UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): December 7, 2021

RELMADA THERAPEUTICS, INC. (Exact name of registrant as specified in its charter)

	Nevada	001-39082	45-5401931
	(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)
	2222 Ponce de Leon Blvd, Floor 3	3	
	Coral Gables, FL		33134
	(Address of principal executive office	es)	(Zip Code)
	Registra	ant's telephone number, including area code (786) 629-1376	
	(Fc	N/A ormer name or former address, if changed since last report)	
	opriate box below if the Form 8-K filing is in ion A.2. below):	tended to simultaneously satisfy the filing obligation of the	registrant under any of the following provisions (see
□ Written cor	nmunications pursuant to Rule 425 under the	Securities Act (17 CFR 230.425)	
☐ Soliciting n	naterial pursuant to Rule 14a-12 under the Exc	change Act (17 CFR 240.14a-12)	
☐ Pre-comme	ncement communications pursuant to Rule 14	d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))	
☐ Pre-comme	ncement communications pursuant to Rule 13	e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))	
Securities regis	tered pursuant to Section 12(b) of the Act:		
	Title of each class	Trading Symbol	Name of exchange on which registered
Commo	n stock, \$0.001 par value per share	RLMD	The NASDAQ Stock Market LLC
	ck mark whether the registrant is an emerging achange Act of 1934 (§240.12b-2 of this chap	growth company as defined in Rule 405 of the Securities Act ter).	. ,
			Emerging growth company \square
	growth company, indicate by check mark if the dards provided pursuant to Section 13(a) of the	be registrant has elected not to use the extended transition per e Exchange Act. \Box	iod for complying with any new or revised financial
			_
Item 8.01 Othe	r Events.		
		npany") made a poster presentation at the American College tential (HAP) study of REL-1017 (esmethadone).	of Neuropsychopharmacology (ACNP) 60th annual
A copy of the po	oster presentation is filed herewith as Exhibit 9	99.1 and is incorporated herein by reference.	
Item 9.01. Fina	ncial Statements and Exhibits.		
(d) Exhibits			
Exhibit No.	Description		
99.1 104	Relmada Therapeutics, Inc. Poster Presentat Cover Page Interactive Data File (formatted		

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: December 7, 2021

RELMADA THERAPEUTICS, INC.

By: /s/ Sergio Traversa
Name: Sergio Traversa
Title: Chief Executive Officer

No Meaningful Opioid Abuse Liability of REL-1017 (esmethadone; d-methadone), a Rapid-Acting Antidepressant in Clinical Development: A Human Abuse Potential Study

- RSIL-1017 (correcthadone; d-methadone) is a safe and well tolerated novel uncompetitive MMDAR channel blocker with a preference for pathelogically hyperactive district MMDAR channels I.
- BEL-1007 retains potential neuropholicity and therapeutic effects without dissociative effects without dissociative effects without and does not course potentially neurotoxic Objects brain lesions 5, unlike higher potency NHDAR blockers.
- Proclinical data performed with well-established experimental models, inclicated that RCL-1017 did not show any appreciable evidence of abuse petential ¹⁹⁸⁸.
- Due to its close chemical similarity to the optoid-active isomer, i-methodone, we further evaluated REL-1017 with a human abuse potential (HAP) study.

OBJECTIVES

- Soutly Design:

 Single-date, rendomised, double-blind, (bubble-dummy, active- and placebo-controlled, 5-way conscious HAP study of RRL-1017 in experienced recreational stug-users.
- Each subject received the following onal treatments with 2-TD skys of washout between treatments: EEL/ADT 35 mg (thereboute delay despt, REL/ADT 75 mg (blooking close), City Codone 40 mg (standard act the control), and placeton.

- The primary endpoint of the study was the maximum effect $(\xi_{n,k})$ for Drug Liking (for this moment), assessed with a bipolar (0 to 48 = diction; 50 = sector; 51-00 = sket) visual arrange
- Key secondary endpoints were "Overall Orup Liking" and for "Take Drug Again", conceed with a bipolar (0 to 40 = distinct 50 = neutral; 50-100 = like; VML."

Data Anaborist Charles for the primary and/contra sees analyzed using a one-sided paired Studer's Loset of Experiment and Experiment (and the sees of the Studer's Loset of Colors were not seesed or Stop. That of other nerve sciences. The primary endpoint understand trades (Tobie 2), comparations were missed of an STOP. On comparation were missed of an STOP. On contract the sees of the STOP of the

- between (Exycodone 40 mg and each dose of RSL-1017 (sull hypothesis that the difference between Displaceles 40 mg and RSL-1017 was s O points), and

Basistical analyses were performed on "modified completers", defined as subjects completing all 5 treatments, and excluding subjects with similar Grap Listing E_m, soone 0.75 solids differenced ecrops all tody treatments or subjects with a E_m for all adopts and dis difference between E_m for all tody treatments or the subject with a E_m for placebox 40 and dis difference between E_m for all tody treatments.

No Meaningful Opioid Abuse Liability of REL-1017 (esmethadone; d-methadone)

RESULTS

ographic characteristics (Modified completers, N=44)

Demographics Ape, mean is (SD), years		Overall (Nix44) N (%)		
		36.6 (9.2)		
Gender				
	Male	26 (81.8%)		
	Persole	8 (82%)		
Race				
	Black / African American	25 (56.8%)		
	White	19 (43.2%)		
Otheldty				
	Hispanic or Latino	5 (1.4%)		
	Not Hispanic or Latino	39 (86.6%)		

Drug Liking (\mathbf{E}_{aa}) "at this moment" bipolar Visual Analog Scale (VAS): Primary endpoint

Drug Liking (K) "at this moment" (VAS)"	Maceloo NY44	HIL-1017 25 mg Hn44	75 mg N/44	88L-1017 150 mg N144	Oxycodon 40 mg N144
Mean (SD)	51.7 (4.3)	55 (8.7)	58.2 (5.0)	64.9 (16.7)	85 (75.4)
Median	50	50	50	58	29
Treatment vs Oxycodone 40mg, P-value	<0.001	<0.001	<0.001	<0.001	-
REL-1017 vs Plecebo, P-value *		<0.001	<0.001	0.082	

- The $E_{\rm min}$ for Oxycodone 40 mg was significantly greater than placebo, confirming study validity.
- Comparison of REL-1017 to placebo, using the FDA suggested equivalence analysis, indicated similarity to placebo at P<0.001 for REL-1017 25 mg and REL-1017 5 mg. REL-1017 130 mg showed P<0.082 for similarity to place

Overall Drug Liking bipolar Visual Analog Scale (VAS): Key secondary endocint

Overall Drug Liking VAS	Placebo N=44	REL-1017 25 mg H=44	REL-1017 78 reg Kw44	REL-1017 190 mg Nodel	Oxycodone 40 mg N=44
Moon (SD)	51.3 (10.9)	\$1.0 (7.0)	58.5 (19.5)	61.5 (18.8)	751 (23.1)
Median	50.0	50.0	50.0	10.5	73.5
Treatment vs Oxycodone 40mg, P-value	+0.001	40.00i	<0.001	+0.002	-
REL-1017 vs Placebo, P-yelus	-	0.793	>0.999	0.029	-

Table 4. Take Drug Again bipolar Visual Analog Scale (VAS): Key recondary endpoint

Take Drug Again YAS	Placebo N764	8611017 25 mg N144	REL-1017 75 mg N744	REL-1017 190 mg N144	Oxycodone 40 mg N744
Moon (SD)	49.7 (6.7)	\$11 (16.3)	57.7 (23.8)	61.3 (25.4)	77.1 (25.9)
Median	50.0	90.0	50.0	50.0	86.0
Treatment vs Oxycodone riting, Pryelus	40.001	+0.001	40.001	0.002	-
REL-1017 vs Plecebo, P-value	-	0.664	0.230	0.004	-

CONCLUSIONS

- Low-level liking, commonly seen in HAP studies at high doses of the test substance, is consistent with unscheduled substances and with controlled substances in U.S. DEA Schedule V or N°.
- This study showed no meaningful opioid abuse potential for REL-1017. This HAP study design is considered the most predictive for determining opioid abuse potential.

REFERENCES

DISCLOSURES



