

IC-168

DIGITAL BOOK



User's Manual

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Introduction to the HADI

This handbook offers a quick guide to possible adverse effects of drug interactions, with brief recommendations for precautionary measures. References are given to original reports that provide more complete discussions of each interaction.

This book— lists adverse drug interactions, their mechanisms, and recommendations for clinical management. These listings are usually based on clinical reports.

Reports of interactions between more than two drugs are appearing in the medical literature with increasing frequency. Where these have been documented, they are noted as comments under interacting pairs of drugs. Interactions listed for groups of drugs (such as "cephalosporins" or "antidepressants, tricyclic") may not have been reported for every drug in the group; known exceptions to the interaction are noted.

It is not possible to determine the frequency of most interactions. When an interaction is documented by one or two case reports rather than by clinical studies or reports in many patients, the year of each report is given as some indication of frequency.

Omissions—New adverse interactions are continually being reported; the absence of a listing in this digital book does not necessarily mean that drugs will not interact when given concurrently. Drugs for which we have no documented interactions in people are usually not listed; interactions extrapolated from animal studies or interactions reported with related drugs, frequently mentioned in other sources, such as the manufacturer's package insert, may therefore not be included here.

Interactions between general anesthetics and drugs likely to be administered during surgery, such as autonomic drugs and

Introduction to the HADI

local anesthetics, are not included here. Interactions useful in therapy, such as increased plasma concentration of penicillin with concurrent use of probenecid, are also not included.

Common additive effects, such as occur with use of two antihypertensive agents or two central nervous system depressants, are generally not listed. Effects expected from the mechanism of a drug's action, such as that of potassium on digitalis glycosides or calcium on calcium-entry blockers, and useful antagonist effects, such as that between a poison and an antidote, are also not included. Most interactions of drugs with foods, beverages, or other nutrients are not listed, but foods interacting with monoamine oxidase inhibitors are included.

Mechanisms of Interaction—Genetic differences can affect drug metabolism and interactions. Drugs can interact by changing the metabolism of other drugs, either through inhibition or induction of any of several hepatic enzyme activities or through alterations in hepatic blood flow; by altering the binding of other drugs to plasma proteins or tissue receptors; by altering the distribution of drugs to active receptor sites; by delaying or enhancing excretion; or by causing additive or synergistic effects.

Recommendations—Monitoring is most important when one of the interacting drugs is stopped or started. Some experienced clinicians may prefer to monitor the patient's clinical status rather than follow serum concentrations of drugs. Concurrent use of drugs from the same group, e.g., aspirin and other NSAIDS, should be avoided.

Overview of Operation

▶ What this HADI Can Do

The Medical Letter® Handbook of Adverse Drug Interactions is a powerful reference. Using this digital book, you can. . .

- find brand name drugs, generic drugs, drug groups, and food groups,
- · correct drug name misspellings,
- find foods that interact with MAO inhibitors,
- select up to 20 drugs and view a list of their interactions,
- select a single drug and view a list of the drugs with which it interacts,
- read descriptions and references about drug interactions, and
- look up drugs and words in related digital books.

Read this User's Manual to learn how.

Overview of Operation

How this HADI Works

The *Handbook* is easy to use. Here are the basics:

Highlight the HADI symbol and press ENTER.

 At the main drug list, type a drug name.
 Then press (ENTER). As you type, the drug name is highlighted.

• Type another drug name. Press ENTER).

You see a message to *SHOW INTERACTIONS*.

• Press ENTER).

You see the interactions, if any, between the drugs.

• Press (ENTER).

You see a description of

the interaction.

• Press CLEAR).

You're ready to find other interactions

✓ About the Screen Illustrations

Some screen illustrations in this User's Manual may vary slightly from what you see on screen. These variations do not mean that this digital book or your Digital Book System is malfunctioning.

Installing the Digital Book

Before you can use this digital book, you must install it. **Warning:** If you install a digital book while the Digital Book System is on, information that you entered in other currently installed digital books may be erased.

- 1. Turn the Digital Book System off.
- 2. Install the digital book into a slot on the back of the Digital Book System.

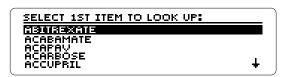
Align the tabs on the digital book with the notches in the slot. Make sure its metal contacts face down.

- 3. Press (ON/OFF).
- 4. Turn the wheel on the side of the Digital Book System to adjust the screen contrast.
- 5. Press CARD.
- 6. Press 🖒 or 🔁 to highlight the HADI icon.



Installing the Digital Book

7. Press (ENTER).



This is the main drug list, where you select drugs to find interactions.

✓ Resuming Where You Left Off

While using this digital book, you can turn off the Digital Book System at any time. When you turn the Digital Book System on again, the screen that you last viewed appears. Any drugs entered in your query list are saved, too.

✓ Clearing the Main Drug List

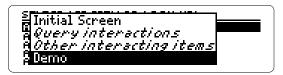
You can always return to the main drug list by pressing (CLEAR). **Note:** When you do, the drugs in your query list are also cleared.

You can return to the previous screen without clearing your query list by pressing (BACK).

Viewing a Demonstration

Before you start using this digital book, you may want to view a brief demonstration of its features and functionality.

- 1. Press (MENU) at the main drug list.
- 2. Press 🕕 to highlight Demo.



- 3. Press (ENTER) to start the demonstration.
- 4. Press CLEAR to stop the demonstration.

√ Help is Always at Hand

You can view a help message at any screen (except during the demonstration) by pressing (HELP). To read the help message, press (BACK).

✓ Auto-shutoff

If you forget to turn this digital book off, don't worry. It will automatically shut off in four minutes.

Selecting Drugs

The main drug list contains brand and generic drugs, foods, as well as drug and food groups. You select an item from the main drug list by typing it, or scrolling to it, and then pressing ENTER. Usually you need to type only a few letters to highlight an item. Try this example.

1. Type META at the main drug list.



To go back a letter, press (BACK).

- 2. Press (ENTER) to select the drug and add it to the query list.
- 3. To clear the query press CLEAR.

✓ Drug Selecting Tips

You do not need to type capital letters or punctuation. However, you can type numbers at the main drug list. **Note:** In this User's Manual, "drug" refers to any item on the main drug list.

Selecting Drugs

✓ Using the Direction Keys

You can use these keys to move up and down the main drug list, the query list, and other lists.

* Hold while pressing the other key, or press and then the other key. The second method flashes a **G** at the bottom of the screen.

✓ Follow the Arrows

The flashing arrows at the bottom right of the screen indicate which direction keys you can press to move around the screen.

Correcting Misspellings

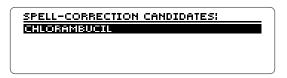
Don't worry if you misspell a word. The spell-correction mode automatically appears. Try this.

1. Type KLOROMBUSIL at the main drug list.



To exit spell-correction, press (BACK) repeatedly.

2. Press (ENTER).



Spell correction is done automatically.

- 3. Press J to highlight a drug, if needed.
- 4. Press (ENTER) to select the drug and add it to your query list.
- 5. To clear the query press CLEAR.

Correcting Misspellings

✓ Finding Letters in Words

If you are not sure how to spell a word, type a question mark in place of each unknown letter or an asterisk in place of a series of unknown letters. Here are two examples.

- Type PHEN?LBUT?ZONE and press ENTER.
 The correct spelling, PHENYLBUTAZONE, appears.

Note: You can type more than one question mark or asterisk in a word, and you can type both in the same word. However, it is not necessary to type two consecutive asterisks in one word.

Finding Brands, Generics, Groups

By highlighting a drug name on the main drug list and pressing (SPEC), you can see its generic or brand names and any drug or food groups to which it belongs. In this example, we'll find the brand names and drug group of penicillin G.

- 1. Type PENICILLIN G at the main drug list.
- 2. Press (SPEC).

```
penicillin G
is a Drug
Brands:
Horscillin
Arcocillin
```

```
Truxcillin
Tu-Cillin
Wycillin
Groups:
Panicillin
```

At the bottom of the list, notice that *penicillin G* belongs to the drug group, "penicillins."

4. Press (ENTER) to view the drugs in the group.

Finding Brands, Generics, Groups



- 5. Press to scroll down.
- 6. Press (BACK) twice to go back to the main drug list.

✓ Finding MAO Inhibitor Interactions

When you highlight a food name on the main drug list, pressing SPEC shows if that food interacts with MAO inhibitors. Try this example.

- Type AVOCADOS.
- 2. Press SPEC. MAO Inhibitor info is highlighted.
- Press (ENTER). A description of avocados and MAO inhibitors appears.
 (To read the cross-references (†), see "Viewing References.")

You can find adverse interactions by selecting drugs from the main drug list and then pressing ENTER at *SHOW INTERACTIONS*. Here is where you can view a description of each interaction.

▶ Between Many Drugs

You can select up to 20 drugs at time to find interactions between. In this example, we'll find the interactions between alcohol and acetaminophen.

- 1. Select ALCOHOL from the main drug list.
- 2. Then select CAFFEINE.



You can add more drugs here, if you wish.

Press ENTER to view the interactions. Or press MENU and select Query interactions.



 Highlight the interaction you want to view, if needed.

Note: You can return to the main drug list now by pressing (BACK).

Press ENTER to select the highlighted interaction.

Caffeine may further decrease reaction time (synergism or antagonism)† [] Variable response

This is an interaction description. The hand points to a comment or recommendation.

6. Press ♣ or ♥ to move down.

View the drug names of the interaction description

View the next or previous description, if any

Return to the interactions

Press...

SPEC

7. Press CLEAR to clear the queries.

► For a Single Drug

You can select a single drug from the main drug list and quickly find the drugs with which it interacts. In this example, we'll find the interactions for heparin.

- 1. Type HEPARIN at the main drug list.
- 2. Press (ENTER).
- 3. Press LIST to view your query list.

```
ITEMS IN YOUR QUERY; ['D' = DELETE]
HEPARIN
```

4. Press O, or press MENU and select Other interacting items.

These are the interactions for *heparin*.

- 5. Press to highlight an interaction.
- 6. Press ENTER to view its description.

✓ Using the Query List

Whenever you select a drug from the main drug list, it is saved in the query list. To view your queries, press LIST. Once at the query list, you can use these keys.

10	Press
Delete a highlighted item	D
View the interactions between all the items	0
View all the interactions for a highlighted item	0
Go to the main drug list and save your queries	A
Go to main drug list and <i>clear</i> your queries	CLEAR

Note: Your queries are saved between sessions unless you reset the Digital Book System or remove its batteries.

Note: Press (BACK) to return to the query list each time after selecting one of the above options (except for (CLEAR)).

Viewing References

Whenever you see a reference mark (†) in an interaction description, you can view its journal reference.

At an interaction description with a †, hold

 □ and press □ to highlight the first †
 showing on the screen.

To highlight the last † on the screen, hold and press 4.

Increased anticoagulant effect (decreased metabolism) in TTT (Is Monitor prothrombin time; no interaction with phenprocoumon; T Case reports with nizatidine and

Notice that the † is highlighted.

2. Press ENTER to view the reference.

BA Silver and WR Bell, Cimetidine potentiation of the hypoprothrombinemic effect of warfarin. Ann Intern Med, 90:348, 1979

3. Hold to scroll down.

Viewing References

4. Hold and press repeatedly to view

To view a previous reference, hold

more references, if any.

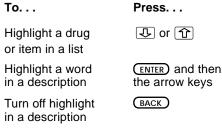
and press \hat{k} .

5.	Press (BACK) to go back to the description.
	✓ Viewing Complete Drug Names Pressing ?* or SPEC at an interaction list, an interaction description, or a reference displays the full names of the drugs involved in the interaction. Then press (BACK) to go back to previous screen.
	✓ Viewing Next or Previous References Once at a reference, you can view the next or previous reference, if any, in an interaction description by holding and pressing ♠ or ♥♥.

Sending Words to Other Books

You can send drug names and other words from this digital book to other installed digital books. For example, you can look up a drug from this *Handbook* in *The Washington Manual* digital book.

1. Highlight a word in this Handbook.



- 2. Hold and press CARD.
- Highlight the icon of the digital book to which you want to send the word.
- 4. Press ENTER).

To look up the word, follow the instructions for that book. In many cases, you simply press ENTER). To return to the *Handbook*, press CARD), highlight its icon and then press ENTER).

Digital Book System®

Resetting the Digital Book System

To reset the Digital Book System, hold CLEAR while pressing ON/OFF). Or press the recessed reset button on the back of the Digital Book System. (Read its Basic Operating Guide for details.)

Warning: Resetting the Digital Book System may permanently erase information, such as notes, that you have entered in the installed digital books.

Note: If the keyboard fails to respond or the screen performs erratically, you can press CLEAR and then press ON/OFF) rather than resetting the Digital Book System. If nothing happens, then reset.

Protecting and Cleaning

- Do not touch the metal contacts on the back of digital books or the rubber contacts on the Digital Book System with statically charged objects. Statically charged objects may erase information that you entered in the digital books.
- Do not put excessive weight on digital books or the Digital Book System, or expose them to extreme or prolonged heat, cold, or other adverse conditions.
- To clean digital books, apply isopropyl alcohol with a cotton swab. To clean the Digital Book System, apply a mild household cleaner with a soft cloth. Caution: Spraying liquids directly on digital books or the Digital Book System may damage them.

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Digital Book System

Replacing the Batteries

The DBS-1 and DBS-2 use four 3-volt, CR2032 lithium batteries. The DBS-2D uses four 1.5-volt, AA batteries.

- 1. Have new batteries ready.
- 2. Turn the Digital Book System off.
- 3. Slide the battery cover off the back.
- 4. Remove all the old batteries.
- Place new batteries in the cavities, with the +'s oriented correctly. (In the DBS-1 and DBS-2, the +'s should face up.)
- 6. Replace the battery cover.

✓ Battery Precautions

When you replace batteries, follow these precautions to avoid erasing information on your installed digital books.

- Replace the batteries before they lose power.
- Once batteries have been removed, install new ones within two minutes.
- Do not mix old and new batteries.
- Never remove batteries with the unit on.

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Product Specifications

Model IC-168

- Data: More than 1,320 interactions; over 2,900 references; 3,420 brand, drug, food, and group names; and MAO inhibitor/food reactions.
- Alphanumeric searching.
- A user query list holding up to 20 drug names.
- Spelling correction.
- · Context-sensitive help messages.
- size: 2-1/4" x 1-1/4" x 1/4".
- weight: 0.3 oz.

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MatchMaker is a trademark of Franklin Electronic Publishers, Inc. The Medical Letter is a registered trademark of the Medical Letter, Inc.

U.S. Patent 4,490, 811; 4,830,618; 5,113,340; 5,218,536; 5,396,606. DES 348,439; DES 349,281. European Patent 0 136 379.

Patents Pending.

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Key Guide

Function Keys

CLEAR Clears your queries and

returns to the main drug list.

MENU Shows menus.

GAMES No effect.

MORE No effect.

LIST Shows the current query list.

SPEC Shows brands, generics, and groups.

CARD Exits the digital book.

Gold Key Combinations

Types numbers.

CARD Sends a word to another book.

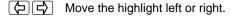
Zooms to the start or end of a list, section, description, or reference.

+ VM or MR Shows the next or previous description or reference.

Highlights a reference mark (†) in a description.

Key Guide

Direction Keys



Scroll through lists and text, or move the highlight up or down.

Page up or down.

MatchMaker™ Key

At lists, shows the full menu item; at the main drug list, types a ? to stand for an unknown letter.

SHIFT + (? *) At the main drug list, types an * to find a series of letters in a word.

Query List Keys

These functions apply only when in the query list.

A Shows the main drug list.

D Deletes a highlighted item.

Shows interactions for a highlighted item.

Shows the interactions between all the items.

Key Guide

Other Keys

A)-(Z) Type letters.

BACK Erases a letter, backs up,

deletes an entry, or turns off the highlight in interaction descriptions.

Enters a request. In descriptions,

highlights a word.

HELP) Shows a help message.

ON/OFF Turns unit on or off.

[, -](; ·) Types punctuation.

Shifts keys.

SPACE Types a space.

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