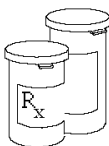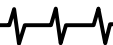# *Medical Book Card*

The Medical Letter ®

**HANDBOOK
OF
ADVERSE
DRUG
INTERACTIONS**

R_X

User's Guide

Quick Reference Guide

To Start Using a Book Card

1. Install the book card in a slot in the back of the Medical Book System platform.
2. Turn the platform on.
3. If needed, press (CARD) and then use the ⇨ or ⇦ to highlight its icon.
4. Press (ENTER) to select it.

To Find Drug Interactions

1. Press (CLEAR).
2. Highlight a drug by typing its name or pressing ⬇ or ⬆ and then press (ENTER) to select it.
3. Select more drugs by highlighting them and pressing (ENTER).
4. Press (SEARCH).
5. Highlight an interaction, if any, and press (ENTER) to view it.

To Find All Other Drug Interactions

1. Press (CLEAR).
2. Highlight a drug by typing its name or pressing ⬇ or ⬆ and then press (ENTER) to select it.
3. If needed, select more drugs by highlighting them and pressing (ENTER).
4. Press (MORE).
5. Highlight an interaction, if any, and press (ENTER) to view it.

To Find a Glossary Entry

1. Press (CLEAR).
2. Highlight a drug by typing its name or pressing ⬇ or ⬆.
3. Press (SPEC).
4. Use ⬇, (DN), or (SPACE) to scroll.
5. Press (BACK) to go back.

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Contents

➤ About Book Card Compatibility

IMPORTANT This book card can be used *only* with the Medical Book System™ platform and will not function in any other Franklin BOOKMAN® platform.

The Medical Book System platform can use Franklin BOOKMAN book cards as well as Medical Book System book cards. However, Franklin BOOK-MAN platforms cannot use Medical Book System book cards.

➤ For More Information

To learn more about the Medical Book System or other products from Franklin Electronic Publishers, call 800-665-5450 or visit the Franklin Web site at www.franklin.com.

Introduction to the HADI

This handbook offers a quick guide to possible adverse effects of drug interactions, with brief recommendations for precautionary measures. Pairs of interacting drugs are listed alphabetically, followed by the adverse interaction, its mechanism (in parentheses), references and recommendations for clinical management. These listings are usually based on clinical reports. 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 clinical studies or reports in many patients, the year of each report is given as some indication of frequency.

Reports of interactions between more than two drugs have begun to appear in the medical literature. Where these have been documented, they are noted as comments under interacting pairs of drugs.

UNDOCUMENTED INTERACTIONS — New adverse interactions are continually being reported; the absence of a listing in this book does not necessarily mean that drugs will not interact when given concurrently. Interactions extrapolated from animal studies or interactions reported with related drugs, frequently mentioned in other sources, such as the manufacturer's package insert may not be included here.

Interactions between general anesthetics and drugs likely to be administered during surgery, such as autonomic drugs and local anesthetics, are not included. Interactions useful in therapy, such as increased plasma concentration of penicillin with concurrent use of probenecid, are also not listed. Drug combinations should be looked up under their components.

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.

Key Guide

MECHANISMS OF INTERACTIONS — Genetic differences can affect drug metabolism and interactions. Some 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. Many drugs are metabolized by cytochrome P450 isozymes. These isozymes are named according to a standard system, e.g., CYP3A4 or P4503A4. Drugs that are substrates or inhibitors for the same isozyme *in vitro* are likely to interact, but no interaction may be detectable, or it may not be clinically significant. Other drugs alter the binding of another drug to plasma proteins or tissue receptors, alter the distribution of drugs to active receptor sites, delay or enhance excretion, or cause 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.

Color Keys

MORE **(red)** Displays interactions between selected drug(s) and all other drugs in this book.

SPEC **(green)** Displays a glossary entry.

SEARCH **(yellow)** Searches for interactions among the selected drugs.

LIST **(blue)** Lists the items currently selected from the main drug list.

Function Keys

BACK Erases typed letters, or backs up to the previous screen.

CAP Shifts keys to type capitals or punctuation.

CARD Exits the currently selected book.

CLEAR Clears your search and returns to the main drug list.

ENTER Enters a word, selects a menu item, or starts the highlight in text.

HELP Displays help messages.

MENU Displays the main menus.

ON/OFF Turns the platform on or off.

SPACE At menus and text, pages down. At entry screens, types a space.

?* At menus, displays the title of a highlighted item. At text, displays the current entry title. With **CAP**, types an asterisk (✱) to stand for letters in a word.

Installing Book Cards

Direction Keys

(UP) (DN) Pages up or down.

⇦⇧⇨⇩ Moves the cursor, text, or highlight.

Key Combinations*

☆ + (CARD) Transfers a highlighted word between installed book cards.

☆ + (ENTER) At text, highlights special markers (e.g., bibliographic references, MAO inhibitor information , etc.).

☆ + **Q-P** Types numbers.

☆ + (DN) At text, displays the next or
or (UP) previous interaction or search match.

(CAP) + ⇧ Goes to the top or bottom of
or ⇩ a menu or text.

** Hold the first key while pressing the second.*

▶ **Understanding the Keys**

The functions of the keys may vary according to which book card is installed and selected in the platform. To learn how to use a particular book card, read its User's Guide.

CAUTION Never install or remove a book card when the platform is turned on. If you do, information entered in any installed book cards may be erased.

1. Turn the platform off.

2. Turn the platform over.

3. Align the book card tabs with the notches in a card slot.
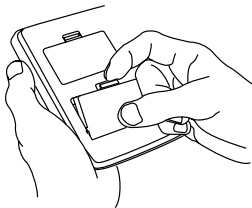
4. Press the book card until it snaps into the slot.

▶ **Removing Book Cards**

CAUTION When you remove a book card from a platform, information entered in that book card may be erased.

Selecting a Book

If you have installed two book cards in the platform, you can select which book you want to read.

1. Turn the platform on.

2. Press CARD.

3. Use ⇦ or ⇨ to highlight the book you want to use.

4. Press ENTER to select it.

▶ Resuming Where You Left Off

You can turn off the platform at any screen. When you turn it on again, the last screen that you viewed appears.

Changing the Settings

Using the Setup menu, you can adjust the type size, shutoff time, and screen contrast of this book.

The type size sets how large the characters appear on screen. The shutoff time sets how long your Medical Book System stays on if you forget to turn it off.

1. Press MENU.

2. Highlight *Set Type Size*, *Set Shutoff*, or *Set Contrast* on the Setup menu.
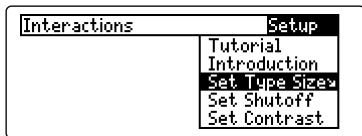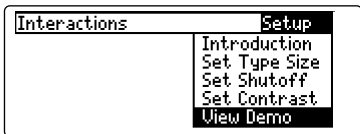

3. Press ENTER.

4. Use ⇩ or ⇧ to change the setting.

Or press BACK to leave the setting unchanged.

5. Press ENTER to select it.

Viewing a Demonstration

Before you start using this book, you may want to see a brief demonstration.

Press $\boxed{\text{MENU}}$ and then use the arrow keys to highlight *View Demo* on the Setup menu.

```
Interactions              Setup
                      Introduction
                      Set Type Size
                      Set Shutoff
                      Set Contrast
                      View Demo
```

Press $\boxed{\text{ENTER}}$ to select it. To stop the demonstration, press $\boxed{\text{CLEAR}}$.

▶ Help is Always at Hand

You can view a help message at virtually any screen by pressing $\boxed{\text{HELP}}$. To exit help, press $\boxed{\text{BACK}}$.

To read a tutorial about this book, select *Tutorial* from the Setup menu.

For more information about the *Handbook of Adverse Drug Interactions*, select *Introduction* from the Setup menu.
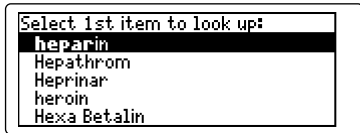
▶ Follow the Arrows

The flashing arrows at the right of the screen show which arrow keys you can press to move through menus or view more text.

Finding Drug Interactions

For a Single Drug

You can select a single drug from the main drug list and quickly find drugs with which it interacts.

1. Press $\boxed{\text{CLEAR}}$.

2. Type a drug name. For example, type *heparin*.

```
Select 1st item to look up:
  heparin
  Hepathrom
  Heprinar
  heroin
  Hexa Betalin
```

To delete a letter, press $\boxed{\text{BACK}}$.

You can also highlight a menu item by using $\Downarrow$ or $\Uparrow$.

To type a number, hold $\boxed{☆}$ and press a numbered key.

To see a full menu title, press $\boxed{?*}$.

3. When the drug is highlighted, press $\boxed{\text{ENTER}}$ to select it.

A check marks your selection.

To deselect a drug, press $\boxed{\text{ENTER}}$ again.

4. Press $\boxed{\text{MORE}}$ (red) to find all the interactions for the selected drug listed in this book.

```
5 Other interactions    Setup
aprotinin & heparin
cephalosporins & heparin
heparin & hypoglycemics,
    sulfonylurea
heparin & nitroglycerin
```

These are the interactions for heparin.

5. Type an interaction title or use the arrow keys to highlight an interaction. For example, highlight *heparin & nitroglycerin*.

6. Press (ENTER) to view it.

```
heparin & nitroglycerin
Decreased heparin effect with IV
nitroglycerin (mechanism not es-
tablished)ⓡⓘⓑ ⓒⓕConfirmed in 3 pa-
tient studies, but one study in
healthy people and two studies in
patients shows no interaction and
one study in patients taking ni-
```
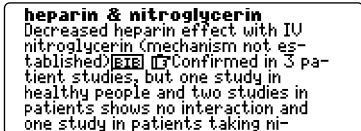
7. To go to the next or previous interaction, if any, hold ☆ and use ⓓⓝ or ⓤⓟ.

8. Press (CLEAR) when finished.

➤ About the Main Drug List

The main drug list contains brand and generic drugs, foods, as well as drug and food groups. Brand names are capitalized, but you do not need to type capitals.

Note: In this User's Guide, "drug" refers to any item on the main drug list.

Among Many Drugs

You can select up to 20 drugs at a time and find their interactions.

1. Press (CLEAR).

2. Select a drug from the main drug list. For example, select *quinine*.

```
Select 2nd item to look up:
✓quinine
 Quinitime
 Quinora
 Quin-Release
 Quiphile
```
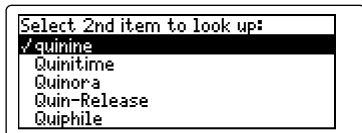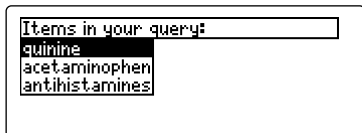
A check marks your selection.

3. Select another drug. For example, select *acetaminophen*.

To deselect a drug, press (ENTER) again.
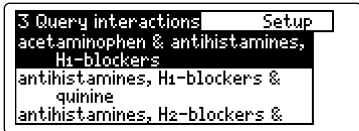
You can add more drugs here if you wish.

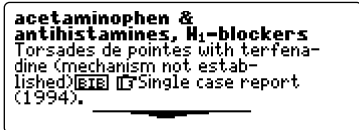**4. To see the drugs you have selected, press (LIST) (blue).**

```
Items in your query:
quinine
acetaminophen
antihistamines
```

To see the glossary entry of a drug on your query list, highlight it and press (SPEC) (green) or (ENTER)

5. Press (SEARCH) **(yellow) to find inter-actions among the selected drugs.**

> 3 Query interactions   Setup
> acetaminophen & antihistamines,
>   H₁-blockers
> antihistamines, H₁-blockers &
>   quinine
> antihistamines, H₂-blockers &

6. Highlight an interaction and press (ENTER) **to view it.**

> **acetaminophen &**
> **antihistamines, H₁-blockers**
> Torsades de pointes with terfena-
> dine (mechanism not estab-
> lished)[BIB] [↷Single case report
> (1994).

7. To find all the other interactions that include one of the selected drugs, press (MORE) **(red).**

> 97 Other interactions   Setup
> acetaminophen & alcohol
> acetaminophen & anticoagulants,
>   oral
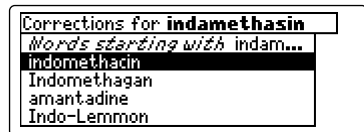> acetaminophen & barbiturates
> acetaminophen & benzodiazepines
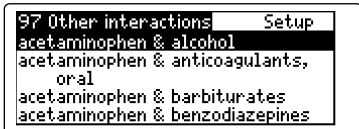
8. Highlight an interaction to read and press (ENTER) **to view it.**

9. To go to the next or previous inter-action, hold (☆) **and use** (DN) **or** (UP)**.**

10. Press (CLEAR) **when finished.**

▶ If You Misspell a Drug Name

When you type letters that do not match a drug on the main drug list, the spelling correction entry screen appears. You can press (BACK) repeatedly to exit it. Or you can enter the misspelled drug name to view corrections.

> Corrections for **indamethasin**
> *Words starting with* indam...
> indomethacin
> Indomethagan
> amantadine
> Indo-Lemmon

Select a correction to add it to your search. Or you can select *Words starting with...* to view completions, if any.

▶ Searching for Parts of Words

If you want to find prefixes, suffixes, or other parts of words, type an asterisk (✳) to stand for a series of letters. To type an asterisk, hold `CAP` and press `?✳`.

For example, type *poly*✳ at the main drug list.

```
Correction mode - finish typing
your word, then press ENTER.

poly*◄

Press HELP for more information
```

Then press `ENTER` to see its matches, or type a correction.

```
Matches for poly*
Polycillin
Polycitra Syrup
Polycitra-K
Polycitra-LC
Polygam S/D
```

Use ⇩ to highlight a match and then press `ENTER` to add it to your search.

Using the Interactions Menu

All the drug interactions in the printed book are listed in alphabetical order on the Interactions menu.

1. Press `MENU`.

```
Interactions            Setup
acarbose & metformin
acarbose & valproate
acetaminophen & alcohol
acetaminophen & anticoagulants,
    oral
```

2. Type the name of a drug or use the arrow keys to highlight it. For example, highlight *haloperidol & lithium*.

```
Interactions            Setup
haloperidol & lithium
haloperidol & methyldopa
haloperidol & metoclopramide
haloperidol & narcotics: morphine-
    like
```

3. Press `ENTER`.

```
haloperidol & lithium
Encephalopathy, lethargy, fever,
confusion, extrapyramidal symp-
toms (mechanism not estab-
lished) BIB  Monitor and discontin-
ue both drugs if signs of toxicity
occur.
```

4. Use ⇩, `DN`, or `SPACE` to scroll.

5. Press `CLEAR` when finished.

10

Using the Glossary

You can view a glossary entry for any drug on the main drug list. A glossary entry can contain a drug's generic or brand name, any drug or food groups to which it belongs, and MAO inhibitor information.

1. Press CLEAR.

2. Highlight a drug on the main drug list. For example, highlight *ibuprofen*.

> Select 1st item to look up:
> **ibuprofen**
> Ibuprohm
> Ibu-Tab
> Ibutex
> ibutilide

3. Press SPEC (green) to see its glossary entry.

> **ibuprofen**
>   is a *Drug*
> *Groups:*
> nonsteroidal anti-inflammatory
>   drugs
> *Brands:*
> Actiprofen
> Advil

4. Use ⬇, DN, or SPACE to scroll.

5. To go back to the main drug list, press BACK.

Highlighting Search Words

You can also find a glossary entry for a drug by highlighting it in text. Note: You can only search for drugs that are listed in this book.

1. At the text, press ENTER.

> **benzodiazepines** & selective
> serotonin reuptake inhibitors
> (SSRIs)
> Possible increased impairment of
> skills related to driving with diaz-
> epam or alprazolam and fluoxetine
> (decreased metabolism)⟨BIB⟩
> ☞Warn patients taking the combi-

To turn off the highlight, press BACK.

2. Use the arrow keys to highlight a drug.

> benzodiazepines & selective
> serotonin reuptake inhibitors
> (SSRIs)
> Possible increased impairment of
> skills related to driving with diaz-
> epam or **alprazolam** and fluoxetine
> (decreased metabolism)⟨BIB⟩
> ☞Warn patients taking the combi-

3. Press ENTER to find its glossary entry.

> **alprazolam**
>   is a *Drug*
> *Groups:*
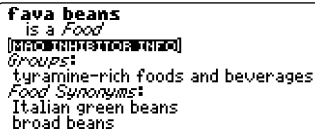> benzodiazepines
> *Brands:*
> Xanax

4. To go back, press BACK.

5. Press CLEAR when finished.

Reading Special Markers

Throughout this book, you will find bibliographic references (indicated by **BIB**'s), and notes about foods that interact with MAO inhibitors (indicated by **MAO INHIBITOR INFO**'s). Bibliographic references provide additional information. **MAO INHIBITOR INFO** markers are usually found in glossary entries.

Note: The hand icon (☞) is not a special marker. It separates the interaction description from any commentary on the interaction.

1. When you see a BIB, or MAO INHIBITOR INFO in the text, hold ✫ and press ENTER.

```
fava beans
  is a Food
MAO INHIBITOR INFO
Groups:
tyramine-rich foods and beverages
Food Synonyms:
Italian green beans
broad beans
```

Notice the highlight. To undo the highlight, press BACK.

2. Press ENTER.

```
fava beans (broad beans,
"Italian" green beans) (Does
not contain tyramine) Contain
dopamine, a pressor amine, particu-
larly when overripe.BIB
```

3. Press BACK repeatedly to go back.

▶ **Reading Multiple Special Markers**

Sometimes more than one special marker appears on screen at one time.

To highlight the first special marker, hold ✫ and press ENTER. To highlight subsequent special markers, continue holding ✫ and press ENTER again.

When you have highlighted the special marker that you want, press ENTER to read it. Then press BACK to return to the highlighted item.

Looking Up Words in Other Books

The Medical Book System platform enables you to look up a word from one installed book card in the other installed book card.

This book card can send words to and receive words from other book cards. Some book cards are not able to transfer words. To learn if a book card can send or receive words, read its User's Guide.

1. Install two book cards in the platform.

**2. Select a book to read.**

3. Highlight a word in that book.

You can highlight words in menus, lists, entries, and other text. To learn how to highlight a word in this book, read "Highlighting Search Words."

4. Hold ☆ and press CARD.

5. Highlight the icon of the other book card and then press ENTER.

The word that you highlighted appears in the other book.

6. Press ENTER again, if needed, to search for the word in the other book.

Resetting the Medical Book System

If, due to electrostatic discharge or other cause, the keyboard fails to respond or the screen performs erratically, try the steps below to reset the platform. Perform only as many steps as required to restore normal operation.

CAUTION Resetting the platform when book cards are installed may erase settings and information entered in those book cards. Remove all book cards before resetting.

1. Hold CLEAR and press ON/OFF twice.

If nothing happens, try Step 2.

2. Use the end of an opened paper clip to gently press the reset button on the back of the platform.

The reset button is recessed in a pin-sized hole located near the book card slots.

CAUTION Pressing the reset button with more than light pressure may permanently disable it.

If nothing happens, try Step 3.

3. Remove and reinstall the batteries.

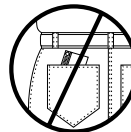To learn how, read the Medical Book System platform's User's Guide.

Book Card Care

- **Do not touch the metal contacts on the book cards.**

  CAUTION Touching the electrical contacts with statically charged objects, including your fingers, could erase information entered in a book card.

- **Do not put excessive pressure on the book cards.**

- **Do not expose the book cards to heat, cold, or liquids.**

Specifications and Patents

Model HAD-3007
- size: 13.6 x 9.2 x 2 cm
- weight: 0.4 oz

FCC Notice: Complies with the limits for a Class B computing device pursuant to Subpart B of part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) This device must accept any interference received, including interference that may cause undesired operation.

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Limited Warranty (outside U.S.)

This product, excluding batteries, is guaranteed by Franklin for a period of one year from the date of purchase. It will be repaired or replaced (at Franklin's option) free of charge for any defect due to faulty workmanship or materials.

Products purchased outside the United States that are returned under warranty should be returned to the original vendor with proof of purchase and description of fault. Charges will be made for all repairs unless valid proof of purchase is provided.

This warranty explicitly excludes defects due to misuse, accidental damage, or wear and tear. This guarantee does not affect the consumer's statutory rights.

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