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

FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

MARPAI, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

86-1916231
(I.R.S. Employer
Identification No.)

**5701 East Hillsborough Ave., Suite 1417
Tampa, Florida 33610-5428
Telephone: (646) 303-3483**

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Mr. Edmundo Gonzalez
Chief Executive Officer
Marpai, Inc.

**5701 East Hillsborough Ave., Suite 1417
Tampa, Florida 33610-5428
Telephone: (646) 303-3483**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this registration statement, as determined by market and other conditions.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box:

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box:

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, anon-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth

company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer:

Accelerated filer:

Non-accelerated filer:

Smaller reporting company:

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(a) OF THE SECURITIES ACT OF 1933 OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE COMMISSION ACTING PURSUANT TO SAID SECTION 8(a), MAY DETERMINE.

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The information in this preliminary prospectus is not complete and may be changed. These securities may not be sold until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion. Dated January 20, 2023

PROSPECTUS



\$100,000,000

**COMMON STOCK
WARRANTS
UNITS**

We may from time to time sell common stock and warrants to purchase common stock, and units of such securities, in one or more offerings for an aggregate initial offering amount of \$100,000,000. We refer to the common stock, the warrants to purchase common stock and the units collectively as the securities. This prospectus describes the general manner in which our securities may be offered using this prospectus. We may sell these securities to or through underwriters or dealers, directly to purchasers or through agents. We will set forth the names of any underwriters, dealers or agents in an accompanying prospectus supplement. You should carefully read this prospectus and any accompanying supplements before you decide to invest in any of these securities.

Our common stock is traded on the Nasdaq Capital Market, or Nasdaq, under the symbol "MRAI."

On January 19, 2023, the aggregate market value of our common stock held by non-affiliates was approximately \$12,157,915, based on 21,249,014 shares of common stock outstanding and a per share price of \$1.11 based on the closing sale price of our common stock on November 22, 2022. We have not offered any securities pursuant to General Instruction I.B.6 on Form S-3 during the prior 12 calendar month period that ends on and includes the date of this prospectus.

Investing in the securities involves risks. See "[Risk Factors](#)" beginning on page 4 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2023.

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You should rely only on the information contained in this prospectus, any prospectus supplement and the documents incorporated by reference, or to which we have referred you. We have not authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus and any prospectus supplement do not constitute an offer to sell, or a solicitation of an offer to purchase, the securities offered by this prospectus and any prospectus supplement in any jurisdiction to or from any person to whom or from whom it is unlawful to make such offer or solicitation of an offer in such jurisdiction. You should not assume that the information contained in this prospectus, any prospectus supplement or any document incorporated by reference is accurate as of any date other than the date on the front cover of the applicable document.

Neither the delivery of this prospectus nor any distribution of securities pursuant to this prospectus shall, under any circumstances, create any implication that there has been no change in the information set forth or incorporated by reference into this prospectus or in our affairs since the date of this prospectus. Our business, financial condition, results of operations and prospects may have changed since such date.

When used herein, unless the context requires otherwise, references to the “Company,” “we,” “our” and “us” refer to Marpai, Inc., a Delaware corporation, collectively with its wholly-owned subsidiaries, Marpai Captive, Inc. (“Marpai Captive”), Marpai Administrators LLC (“Marpai Administrators”) Maestro Health, LLC (“Maestro Health”), and Marpai Health, Inc. (“Marpai Health”) and its wholly owned Israeli subsidiary EYME Technologies, Ltd. (“EYME”), unless otherwise indicated or required by the context.

All dollar amounts refer to U.S. dollars unless otherwise indicated.

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC, using a “shelf” registration process. Under this shelf registration process, we may, from time to time, sell any combination of the securities described in this prospectus in one or more offerings up to a total dollar amount of \$100,000,000. This prospectus describes the securities we may offer and the general manner in which our securities may be offered by this prospectus. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. We may also add, update or change in the prospectus supplement any of the information contained in this prospectus. To the extent there is a conflict between the information contained in this prospectus and the prospectus supplement, you should rely on the information in the prospectus supplement, provided that if any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in this prospectus or any prospectus supplement—the statement in the document having the later date modifies or supersedes the earlier statement.

OUR COMPANY

This summary highlights information contained in the documents incorporated herein by reference. Before making an investment decision, you should read the entire prospectus, and our other filings with the Securities and Exchange Commission, or the SEC, including those filings incorporated herein by reference, carefully, including the sections entitled “Risk Factors” and “Cautionary Statement Regarding Forward-Looking Statements.”

We are a technology-driven healthcare payer, which uses A.I. to predict and help prevent costly events for our members, and in turn lower our clients' health care costs. Our mission is to positively change healthcare for the benefit of (i) our clients who are self-insured employers that pay for their employees' healthcare benefits and engage us to administer the latter's healthcare claims, and we refer to them as our “Clients”; (ii) employees who receive these healthcare benefits from our Clients, and we refer to them as our “Members”, and (iii) healthcare providers including, doctors, doctor groups, hospitals, clinics, and any other entities providing healthcare services or products, and we refer to them as the “Providers.” We are creating the healthcare payer of the future for self-insured employers in the U.S., what we refer to as the “Payer of the Future.” We provide administrative services, and act as Third-Party-Administrator to self-insured employers who provide healthcare benefits to their employees. Most of our Clients are small and medium-sized companies as well as local government entities. Currently, we have over 60 Clients. We provide services to a total of over 20,000 of our clients' employees, and including their spouses and dependents, we serve a total of over 40,000 members in 44 states in addition to the District of Columbia.

Our address is 5701 East Hillsborough Ave., Suite 1417, Tampa, Florida 33610 5428 and our telephone number is (646) 303 3483. Our corporate website is: www.marpaihealth.com. The content of our website shall not be deemed incorporated by reference in this prospectus.

Recent Developments

On August 4, 2022, we entered into a Membership Interest Purchase Agreement (the “Agreement”) with XL America Inc., a Delaware corporation, Seaview Re Holdings Inc., a Delaware corporation (XL America Inc. and Seaview Re Holdings Inc. are collectively referred to herein as the “Equity Sellers”), and AXA S.A., a French société anonyme (the “Debt Seller,” and, together with the Equity Sellers, collectively, the “Sellers”). Pursuant to the terms of the Agreement, we agreed to acquire all of the membership interests (the “Units”) of Maestro Health, LLC (“Maestro Health”), a Delaware limited liability company (the “Acquisition”). The Equity Sellers own an aggregate of 100% of the issued and outstanding Units of Maestro Health. We closed the Acquisition on November 1, 2022.

Maestro Health is a third-party administrator for employee health and benefits, which offers an end-to-end health plan solution, integrating care management and cost containment for its customers. The Agreement contains representations and warranties customary for transactions of this nature negotiated between sophisticated purchasers and sellers acting at arm's length, certain of which are qualified as to materiality and knowledge and subject to reasonable exceptions. The closing of the Acquisition is subject to certain customary closing conditions as contained in the Agreement, including: (i) that the Equity Sellers shall have sold, assigned, transferred, conveyed and delivered to the Company all of the Equity Sellers' rights, title, and interests in and to all of the Units; and (ii) the Debt Seller shall have irrevocably transferred and assigned to us all of the Debt Seller's rights and obligations with respect to receiving payments under that certain Term Loan Agreement, dated May 11, 2022, by and between the Debt Seller and Maestro Health, in the principal amount of \$59,900,000 (the “AXA Note”).

In consideration for our acquisition of the Units, we have agreed to pay the Sellers an aggregate purchase price (the “Purchase Price”) of \$19,900,000 determined on the closing date (the “Base Purchase Price”), which shall be payable on or before April 1, 2024 (the “Payment Date”), and shall accrue interest until such time that is paid, such that on the Payment Date the Purchase Price, plus all accrued and unpaid interest, shall equal \$22,100,000 (for clarity, the Base Purchase Price shall be adjusted, in each case, pursuant to the terms of the Agreement). We agreed to pay the Equity Sellers an amount of \$100 with the balance of the Purchase Price to be paid to the Debt Seller for the repayment of the AXA Note. In no event will we be responsible for any further payments for the repayment of the AXA Note other than the repayment of the Purchase Price as provided in the Agreement. Following the Payment Date, any unpaid portion of the Purchase Price shall accrue interest at ten percent (10%) per annum, compounding annually, calculated on the basis of a 365-day year for the actual number of days elapsed (the “Specified Rate”), and shall be repaid as promptly as practicable to the Debt Seller. In addition, in the event we or our subsidiaries receive proceeds from the sale of any securities in a private placement or public offering of securities (each an “Offering”), then we shall pay to the Debt Seller an amount equal to thirty-five percent (35%) of the net proceeds of the Offering no later than sixty (60) days after the closing of Offering until such time as the Purchase Price has been paid in full.

Notwithstanding the foregoing, we shall be required to make accumulated annual payments to the Debt Seller, representing the Purchase Price, as follows: (i) \$5,000,000 to be paid by December 31, 2024, (ii) \$11,000,000 to be paid by December 31, 2025, and (iii) \$9,000,000 to be paid by December 31, 2026. In addition, we are obligated to pay the full amount of any remaining unpaid

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Purchase Price (inclusive of any accrued interest at the Specified Rate) by no later than year-end 2027, and in no event shall we be required to pay total cash consideration equal to more than the aggregate amount of the Purchase Price (as adjusted pursuant to the terms of the Agreement).

RISK FACTORS

An investment in our securities involves significant risks. You should carefully consider the risk factors contained in any prospectus supplement and in our filings with the SEC, including our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, as well as all of the information contained in this prospectus, any prospectus supplement and the documents incorporated by reference herein or therein, before you decide to invest in our securities. Our business, prospects, financial condition and results of operations may be materially and adversely affected as a result of any of such risks. The value of our Common Stock could decline as a result of any of these risks. You could lose all or part of your investment in our securities. Some of our statements in sections entitled “*Risk Factors*” are forward-looking statements. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business, prospects, financial condition and results of operations.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, any prospectus supplement and the documents we incorporate by reference contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and other federal securities laws, regarding our business, clinical trials, financial condition, expenditures, results of operations and prospects. Words such as “expects,” “anticipates,” “intends,” “plans,” “planned expenditures,” “believes,” “seeks,” “estimates” and similar expressions or variations of such words are intended to identify forward-looking statements, but are not deemed to represent an all-inclusive means of identifying forward-looking statements as denoted in this prospectus, any prospectus supplement and the documents we incorporate by reference. Additionally, statements concerning future matters are forward-looking statements.

Although forward-looking statements in this prospectus, any prospectus supplement and the documents we incorporate by reference reflect the good faith judgment of our management, such statements can only be based on facts and factors known by us as of such date. Consequently, forward-looking statements are inherently subject to risks and uncertainties and actual results and outcomes may differ materially from the results and outcomes discussed in or anticipated by the forward-looking statements. Factors that could cause or contribute to such differences in results and outcomes include, without limitation, those specifically addressed under the heading “Risk Factors” herein and in the documents we incorporate by reference, as well as those discussed elsewhere in this prospectus and any prospectus supplement. Readers are urged not to place undue reliance on these forward-looking statements, which speak only as of the date of this prospectus, any prospectus supplement or the respective documents incorporated by reference, as applicable. Except as required by law, we undertake no obligation to revise or update any forward-looking statements in order to reflect any event or circumstance that may arise after the date of such forward-looking statements. Readers are urged to carefully review and consider the various disclosures made throughout the entirety of this prospectus, any prospectus supplement and the documents incorporated by reference, which attempt to advise interested parties of the risks and factors that may affect our business, financial condition, results of operations and prospects.

USE OF PROCEEDS

Unless we otherwise indicate in the applicable prospectus supplement, we currently intend to use the net proceeds from the sale of the securities for research and development of our products and for general working capital purposes.

We may set forth additional information on the use of net proceeds from the sale of securities we offer under this prospectus in a prospectus supplement relating to the specific offering. Pending the application of the net proceeds, we intend to invest the net proceeds in bank deposits or investment-grade and interest-bearing securities subject to any investment policies our management may determine from time to time.

THE SECURITIES WE MAY OFFER

The descriptions of the securities contained in this prospectus, together with any applicable prospectus supplement, summarize the material terms and provisions of the various types of securities that we may offer. We will describe in any applicable prospectus supplement relating to any securities the particular terms of the securities offered by that prospectus supplement. If we so indicate in any applicable prospectus supplement, the terms of the securities may differ from the terms we have summarized below. We may also include in any prospectus supplement information, where applicable, about material U.S. federal income tax consequences relating to the securities, and the securities exchange or market, if any, on which the securities will be listed.

We may sell from time to time, in one or more offerings, one or more of the following securities:

- common stock;
- warrants to purchase common stock; and
- units of the securities mentioned above.

The total initial offering amount of all securities that we may issue in these offerings will not exceed \$100,000,000.

DESCRIPTION OF CAPITAL STOCK

The following summary is a description of the material terms of our share capital. We encourage you to read our Certificate of Incorporation, as amended, and Bylaws which have been filed with the SEC, as well as the provisions of the Delaware General Corporation Law.

General

Our authorized capital stock currently consists of 227,791,050 shares of capital stock, par value \$0.0001 per share, of which all are designated as Class A common stock. The authorized and unissued shares of common stock are available for issuance without further action by our stockholders, unless such action is required by applicable law or the rules of any stock exchange on which our securities may be listed. Unless approval of our stockholders is so required, our board of directors does not intend to seek stockholder approval for the issuance and sale of our common stock.

Common Stock

The holders of our common stock are entitled to one vote per share. Our Certificate of Incorporation does not provide for cumulative voting. At each annual meeting of stockholders, directors elected to succeed those directors whose terms expire are elected for a term of office to expire at the succeeding annual meeting of stockholders after their election. The holders of our common stock are entitled to receive ratably such dividends, if any, as may be declared by our board of directors out of legally available funds; however, the current policy of our board of directors is to retain earnings, if any, for operations and growth. Upon liquidation, dissolution or winding-up, the holders of our common stock are entitled to share ratably in all assets that are legally available for distribution.

The transfer agent and registrar for our common stock is American Stock Transfer and Trust Company, LLC. Their address is 6201 15th Avenue, 2nd Floor, Brooklyn, NY 11219, telephone: (718) 921-8300, (800) 937-5449.

Meetings of Stockholders

An annual meeting of our stockholders shall be held on the day and at the time as may be set by our Board, at which the stockholders shall elect the board of directors and transact such other business as may properly be brought before the meeting. All annual meetings of stockholders are to be held at our registered office in the State of Delaware or at such other place as may be determined by our Board.

Special meetings of our stockholders may be called for any purpose or purposes, unless otherwise prescribed by statute, by our Board of Directors, the Chairman of the Board or the Chief Executive Officer, President or other executive officer of the Company, or at the request, in writing, of the stockholders of record, and only of record, owning not less than one-quarter of the entire capital stock of the Company issued and outstanding and entitled to vote. Business transacted at any special meeting of stockholders shall be confined to the purpose or purposes stated in the notice for such meeting.

Anti-Takeover Effect of Delaware Law, Certain Charter and Bylaw Provisions

We are subject to Section 203 of the Delaware General Corporation Law. Section 203 generally prohibits a public Delaware corporation from engaging in a "business combination" with an "interested stockholder" for a period of three years after the date of the transaction in which the person became an interested stockholder, unless:

- prior to the date of the transaction, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding (i) shares owned by persons who are directors and also officers and (ii) shares owned by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or subsequent to the date of the transaction, the business combination is approved by the board and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock which is not owned by the interested stockholder.

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Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;
- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with, or controlling, or controlled by, the entity or person. The term “owner” is broadly defined to include any person that, individually, with or through that person’s affiliates or associates, among other things, beneficially owns the stock, or has the right to acquire the stock, whether or not the right is immediately exercisable, under any agreement or understanding or upon the exercise of warrants or options or otherwise or has the right to vote the stock under any agreement or understanding, or has an agreement or understanding with the beneficial owner of the stock for the purpose of acquiring, holding, voting or disposing of the stock.

The restrictions in Section 203 do not apply to corporations that have elected, in the manner provided in Section 203, not to be subject to Section 203 of the Delaware General Corporation Law or, with certain exceptions, which do not have a class of voting stock that is listed on a national securities exchange or held of record by more than 2,000 stockholders. Our Certificate of Incorporation and bylaws do not opt out of Section 203.

Section 203 could delay or prohibit mergers or other takeover or change in control attempts with respect to us and, accordingly, may discourage attempts to acquire us even though such a transaction may offer our stockholders the opportunity to sell their stock at a price above the prevailing market price.

Certificate of Incorporation and Bylaws

Provisions of our Certificate of Incorporation and bylaws may delay or discourage transactions involving an actual or potential change in our control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our Certificate of Incorporation and bylaws:

- provide that the authorized number of directors shall be fixed from time to time by resolution adopted by a majority of the voting power of the then-outstanding shares of our capital stock then entitled to vote at an election of directors voting together as a single class;
- provide that all vacancies, including newly created directorships, may, except as otherwise required by law, be filled by a majority of the directors then in office, though less than a quorum, and the directors so chosen shall hold office until the next annual election and until their successors are duly elected and shall qualify. A vacancy created by the removal of a director by the stockholders may be filled by the stockholders;
- do not provide for cumulative voting rights (therefore allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose);
- provide that special meetings of our stockholders may be called by resolution of our board of directors, or by our Chief Executive Officer/President, or by the holders of not less than one-quarter of all of the shares entitled to vote at the meeting; and
- set forth an advance notice procedure with regard to the nomination, other than by or at the direction of our board of directors, of candidates for election as directors and with regard to business to be brought before a meeting of stockholders.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer and Trust Company, LLC. Their address is 6201 15th Avenue, 2nd Floor, Brooklyn, NY 11219, telephone: (718) 921-8300, (800) 937-5449.

Listing

Our common stock is listed on the Nasdaq Capital Market under the symbol “MRAI.”

DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in any applicable prospectus supplement, summarizes the material terms and provisions of the warrants that we may offer under this prospectus and the related warrant agreements and warrant certificates. While the terms summarized below will apply generally to any warrants that we may offer, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement. If we so indicate in a prospectus supplement, the terms of any warrants offered under that prospectus supplement may differ from the terms we describe below. Specific warrant agreements will contain additional important terms and provisions and will be incorporated by reference as an exhibit to the registration statement of which this prospectus forms a part.

General

We may issue warrants for the purchase of common stock in one or more series. We may issue warrants independently or together with common stock, and the warrants may be attached to or separate from the common stock.

We will evidence each series of warrants by warrant certificates that we will issue under a separate agreement or by warrant agreements that we will enter into directly with the purchasers of the warrants. If we evidence warrants by warrant certificates, we will enter into a warrant agreement with a warrant agent. We will indicate the name and address of the warrant agent, if any, in the applicable prospectus supplement relating to a particular series of warrants.

We will describe in the applicable prospectus supplement the terms of the series of warrants, including:

- the offering price and aggregate number of warrants offered;
- the currency for which the warrants may be purchased or exercised;
- if applicable, the terms of the common stock with which the warrants are issued and the number of warrants issued with such common stock;
- if applicable, the date on and after which the warrants and the related common stock will be separately transferable;
- the number of shares of common stock purchasable upon the exercise of one warrant and the price at which these shares may be purchased upon such exercise;
- the manner in which the warrants may be exercised, which may include by cashless exercise;
- the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreement and the warrants;
- the terms of any rights to redeem or call the warrants;
- any provisions for changes to or adjustments in the exercise price or number of shares of common stock issuable upon exercise of the warrants;
- the dates on which the right to exercise the warrants will commence and expire;
- the manner in which the warrant agreement and warrants may be modified;
- the material U.S. federal income tax consequences of holding or exercising the warrants;
- the terms of the common stock issuable upon exercise of the warrants; and
- any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Before exercising their warrants, holders of warrants will not have any of the rights of holders of the common stock purchasable upon such exercise, including the right to receive dividends, if any, or payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

Exercise of Warrants

Each warrant will entitle the holder to purchase the number of shares of common stock that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement. Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants at any time up to 5:00 P.M., Eastern U.S. time, on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Holders of the warrants may exercise the warrants by delivering to the warrant agent or us the warrant certificate or warrant agreement representing the warrants to be exercised together with specified information, and by paying the required amount to the warrant agent or us in immediately available funds, as provided in the applicable prospectus supplement. We will set forth on the reverse side of the warrant certificate or in the warrant agreement and in the applicable prospectus supplement the information that the holder of the warrant will be required to deliver to the warrant agent or us in connection with such exercise.

Upon receipt of the required payment and the warrant certificate or the warrant agreement, as applicable, properly completed and duly executed at the corporate trust office of the warrant agent, if any, at our offices or at any other office indicated in the applicable prospectus supplement, we will issue and deliver the common stock purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate or warrant agreement are exercised, then we will issue a new warrant certificate or warrant agreement for the remaining amount of warrants.

Enforceability of Rights by Holders of Warrants

If we appoint a warrant agent, any warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants.

No prospectus supplement will be delivered in connection with the issuance of these shares of common stock pursuant to the exercise of such warrants.

DESCRIPTION OF UNITS

We may issue, in one or more series, units consisting of common stock and warrants for the purchase of common stock. While the terms we have summarized below will apply generally to any units that we may offer under this prospectus, we will describe the particular terms of any series of units in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below.

We will file as exhibits to the registration statement of which this prospectus forms a part, or will incorporate by reference from reports that we file with the SEC, the form of unit agreement that describes the terms of the series of units we are offering, and any supplemental agreements, before the issuance of the related series of units. The following summary of material terms and provisions of the units is subject to, and qualified in its entirety by reference to, all the provisions of the unit agreement and any supplemental agreements applicable to a particular series of units. We urge you to read the applicable prospectus supplement related to the particular series of units that we may offer under this prospectus and the complete unit agreement and any supplemental agreements that contain the terms of the units.

Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units, including:

- the designation and terms of the units, including whether and under what circumstances the securities comprising the units may be held or transferred separately;
- any provisions of the governing unit agreement that differ from those described herein; and
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or the securities comprising the units.

The provisions described in this section, as well as those described under “*Description of Capital Stock*” and “*Description of Warrants*,” will apply to each unit and to any common stock or warrant included in each unit, respectively.

We may issue units in such amounts and in such distinct series as we determine.

PLAN OF DISTRIBUTION

We may sell the securities being offered hereby in one or more of the following ways from time to time:

- through agents to the public or to investors;
- to one or more underwriters for resale to the public or to investors;
- to the extent we are eligible, in “at the market offerings,” within the meaning of Rule 415(a)(4) of the Securities Act of 1933, as amended, or the Securities Act, to or through a market maker or into an existing trading market, on an exchange or otherwise;
- directly to investors in privately negotiated transactions;
- directly to a purchaser pursuant to what is known as an “equity line of credit” as described below; or
- through a combination of these methods of sale.

The securities that we distribute by any of these methods may be sold, in one or more transactions, at:

- a fixed price or prices, which may be changed;
- market prices prevailing at the time of sale;
- prices related to prevailing market prices;
- upon the exercise of warrants; or
- negotiated prices.

The accompanying prospectus supplement will describe the terms of the offering of our securities, including:

- the name or names of any agents or underwriters;
- any securities exchange or market on which the common stock may be listed;
- the purchase price and commission, if any, to be paid in connection with the sale of the securities being offered and the proceeds we will receive from the sale;
- any options pursuant to which underwriters may purchase additional securities from us;
- any underwriting discounts or agency fees and other items constituting underwriters’ or agents’ compensation;
- any public offering price; and
- any discounts or concessions allowed or reallocated or paid to dealers.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of the sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Subject to certain conditions, the underwriters will be obligated to purchase all the securities offered by the prospectus supplement. We may change from time to time the public offering price and any discounts or concessions allowed or reallocated or paid to dealers.

If we use a dealer in the sale of the securities being offered pursuant to this prospectus or any prospectus supplement, we will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. The names of the dealers and the terms of the transaction will be specified in a prospectus supplement.

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We may sell the securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, any agent will act on a best-efforts basis for the period of its appointment.

We may also sell securities pursuant to an “equity line of credit.” In such event, we will enter into a common stock purchase agreement with the purchaser to be named therein, which will be described in a Current Report on Form 8-K that we will file with the SEC. In that Form 8-K, we will describe the total amount of securities that we may require the purchaser to purchase under the purchase agreement and the other terms of purchase, and any rights that the purchaser is granted to purchase securities from us. In addition to our issuance of shares of common stock to the equity line purchaser pursuant to the purchase agreement, this prospectus (and the applicable prospectus supplement or post-effective amendment to the registration statement of which this prospectus forms a part) also covers the resale of those shares from time to time by the equity line purchaser to the public. The equity line purchaser will be considered an “underwriter” within the meaning of Section 2(a)(11) of the Securities Act. Its resales may be effected through a number of methods, including without limitation, ordinary brokerage transactions and transactions in which the broker solicits purchasers and block trades in which the broker or dealer so engaged will attempt to sell the shares as agent, but may position and resell a portion of the block as principal to facilitate the transaction. The equity line purchaser will be bound by various anti-manipulation rules of the SEC and may not, for example, engage in any stabilization activity in connection with its resales of our securities and may not bid for or purchase any of our securities or attempt to induce any person to purchase any of our securities other than as permitted under the Securities Exchange Act of 1934, as amended, or the Exchange Act.

We may sell our securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of our common stock, and we will describe any commissions we will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, our agent will act on a best-efforts basis for the period of its appointment.

We may provide underwriters and agents with indemnification against civil liabilities related to offerings pursuant to this prospectus, including liabilities under the Securities Act, or contribution with respect to payments that the underwriters or agents may make with respect to these liabilities. Underwriters and agents may engage in transactions with, or perform services for, us in the ordinary course of business. We will describe such relationships in the prospectus supplement naming the underwriter or agent and the nature of any such relationship.

Rules of the SEC may limit the ability of any underwriters to bid for or purchase securities before the distribution of the shares of common stock is completed. However, underwriters may engage in the following activities in accordance with the rules:

- *Stabilizing transactions* — Underwriters may make bids or purchases for the purpose of pegging, fixing or maintaining the price of the shares, so long as stabilizing bids do not exceed a specified maximum.
- *Options to purchase additional stock and syndicate covering transactions* — Underwriters may sell more shares of our common stock than the number of shares that they have committed to purchase in any underwritten offering. This creates a short position for the underwriters. This short position may involve either “covered” short sales or “naked” short sales. Covered short sales are short sales made in an amount not greater than the underwriters’ option to purchase additional shares in any underwritten offering. The underwriters may close out any covered short position either by exercising their option or by purchasing shares in the open market. To determine how they will close the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market, as compared to the price at which they may purchase shares through their option. Naked short sales are short sales in excess of the option. The underwriters must close out any naked position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that, in the open market after pricing, there may be downward pressure on the price of the shares that could adversely affect investors who purchase shares in the offering.
- *Penalty bids* — If underwriters purchase shares in the open market in a stabilizing transaction or syndicate covering transaction, they may reclaim a selling concession from other underwriters and selling group members who sold those shares as part of the offering.

Similar to other purchase transactions, an underwriter’s purchases to cover the syndicate short sales or to stabilize the market price of our common stock may have the effect of raising or maintaining the market price of our common stock or preventing or mitigating a decline in the market price of our common stock. As a result, the price of the shares of our common stock may be higher than the price that might otherwise exist in the open market. The imposition of a penalty bid might also have an effect on the price of shares if it discourages resales of the shares.

If commenced, the underwriters may discontinue any of these activities at any time.

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Our common stock is traded on Nasdaq. One or more underwriters may make a market in our common stock, but the underwriters will not be obligated to do so and may discontinue market making at any time without notice. We cannot give any assurance as to liquidity of the trading market for our common stock.

Any underwriters who are qualified market makers on Nasdaq may engage in passive market making transactions in that market in the common stock in accordance with Rule 103 of Regulation M, during the business day prior to the pricing of the offering, before the commencement of offers or sales of the common stock. Passive market makers must comply with applicable volume and price limitations and must be identified as passive market makers. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for such security; if all independent bids are lowered below the passive market maker's bid, however, the passive market maker's bid must then be lowered when certain purchase limits are exceeded.

LEGAL MATTERS

Sullivan & Worcester LLP, New York, New York, passed upon the validity of the securities offered hereby.

EXPERTS

The consolidated financial statements of Marpai, Inc. as of December 31, 2021 and 2020, and for each of the years in the two-year period ended December 31, 2021, incorporated by reference in this prospectus have been audited by UHY LLP, independent registered public accounting firm, as set forth in their report thereon, appearing elsewhere herein, and are included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We are filing a registration statement on Form S-3 under the Securities Act with the SEC with respect to the shares of our common stock, warrants and units offered through this prospectus. This prospectus is filed as a part of that registration statement and does not contain all of the information contained in the registration statement and exhibits. We refer you to our registration statement and each exhibit attached to it for a more complete description of matters involving us, and the statements we have made in this prospectus are qualified in their entirety by reference to these additional materials.

We are subject to the reporting and information requirements of the Exchange Act and as a result file periodic reports and other information with the SEC. You can review our SEC filings and the registration statement by accessing the SEC's internet site at <http://www.sec.gov>. We maintain a corporate website at <https://www.marpaihealth.com>. Information contained on, or that can be accessed through, our website does not constitute a part of this prospectus. We have included our website address in this prospectus solely as an inactive textual reference.

INCORPORATION OF DOCUMENTS BY REFERENCE

We are “incorporating by reference” certain documents we file with the SEC, which means that we can disclose important information to you by referring you to those documents. The information in the documents incorporated by reference is considered to be part of this prospectus. Statements contained in documents that we file with the SEC and that are incorporated by reference in this prospectus will automatically update and supersede information contained in this prospectus, including information in previously filed documents or reports that have been incorporated by reference in this prospectus, to the extent the new information differs from or is inconsistent with the old information.

We have filed the following documents with the SEC. These documents are incorporated herein by reference as of their respective dates of filing:

- (1) Our Annual Report on [Form 10-K](#) for the fiscal year ended December 31, 2021, as filed with the SEC on March 30, 2022;
- (2) Our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2022, June 30, 2022 and September 30, 2022, filed with the SEC on [May 11, 2022](#), [August 15, 2022](#) and [November 9, 2022](#), respectively;
- (3) Our Current Reports on Form 8-K, as filed with the SEC on [January 24, 2022](#), [February 22, 2022](#), [March 18, 2022](#), [March 31, 2022](#), [April 7, 2022](#), [May 11, 2022](#), [May 13, 2022](#), [May 31, 2022](#), [August 4, 2022](#), [August 9, 2022](#), [August 9, 2022](#), [August 10, 2022](#), [August 25, 2022](#), [October 14, 2022](#), [November 1, 2022](#) (as amended by our Report on Form 8-K/A filed on [January 10, 2023](#)), [November 9, 2022](#), [December 22, 2022](#), and [January 13, 2023](#); and
- (4) The description of our Common Stock contained in our Annual Report on [Form 10-K](#) for the fiscal year ended December 31, 2021, as filed with the SEC on March 30, 2022, including any amendments and reports filed for the purpose of updating such description.

All documents filed by us pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act (1) after the date of the filing of the registration statement of which this prospectus forms a part and prior to its effectiveness and (2) until all of the securities to which this prospectus relates has been sold or the offering is otherwise terminated, except in each case for information contained in any such filing where we indicate that such information is being furnished and is not to be considered “filed” under the Exchange Act, will be deemed to be incorporated by reference in this prospectus and any accompanying prospectus supplement and to be a part hereof from the date of filing of such documents.

We will provide a copy of the documents we incorporate by reference, at no cost, to any person who receives this prospectus. To request a copy of any or all of these documents, you should write or telephone us at 5701 East Hillsborough Ave., Suite 1417, Tampa, Florida 33610, Attention: Yoram Bibring, (646) 303-3483.

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION.

The following is a statement of approximate expenses to be incurred by Marpai, Inc., or the Company, we, us or our, in connection with the distribution of the securities registered under this registration statement:

	<u>Amount</u>
Registration fee under Securities Act of 1933	\$ 11,020
Legal fees and expenses	\$ 20,000
Accountant's fees and expenses	\$ 15,000
Miscellaneous fees and expenses	\$ 1,000
Total	<u>\$ 47,020</u>

ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

Section 145 of the Delaware General Corporation Law (which we refer to as the DGCL) provides, in general, that a corporation incorporated under the laws of the State of Delaware, as we are, may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than a derivative action by or in the right of the corporation) by reason of the fact that such person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the corporation and, with respect to any criminal action or proceeding, had no reasonable cause to believe such person's conduct was unlawful. In the case of a derivative action, a Delaware corporation may indemnify any such person against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification will be made in respect of any claim, issue or matter as to which such person will have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery of the State of Delaware or any other court in which such action was brought determines such person is fairly and reasonably entitled to indemnity for such expenses.

Our certificate of incorporation and bylaws provide that we will indemnify our directors, officers, employees and agents to the extent and in the manner permitted by the provisions of the DGCL, as amended from time to time, subject to any permissible expansion or limitation of such indemnification, as may be set forth in any stockholders' or directors' resolution or by contract. In addition, our director and officer indemnification agreements with each of our directors and officers provide, among other things, for the indemnification to the fullest extent permitted or required by Delaware law, provided that no indemnitee will be entitled to indemnification in connection with any claim initiated by the indemnitee against us or our directors or officers unless we join or consent to the initiation of the claim, or the purchase and sale of securities by the indemnitee in violation of Section 16(b) of the Exchange Act.

Any repeal or modification of these provisions approved by our stockholders will be prospective only and will not adversely affect any limitation on the liability of any of our directors or officers existing as of the time of such repeal or modification.

We are also permitted to apply for insurance on behalf of any director, officer, employee or other agent for liability arising out of his actions, whether or not the DGCL would permit indemnification.

ITEM 16. EXHIBITS.

The exhibits filed with this registration statement are set forth on the "Exhibit Index" set forth elsewhere herein.

ITEM 17. UNDERTAKINGS.

The undersigned registrant hereby undertakes:

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(A) (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement. *Provided, however*, that paragraphs (i), (ii) and (iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Securities and Exchange Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act to any purchaser:

(i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(5) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

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(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(B) That, for the purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(C) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in New York, New York on the 20th day of January, 2023.

MARPAL, INC.

By: /s/ Edmundo Gonzalez
Name: Edmundo Gonzalez
Title: Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned officers and directors of Marpai, Inc., a Delaware corporation, do hereby constitute and appoint Edmundo Gonzalez and Yoram Bibring, and each of them, as his or her true and lawful attorney-in-fact and agent, with full power of substitution and re-substitution, for him and in his name, place, and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments, exhibits thereto and other documents in connection therewith) to this Registration Statement and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>Person</u>	<u>Capacity</u>	<u>Date</u>
<u>/s/ Edmundo Gonzalez</u> Edmundo Gonzalez	Chief Executive Officer, Secretary and Director (Principal Executive Officer)	January 20, 2023
<u>/s/ Yoram Bibring</u> Yoram Bibring	Chief Financial Officer (Principal Financial and Accounting Officer)	January 20, 2023
<u>/s/ Yaron Eitan</u> Yaron Eitan	Chairman of the Board of Directors	January 20, 2023
<u>/s/ Damien Lamendola</u> Damien Lamendola	Director	January 20, 2023
<u>/s/ Gonen Antebi</u> Gonen Antebi	Director	January 20, 2023
<u>/s/ Mohsen Moazami</u> Mohsen Moazami	Director	January 20, 2023
<u>/s/ Vincent Kane</u> Vincent Kane	Director	January 20, 2023
<u>/s/ Colleen DiClaudio</u> Colleen DiClaudio	Director	January 20, 2023

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EXHIBIT INDEX

<u>Exhibit No.</u>	<u>Description</u>
1.1**	Form of equity Underwriting Agreement in connection with the offering of any securities.
3.1	Second Amended and Restated Certificate of Incorporation of the Registrant, dated July 8, 2021 (incorporated by reference to Exhibit 3.5 to registration statement on Form S-1 filed on October 25, 2021).
3.2	Amendment to Second Amended and Restated Certificate of Incorporation of the Registrant, dated September 2, 2021 (incorporated by reference to Exhibit 3.6 to registration statement on Form S-1 filed on October 25, 2021).
3.2	Bylaws of the Registrant (incorporated by reference to Exhibit 3.3 to registration statement on Form S-1 filed on October 25, 2021).
4.4**	Form of Warrant Agreement, including form of Warrant.
5.1*	Opinion of Sullivan & Worcester LLP
23.1*	Consent of UHY, LLP
23.2*	Consent of Sullivan & Worcester LLP (included in Exhibit 5.1)
24.1*	Power of Attorney (included on the signature page hereto)
107*	Calculation of Filing Fee Table.

* Filed herewith.

** To be filed by amendment or incorporated by reference in connection with the offering of any securities, as appropriate.



Sullivan & Worcester LLP
1633 Broadway
New York, NY 10019

212 660 3000
sullivanlaw.com

January 20, 2023

Marpai, Inc.
5701 East Hillsborough Ave., Suite 1417
Tampa, Florida 33610
Re: Registration Statement on Form S-3

Ladies and Gentlemen:

This opinion is furnished to you in connection with a Registration Statement on Form S-3 (the "Registration Statement") being filed by Marpai, Inc., a Delaware corporation (the "Company"), with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), relating to the registration of the sale from time to time of up to \$100,000,000 aggregate maximum offering price of: (i) shares of shares of Common Stock, \$0.0001 par value per share of the Company (the "Shares"); (ii) warrants to purchase Shares (the "Warrants"), and with the Shares, the "Securities"; and (iii) units of two or more of the Securities (the "Units"), all of which may be issued from time to time on a delayed or continuous basis pursuant to Rule 415 under the Securities Act.

We are acting as counsel for the Company in connection with the Registration Statement. We have examined signed copies of the Registration Statement and have also examined and relied upon minutes of meetings of the Board of Directors of the Company as provided to us by the Company, the Certificate of Incorporation and By-Laws of the Company, each as restated and/or amended to date (collectively the "Charter Documents"), and such other documents as we have deemed necessary for purposes of rendering the opinions hereinafter set forth.

In our examination of the foregoing documents, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as copies, the authenticity of the originals of such latter documents and the legal competence of all signatories to such documents. Other than our examination of the documents indicated above, we have made no other examination in connection with this opinion.

The opinions rendered herein are limited to the Delaware General Corporation Law and the federal laws of the United States.

Based upon and subject to the foregoing, we are of the opinion that:

(1) With respect to the Shares, when (i) specifically authorized for issuance by the Company's Board of Directors or an authorized committee thereof (the "Authorizing Resolutions"); (ii) the Registration Statement has become effective under the Securities Act; (iii) if necessary, an appropriate prospectus supplement with respect to the Shares has been prepared, filed and delivered in compliance with the Securities Act and the applicable rules promulgated thereunder; (iv) the terms of the sale of the Shares have been duly established in conformity with the Charter Documents and do not violate any applicable law or result in a default under or breach of any agreement or instrument binding on the Company and comply with any requirement or restriction imposed by any court or governmental body having jurisdiction over the Company; (v) the Shares have been issued and sold as contemplated by the Registration Statement and any prospectus supplement, if applicable; and (vi) the Company has received the consideration provided for in the Authorizing Resolutions and such consideration is not less than the par value of the Shares, the Shares will be validly issued, fully paid and nonassessable.

BOSTON LONDON NEW YORK TEL AVIV WASHINGTON, DC

(2) With respect to the Warrants, when (i) specifically authorized for issuance by the Authorizing Resolutions; (ii) the Registration Statement has become effective under the Securities Act; (iii) the warrant agreement or agreements relating to the Warrants have been duly authorized, executed and delivered; (iv) the terms of the Warrants and of their issuance and sale have been duly established in conformity with the warrant agreement or agreements and do not violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and comply with any requirement or restriction imposed by any court or governmental body having jurisdiction over the Company; (v) the Warrants have been duly executed and countersigned in accordance with the warrant agreement or agreements and issued and sold as contemplated by the Registration Statement; and (vi) the Company has received the consideration (if any separate consideration is given for the Warrants) provided for in the Authorizing Resolutions, the Warrants will constitute valid and legally binding obligations of the Company, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and to general equity principles.

(3) With respect to the Units, when (i) at the time of execution, issuance and delivery of the Units and any agreement related thereto will have been duly authorized, executed and delivered by the Company and the other parties to such agreement and will be the valid and legally binding obligation of the parties thereto, enforceable against such parties in accordance with its terms; and (ii) all necessary conditions and actions with respect to the Securities of which the Units are comprised shall have been duly met or taken, as provided for in (1) and (2) above, as applicable, the Units will be validly issued, fully paid and nonassessable.

The opinions set forth herein are rendered as of the date hereof, and we assume no obligation to update such opinions to reflect any facts or circumstances which may hereafter come to our attention or any changes in the law which may hereafter occur (which may have retroactive effect).

This opinion is rendered to you in connection with the filing of the Registration Statement. This opinion may not be relied upon for any other purpose, or furnished to, quoted or relied upon by any other person, firm or corporation for any purpose, without our prior written consent, except that (A) this opinion may be furnished or quoted to judicial or regulatory authorities having jurisdiction over you, and (B) this opinion may be relied upon by purchasers and holders of the Securities currently entitled to rely on it pursuant to applicable provisions of federal securities law.

We hereby consent to the filing of this opinion as Exhibit 5.1 to the Registration Statement and to the reference to this firm under the caption "Legal Matters" in the Registration Statement. In giving such consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission.

Very truly yours,

/s/ Sullivan & Worcester LLP

Sullivan & Worcester LLP



CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Registration Statement of Marpai, Inc. on FormS-3 of our report dated March 30, 2022 with respect to the consolidated financial statements of Marpai, Inc. and subsidiaries (the "Company"), appearing in the Annual Report on Form 10-K of the Company as of December 31, 2021 and 2020 and for the years then ended. We also consent to the reference of our firm under the heading "Experts" in the Prospectus, which is part of this Registration Statement.

UHY LLP

Melville, NY
January 20, 2023

An Independent Member of Urbach Hacker Young International

Calculation of Filing Fee Tables

FORM S-3
(Form Type)

Marpai, Inc.

(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered and Carry Forward Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
Fees to Be Paid	Equity	Common Stock, \$0.0001 par value per share	457(o)	—	—	—	—	—
Fees to Be Paid	Other	Warrants	457(o)	—	—	—	—	—
Fees to Be Paid	Other	Units	457(o)	—	—	—	—	—
Fees to Be Paid	Unallocated (Universal) Shelf	—	457(o)	(1)	(2)	\$100,000,000	\$110.20 per \$1,000,000	\$11,020.00
Fees Previously Paid	—	—	—	—	—	—	—	—
	Total Offering Amounts			(1)		\$100,000,000		\$11,020.00
	Total Fees Previously Paid							\$0.00
	Total Fee Offsets							\$0.00
	Net Fee Due							\$11,020.00

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- (1) There is being registered hereunder an unspecified number of shares of (a) common stock, (b) warrants to purchase common stock, and (c) units, consisting of some or all of these securities in any combination, as may be sold from time to time by the Registrant. Any securities registered hereunder may be sold separately or as units with other securities registered hereunder. There is also being registered hereunder an unspecified number of shares of common stock, as shall be issuable upon conversion, exchange or exercise of any securities that provide for such issuance. In no event will the aggregate offering price of all types of securities issued by the Registrant pursuant to this registration statement exceed \$100,000,000. Pursuant to Rule 416(a) under the Securities Act of 1933, as amended, this registration statement also covers any additional securities that may be offered or issued in connection with any stock split, stock dividend or similar transaction.
 - (2) The proposed maximum aggregate offering price per class of security will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of security pursuant to Instruction 2.A.iii.b. to the Calculation of Filing Fee Tables and Related Disclosure on Item 16(b) of Form S-3 under the Securities Act.
 - (3) Estimated solely to calculate the registration fee in accordance with Rule 457(o) under the Securities Act. The aggregate maximum offering price of all securities issued pursuant to this registration statement will not exceed \$100,000,000.