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ExecutiveASPIRE-1AbbreviationsSummaryand ASPIRE-2and References

Background

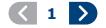
- ESK has been evaluated in two subpopulations of MDD in adults in clinical trials 1) for patients with treatment-resistant depression and 2) for the rapid reduction of depressive symptoms in patients (<65 years of age) with MDD and active suicidal ideation and intent. ESK was granted a breakthrough therapy designation from the FDA in August 2016 for this clinical program.
- On October 2, 2019, Janssen filed an sNDA to the US FDA for a second indication. Please see the full press release.
- ESK nasal spray has not been proven to be effective in preventing suicide or in reducing suicidal ideation or behavior.
- For information on ongoing clinical trials for ESK nasal spray, please access the following link on www.clinicaltrials.gov: http://jan4.me/17RroVK.

Phase 3 Studies in Adults: ASPIRE-1 and ASPIRE-2

- Two double-blind, randomized, PBO-controlled studies (ASPIRE-1 [NCT03039192] and ASPIRE-2 [NCT03097133]) evaluated the efficacy and safety of ESK in addition to comprehensive SOC for the rapid reduction of depressive symptoms in those who have MDD and active suicidal ideation with intent.¹⁻⁴
 - Primary endpoint: Both studies found that ESK+SOC statistically significantly improved depressive symptoms based on the MADRS total score at 24 hours post first dose compared with PBO+SOC (ASPIRE-1 study: LSMD, -3.8; ASPIRE-2 study: LSMD, -3.9; P=0.006 in both studies).
 - A pooled analysis of the two studies showed a LS mean change in MADRS total score of -16 vs -12.1 (LSMD: -3.8; 95% CI: -5.75, -1.89) for the ESK+SOC vs PBO+SOC groups.⁵
 - The most common TEAEs (≥20% in any arm) were dizziness, dissociation, and nausea in ASPIRE-1 and dizziness, dissociation, nausea, dysgeusia, somnolence, headache, and paresthesia in ASPIRE-2.
- A post hoc analysis of North American patients (n=122) in ASPIRE-1 and ASPIRE-2 revealed that, at baseline, these patients tended to be younger, had a longer duration of the current episode, a greater number of depressive episodes, and reported more frequent and severe suicidal thoughts than patients enrolled in the trials in the rest of the world (n=328).
 - Patients in the ESK+SOC arm showed a statistically significant improvement in the MADRS total score at 24 hours post first dose compared with patients in the PBO+SOC arm (-21.3 vs -14.8; LSMD: -6.6; 95% CI: -10.6, -2.7). TEAEs were consistent with the overall clinical trials.

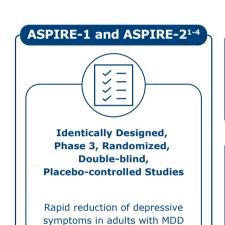
Phase 2 Study in Adolescents

 A double-blind, randomized, double-dummy, psychoactive PBO-controlled study is currently ongoing in adolescents to assess the efficacy of ESK versus oral midazolam in rapidly reducing depressive symptoms in adolescents with MDD who have active suicidal ideation with intent (NCT03185819).^{7,8}



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Executiv Summar		ASPIRE-1 and ASPIRE-2			oreviations References	
Overview	Study Design and Endpoints	Baseline Characteristics	Effica Resul	,	Safety Results	



with active suicidal ideation

and intent

Inclusion Criteria^{3,4}

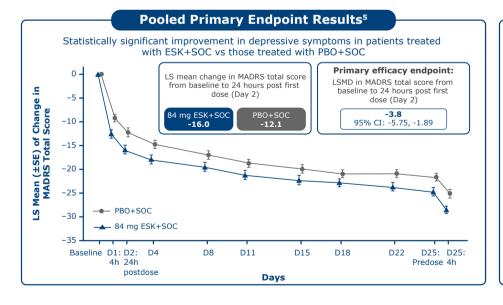
- Age 18-64 years
- DSM-5 diagnosis of MDD
- Suicidal ideation with intent
- MADRS total score of >28 on day 1, predose
- Require acute psychiatric hospitalization due to imminent risk of suicide

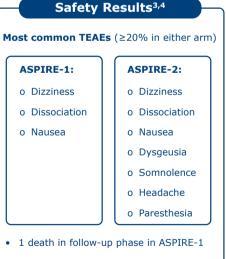
Exclusion Criteria^{3,4}

- Current DSM-5 diagnosis of bipolar (or related) disorder, OCD, antisocial personality disorder, or borderline personality disorder
- Current or prior DSM-5 diagnosis of a psychotic disorder or MDD with psychosis
- History of moderate or severe substance or alcohol use within 6 months before screening
- SBP >140 mm Hg or DBP >90 mm Hg
- Positive urine test result(s) for phencyclidine, cocaine, or amphetamines

Study Design1-4 84 mg ESK+SOC Adults with MDD who (n=112) have active suicidal ideation with intent **ASPIRE-1** N = 224(n=112) 84 mg ESK+SOC Adults with MDD who (n=114) have active suicidal ideation with intent **ASPIRE-2** PBO+SOC N = 227(n=113)

SOC: Hospitalization with optimized antidepressant and psychotherapy, enhanced by twice weekly visits during the double-blind phase.

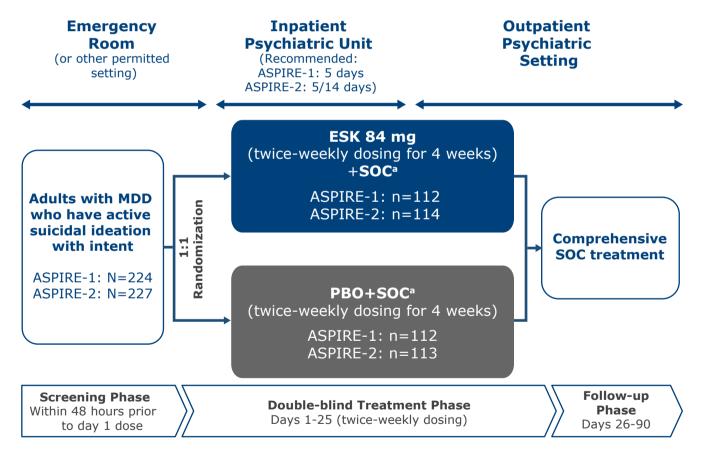




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Executive Summary		ASPIRE-1 and ASPIRE-2		obreviations d References	
	tudy Design nd Endpoints	Baseline Characteristics	Efficacy Results	Safety Results	
Study Desig	ign	Key Eligibility Criteria	End	points	

 ASPIRE-1 (<u>NCT03039192</u>) and ASPIRE-2 (<u>NCT03097133</u>) were 2 identically designed phase 3, multicenter, 1:1 randomized, double-blind, PBO-controlled studies that evaluated rapidly reducing depressive symptoms in adults with MDD who have active suicidal ideation with intent.¹⁻⁴



^aIncludes the initial inpatient hospitalization with newly initiated or optimized antidepressant therapy and psychotherapy, enhanced by twice-weekly intensive visits during the double-blind phase.

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Executive Summary		ASPIRE-1 and ASPIRE-2		Abbreviations and References				
	Overview	Study Des		Baseline Characteristics		Efficacy Results	Safety Results	
Study Design		ŀ	Key Eligibility Criteria	1	Endp	oints		

Inclusion Criteria ^{3,4}	Exclusion Criteria ^{3,4}
 Age 18-64 years DSM-5 diagnosis of MDD Suicidal ideation with intent within 24 hours of randomization, confirmed by a positive response when asked: "Think about suicide (killing yourself)?" "Intend to act on thoughts of killing yourself?" MADRS total score of >28 on day 1, predose Require acute psychiatric hospitalization due to imminent risk of suicide, and admitted voluntarily 	 Current DSM-5 diagnosis of bipolar (or related) disorder, OCD, antisocial personality disorder, or borderline personality disorder Current or prior DSM-5 diagnosis of a psychotic disorder or MDD with psychosis History of moderate or severe substance or alcohol use disorder per DSM-5 criteria within 6 months before screening SBP >140 mm Hg or DBP >90 mm Hg Positive urine test result(s) for phencyclidine, cocaine, or amphetamines

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Executive Summary				ASPIRE-1 and ASPIRE-2			Abbreviations and References		
	Overview	Study Designand Endpoin		Baseline Characteristics		Efficacy Results	Safety Results		
Study Design		Key Eligibility Criteria		Endp	oints				

Primary Efficacy Endpoint^{3,4}

• Change from baseline in MADRS total score at 24 hours after first dose.

Key Secondary Efficacy Endpoint^{3,4}

 Change from baseline in severity of suicidality (CGI-SS-r from SIBAT) score at 24 hours after first dose.

Other Secondary Efficacy Endpoints^{3,4}

Measured at 4 hours and 24 hours after first dose, and through day 25:

- Percentage of participants with remission of MDD (MADRS total score \leq 12).
- Reduction in CGI-SR-I and changes in FoST, clinician-rated and patient-reported outcomes from SIBAT, and MADRS suicidal thoughts item (item 10).

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Executiv Summar		ASPIRE-1 and ASPIRE-2	Abbreviations and References		
Overview	Study Desig	Baseline Characteristics	Efficacy Results	Safety Results	

• Baseline characteristics were comparable across treatment arms.^{3,4}

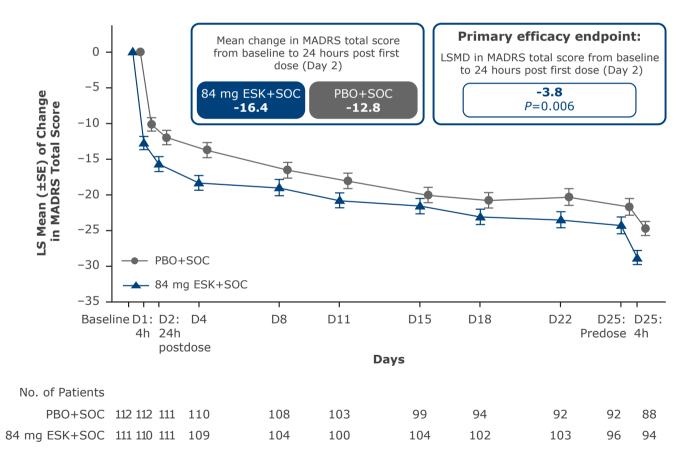
	ASPI	RE-1 ³	ASPI	RE-2 ⁴
	ESK+SOC (n=112)	PBO+SOC (n=112)	ESK+SOC (n=114)	PBO+SOC (n=113)
Age, years, mean (SD)	40.8 (13.17)	37.9 (12.54)	40.2 (12.73)	41.4 (13.43)
Female, n (%)	65 (58.0)	73 (65.2)	69 (60.5)	67 (59.3)
MADRS total score, mean (SD)	41.3 (5.87)ª	41.0 (6.29)	39.5 (5.19)	39.9 (5.76)
CGI-SS-r, %	90.0ª	87.5	90.3	92.1
Moderately suicidal, n (%)	29 (26.1)	28 (25.0)	35 (30.7)	33 (29.2)
Markedly suicidal, n (%)	38 (34.2)	42 (37.5)	48 (42.1)	42 (37.2)
Severely suicidal, n (%)	29 (26.1)	27 (24.1)	17 (14.9)	28 (24.8)
Extremely suicidal, n (%)	4 (3.6)	1 (0.9)	3 (2.6)	1 (0.9)
Prior suicide attempts, n (%)	66 (59.5)	68 (60.7)	78 (68.4)	72 (63.7)
Attempted suicide within the last month	32 (28.6)	31 (27.7)	36 (31.6)	24 (21.2)
SOC-ADs as randomized, n (%)				
AD monotherapy	59 (52.7)	65 (58.0)	45 (39.5)	43 (38.1)
AD + augmentation therapy	53 (47.3)	47 (42.0)	69 (60.5)	70 (61.9)
°n=111.				

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Executiv Summar		ASPIRE-1 and ASPIRE-2		Abbreviations and References		
Overview Study De and Endp				Efficacy Results	Safety Results	
Primary: Prim ASPIRE-1 ASPI			Primary: Pooled Analysis	Key Secondary	Other Secondary	

- Statistically significant improvement in change from baseline of mean MADRS total score at 24 hours after first dose was noted in ESK+SOC vs PBO+SOC.^{3,4}
 - Treatment effect of ESK+SOC on depressive symptoms was observed at 4 hours after the initial dose and at all time points compared to PBO+SOC.

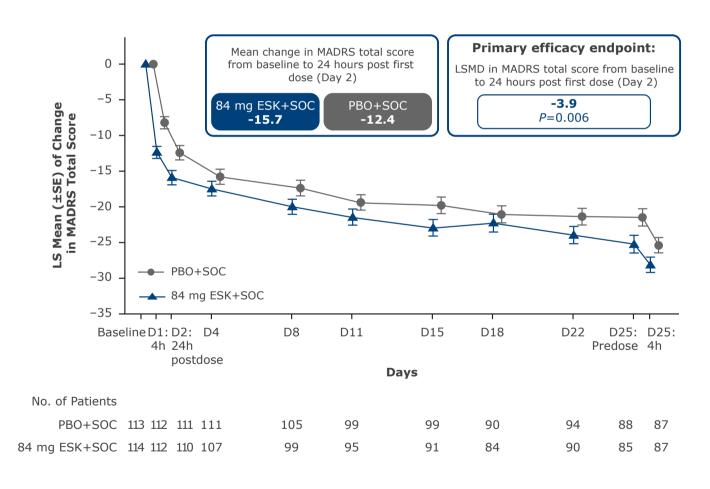
ASPIRE-1³



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Executiv Summar			ASPIRE-1 and ASPIRE-2		Abbreviations and References		
Overview	14/		Baseline Characteristics	Efficacy Results	Safety Results		
Primary: ASPIRE-1	Prima ASPIR		Primary: Pooled Analysis	Key Secondary	Other Secondary		

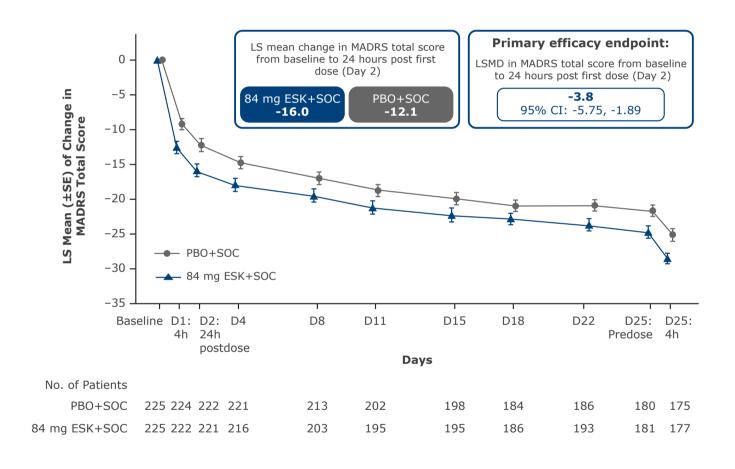
ASPIRE-2⁴



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Executive Summary			ASPIRE-1 and ASPIRE-2			Abbreviations and References		
		esign Baseline points Characteristics			Efficacy Results		Safety Results	
Primary: Prim		,	Primary: Pooled Analysis	Key Se	condary	_	ther ondary	

ASPIRE-1 and ASPIRE-2 Pooled Analysis⁵



Subgroup Analysis of the Pooled Primary Endpoint

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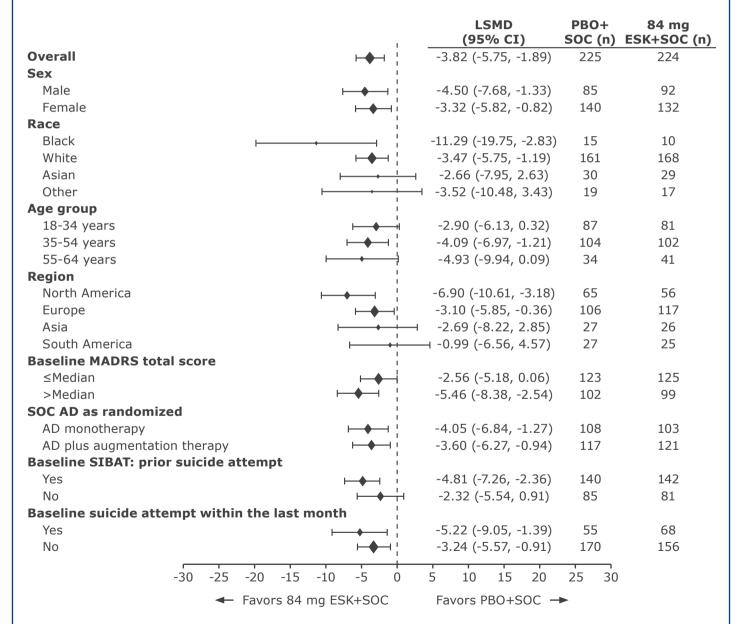
Executive Summary ASPIRE-1 and ASPIRE-2

Abbreviations and References



Subgroup Analysis of the Pooled Primary Efficacy Endpoint

• Change in baseline MADRS total score at 24 hours after the first dose was consistent with the primary analysis for all prespecified subgroups.⁵



AD, antidepressant; CI, confidence interval; ESK, esketamine; LSMD, least squares mean difference; MADRS, Montgomery-Åsberg Depression Rating Scale; PBO, placebo; SIBAT, Suicide Ideation and Behavior Assessment Tool; SOC, standard of care.

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	Executiv Summar	ASPIRE-1 and ASPIRE-2			Abbreviations and References				
	Overview Study De and Endpo			Baseline Characteristics		fficacy tesults		afety esults	
		Primai ASPIRI		Primary: Pooled Analysis	Key Se	condary	Other Seconda	ry	

ESK nasal spray has not been studied or proven to be effective in preventing suicide.

 While improvements in the severity of suicidality scores were noted in ESK+SOC and PBO+SOC arms at 24 hours after the first dose, the difference was not statistically significant.^{3,4}

	ASPI	RE-1 ³	ASPIRE-2⁴			
	ESK+SOC (n=112)	PBO+SOC (n=112)	ESK+SOC (n=114)	PBO+SOC (n=113)		
Change from baseline in	-1.0 (-6; 2)	-1.0 (-5; 1)	-1.0 (-6; 2)	-1.0 (-5; 2)		
CGI-SS-r total score, median (range)	P=0	.107	P=0	.379		

Pooled Analysis of Secondary Suicidality Endpoints

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Executive Summary

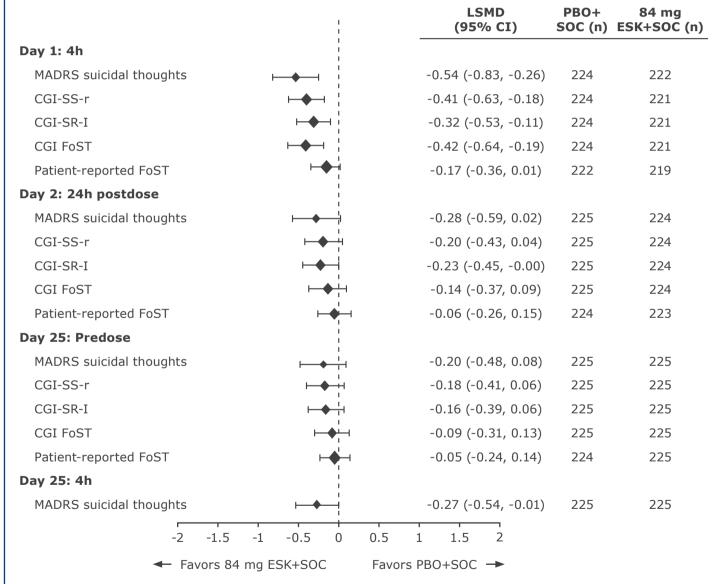
ASPIRE-1 and ASPIRE-2

Abbreviations and References



Pooled Analysis of Secondary Suicidality Endpoints

 ESK+SOC treatment was directionally favored for all other indices of suicidality^a (using the item response theory model) at 4 hours and 24 hours after first dose and on day 25.³⁻⁵



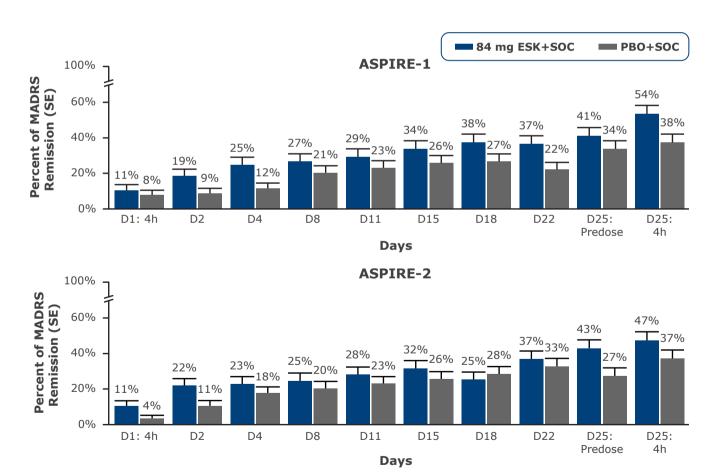
^aIncludes CGI-SS-r, the MADRS suicidal thoughts item, CGI-SR-I, and clinician-rated and patient-reported FoST.
CGI-SR-I, Clinical Global Impression - Imminent Suicide Risk; CGI-SS-r, Clinical Global Impression - Severity of Suicidality - revised; CI, confidence interval; ESK, esketamine; FoST, Frequency of Suicidal Thinking; LSMD, least squares mean difference; MADRS, Montgomery-Åsberg Depression Rating Scale; PBO, placebo; SOC, standard of care.

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Executive Summary		ASPIRE-1 and ASPIRE-2			Abbreviations and References	
Overview	Study Des		Baseline Characteristics	Efficacy Results	Safety Results	
Primary: ASPIRE-1	Prima ASPIR		Primary: Pooled Analysis	Key Secondary	Other Secondary	

ESK nasal spray has not been studied or proven to be effective in preventing suicide.

 More patients achieved remission (MADRS total score of ≤12) in the ESK+SOC vs PBO+SOC at all timepoints during the double-blind phase.^{3,4}



Pooled Analysis of Remission



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Executive Summary

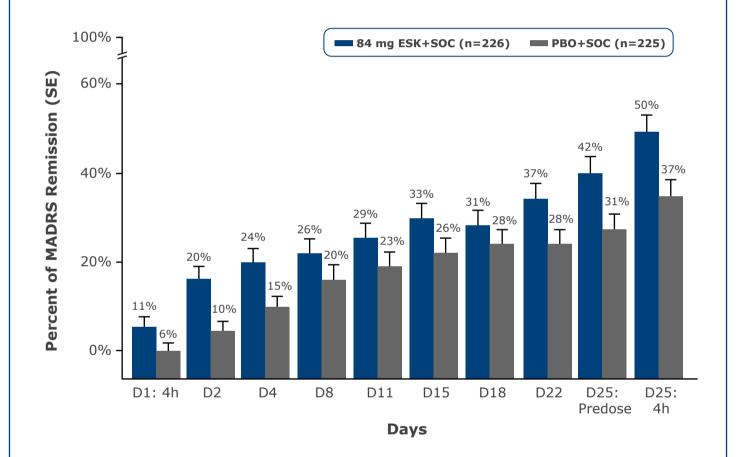
ASPIRE-1 and ASPIRE-2

Abbreviations and References



Pooled Analysis of Remission

 More patients achieved remission (MADRS total score of ≤12) in the ESK+SOC vs PBO+SOC at all timepoints during the double-blind phase.⁵



ESK, esketamine; MADRS, Montgomery-Åsberg Depression Rating Scale; PBO, placebo; SE, standard error; SOC, standard of care.

D1: 4h D2 D4 D8 D11 D15 D18 D22 D25: D25: Predose 4h **Days**

Pooled Analysis of Remission



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Executive Summary		ASPIRE-1 and ASPIRE-2		Abbreviations and References			
Overview	Study Designand Endpoin		Baseline Characteristics		Efficacy Results	Safety Results	

	ASPI	RE-1 ³	ASPIRE-2⁴	
Adverse Event	ESK+SOC (n=113)	PBO+SOC (n=112)	ESK+SOC (n=114)	PBO+SOC (n=113)
≥1 TEAE during double-blind phase, n (%)	100 (88.5)	83 (74.1)	104 (91.2)	87 (77.0)
Discontinuations of study drug due to TEAEs, n (%)	5 (4.4)	5 (4.5)	9 (7.9)	3 (2.7)
Serious TEAEs, n (%)	4 (3.5)ª	6 (5.4) ^b	5 (4.4) ^c	6 (5.3) ^d
Deaths in the double-blind phase, n	0	0	0	0
Deaths in the follow-up phase, n	1 ^e	0	0	0

^aIncluded suicidal depression (n=2), depression, suicide attempt, and diabetic ketoacidosis (n=1 each).

Most Common (≥10% in Either Group) TEAEs

 $^{^{}b}$ Included suicidal ideation (n=2), depression suicidal, depression, suicide attempt, aggression, and hypertransaminasemia (n=1 each).

^cIncluded suicide attempt (n=3), suicidal ideation, and depersonalization/derealization disorder (n=1 each).

 $^{^{}d}$ Included suicide attempt (n=3), suicidal ideation (n=2), depression, arrhythmia, pericardial effusion, and pneumothorax (n=1 each).

^eCompleted suicide.

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Executive Summary

ASPIRE-1 and ASPIRE-2

Abbreviations and References



Most Common (≥10% in Either Group) TEAEs

ASPIRE-1 ³				
Events Reported in the Double-blind Phase, n (%)	ESK+SOC (n=113)	PBO+SOC (n=112)		
Dizziness	40 (35.4)	10 (8.9)		
Dissociation	33 (29.2)	4 (3.6)		
Nausea	23 (20.4)	15 (13.4)		
Headache	21 (18.6)	20 (17.9)		
Somnolence	21 (18.6)	11 (9.8)		
Blood pressure increased	19 (16.8)	6 (5.4)		
Constipation	15 (13.3)	5 (4.5)		
Dysgeusia	16 (14.2)	11 (9.8)		

ASPIRE-2 ⁴				
Events Reported in the Double-blind Phase, n (%)	ESK+SOC (n=114)	PBO+SOC (n=113)		
Dizziness	47 (41.2)	21 (18.6)		
Dissociation	44 (38.6)	9 (8.0)		
Nausea	38 (33.3)	16 (14.2)		
Dysgeusia	29 (25.4)	18 (15.9)		
Somnolence	26 (22.8)	12 (10.6)		
Headache	25 (21.9)	26 (23.0)		
Paresthesia	23 (20.2)	7 (6.2)		
Vomiting	18 (15.8)	5 (4.4)		
Anxiety	17 (14.9)	7 (6.2)		
Vision blurred	17 (14.9)	6 (5.3)		
Sedation	16 (14.0)	3 (2.7)		
Paresthesia oral	14 (12.3)	3 (2.7)		
Euphoric mood	13 (11.4)	1 (0.9)		
Hypoesthesia	12 (10.5)	1 (0.9)		

ESK, esketamine; PBO, placebo; SOC, standard of care; TEAE, treatment-emergent adverse event.

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Executive Summary	ASPIRE-1 and ASPIRE-2	Abbreviations and References	
Abbreviations	Literature Search	References	

AD	Antidepressant	MDD	Major depressive disorder
CGI-SR-I	Clinical Global Impression - Imminent Suicide Risk	OCD	Obsessive compulsive disorder
CGI-SS-r	Clinical Global Impression - Severity of Suicidality - revised	РВО	Placebo
CI	Confidence interval	SBP	Systolic blood pressure
DBP	Diastolic blood pressure	SD	Standard deviation
DSM-5	Diagnostic and Statistical Manual of Mental Disorders (5th edition)	SE	Standard error
ESK	Esketamine	SIBAT	Suicide Ideation and Behavior Assessment Tool
FoST	Frequency of Suicidal Thinking	sNDA	Supplemental New Drug Application
LS	Least squares	SOC	Standard of care
LSMD	Least squares mean difference	TEAE	Treatment-emergent adverse event
MADRS	Montgomery-Ásberg Depression Rating Scale	US FDA	United States Food and Drug Administration

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Executive Summary	ASPIRE-1 and ASPIRE-2	Abbreviations and References	
Abbreviations	Literature Search	References	

A literature search of MEDLINE® and EMBASE® (and/or other resources, including internal/external databases) pertaining to this topic was conducted on 23 January 2020.

This response contains a summary of phase 3 studies in adults with MDD and active suicidal ideation with intent and an ongoing phase 2 study in adolescents. The citation for the phase 2 study in adults⁹ is located within the References tab.

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Executive Summary	ASPIRE-1 and ASPIRE-2	Abbreviations and References	
Abbreviations	Literature Search	References	

- Janssen Research & Development, LLC. A double-blind, randomized, placebo-controlled study to evaluate the efficacy and safety of intranasal esketamine in addition to comprehensive standard of care for the rapid reduction of the symptoms of major depressive disorder, including suicidal ideation, in adults subjects assessed to be at imminent risk for suicide. In: ClinicalTrials.gov [Internet]. Bethesda (MD): National Library of Medicine (US). 2000- [1/24/2018]. Available from: https://clinicaltrials.gov/ct2/show/NCT03097133 NLM Identifier: NCT03097133.
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- 3. Fu DJ, Canuso CM, Ionescu DF, et al. Esketamine nasal spray for rapid reduction of major depressive disorder symptoms in patients at imminent risk for suicide: ASPIRE-1 study. Poster presented at: 32nd European College of Neuropsychopharmacology (ECNP); September 7-10, 2019; Copenhagen, Denmark.
- 4. Ionescu DF, Canuso CM, Fu DJ, et al. Esketamine nasal spray for rapid reduction of major depressive disorder symptoms in patients at imminent risk for suicide: ASPIRE-2 study. Poster presented at: 32nd European College of Neuropsychopharmacology (ECNP); September 7-10, 2019; Copenhagen, Denmark.
- 5. Canuso CM, Fu DJ, Ionescu DF, et al. Esketamine nasal spray for rapid reduction of depressive symptoms in adult patients with major depressive disorder at imminent risk for suicide: results from the phase 3 program. Poster presented at: 58th Annual meeting of American College of Neuropsychopharmacology (ACNP); December 8-11, 2019; Orlando, FL.
- 6. Nash AI, Turkoz I, Fu DJ, et al. Esketamine nasal spray for rapid reduction of major depressive disorder symptoms in adult patients at imminent risk for suicide: a post hoc analysis of North American subjects. Poster presented at: 58th Annual meeting of American College of Neuropsychopharmacology (ACNP); December 8-11, 2020; Orlando, FL.
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- 8. Janssen Research & Development, LLC. A double-blind, randomized, psychoactive placebo-controlled, study to evaluate the efficacy and safety of 3 fixed doses (28 mg, 56 mg and 84 mg) of intranasal esketamine in addition to comprehensive standard of care for the rapid reduction of the symptoms of major depressive disorder, including suicidal ideation, in pediatric subjects assessed to be at imminent risk for suicide. In: ClinicalTrials.gov [Internet]. Besthesda (MD): National Library of Medicine (US). 2000- [cited 2018 October 4]. Available from: https://clinicaltrials.gov/ct2/show/NCT03185819 NLM Identifier: NCT03185819.
- 9. Canuso C, Singh J, Fedgchin M, et al. Efficacy and safety of intranasal esketamine for the rapid reduction of symptoms of depression and suicidality in patients at imminent risk for suicide: results of a double-blind, randomized, placebo-controlled study [published online ahead of print]. *Am J Psychiatry* 2018. doi:10.1176/appi.ajp.2018.17060720.2018.

