(1) Xu J, et al. Deaths: final	CES data for 2016.	US Department	of Health and	(8) Paukner	S, et al. <i>Antimi</i>	crob Agents Che	<i>mother</i> . 2019;63	(4):e02161-18.			
Moraxella catarrhalis	89.1 (41/46)	_ (3/4)	100 (22/22)	_ (3/3)	80.4 (37/46)	_ (3/4)	100 (22/22)	(3/3)	Human Services, Nation https://www.cdc.gov/ nchs/data/nvsr/nvsr67/nv (2) Peyrani P, et al. <i>Expert I</i> (3) US Food and Drug Adm	<ul> <li>nal Center for Health Statistics. Available at:</li> <li>(9) Paukner S, et al. Lefamulin activity against bacterial pathogens</li> <li>commonly associated with acute bacterial skin and skin structure</li> <li>infections (ABSSSI) collected in the 2017 global SENTRY surveillan</li> <li>program. Poster AAR-785. Presented at: ASM Microbe June 20-24,</li> <li>2019; San Francisco, CA.</li> </ul>										
Haemophilus parainfluenzae	_ (9/9)	_ (9/9)	_ (4/4)	_ (4/4)	_ (9/9)	_ (9/9)	_ (4/4)	_ (4/4)	updates warnings for ora to disabling side effects. DrugSafety/ucm511530. (4) US Food and Drug Adm reinforces safety informa	<ul> <li>and injectable fluoroquinolone antibiotics due</li> <li>Available at: https://www.fda.gov/Drugs/</li> <li>htm. Accessed April 9, 2019.</li> <li>ninistration. FDA drug safety communication: FDA (11)</li> <li>mation about serious low blood sugar levels and</li> <li>(10) Paukner S, et al. Lefamulin activity against respiratory tract pathogens</li> <li>collected in the 2017 global SENTRY surveillance program. Poster AAF 786. Presented at: ASM Microbe, June 20-24, 2019; San Francisco, CA</li> <li>Wicha WW, et al. <i>J Antimicrob Chemother</i>. 2019;74(suppl 3):iii19-iii26.</li> <li>Thong L, et al. <i>J Antimicrob Chemother</i>. 2010;74(suppl 3):iii19-iii26.</li> </ul>										
Atypical pathogens									mental health side effec changes. Available at: h UCM612834.pdf. Acces (5) Eyal Z, et al. <i>Sci Rep</i> . 20	ts with fluoroqu ttps://www.fda.g sed April 9, 201 016;6:39004.	inolone antibiot gov/downloads/ 19.	ics; requires labe Drugs/DrugSafet	el (13) File TM ty/ (14) Alexando adults w Lefamuli	Jr, et al. <i>Clin Inf</i> er E, et al. Oral ith community-a n Evaluation Ac	<i>fect Dis</i> . 2019; do lefamulin is safe acquired bacteria painst Pneumonia	oi: 10.1093/cid/ciz and effective in I pneumonia (CA a (LEAP 2) study	2090. the treatment of ABP): results of 2. Abstract LB6.			
Mycoplasma pneumoniae	92.3 (36/39)	96.6 (28/29)	94.1 (32/34)	95.7 (22/23)	89.7 (35/39)	89.7 (26/29)	97.1 (33/34)	95.7 (22/23)	<ul> <li>(6) Mendes RE, et al. Antim</li> <li>(7) Waites KB, et al. Antimic</li> <li>Acknowledgme</li> <li>We thank the personnel of Comparison</li> </ul>	nicrob Agents C crob Agents Ch e <b>nts</b> ovance Central	Chemother. 2016 Demother. 2017;6 Laboratory Ser	;60(7):4407-4411 61(2):e02008-16. vices (Indianapo	1. Presente	ed at: IDWeek, ( gnostic Mycopla	October 3–7, 201 Isma Laboratory	8; San Francisco (Birmingham, Al	o, CA. L), Special			
Legionella pneumophila	85.3 (29/34)	84.4 (27/32)	90.3 (28/31)	90.3 (28/31)	79.4 (27/34)	81.3 (26/32)	83.9 (26/31)	83.9 (26/31)	Pathogens Laboratory-The Le Accelero Bioanalytics (Berling <b>Disclosures</b>	egionella Exper , Germany) for	rts <sup>®</sup> (Pittsburgh, assistance in th	PA), Research L e performance o	Jnit on Respirator of confirmatory an	ry Pathogens at d specialized te	RSPH, Emory Lesting.	Jniversity (Atlant	a, GA), and			
Chlamydophila pneumoniae	92.6 (25/27)	90.9 (20/22)	96.8 (30/31)	95.8 (23/24)	74.1 (20/27)	77.3 (17/22)	74.2 (23/31)	75.0 (18/24)	Funding for development of the a CHC Group company. Elizate employees of and have stock the design and execution of t	his poster was p abeth Alexande t in Nabriva The he study and ha	provided by Nat r, Lisa Goldberg erapeutics plc. A as also served a	oriva Therapeutio , Susanne Pauki nita F. Das serve as a consultant fo	to C4 MedSolu ner, Jennifer Sch ed as a consultar or ContraFect, Te	itions, LLC (Yar ranz, and Steve nt for Nabriva Th traphase, Parat	dley, PA), en P. Gelone are herapeutics durir ek, Cempra,	ng				

and once for the overall tabulation of the genus and species. Phenotypes were only determined for pathogens identified from cultures and with susceptibility testing results. Using Clinical and Laboratory Standards Institute breakpoints

<sup>‡</sup>Defined as resistant to azithromycin or erythromycin. <sup>§</sup>Defined as resistant to  $\geq 2$  of the following: oral penicillin, moxifloxacin, ceftriaxone, clindamycin, azithromycin or erythromycin, doxycycline, or trimethoprim/sulfamethoxazole ne: 860-235-5

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