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## (12) United States Patent

## Reardan et al.

### (54) SENSITIVE DRUG DISTRIBUTION SYSTEM AND METHOD

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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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#### (65) **Prior Publication Data**

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#### **Related U.S. Application Data**

- (63) Continuation of application No. 10/322,348, filed on Dec. 17, 2002, now Pat. No. 7,668,730.
- (51) **Int. Cl.**
- **G06Q 10/00** (2006.01)
- (52) U.S. Cl. ..... 705/2; 705/3; 600/300
- (58) Field of Classification Search ...... 705/2, 705/3; 600/300

See application file for complete search history.

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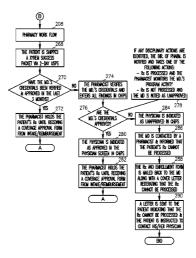
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#### (57) ABSTRACT

A drug distribution system and method utilizes a central pharmacy and database to track all prescriptions for a sensitive drug. Information is kept in the database regarding all physicians allowed to prescribe the sensitive drug, and all patients receiving the drug. Abuses are identified by monitoring data in the database for prescription patterns by physicians and prescriptions obtained by patients. Further verification is made that the physician is eligible to prescribe the drug by consulting a separate database, and optionally whether any actions are taken against the physician. Multiple controls beyond those for normal drugs are imposed on the distribution depending on the sensitivity of the drug.

#### 16 Claims, 16 Drawing Sheets



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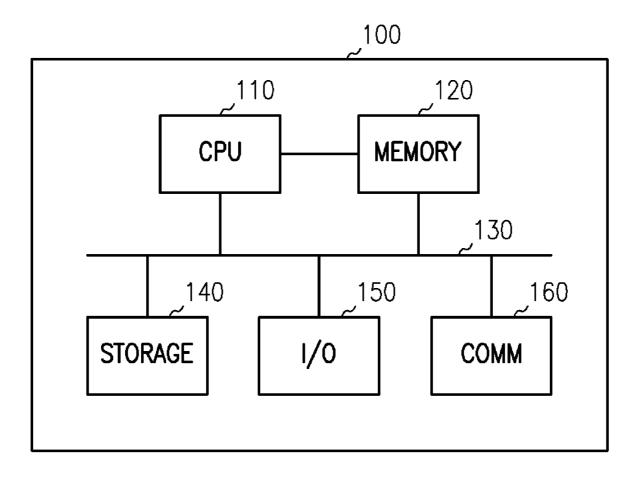
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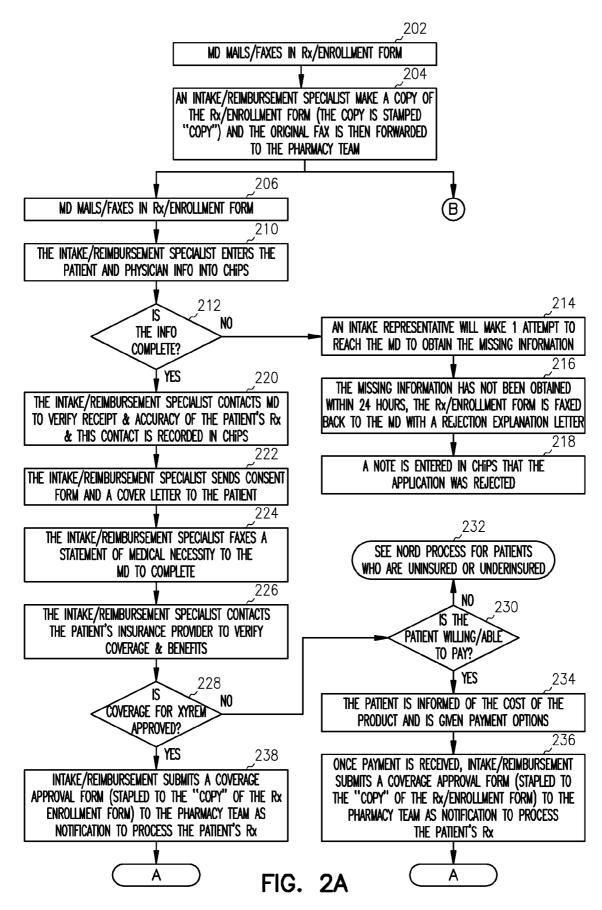
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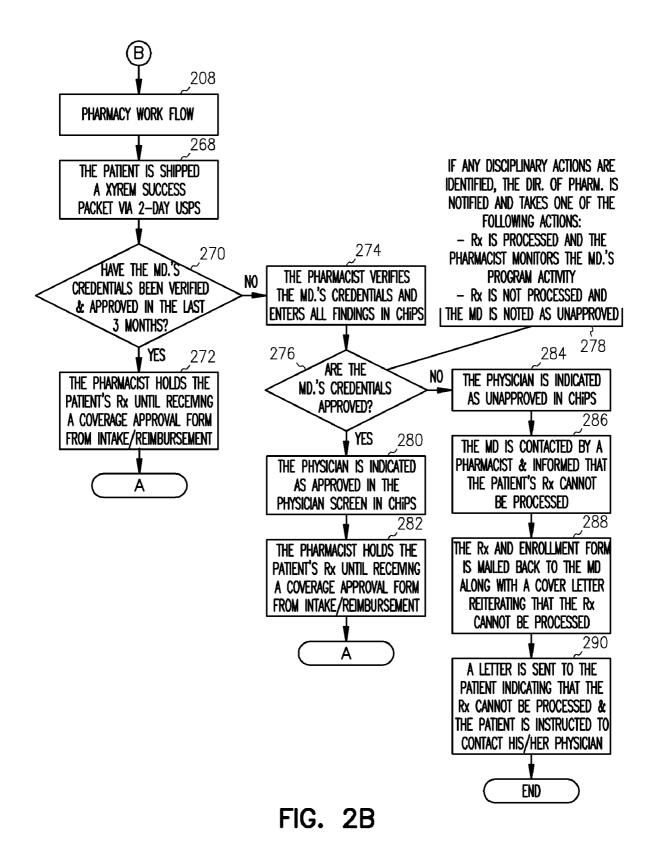
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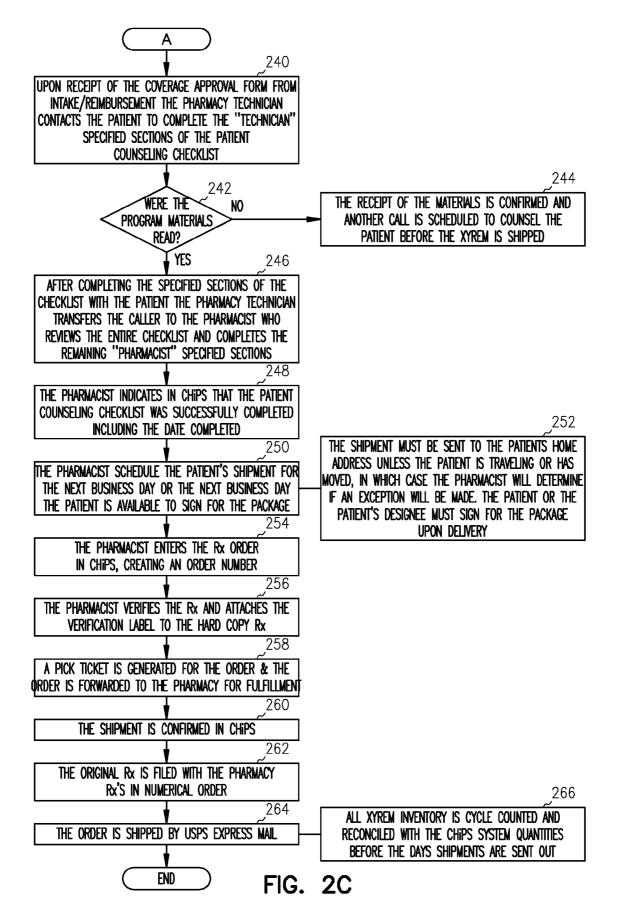
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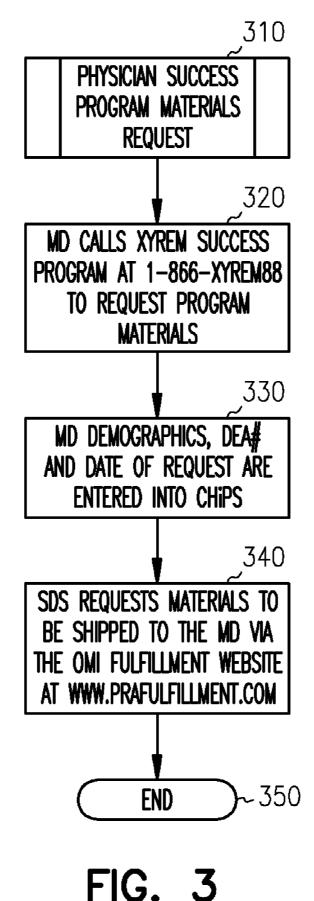
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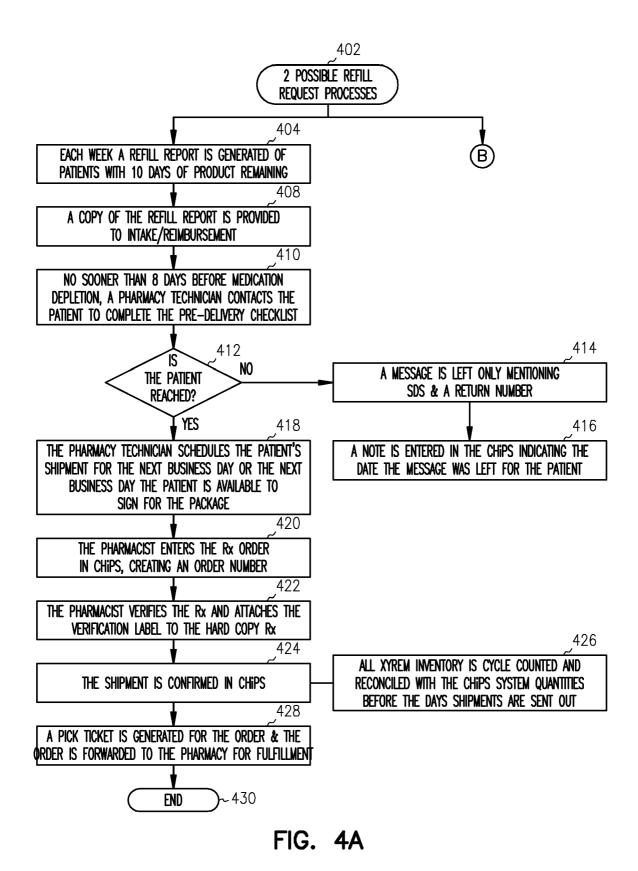


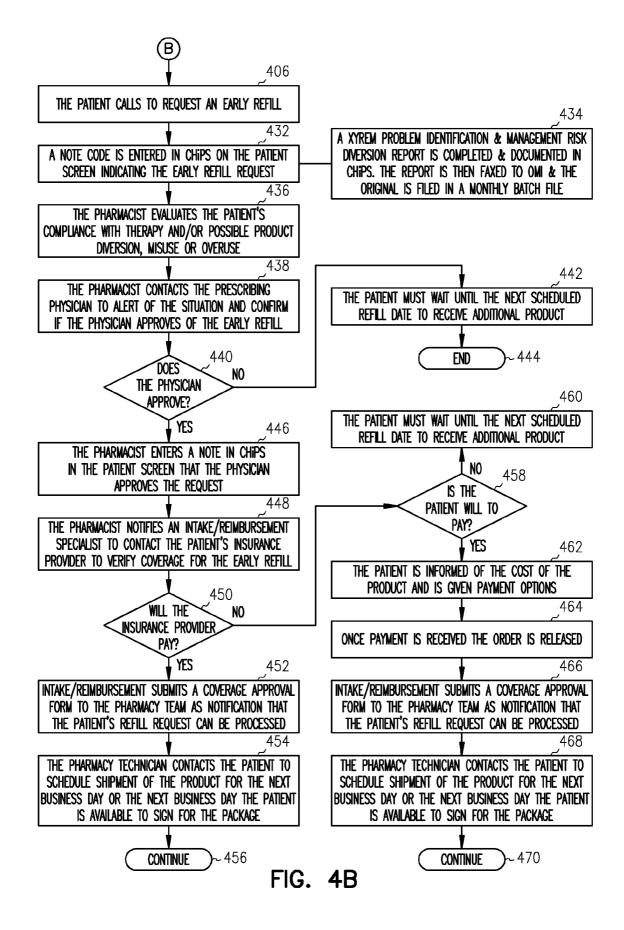


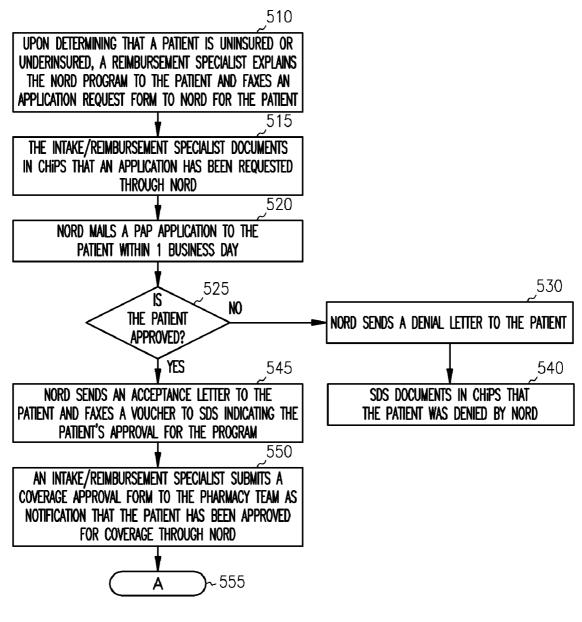




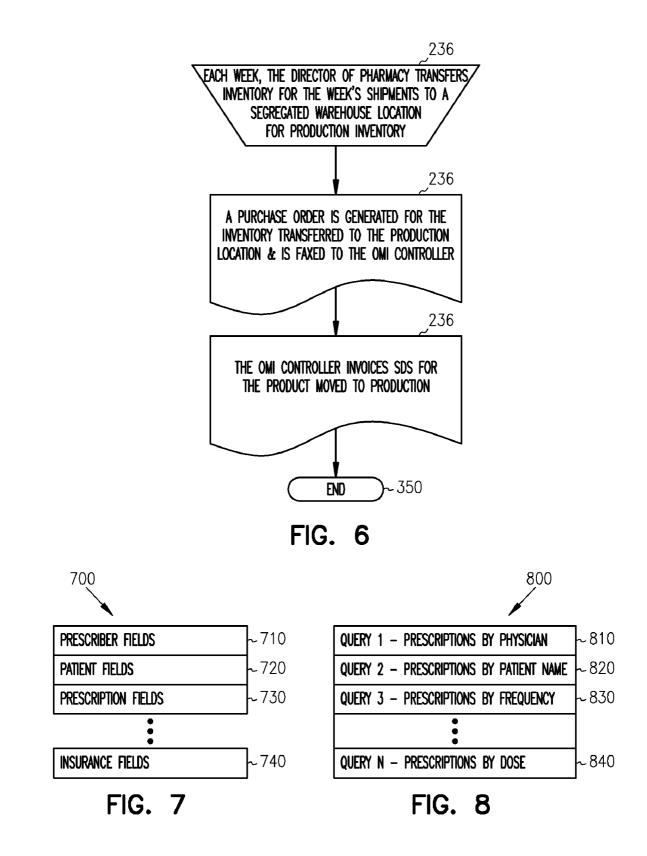












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PRESCRIPTION AND ENROLLMENT FORM

PRESCRIBER INFORMATION				
PRESCRIBER'S NAME:	OFFICE CONTACT:			
STREET ADDRESS:				
CITY:	STATE:	ZIP:		
PHONE:	FAX:			
LICENSE NUMBER:	DEA NUMBER:			
MD SPECIALTY:				

PRESCRIPTION FORM				
Patient name:	SS#:	DOB:	SEX M / F	
ADDRESS:	-		-	
CITY:	STATE:	ZIP:		
Rx: XYREM ORAL SOLUTION (500 mg/mL) 180 MI. E	NOTTLE QUANTITY:	MONTHS SUPPLY		
SIG: TAKE GMS P.O. DILUTED IN 60 mL WATER	r at h.s. and the	IN AGAIN 2 1/2 TO 4 HOURS LATE	R	
REFILLS (CIRCLE ONE): 0 1 2 (MAXIMUM OF 3	Month Supply)	·		
	DATE:	_//		
PRESCRIBER'S SIGNATURE				
Physician declaration-please check each box	TO BE COM	PLETED AT INITIAL PRESCRIPTION ON	LY	
I HAVE READ THE MATERIALS IN THE XYREM PHYSICIAN SUCCESS PROGRAM				
I VERIFY THAT THE PATIENT HAS BEEN EDUCATED WITH RESPECT TO XYREM PREPARATION, DOSING AND SCHEDULING.				
I UNDERSTAND THAT XYREM IS APPROVED FOR THE TREATMENT OF CATAPLEXY IN PATIENTS WITH NARCOLEPSY,				
AND THAT SAFETY OR EFFICACY HAS NOT BEE	en established f	)r any other indication.		
I UNDERSTAND THAT THE SAFETY OF DOSES (	GREATER THAN 9gr	n/DAY HAS NOT BEEN ESTABLISHED		

PATIENT	INFORMATION			
BEST TIME TO CONTACT PATIENT:  DAY DAY INGHT DAY #:	evening #:			
INSURANCE COMPANY NAME:	Phone #: Relationship to patient:			
IDENTIFICATION NUMBER: PRESCRIPTION CARD: NO YES IF YES, CARRIER: _				
PLEASE ATTACH COPIES OF PATIENT'S INSURANCE CARDS				

FAX COMPLETED FORM TO XYREM SUCCESS PROGRAM (TOLL-FREE) 1-866-470-1744 FOR INFORMATION, CALL THE XYREM TEAM (TOLL FREE) AT 1-866-XYREM88 (1-866-997-3688)

1	000

# PATIENT ASSISTANCE APPLICATION REQUEST FORM

- DATE:
- PATIENT ASSISTANCE ORGANIZATION TO: FROM: SDS
- FAX #: 203-798-2291

PLEASE SEND A XYREM PATIENT ASSISTANCE PROGRAM APPLICATION TO:

PATIENT NAME	

ADDRESS
---------

TELEPHONE: (	)	

PATIENT DOSAGE: \_\_\_\_\_ (GRAMS) TWICE NIGHTLY FOR A TOTAL DOSAGE OF \_\_\_\_\_ (GRAMS) \_\_\_\_\_ Bottles (three months supply)

BACKGROUND INFORMATION:

U.S. Patent

	RUG PATIEN DUCHER REQUE		SISTANCE PROGRAM
PATIENT INFORMATION <first name=""><last name=""> <address 1=""> <address 2=""> <city, code="" state="" zip=""></city,></address></address></last></first>			<u>Physician information</u> <physician name=""> <address 1=""> <address 2=""> <city, code="" state="" zip=""></city,></address></address></physician>
<u>PHONE:</u> <123-456-7890 <u>DOB:</u> 01/01/1900 <u>SSN:</u> 123-45-6789 <u>DRUG ALLOTMENT:</u> 100% <u>LRD:</u> 03/01/2001	<u>Case cod</u>	) <u>E:</u> *******	<u>Phone:</u> <123-456-7890 First shipment this year
DRUG XYREEM 180ml btl	QUANTI 1	ſY	
Validation date: Expiration date: Issue date:	03/01/2001 05/31/2001 03/15/2001		***PHARMACY USE***
APPROVED			
		d copy	*****
~~~~~~~~~~~~~~~~~~		CH HERE)	• • • • • • • • • • • • • • • • • • • •
PATIENT INFORMATION <first name=""><last name=""> <address 1=""> <address 2=""> <city, code="" state="" zip=""></city,></address></address></last></first>			<u>Physician information</u> <physician name=""> <address 1=""> <address 2=""> <city, code="" state="" zip=""></city,></address></address></physician>
<u>PHONE:</u> <123-456-7890			<u>Phone:</u> <123-456-7890
<u>DOB:</u> 01/01/1900 <u>SSN:</u> 123-45-6789 <u>DRUG ALLOTMENT:</u> 100% <u>LRD:</u> 03/01/2001	<u>CASE COD</u>	) <u>E:</u> *******	FIRST SHIPMENT THIS YEAR
DRUG XYREM 180ml btl	quanti 1	ſY	
Validation date: Expiration date: ISSUE date: Approved	03/01/2001 05/31/2001 03/15/2001		***PHARMACY USE***



# SENSITIVE DRUG PHYSICIAN'S CERTIFICATE OF MEDICAL NEED

PATIENT INFORMATION			
DATE:			
NAME:	FIRST		M
DATE OF BIRTH:			m
DRUG BEING PRESCRIBED:	XYREM		
DIAGNOSIS/CONDITION FOR WHICH	DRUG IS BEING PRESCRIBED:		
ICD-9:	_		
PHYSICIAN INFORMATION			
Physician's name (please print)	):		
Physician's signature:		DATE:	
please fax back to se	NSITIVE DRUG SUCCESS PROGR	AM: (1-800-TOLL FREE	e number)

	REPORT FREQUENCY		
	WEEKLY	MONTHLY	QUARTERLY
SALES	•		
Rx BY ZIP (NEW AND TOTAL)	Х	X	X
Rx BY PHYSICIAN BY ZIP	X	Х	
\$ BY ZIP	Х	Х	Х
REGULATORY			
# OF PHYSICIAN REGISTRIES		Х	
# OF DENIED PHYSICIAN REGISTRIES AND REASON		Х	
# OF COMPLETED PATIENT REGISTRIES		Х	
# OF PROBLEM IDENTIFICATION & MANAGEMENT RISK DIVERSION REPORTS COMPLETED	Х		
# OF CYCLE COUNTS PERFORMED & ACCURACY OF EACH		Х	
QUALITY ASSURANCE			
# OF PRODUCT DEFECTS/COMPLAINTS REPORTED, TYPE AND LOT #		Х	
CALL CENTER			
# OF CALLS RECEIVED		Х	
# OF CALLS INITIATED		Х	
# OF CALLS ANSWERED IN 30 SECONDS, ETC.		Х	
PERCENTAGE OF CALLS ANSWERED IN 30 SECONDS		Х	
# OF ABANDONED CALLS		Х	
% OF ABANDONED CALLS		Х	
AVERAGE CALL LENGTH		Х	
PHARMACY			
# OF FAXED Rx/ENROLLMENT FORMS		Х	
# OF MAILED Rx/ENROLLEMENT FORMS		Х	
# OF RxS SHIPPED W/IN 1, 2, 3, 4 ETC. DAYS (FROM THE TIME INITIAL RECEIPT TO SHIPMENT OF Rx)		Х	
# OF PATIENT SUCCESS PACKETS SHIPPED		Х	

## ACTIVITY REPORTS

FIG. 13A

ACTIV	/ITY	RFP	ORTS

PHARMACY	X	
# OF PHYSICIAN SUCCESS PACKETS SHIPPED	X	
# OF COMPLETED SHIPMENTS	X	
# OF INCOMPLETE SHIPMENTS AND REASON	X	
# OF SHIPPING ERRORS	X	
# OF PAP SHIPMENTS	X	
# OF PAP APPLICATIONS	X	
# OF PAP APPROVALS	Х	
# OF CANCELED ORDERS	X	
# OF USPS ERRORS	X	
INVENTORY	Х	
# OF RETURNED PRODUCTS AND REASON	X	
# OF OUTDATED BOTTLES OF PRODUCT	X	
INVENTORY COUNTS OF CONSIGNMENT & PRODUCTION INVENTORY	X	
# OF UNITS RECEIVED	X	
LOTS RECEIVED	X	
REIMBURSEMENT	Х	
# OF PENDED AND WHY	X	
# OF APPROVALS	Х	
# OF DENIALS	X	
# OF REJECTIONS	Х	
PAYOR TYPES	Х	

FIG. 13B

PATIENT CARE	Х	
# OF ADVERSE EVENTS REPORTED AND TYPE	Х	
# OF ADVERSE EVENTS SENT TO OMI	X	
# OF DOSING PROBLEMS AND TYPE	X	
# OF NONCOMPLIANCE EPISODES AND REASON	Х	
# OF PATIENT COUNSELED AND REASON	X	
# OF PATIENTS DISCONTINUED AND REASON	Х	
PATIENT CARE	Х	
# OF PATIENTS REFERRED TO PHYSICIAN AND REASON	Х	
# OF ACTIVE PATIENTS	Х	
# OF NEW PATIENTS	Х	
# OF RESTART PATIENTS	Х	
# OF DISCONTINUED PATIENTS AND REASON	X	
DRUG INFORMATION	Х	
# OF DRUG INFORMATION REQUESTS AND TYPE	Х	
# OF CALLS TRIAGED TO OMI	Х	

# ACTIVITY REPORTS

FIG. 13C

#### SENSITIVE DRUG DISTRIBUTION SYSTEM AND METHOD

#### RELATED APPLICATION

This application is a continuation of U.S. Serial application Ser. No. 10/322,348, filed on Dec. 17, 2002, which is incorporated by reference herein in its entirety.

#### FIELD OF THE INVENTION

The present invention relates to distribution of drugs, and in particular to the distribution of sensitive drugs.

#### BACKGROUND OF THE INVENTION

Sensitive drugs are controlled to minimize risk and ensure that they are not abused, or cause adverse reactions. Such sensitive drugs are approved for specific uses by the Food and Drug Administration, and must be prescribed by a licensed <sup>20</sup> physician in order to be purchased by consumers. Some drugs, such as cocaine and other common street drugs are the object of abuse and illegal schemes to distribute for profit. Some schemes include Dr. shopping, diversion, and pharmacy thefts. A locked cabinet or safe is a requirement for <sup>25</sup> distribution of some drugs.

Certain agents, such as gamma hydroxy buterate (GHB) are also abused, yet also are effective for therapeutic purposes such as treatment of daytime cataplexy in patients with narcolepsy. Some patients however, will obtain prescriptions from multiple doctors, and have them filled at different pharmacies. Still further, an unscrupulous physician may actually write multiple prescriptions for a patient, or multiple patients, who use cash to pay for the drugs. These patients will then sell the drug to dealers or others for profit.

There is a need for a distribution system and method that directly addresses these abuses. There is a further need for such a system and method that provides education and limits the potential for such abuse.

#### SUMMARY OF THE INVENTION

A drug distribution system and method utilizes a central pharmacy and database to track all prescriptions for a sensitive drug. Information is kept in a central database regarding all physicians allowed to prescribe the sensitive drug, and all patients receiving the drug. Abuses are identified by monitoring data in the database for prescription patterns by physicians and prescriptions obtained by patients. Further verification is made that the physician is eligible to prescribe the drug by consulting a separate database for a valid DEA license, and optionally state medical boards to determine whether any corrective or approved disciplinary actions relating to controlled substances have been brought against the physician. Multiple controls beyond those for traditional drugs are imposed on the distribution depending on the sensitivity of the drug.

Education is provided to both physician and patient. Prior to shipping the drug for the first time, the patient is contacted <sup>60</sup> to ensure that product and abuse related educational materials have been received and/or read. The patient may provide the name of a designee to the central pharmacy who is authorized to accept shipment of the drug. Receipt of the initial drug shipment is confirmed by contacting the patient. Either a <sup>65</sup> phone call or other communication to the patient within a set time after delivery may be made to ensure receipt. Further, a

courier service's tracking system is used to confirm delivery in further embodiments. If a shipment is lost, an investigation is launched to find it.

In one embodiment, the drug may be shipped by the central pharmacy to another pharmacy for patient pick-up. The second pharmacy's ability to protect against diversion before shipping the drug must be confirmed. This ability may be checked through NTIS and State Boards of Pharmacy.

Prescription refills are permitted in the number specified in the original prescription. In addition, if a prescription refill is requested by the patient prior to the anticipated due date, such refills will be questioned. A lost, stolen, destroyed or spilled prescription/supply is documented and replaced to the extent necessary to honor the prescription, and will also cause a to review or full investigation.

The exclusive central database contains all relevant data related to distribution of the drug and process of distributing it, including patient, physician and prescription information. Several queries and reports are run against the database to provide information which might reveal potential abuse of the sensitive drug, such as early refills.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a block diagram of a computer system for use in implementing the system and method of the present invention.

FIGS. 2A, 2B and 2C are a flowchart describing a method for sensitive drug distribution at least partially utilizing a computer system such as that shown in FIG. 1.

FIG. **3** is a flowchart of a physician success program at least partially implemented on a computer system such as that shown in FIG. **1**.

FIGS. **4**A and **4**B are a flowchart describing a method for 35 handling refill requests at least partially utilizing a computer system such as that shown in FIG. **1**.

FIG. **5** is a flowchart of a process for requesting special reimbursement when a patient is uninsured or underinsured at least partially utilizing a computer system as that shown in 40 FIG. **1**.

FIG. 6 is a flowchart of a process for inventory control at least partially utilizing a computer system such as that shown in FIG. 1.

FIG. 7 is a block diagram of database fields.

FIG. 8 is a block diagram showing a list of queries against the database fields.

FIG. 9 is a copy of one example prescription and enrollment form.

FIG. **10** is a copy of one example of a NORD application request form for patient financial assistance.

FIG. **11** is a copy of one example voucher request for medication for use with the NORD application request form of FIG. **10**.

FIG. 12 is a copy of certificate of medical need.

FIGS. **13**A, **13**B and **13**C are descriptions of sample reports obtained by querying a central database having fields represented in FIG. **7**.

#### DETAILED DESCRIPTION OF THE INVENTION

In the following description, reference is made to the accompanying drawings that form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that other embodiments may be utilized and that structural, logical and electrical changes may be made without departing from the scope of the present invention. The following description is, therefore, not to be taken in a limited sense, and the scope of the present invention is defined by the appended claims.

The functions or algorithms described herein are imple-5 mented in software or a combination of software and human implemented procedures in one embodiment. The software comprises computer executable instructions stored on computer readable media such as memory or other type of storage devices. The term "computer readable media" is also used to 10 represent carrier waves on which the software is transmitted. Further, such functions correspond to modules, which are software, hardware, firmware of any combination thereof. Multiple functions are performed in one or more modules as desired, and the embodiments described are merely 15 examples. The software is executed on a digital signal processor, ASIC, microprocessor, or other type of processor operating on a computer system, such as a personal computer, server or other computer system.

A sensitive drug is one which can be abused, or has addic- 20 tion properties or other properties that render the drug sensitive. One example of such a drug is sodium oxybate, also known as gamma hydroxy butyrate ( $GHBC_4H_7NaO_3$ ) which is useful for treatment of cataplexy in patients with narcolepsy. GHB is marketed under the trademark of Xyrem® 25 (sodium oxybate oral solution), which trademark can be used interchangeably with GHB herein. Sensitive drugs also include narcotics or other drugs which require controls on their distribution and use to monitor behaviors to prevent abuse and adverse side effects. 30

In one embodiment, Xyrem® is subject to a restricted distribution program. One aspect of the program is to educate physicians and patients about the risks and benefits of Xyrem, including support via ongoing contact with patients and a toll free helpline. Initial prescriptions are filled only after a pre-35 scriber and patient have received and read the educational materials. Further, patient and prescribing physician registries are maintained and monitored to ensure proper distribution.

In a further embodiment, bulk sodium oxybate is manufac-40 tured at a single site, as is the finished drug product. Following manufacture of the drug product, it is stored at a facility compliant with FDA Schedule III regulations, where a consignment inventory is maintained. The inventory is owned by a company, and is managed by a central pharmacy, which 45 maintains the consignment inventory. Xyrem® is distributed and dispensed through a primary and exclusive central pharmacy, and is not stocked in retail pharmacy outlets. It is distributed by overnight carriers, or by US mail in one embodiment to potentially invoke mail fraud laws if attempts 50 of abuse occur.

FIG. 1 is a simplified block diagram of a computer system 100, such as a personal computer for implementing at least a portion of the methods described herein. A central processing unit (CPU) 110 executes computer programs stored on a 55 memory 120. Memory 120 in one embodiment comprises one or more levels of cache as desired to speed execution of the program and access to data on which the programs operate. The CPU is directly coupled to memory 120 in one embodiment. Both CPU 110 and memory 120 are coupled to a bus 60 130. A storage 140, I/O 150 and communications 160 are also coupled to the bus 130. Storage 140 is usually a long term storage device, such as a disk drive, tape drive, DVD, CD or other type of storage device. In one embodiment, storage 140 is used to house a database for use with the present invention. 65 I/O 150 comprises keyboards, sound devices, displays and other mechanisms by which a user interacts with the com4

puter system **100**. Communications **160** comprises a network, phone connection, local area network, wide area network or other mechanism for communicating with external devices. Such external devices comprise servers, other peer computers and other devices. In one embodiment, such external device comprises a database server that is used in place of the database on storage **140**. Other computer system architectures capable of executing software and interacting with a database and users may also be used. Appropriate security measures such as encryption are used to ensure confidentiality. Further, data integrity and backup measures are also used to prevent data loss.

FIGS. 2A, 2B and 2C represent an initial prescription order entry process for a sensitive drug, such as Xyrem. At 202, a medical doctor (MD) sends a Rx/enrollment form via mail, fax, email or other means to an intake/reimbursement specialist at 204, who makes a copy of the RX/enrollment form that is stamped "copy". The original fax is forwarded to a pharmacy team. The enrollment form contains prescriber information, prescription information, checkboxes for the prescriber indicating they have read materials, educated the patient, understand the use in treatment, and understand certain safety information, and also contains patient information.

The prescriber information contains standard contact information as well as license number, DEA number and physician specialty. Patient and prescription information includes name, social security number, date of birth, gender, contact information, drug identification, patient's appropriate dosage, and number of refills allowed, along with a line for the prescriber's signature. Patient insurance information is also provided.

There are two workflows involved at the pharmacy team, intake reimbursement **206** and pharmacy workflow **208**, which may proceed in parallel or serially. The intake work flow **206** starts with an intake reimbursement specialist entering the patient and physician information into an application/ database referred to as CHIPS, which is used to maintain a record of a client home infusion program (CHIP) for Xyrem<sup>®</sup>. A check is made to ensure the information is complete at **212**. If not, at **214**, an intake representative attempts to reach the MD or prescriber to obtain the missing information. If the missing information has not been obtained within a predetermined period of time, such as 24 hours at **216**, the Rx/Enrollment form is sent back to the MD with a rejection explanation. A note is entered in CHIPS that the application was rejected.

If the information is complete at **212**, the MD is contacted at **220** to verify receipt and accuracy of the patient's Rx. This contact is recorded in CHIPS. The intake and reimbursement specialist then sends a consent form and a cover letter to the patient at **224**. The insurance provider is contacted at **226** to verify coverage and benefits. At **228**, a determination is made regarding coverage for the drug. If it is not available, it is determined at **230** whether the patient is willing and able to pay. If not, a process is performed for handling patients who are uninsured or underinsured. In one embodiment, the process is referred to as a NORD process.

If the patient is willing and able to pay at **230**, the patient is informed of the cost of the product and is given payment options at **234**. At **236**, once payment is received, the intake reimbursement specialist submits a coverage approval form with the enrollment form to the pharmacy team as notification to process the patient's prescription. If coverage is approved at **228**, the intake reimbursement specialist also submits the coverage approval form with the enrollment form to the pharmacy team as notification to process the patient's prescription. Processing of the prescription is described below.

Upon receipt and initial processing of the prescription enrollment form and sending an original to the pharmacy work flow block **208**, the patient is shipped a Xyrem® success packet via mail. In one embodiment, the Xyrem® success packet contains educational material for a patient that advises 5 of the proper use, care and handling of the drug and consequences of diversion at **268**. The medical doctor's credentials are checked to determine if the physician has a current DEA license to prescribe controlled substances and if he or she has had any actions related to misuse/misprescribing of con- 10 trolled drugs against him or her, within a predetermined time, such as three months at **270**. If they have, a pharmacist holds the prescription until receiving a coverage approval form from the intake reimbursement specialist at **272**.

If the credentials have not been recently checked, the phar-<sup>15</sup> macist verifies the credentials and enters all findings in the database at **274**. If the credentials are approved at **276**, the physician is indicated as approved in a physician screen populated by information from the database at **280**. The prescription is then held pending coverage approval at **282**.<sup>20</sup>

If any disciplinary actions are identified, as referenced at block **278**, management of the pharmacy is notified and either approves processing of the prescription with continued monitoring of the physician, or processing of the prescription is not performed, and the physician is noted in the database as <sup>25</sup> unapproved at **284**. The enrollment form is then mailed back to the physician with a cover letter reiterating that the prescription cannot be processed at **288**. The patient is also sent a letter at **290** indicating that the prescription cannot be processed and the patient is instructed to contact their physician. <sup>30</sup>

Actual filling of the approved prescription begins with receipt of the coverage approval form as indicated at **240**. The patient is contacted by the pharmacy, such as by a technician to complete a technician section of a patient counseling checklist. If a pharmacist verifies that the program materials were not read at **242**, the receipt of the material is confirmed at **244** and another call is scheduled to counsel the patient before the drug is shipped.

If the program materials, were read at **242**, the checklist is completed at **246** and the technician transfers the patient to the pharmacist who reviews the entire checklist and completes remaining pharmacist specified sections. At **248**, the pharmacists indicates in the database that the patient counseling and checklist was successfully completed, indicating the date completed.

At **250**, the pharmacist schedules the patient's shipment for the next business day or the next business day that the patient or designee is able to sign for the package. Further, as indicated at **252**, the shipment must be sent to the patient's home address unless the patient is traveling or has moved. In that event, the pharmacist may determine that an exception may be made. The patient or the patient's designee who is at least 18 years old, must sign for the package upon delivery.

At **254**, the pharmacist enters the prescription order in the 55 database, creating an order number. The pharmacist then verifies at **256** the prescription and attaches a verification label to the hard copy prescription. At **258**, a pick ticket is generated for the order and the order is forwarded to the pharmacy for fulfillment. The shipment is confirmed in the 60 database at **260**, and the order is shipped by USPS Express Mail. Use of the US mail invokes certain criminal penalties for unauthorized diversion. Optionally, other mail services may be used. Potential changes in the law may also bring criminal penalties into play. Following shipment, the patient 65 is called by the central pharmacy to confirm that the prescription was received.

As noted at **266**, for the sensitive drug, Xyrem, all inventory is cycle counted and reconciled with the database system quantities before shipments for the day are sent. This provides a very precise control of the inventory.

A physician success program materials request process begins at **310** in FIG. **3**. At **320**, the MD calls to the central pharmacy to request program materials. A special phone number is provided. MD demographics, DEA number, and data or request are entered into the database at **330**. At **340**, a request is made to ship the materials to the MD via a fulfillment website, or other mechanism. The request process ends at **350**.

A refill request process begins at **302** in FIGS. **4**A and **4**B. There are two different paths for refills. A first path beginning at **404** involves generating a report from the central database of patients with a predetermined number of days or product remaining. A second path beginning at **406** is followed when a patient calls to request an early refill.

In the first path, a copy of the report is provided to an intake 20 reimbursement specialist at **408**. No sooner than 8 days before the medication depletion, a pharmacy technician contacts the patient at **410** to complete the pre-delivery checklist. At **412**, if the patient is not reached, a message is left mentioning the depletion, and a return number at **414**. A note is 25 also entered into the database indicating the date the message was left at **416**.

If the patient is reached at **412**, the next shipment is scheduled at **418**, the prescription is entered into the database creating an order at **420**, the pharmacist verifies the prescription and attaches a verification label at **422** and the shipment is confirmed in the database at **424**. Note at **426** that the inventory is cycle counted and reconciled with the database quantities before the shipments for a day or other time period are sent. A pick ticket is generated for the order and the order is forwarded for fulfillment at **428**, with the first path ending at **430**.

The second path, beginning at **406** results in a note code being entered into the database on a patient screen indicating an early refill request at **432**. The pharmacist evaluates the patient's compliance with therapy or possible product diversion, misuse or over-use at **436**. In one embodiment, cash payers are also identified. The pharmacist then contacts the prescribing physician to alert them of the situation and confirm if the physician approves of the early refill at **438**. If the physician does not approve as indicated at **440**, the patient must wait until the next scheduled refill date to receive additional product as indicated at **442**, and the process ends at **444**.

If the physician approves at **440**, the pharmacist enters a note in the database on a patient screen that the physician approves the request at **446**. The pharmacist notifies an intake reimbursement specialist to contact the patient's insurance provider to verify coverage for the early refill at **448**. If the insurance provider will pay as determined at **450**, the specialist submits the coverage approval form as notification that the refill may be processed at **452**. At **454**, the pharmacy technician contacts the patient to schedule shipment of the product for the next business day, and the process of filling the order is continued at **456** by following the process beginning at **240**.

If the insurance provider will not pay at **450**, it is determined whether the patient is willing and/or able to pay at **458**. If not, the patient must wait until the next scheduled refill date to receive additional product at **460**. If it was determined at **458** that the patient was willing and able to pay, the patient is informed of the cost of the product and is given payment options at **462**. Once payment is received as indicated at **464**, the specialist submits a coverage approval form to the pharmacy team as notification that the refill request can be pro-

cessed at **466**. At **468**, the pharmacy technician contacts the patient to schedule shipment. The process of filling the order is continued at **470** by following the process beginning at **240**.

A process, referred to as a NORD process in one embodiment is used to determine whether donated, third party funds <sup>5</sup> are available for paying for prescriptions where neither insurance will, nor the patient can pay. The process begins at **510** upon determining that a patient is uninsured or underinsured. A reimbursement specialist explains the NORD program to the patient and faxes an application request form to NORD for <sup>10</sup> the patient. At **515**, the intake reimbursement specialist documents in the database that an application has been received through NORD. At **520**, NORD mails an application to the patient within one business day.

A determination is made at **525** by NORD whether the patient is approved. If not, at **530**, NORD sends a denial letter to the patient, and it is documented in the database at **540** that the patient was denied by NORD. If the patient is approved, NORD sends an acceptance letter to the patient and faxes a voucher to the central pharmacy (SDS in one embodiment) to indicate the approval at **545**. At **550**, an intake reimbursement specialist submits a coverage approval form to the pharmacy team as notification that the patient has been approved for coverage. The process of filling the order is continued at **555** by following the process beginning at **240**.

An inventory control process is illustrated in FIG. **6** beginning at **610**. Each week, a responsible person at the central pharmacy, such as the director of the pharmacy transfers inventory for the week's shipments to a segregated warehouse location for production inventory. At **620**, a purchase order is generated for the inventory transferred to the production location and is sent, such as by fax, to a controller, such as the controller of the company that obtained approval for distribution and use of the sensitive drug. At **630**, the controller invoices the central pharmacy for the product moved to production. The process ends at **640**.

The central database described above is a relational database running on the system of FIG. **1**, or a server based system having a similar architecture coupled to workstations via a network, as represented by communications **160**. The database is likely stored in storage **140**, and contains multiple fields of information as indicated at **700** in FIG. **7**. The organization and groupings of the fields are shown in one format for convenience. It is recognized that many different organizations or schemas may be utilized. In one embodiment, the groups of fields comprise prescriber fields **710**, patient fields **720**, prescription fields **730** and insurance fields **740**. For purposes of illustration, all the entries described with respect to the above processes are included in the fields. In further embodiments, no such groupings are made, and the data is organized in a different manner.

Several queries are illustrated at 800 in FIG. 8. There may be many other queries as required by individual state reporting requirements. A first query at 810 is used to identify 55 prescriptions written by physician. The queries may be written in structured query language, natural query languages or in any other manner compatible with the database. A second query 820 is used to pull information from the database related to prescriptions by patient name. A third query 830 is 60 used to determine prescriptions by frequency, and a nth query finds prescriptions by dose at 840. Using query languages combined with the depth of data in the central database allows many other methods of investigating for potential abuse of the drugs. The central database ensures that all prescriptions, 65 prescribers and patients are tracked and subject to such investigations. In further embodiments, the central database may

be distributed among multiple computers provided a query operates over all data relating to such prescriptions, prescribers and patients for the drug.

An example of one prescription and enrollment form is shown at **900** in FIG. **9**. As previously indicated, several fields are included for prescriber information, prescription information and patient information.

FIG. **10** is a copy of one example NORD application request form **1000** used to request that an application be sent to a patient for financial assistance.

FIG. 11 is a copy of one example application 1100 for financial assistance as requested by form 1000. The form requires both patient and physician information. Social security number information is also requested. The form provides information for approving the financial assistance and for tracking assistance provided.

FIG. **12** is a copy of one example voucher request for medication for use with the NORD application request form of FIG. **10**. In addition to patient and physician information, prescription information and diagnosis information is also provided.

FIGS. **13A**, **13B** and **13C** are descriptions of sample reports obtained by querying a central database having fields represented in FIG. **7**. The activities grouped by sales, regulatory, quality assurance, call center, pharmacy, inventory, reimbursement, patient care and drug information. Each report has an associated frequency or frequencies. The reports are obtained by running queries against the database, with the queries written in one of many query languages.

While the invention has been described with respect to a Schedule III drug, it is useful for other sensitive drugs that are DEA or Federally scheduled drugs in Schedule II-V, as well as still other sensitive drugs where multiple controls are desired for distribution and use.

#### The invention claimed is:

**1**. A computerized method of distributing a prescription drug under exclusive control of an exclusive central pharmacy, the method comprising:

- receiving in a computer processor all prescription requests, for any and all patients being prescribed the prescription drug, only at the exclusive central pharmacy from any and all medical doctors allowed to prescribe the prescription drug, the prescription requests containing information identifying patients, the prescription drug, and various credentials of the any and all medical doctors;
- requiring entering of the information into an exclusive computer database associated with the exclusive central pharmacy for analysis of potential abuse situations, such that all prescriptions for the prescription drug are processed only by the exclusive central pharmacy using only the exclusive computer database;
- checking with the computer processor the credentials of the any and all doctors to determine the eligibility of the doctors to prescribe the prescription drug;
- confirming with a patient that educational material has been received and/or read prior to shipping the prescription drug;
- checking the exclusive computer database for potential abuse of the prescription drug;
- mailing or sending by courier the prescription drug to the patient only if no potential abuse is found by the patient to whom the prescription drug is prescribed and the doctor prescribing the prescription drug;
- confirming receipt by the patient of the prescription drug; and

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generating with the computer processor periodic reports via the exclusive computer database to evaluate potential diversion patterns.

**2**. The method of claim **1**, wherein the exclusive central pharmacy controls the exclusive computer database.

**3**. The method of claim **1**, comprising selectively blocking shipment of the prescription drug to a patient.

4. The method of claim 1, wherein an abuse pattern is associated with a patient, and shipment is blocked upon such association.

**5**. The method of claim **1**, wherein the prescription drug comprises gamma hydroxy butyrate (GHB).

**6**. A computerized method of distributing a prescription drug under control of an exclusive central pharmacy, the method comprising: 15

- receiving in a computer processor prescription requests, for any and all patients being prescribed the prescription drug, only at the central pharmacy from any and all authorized prescribers allowed to prescribed the prescription drug, the prescription requests containing 20 information identifying patients, the prescription drug, and various credentials of the any and all authorized prescribers;
- entering the information into an exclusive computer database under exclusive control of the central pharmacy for 25 analysis of potential abuse situations, wherein the use of the exclusive computer database is required for distribution of the prescription drug, such that all prescriptions for the prescription drug are processed only by the exclusive central pharmacy using only the exclusive computer 30 database;
- checking with the computer processor the credentials of the any and all authorized prescribers to determine the eligibility of the prescribers to prescribe the prescription drug;
- confirming with a patient that educational material has been received and/or read prior to providing the prescription drug to the patient;
- requiring checking of the exclusive computer database for potential abuse associated with the patient and the 40 authorized prescriber;
- providing the prescription drug to the patient only provided information in the exclusive computer database is not indicative of potential abuse by the patient to whom the prescription drug is prescribed and the authorized pre- 45 scriber of the prescription drug;
- confirming receipt by the patient of the prescription drug; and
- generating with the computer processor periodic reports via the exclusive computer database to evaluate potential 50 diversion patterns.

7. The computerized method of claim **6**, wherein providing the prescription drug to the patient comprises the central pharmacy authorizing the prescription drug to be dispensed to the patient by another pharmacy. 55

**8**. The computerized method of claim **7**, wherein the another pharmacy places controls on the distribution of the prescription drug, the controls selected from the group consisting of confirming with the patient that the educational material has been received and/or read by the patient, confirming receipt of the prescription drug by the patient, contacting the patient's insurance company, questioning early refill requests by the patient, flagging repeat instances of lost, stolen, destroyed or spilled prescriptions, flagging that the patient paid cash for the prescription drug, and limiting the prescription to a supply of limited duration.

**9**. A computerized method of distributing gamma hydroxy butyrate (GHB) under control of an exclusive central pharmacy, the method comprising:

- receiving in a computer processor prescription requests for GHB, for any and all patients being prescribed GHB, only at the central pharmacy from any and all authorized prescribers allowed to prescribe GHB, the prescription requests for GHB containing information identifying patients and various credentials of the any and all authorized prescribers;
- entering the information into an exclusive computer database under exclusive control of the central pharmacy for analysis of potential abuse situations, wherein the use of the exclusive computer database is required for distribution of GHB, such that all prescriptions for GHB are processed only by the exclusive central pharmacy using only the exclusive computer database;
- checking with the computer processor the credentials of the any and all authorized prescribers to determine the eligibility of the prescribers to prescribe GHB;
- confirming with the patient that GHB educational material has been received and/or read prior to providing GHB to the patient a first time;
- requiring checking of the exclusive computer database for potential GHB abuse associated with the patient;
- providing GHB to the patient only provided information in the exclusive computer database is not indicative of potential abuse by the patient to whom GHB is prescribed and the authorized prescriber of the GHB;
- confirming receipt by the patient of the GHB; and
- generating with the computer processor periodic reports via the exclusive computer database to evaluate potential GHB diversion patterns.

**10**. The computerized method of claim **9**, wherein providing GHB to the patient comprises the central pharmacy authorizing the prescription drug to be dispensed to the patient by another pharmacy.

11. The computerized method of claim 10, wherein the another pharmacy places controls on the distribution of GHB, the controls selected from the group consisting of confirming with the patient that the educational material has been received and/or read by the patient, confirming receipt of GHB by the patient, contacting the patient's insurance company, questioning early refill requests by the patient, flagging repeat instances of lost, stolen, destroyed or spilled prescriptions, flagging that the patient paid cash for GHB, flagging early requests to refill the GHB, and limiting the prescription to a supply of limited duration.

**12**. A computerized method of distributing gamma hydroxy butyrate (GHB) under control of an exclusive central pharmacy, the method comprising:

- receiving in a computer processor prescription requests for GHB, for any and all patients being prescribed GHB, only at the central pharmacy from any and all authorized prescribers allowed to prescribe GHB, the prescription requests containing information identifying patients and various credentials of the any and all authorized prescribers;
- entering the information into an exclusive computer database under exclusive control of the central pharmacy for analysis of potential abuse situations, wherein the use of the exclusive computer database is required for distribution of GHB, such that all prescriptions for GHB are processed only by the exclusive central pharmacy using only the exclusive computer database;

- checking with the computer processor the credentials of the any and all authorized prescribers to determine the eligibility of the prescribers to prescribe GHB;
- confirming with the patient that GHB educational material has been received and/or read prior to providing GHB to 5 the patient a first time;
- requiring checking of the exclusive computer database for potential GHB abuse associated with the patient;
- mailing or sending by courier GHB to the patient only provided information in the exclusive computer data-10 base is not indicative of potential abuse by the patient to whom GHB is prescribed and the authorized prescriber of the GHB;
- confirming receipt by the patient of the GHB; and
- generating with the computer processor periodic reports 15 via the exclusive computer database to evaluate potential GHB diversion patterns.

13. A computerized method of distributing gamma hydroxy butyrate (GHB) under control of an exclusive central pharmacy, the method comprising: 20

manufacturing GHB;

- providing manufactured GHB only to the exclusive central pharmacy;
- receiving in a computer processor all prescription requests for GHB, for any and all patients being prescribed GHB, 25 only at the central pharmacy from any and all authorized prescribers allowed to prescribe GHB, the prescription requests containing information identifying patients and various credentials of the any and all authorized prescribers: 30
- entering the information into an exclusive computer database under exclusive control of the central pharmacy for analysis of potential abuse situations, wherein the use of the exclusive computer database is required for distribution of GHB, such that all prescriptions for GHB are 35 processed only by the exclusive central pharmacy using only the exclusive computer database;
- checking with the computer processor the credentials of the any and all authorized prescribers to determine the eligibility of the prescribers to prescribe GHB; 40
- confirming with the patient that GHB educational material has been received and/or read prior to providing GHB to the patient a first time;
- requiring checking of the exclusive computer database for potential GHB abuse associated with the patient;
- mailing or sending by courier GHB to the patient only provided information in the exclusive computer database is not indicative of potential abuse by the patient to whom GHB is prescribed and the doctor prescribing the GHB:

confirming receipt by the patient of the GHB; and

generating with the computer processor periodic reports via the exclusive computer database to evaluate potential GHB diversion patterns.

14. A computerized method of distributing a prescription drug under control of an exclusive central pharmacy, the method comprising:

- receiving in a computer processor all prescription requests, for any and all patients being prescribed the prescription drug, only at the central pharmacy from any and all authorized prescribers allowed to prescribed the prescription drug, the prescription requests containing information identifying patients, the prescription drug, and various credentials of the any and all authorized prescribers;
- entering the information into an exclusive computer database under exclusive control of the central pharmacy for analysis of potential abuse situations, wherein the use of the exclusive computer database is required for distribution of the prescription drug, such that all prescriptions for the prescription drug are processed only by the exclusive central pharmacy using only the exclusive computer database:
- checking with the computer processor the credentials of the any and all authorized prescribers to determine the eligibility of the prescribers to prescribe the prescription drug:
- confirming with the patient that educational material has been received and/or read prior to providing the prescription drug to the patient;
- requiring checking of the exclusive computer database for potential abuse by the patient to whom the prescription drug is prescribed and the authorized prescriber allowed to prescribe the prescription drug;
- providing the prescription drug to the patient only provided information in the exclusive computer database is not indicative of potential abuse by the patient to whom the prescription drug is prescribed and the authorized prescriber allowed to prescribe the prescription drug; and confirming receipt by the patient of the prescription drug.

15. The computerized method of claim 14, wherein providing the prescription drug to the patient comprises the central pharmacy authorizing the prescription drug to be dispensed to the patient by another pharmacy.

16. The computerized method of claim 15, wherein the another pharmacy places controls on the distribution of the prescription drug, the controls selected from the group consisting of confirming with the patient that the educational 45 material has been received and/or read by the patient, confirming receipt of the prescription drug by the patient, contacting the patient's insurance company, questioning early refill requests by the patient, flagging repeat instances of lost, stolen, destroyed or spilled prescriptions, flagging that the patient paid cash for the prescription drug, flagging early requests to refill the prescription drug, and limiting the prescription to a supply of limited duration.