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

**FORM 6-K**

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER  
THE SECURITIES EXCHANGE ACT OF 1934**

For the month of January 2026.

Commission File Number: 001-40530

**GH Research PLC**

(Exact name of registrant as specified in its charter)

**Joshua Dawson House  
Dawson Street  
Dublin 2  
D02 RY95  
Ireland**

(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F



Form 40-F

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GH Research PLC announces the presentation of posters related to its GH001-TRD-201 and GH001-BD-202 clinical trials at the 64<sup>th</sup> American College of Neuropsychopharmacology (ACNP) annual meeting (the “**Congress**”), which is scheduled to take place from January 12-15, 2026, in Paradise Island, Bahamas.

A copy of the poster to be presented by Sanjay J. Mathew during the Congress is attached hereto as Exhibit 99.1.

A copy of the poster to be presented by Lisa Harding during the Congress is attached hereto as Exhibit 99.2.

A copy of the poster to be presented by Andreas Reif during the Congress is attached hereto as Exhibit 99.3.

EXHIBIT INDEX

- [99.1](#) Poster to be presented by Sanjay J. Mathew with Title: Suicidal Ideation and Behavior in Patients with Treatment-Resistant Depression Treated with GH001
- [99.2](#) Poster to be presented by Lisa Harding with Title: Rapid Antidepressant Effects of Inhaled GH001 in Treatment-Resistant Depression: Results from a Phase 2b, Double-Blind, Randomized Controlled Trial with 6-Month Follow-Up
- [99.3](#) Poster to be presented by Andreas Reif with Title: Results of a Phase 2a Clinical Trial of Inhaled Mebufotenin (GH001) in Patients with Bipolar II Disorder and a Current Major Depressive Episode

**SIGNATURE**

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, thereunto duly authorized.

**GH Research PLC**

Date: January 8, 2025

By: /s/ Julie Ryan  
Name: Julie Ryan  
Title: Vice President, Finance

# Suicidal Ideation and Behavior in Patients with Treatment-Resistant Depression Treated with GH001

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## Background

- Treatment-resistant depression (TRD) is a debilitating condition that has been defined as a failure to respond to 2-3 adequate treatments for major depressive disorder (MDD)
- Rates of suicidal ideation in patients with TRD are higher than in patients with treatment-responsive MDD (15% vs 6% of patients, respectively)
- TRD is also associated with higher rates of attempted suicide, all-cause mortality, and deaths by suicide<sup>1</sup>
- There is a significant unmet need for safe and effective therapies for TRD that do not exacerbate suicidal intent
- In Phase 2b trial, GH001, a synthetic form of mifepristone (5-MeO-DMT) for pulmonary inhalation, was well tolerated and resulted in rapid and significant improvements in depressive symptoms in patients with TRD

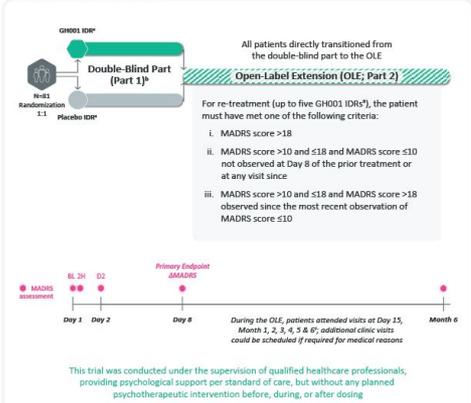
## Objective

- We describe the safety effects of GH001 on suicidal ideation and behavior in patients with TRD enrolled in the Phase 2b trial

## Methods

- This trial (NCT05800860) included a 7-day, randomized, double-blind part and a 6-month open-label extension (OLE, Figure 1)
- In the double-blind part, patients were randomized 1:1 to receive an individualized dosing regimen (IDR) of up to three escalating doses of GH001 (6, 12, and 18 mg) or placebo IDR on a single day with a 1-hour interval between doses
- In the OLE, patients received up to five GH001 IDR re-treatments over 6 months as needed, depending on the patient's clinical response and tolerability of previous IDRs
- Trials eligibility criteria excluded patients with suicidal ideation with intent (with items 4 or 5 on the Columbia-Suicide Severity Rating Scale [C-SSRS]) endorsed within the past year, during the screening period, or at baseline; those with suicidal behaviors or non-suicidal self-injury in the past year; and those with a clinical assessment of significant suicide risk
- Suicidal behavior and suicidal ideation were assessed using the C-SSRS at screening, during each treatment period at pre-dose, discharge, Day 2, and Day 8, and at all OLE scheduled visits (Day 15 and monthly up to Month 6/end of treatment)
- The C-SSRS "baseline/screening" version was used at screening, and the "since last visit" version was used at all subsequent visits
- Suicidal ideation was defined as "yes" responses to items 1-5 (with items 4 and 5 indicating suicidal ideation with intent), and suicidal behavior was defined as "yes" responses to items 6-10
- Montgomery-Åsberg Depression Rating Scale (MADRS) item 10 (suicidal thoughts) was used to provide further quantification of suicidal ideation, which was indicated by scores ≥2 on a scale from 0-6<sup>2</sup>
- Treatment-emergent adverse events (TEAEs) were assessed at each visit
- Results were analyzed descriptively

### Figure 1. Clinical Trial Schematic



\*Second or third dose was administered if the previous dose was well tolerated according to the trial physician's judgment (based on oral signs and adverse events) and if the patient did not achieve an intermediate effect peak experience, defined as a mean score of 2/5 on the Peak Experience Scale following the previous dose. Efficacy assessments were carried out by independent blinded assessors in the double-blind part. Patients also attended assessment visits on Day 2 (baseline) and Day 8 (6h post-treatment) after each re-treatment. Abbreviations: DR = Dose; Day 8 = Hour; IDR = individualized dosing regimen; MADRS = Montgomery-Åsberg Depression Rating Scale.

## Results

- Eighty-one patients were randomized (GH001 IDR, 40 and placebo IDR, 41) in the double-blind part, and all transitioned directly into the OLE
- Rates of historic and current suicidal ideation were balanced across treatment groups (Table 1)

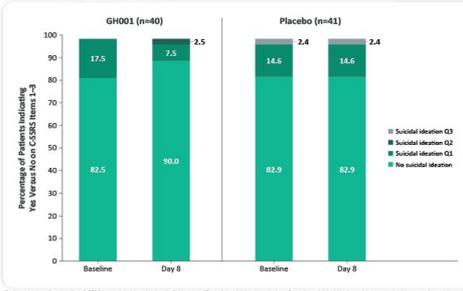
**Table 1. Baseline Demographics and Clinical Characteristics**

	GH001 (n=40)	Placebo (n=41)
<b>Patient Demographics</b>		
Age, years, mean (SD)	41.6 (11.4)	43.9 (10.9)
Sex, female, n (%)	24 (60.0)	22 (53.7)
Race, White, n (%)	40 (100)	41 (100)
Actively employed, n (%)	33 (82.5)	29 (70.7)
<b>Disease Characteristics</b>		
HAM-D-17 total score, mean (SD)	24.9 (2.6)	24.6 (2.3)
MADRS total score, mean (SD)	29.0 (5.4)	28.2 (4.6)
CGI-S, mean (SD)	4.8 (0.7)	5.0 (0.6)
<b>Suicidality</b>		
Non-suicidal self-injurious behavior		
Lifetime, n (%)	1 (2.5)	0
Past 12 months, n (%)	0	0
Baseline, n (%)	0	0
Suicidal ideation without intent*		
Lifetime, n (%)	15 (37.5)	23 (56.1)
Past 12 months, n (%)	10 (25.0)	18 (43.9)
Baseline, n (%)	7 (17.5)	9 (22.0)
Suicidal ideation with intent*		
Past 12 months, n (%)	0	0
Baseline, n (%)	0	0
Suicidal behavior*		
Past 12 months, n (%)	0	0
Baseline, n (%)	0	0

\*Suicidal ideation without intent was defined as any "yes" answer to C-SSRS items 1-3; suicidal ideation with intent was defined as any "yes" answer to C-SSRS items 4-5; suicidal behavior was defined as any "yes" answer to C-SSRS items 6-10; patients were counted for each category item in which they answered "yes" and therefore may be counted in more than one item. Abbreviations: C-SSRS = Columbia-Suicide Severity Rating Scale; CGI-S = Clinical Global Impression-Severity; C-SSRS = Columbia-Suicide Severity Rating Scale; HAM-D-17 = Hamilton Rating Scale for Depression; MADRS = Montgomery-Åsberg Depression Rating Scale; SD = Standard Deviation.

- In the GH001 group, suicidal ideation was reported by seven patients at baseline and four at Day 8 (Figure 2)
- No GH001-treated patients developed non-onset suicidal ideation between baseline and Day 8
- In the placebo group, five patients reported suicidal ideation both at baseline and at Day 8, two reported suicidal ideation at baseline but not Day 8, and two patients without baseline suicidal ideation reported it at Day 8
- No suicidal behaviors were reported in GH001- or placebo-treated patients at baseline or on any scheduled C-SSRS assessments in the double-blind part

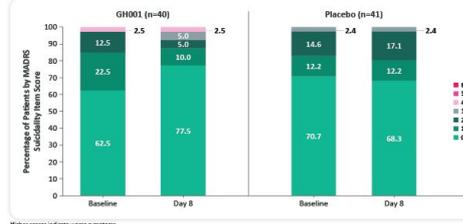
**Figure 2. Double-Blind Part: Proportion of Patients with and without Suicidal Ideation\* at Baseline and Day 8 by C-SSRS Item**



\*Patient responding "yes" to C-SSRS items 1 (wish to be dead), 2 (non-specific active suicidal thoughts), or 3 (active suicidal ideation with any methods); no patients responded "yes" to items 4 (active suicidal ideation with some intent) or 5 (active suicidal ideation with specific plans). Abbreviations: C-SSRS = Columbia-Suicide Severity Rating Scale; Q1 = Question 1; Q2 = Question 2; Q3 = Question 3.

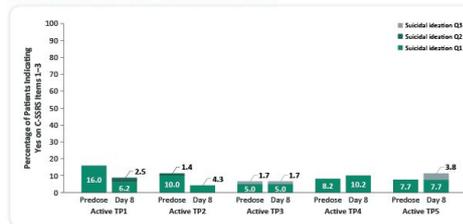
- Baseline MADRS item 10 (suicidal thoughts) scores were similar between the two treatment groups, and patients who received GH001 did not report worsening of symptoms on Day 8 of the double-blind part as per MADRS item 10 (Figure 3)
- The median (range) change from baseline to Day 8 in MADRS score for item 10 was 0.0 [-2 to 1] for patients who received GH001 and 0.0 [-1 to 2] for patients who received placebo

**Figure 3. Double-Blind Part: MADRS Suicidality Item 10 Responses at Baseline and Day 8**



Higher scores indicate more symptoms. Abbreviations: MADRS = Montgomery-Åsberg Depression Rating Scale. \*In the 6-month OLE, the numbers of patients reporting suicidal ideation according to the C-SSRS at all timepoints assessed during the trial were lower than before the first GH001 treatment period; C-SSRS items endorsed during each active treatment period are shown in Figure 4

**Figure 4. Proportion of Patients Reporting Suicidal Ideation\* by C-SSRS Item in Each GH001 Treatment Period in the Double-Blind Part and the OLE**



\*Patient responding "yes" to C-SSRS items 1 (wish to be dead), 2 (non-specific active suicidal thoughts), or 3 (active suicidal ideation with any methods); no patients responded "yes" to items 4 (active suicidal ideation with some intent) or 5 (active suicidal ideation with specific plans). Abbreviations: C-SSRS = Columbia-Suicide Severity Rating Scale; Q1 = Question 1; Q2 = Question 2; Q3 = Question 3; TPR = Treatment period.

- During the OLE, the proportions of patients reporting a score of zero on MADRS item 10 at all timepoints during GH001 treatment were greater than that at baseline of the double-blind part (Figure 5)
- The median (range) change from baseline to Month 6 in MADRS score for item 10 was 0.0 [-3 to 2; n=74]

**Figure 5. MADRS Suicidality Item 10 Responses at Baseline and by Month in the OLE**



Higher scores indicate more symptoms. Abbreviations: ET = End of treatment; MADRS = Montgomery-Åsberg Depression Rating Scale; OLE = Open-label extension. \*No TEAEs of suicidal intent or suicidal behavior occurred throughout the 6-month duration of the trial. A TEAE of suicidal ideation occurred in one patient; the event lasted 6 hours before resolving spontaneously. This TEAE was not accompanied by any changes in C-SSRS score beyond the duration for which the thoughts occurred, and the patient did not report any further TEAEs of suicidal ideation during the trial.



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# Results of a Phase 2a Clinical Trial of Inhaled Mebufotenin (GH001) in Patients with Bipolar II Disorder and a Current Major Depressive Episode

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## Background

- Bipolar II disorder (BDII) is a chronic psychiatric disorder characterized by alternating episodes of hypomania and major depressive episodes (MDE), imposing high burdens of illness on individuals<sup>1</sup>
- The estimated lifetime prevalence rate of BDII is between 0.4 and 5%<sup>2,3</sup>
- Current treatments for depressive symptoms in patients with BDII remain limited, offering insufficient efficacy and tolerability highlighting the need for new therapeutic approaches<sup>4</sup>
- Mebufotenin (5-MeO-DMT) is a rapid acting psychoactive molecule that acts as a non-selective serotonin agonist with highest affinity for the 5-HT<sub>1A</sub> receptor subtype<sup>5</sup>
- GH001, a synthetic form of mebufotenin for pulmonary inhalation, has been well tolerated in early-stage trials and has shown potential to induce rapid remission of depressive symptoms in patients with treatment-resistant depression (TRD)<sup>6,7</sup>
- The trial presented here is the first in which mebufotenin was administered to patients diagnosed with BDII and a current MDE

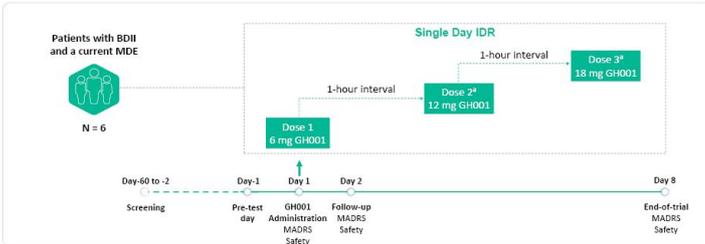
## Objective

- To investigate the safety and antidepressant effects of GH001 in adult patients with BDII and a current MDE

## Methods

- This Phase 2a, proof-of-concept, open-label trial (NCT05839509) enrolled patients aged 18-64 years who met Diagnostic and Statistical Manual of Mental Disorders, 5th Edition (DSM-5) diagnostic criteria for BDII with a current MDE
- Patients were required to have a Montgomery-Åsberg Depression Rating Scale (MADRS) total score of  $\geq 24$  and a Young Mania Rating Scale (YMRS) total score of  $\leq 8$  at baseline and prior to dosing on Day 1
- Patients were not permitted to receive any antidepressant medications within 7 days or 5 half-lives, whichever was longer, prior to dosing. Lithium use within 6 months prior to dosing was not permitted, if applicable
- Patients were administered an individualized dosing regimen (IDR) of up to three escalating doses of GH001 (6, 12, and 18 mg) with a 1-hour interval between doses on a single day (Figure 1)
- This trial was conducted under the supervision of qualified healthcare professionals, providing psychological support per standard-of-care, but without any planned psychotherapeutic intervention before, during, or after dosing
- The primary endpoint was change in MADRS total score from baseline to Day 8
- Secondary endpoints included response ( $\geq 50\%$  reduction from baseline in MADRS total score), remission (MADRS total score  $\leq 10$ ), Clinical Global Impression-Severity (CGI-S) scale, Bipolar Depression Rating Scale (BDRS), and safety and tolerability

Figure 1. Clinical Trial Design



\*A second or third dose was administered if the previous dose was well tolerated according to the trial physician's judgement (based on vital signs and adverse events) and if the patient did not achieve an intense psychoactive effect (peak experience; defined as a mean score of  $\geq 75$  on the Peak Experience Scale) following the previous dose. Abbreviations: BDII = Bipolar II disorder; IDR = individualized dosing regimen; MADRS = Montgomery-Åsberg Depression Rating Scale; MDE = Major depressive episode.

## Results

### Disposition and Demographics

- A total of six patients with BDII and a current MDE were enrolled in this trial. Patient disposition and demographics are presented in Table 1

Table 1. Patient Disposition and Baseline Characteristics

	N=6
Completed trial, n (%)	6 (100)
Discontinued, n (%)	0
Number of previous MDE, mean (SD)	14.0 (12.4)
Duration of current MDE (weeks), mean (SD)	20.8 (22.7)
MADRS total score at baseline, mean (SD)	32.0 (5.1)
<b>Demographics</b>	
Female, n (%)	4 (66.7)
Age (years), mean (SD)	44.2 (9.3)
Height (cm), mean (SD)	174.7 (10.1)
Weight (kg), mean (SD)	76.1 (18.6)
BMI (kg/m <sup>2</sup> ), mean (SD)	24.8 (5.0)
Race, White, n (%)	6 (100)

Abbreviations: BMI = Body mass index; MADRS = Montgomery-Åsberg Depression Rating Scale; MDE = Major depressive episode; SD = Standard deviation.

**References**  
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 2. Merikangas KR et al. Arch Gen Psychiatry. 2011;68(3):242-251.  
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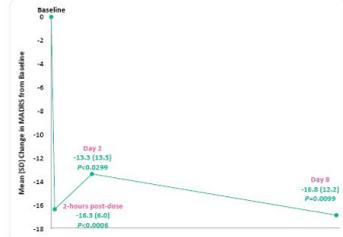
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 Presented at the 64th Annual Meeting of the American College of Neuropsychopharmacology (ACNP) Nassau, Bahamas | January 12-15, 2026

## Efficacy

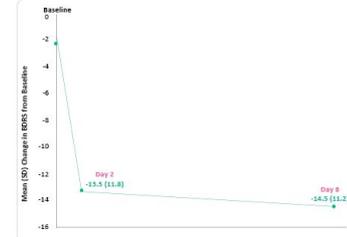
- The primary endpoint was achieved, with a significant reduction from baseline to Day 8 in mean (standard deviation [SD]) MADRS total score of  $-16.8$  (12.2) ( $P=0.0099$ ; Figure 2)
- Significant reductions in mean (SD) MADRS total score were also observed at 2-hours post-dose ( $-16.3$  [6.0]) and Day 2 ( $-13.3$  [13.5]; Figure 2)
- One-third (33.3%) of patients responded and were in remission on Day 8
- The rapid reduction in the severity of depressive symptoms as assessed by the MADRS, were mirrored in the CGI-S and the BDRS
  - A mean (SD) reduction of  $-2.5$  (1.5) on the CGI-S and  $-14.5$  (11.2) on the BDRS were observed from baseline to Day 8 (Figure 3)

Figure 2. Mean Change in MADRS Total Score From Baseline in Patients With BDII and a Current MDE



Abbreviations: BDII = Bipolar II disorder; MADRS = Montgomery-Åsberg Depression Rating Scale; MDE = Major depressive episode; SD = Standard deviation.

Figure 3. Mean Change in BDRS Total Score From Baseline in Patients With BDII and a Current MDE



Abbreviations: BDII = Bipolar II disorder; BDRS = Bipolar Depression Rating Scale; MDE = Major depressive episode; SD = Standard deviation.

## Safety

- Treatment-emergent adverse events (TEAEs) were observed in 5/6 patients (83.3%) and were mostly mild in severity (87.5%) with two moderate and one severe events
- Headache (50%), nausea (33.3%) and anxiety (33.3%) were the most frequently reported TEAEs; all other TEAEs occurred in a single patient each
- One severe event of anxiety was reported which subsided within 24 hours; no TEAEs of flashbacks were reported
- There were no treatment-emergent serious adverse events (SAEs), and no patient withdrew from the trial
- There were no clinically significant changes in spirometry after inhalation of GH001
- There was a clinically significant reduction in mean (SD) Brief Psychiatric Rating Scale from baseline to Day 8 ( $-15.7$  [12.0]). There was no clinically relevant worsening of other clinician-rated assessments (based on the Clinical Assessment of Discharge Readiness, Columbia-Suicide Severity Rating Scale, and Modified Observer's Assessment of Alertness and Sedation scales) and all patients were deemed ready for discharge within the same day of dosing
- Following dosing with GH001, YMRS scores remained low and stable, decreasing from 2.2 at baseline to 1.0 by Day 8 ( $-1.2$  [SD=1.5]), indicating no emergence of manic symptoms
- The safety profile observed in this trial was consistent with other completed trials investigating GH001 in TRD and postpartum depression

Table 2. Summary of Safety in Patients with BDII and a Current MDE

	Event #	n (%)
<b>Any TEAE</b>	<b>18</b>	<b>5 (83.3)</b>
Mild	15	5 (83.3)
Moderate	2	2 (33.3)
Severe	1	1 (16.7)
Treatment-related TEAEs	18	5 (83.3)
Treatment-emergent SAE	0	0
<b>TEAEs by Preferred Term</b>		
Headache	4	3 (50.0)
Nausea	6	2 (33.3)
Anxiety	2	2 (33.3)
Paresthesia	1	1 (16.7)
Agitation	1	1 (16.7)
Hypoesthesia oral	1	1 (16.7)
Neck pain	1	1 (16.7)
Fatigue	1	1 (16.7)
Cough	1	1 (16.7)

Abbreviations: BDII = Bipolar type II, MDE = Major depressive episode, SAE = Serious adverse event, TEAE = Treatment-emergent adverse event.

## Conclusions

- In this trial evaluating the safety and antidepressant effects of GH001 in patients with BDII and a current MDE, the primary endpoint was met: a significant reduction from baseline in MADRS total score was observed on Day 8
- Significant reductions in MADRS total scores were also observed at 2-hours post-dose, supporting the rapid onset of antidepressant effects of GH001
- GH001 administered via inhalation demonstrated a favorable safety profile and was well tolerated in patients with BDII and a current MDE; no treatment-related SAEs were reported

