

OCP Labeling Project

Alternative Presentations of Clinical Pharmacology in Approved Drug Labeling: Effect on Comprehension, Memory, and Action

Test Instrument

[Notes to reviewers in italics, within square brackets.]

[Instrument based on methods developed and tested in the Medical Cognition Lab at Duke.]

Brief Overview

This study is offered by the FDA Center for Drug Evaluation and Research's Office of Clinical Pharmacology in collaboration with the Medical Cognition Laboratory at Duke University. You will see some information about a prescription drug, then answer some questions about it. The drug is hypothetical, developed for this study, but the information is the same type provided in all FDA-approved labeling ("prescribing information"). The purpose of the study is to determine effective ways to display drug information in approved labeling.

Drug-X: General Information

You will see information about "Drug-X." Your job is to read the information as you would in everyday practice. To get a quick overview of Drug-X, we'll start with the Table of Contents and Highlights sections of the labeling. You will have ___ minutes to look at this information. If you finish before time is up, click "NEXT."

Drug-X: More Detailed Information

Now you will see some more detailed information about Drug-X. Again, read this as you would in everyday practice. We will ask you some questions about it later. You will have ___ minutes to look at this information. If you finish before time is up, click "NEXT."

Questions

Now you will see some questions about Drug-X, your experience in reading the information and your evaluation of it. Click the NEXT button to start the questions and when you finish each page.

Reading about Drug-X

You had some time to read the Table of Contents and Highlights sections of the labeling. Was it about: ___enough time ___too little ___too much

Later you had some time to read the more detailed information. Was it about ___enough time ___too little ___too much

The more detailed information came from one section of the labeling. What section was it? If you are not sure, it is OK to guess. If you don't know, enter a question mark (?).
Name of section: _____

Enter a number for each question below:

--About what % of the detailed section did you read completely?_____

--About what % did you just skim?____

--About what % did you not read at all?____

Your Evaluation

Please answer all remaining questions for the detailed information you saw, the section on pharmacokinetics (PK).

Overall, how easy/hard was it to understand the information about PK?

___ver easy ___easy ___moderate ___hard ___very hard

Overall, how easy/hard would it be to remember this information?

___ver easy ___easy ___moderate ___hard ___very hard

How confident are you -- that you know enough to consider Drug-X as a possible treatment for patients, based on what you read (before you consult other parts of the labeling)?

___very confident ___confident ___somewhat confident ___unconfident ___very unconfident

Drug-X: PK Content

Now we will ask you questions about PK information you just read. Try to answer each question as quickly and accurately as you can. Base your answers on the information provided in this study. If you are not sure about an answer, it is all right to guess. If you have no idea, enter a question mark (?); don't worry about this – if you don't know, that just tells us that the information could be more clear. So just do the best that you can.

We do not expect you to answer all of the questions correctly. We just want to know how effective the labeling is and what “take-home” messages it emphasizes. So do not worry if you are uncertain or don't know – just give your best guess.

Labeling Sections

The PK information is divided into major sections.

--About how many sections are there? You do NOT have to say what they are, just estimate about how many there are. If you are not sure, make your best guess – a ballpark number. Enter a number:_____

--What are the names of the major sections? If you are not sure, it is OK to guess. If you have no idea, enter “?” Put a comma after each section name. _____

--Now you will see topic names, one at a time. For each, decide whether it was – or was not – a section in the PK information. If you think it was a major section in the labeling, click YES; if you think it was not, click NO. If you are not sure, make a guess anyway.

___elimination	___drug interactions
___distribution	___pharmacodynamics
___absorption	___contraindications

[Note: these items are presented in independent random order for each participant.]

General PK Information

Drugoxide exposure

Given a single dose of Drug-X, what is the approximate drugoxide exposure:

--for C_{max} (mcg/mL)

1-2 2-3 3-4 5-6 6-7

--for AUC (mcg*h/mL)

0-25 26-50 51-75 76-100

Given steady state sampling, what is the approximate Drugoxide exposure:

--for C_{max} (mcg/mL)

1-2 2-3 3-4 5-6 6-7

--for AUC (mcg*h/mL)

0-25 26-50 51-75 76-100

Dose Proportionality

Steady-state drugoxide AUC increases proportionally with doses of about what amount over the recommended dosage?

>25 mg >50 mg >75 mg >100 mg

Absorption

What is the general duration of Drug-X half-life? short medium long

What is the time to peak plasma concentrations after fasting at least 8 hours? _____

What is the general range for this value: narrow moderate wide

Which range for this value is correct? 2-6 hours 2-10 hours 2-23 hours

How many metabolites does Drug-X have?

1 2 3 4

What is the active metabolite? M-1 M-2 M-3

Effect of Food

What were the effects of a low-fat meal? Choose one in each row:

It increased drugoxide AUC It decreased drugoxide AUC

It increased metabolite M-3 It decreased metabolite M-3

What were the effects of a high-fat meal? Choose one in each row:

It increased Drugoxide AUC It decreased Drugoxide AUC

It increased metabolite M-3 It decreased metabolite M-3

Distribution

About what % of drugoxide and its metabolite exhibit plasma protein binding?

60-69% 70-79% 80-89% 90-99%

Elimination

About how long does it take to eliminate drugoxide?

10 hours 20 hours 30 hours 40 hours

Is the range in this value

narrow moderate wide

About how long does it take to eliminate the metabolite?

10 hours 20 hours 30 hours 40 hours

Is the range in this value

narrow moderate wide

What are the primary metabolic pathways for each?

Oxidation: _____

Conjugation: _____

What is the primary route of elimination? liver kidneys

Excretion in feces

About what percent is excreted in feces?

0-25% 26-50% 51-75% 76%-100%

About what percent is drugoxide?

0-25% 26-50% 51-75% 76%-100%

About what percent is metabolite?

0-25% 26-50% 51-75% 76%-100%

Excretion in urine

About what percent is excreted in urine?

0-25% 26-50% 51-75% 76%-100%

About what percent is glucuronides?

0-25% 26-50% 51-75% 76%-100%

Terms

Some abbreviations were used in the labeling. Please define each term below. If you are not sure about an exact definition, give a general idea of what it is about. If you don't know, enter "?"

C_{max} : _____

AUC: _____

CV: _____

T_{max} : _____

Patient Scenarios

Assume that the following patients all have the indication approved for Drug-X. For each, consider whether Drug-X would be appropriate.

Patient A is already taking [Drug Y].

Would you be concerned about prescribing Drug-X for this patient? Yes No

If OK, what dose is appropriate: recommended dose higher dose lower dose

Patient B likes [food].

Would you be concerned about prescribing Drug-X for this patient? Yes No

If OK, what dose is appropriate: recommended dose higher dose lower dose

Evaluate Alternative Displays

Now you will see different ways to show PK information. They have the same information that you saw in this study. For each display, take a look at how the information is shown. Then answer the questions below.

Display-1

How easy/hard is it to understand the information in this display?

very easy easy moderate hard very hard

How well do you like this display?

like very much like neutral dislike dislike very much

Display-2

How easy/hard is it to understand the information in this display?

very easy easy moderate hard very hard

How well do you like this display?

like very much like neutral dislike dislike very much

Compare Displays

Here are both displays, side by side. They contain the same information but differ in their overall format. Please take a look, then answer the questions below.

How well do you like the display on the left?

like very much like neutral dislike dislike very much

How well do you like the display on the right?

like very much like neutral dislike dislike very much

Which do you prefer? left right no preference

Comments

If you have any comments about the displays or study, please write them here: _____

Submit

Please click NEXT to submit your responses.

Explanation

Thank you for participating in this study. Here is a brief overview.

This study examines different ways to show information about prescription drugs. Do some formats help health professionals understand, remember, and use the information in a more efficient and accurate manner?

Today, you read just one of the formats we are studying. On a random basis, participants see this format or a different version. We will compare the results for these formats, to help make prescription drug labeling easier to understand, remember, and use.