

FDA Public Workshop The Nonprescription Drug Facts Label in a Changing Consumer Marketplace 2021 *"What's Working/ What's Not"* 9 June 2021

Julie L. Aker, President & CEO Concentrics Research



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Highlights

- Specialty CRO, Site and Strategy Center
 - Over 35 years in business
 - Rx and OTC: Drugs, devices
 - Voice of the consumer or patient
 - Listen & Innovate
 - Rx-to-OTC Switch
 - Behavioral studies (LC, SS, AUS, HF)
 - Technology solutions
 - 150 specialized staff
 - Researchers
 - Telemedicine
 - Woman-owned Business (WBENC Certified)



Concentrics Center for Research Indianapolis, IN



Concentrics Research Indianapolis, IN



Concentrics Strategy Center Parsippany, NJ





What's Working?



The Consumer Navigation Process...



Travis, BS, Jennifer Harris, BA, EMT

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In a study of 204 consumers to evaluate how OTCs are located, we learned that consumers use more than the DFL to find what they need:

- Therapeutic category
 - Aisle or online search
- Indication
 - PDP front of the box or bottle
- **Directions & Warnings**
 - DFL back of the box or bottle



What's working with the DFL?

- Content
 - Purpose and 'Uses': Indication (*What does this medicine do?*)
 - Directions (*How do I use this medicine?*)
 - More focus on absolutes:
 - Do not use, Stop use, Uses, Directions
- Format
 - Familiar
 - Sections
 - White space
 - Judicious use of pictograms, highlighting and bolding





What's Not Working?



What's not working?

- Technical words (e.g., ingredients)
- Density
 - Navigation issues (eyes do not know where to go)
 - Long lists of warnings
 - Expectations for ALL information to be on DFL leading to peel back or "lift up" panels
 - Duplication similar warnings before and after use
- Order of the DFL
 - Because Directions are at the end, warnings are often just scanned
- Side effects
 - Where are they?



What's not working

- Duplicative condition references before and after use
 - E.g., repeated references to a particular condition
 - Do not use if you have a history of X condition
 - Ask a doctor if you have a signs of X condition
 - Stop use if you have symptoms of X condition
- Warning wallpaper
 - Which warnings are really important? Some more important than others?
 - Are these requirements or recommendations?
 - Many people DO consult and depend on their doctor's input regardless of the labeling
 - Especially those with chronic medical conditions



What are we missing?

- More focus on the PDP than you think
- For the DFL, less is more
 - e.g., Think of Terms & Conditions and privacy statements and the density effect
- Decision-making often driven by:
 - Friends/family
 - Increasingly, by reviews online for people with similar conditions
 - Using what has worked in the past
- Assumptions that
 - Labeling is forced by attorneys, and these are recommendations (not requirements)
 - Not as strong as a prescription medication



Relevancy for special populations...

- Children & Elderly
 - Seeking relevant ages & dosing
- Limited Literacy/ESL
 - Seeking common words
- Certain medical conditions
 - Seeking relevant medical conditions
- Potential drug-drug interactions
 - Seeking relevant drugs

Affects on comprehension, self-selection and actual use?

- Comprehension
 - Lots of time to "find" information
 - Can lead to guessing or relying on past experience (incorrect responses but signals that they gave up)
- Self-selection
 - More focus on indication/condition: ("ruling in" criteria)
 - Less focus on warnings ("ruling out" criteria)
 - "ask a doctor" and "ask a doctor or pharmacist" often viewed as recommendations consumers tend to default to what their doctor has told them.
- Actual use
 - Consumers do well overall
 - Focus more on Directions than changes in health over time
 - Adverse events ("stop use") are common sense to most people



WHY is it Not Working?



The world changed...









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Why do people use technology?

- SEARCHABLE/CUSTOMIZABLE
- EASY
- LEARN
- FAST & FAMILIAR

Motivation to seek information that is relevant and applies to oneself



Feedback from Consumers on the DFL

- Exterior Labeling:
 - "I read it the first time I use it."
 - "I use the front of the box to help me know what to buy!"
- Finding key information on the DFL
 - "Use more color!" "Use red for important things!"
 - "Text is too small!"
- Sorting/Finding in a store:
 - Everyone has a different sorting method (e.g., nighttime/daytime, pregnancy, high blood pressure)



What about limited literacy?

- Consumers do confer with doctors and many use health portals
 - "I check with my doctor first... I have MyChart on the computer, so, send her a message" (01-103, Caucasian/Asian/Multiracial/Other, M, LL)
- Google search
 - "Start first, going to the allergies aisle and I take in all my options, and I look at the, which one is non-drowsy, which one is really drowsy, and um, which one is like 24 hours... and I also do Google search..." (02-009, African American, F, LL)
- Highlighting key conditions is helpful
 - "Like there's one drug, it's a cold medicine they've been advertising, if you have blood pressure, don't take it, it's a over the counter drug... I remember seeing it, and I think that was very useful. (04-015, African American, F, LL)
- Simplify
 - "The ingredients. I know that they are the ingredients, but I wish there was a way to break down the ingredients. You know what I mean? Because some of the things you never even heard of, you know?... Stupefy it, dumb it down a little bit...sometimes even if I read it, I wouldn't know what it is." (05-007, Hispanic, F)
- Nearly everyone, including those of limited literacy, use a smartphone
 - "This phone right here, I can ask it anything I want, and it will tell me..." (01-301, African American, M)

Intended vs. Actual Navigation

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2

Active ingredient (in each tablet) hlorpheniramine maleate 2 mg	Purpose
Ises temporarily relieves these symptoms du sneezing ■ runny nose ■ itchy, watery e	e to hay fever or other upper respiratory allergies: yes itchy throat
Yarnings sk a doctor before use if you have glaucoma ■ a breathing problem such as em trouble urinating due to an enlarged prostate g	
sk a doctor or pharmacist before use if you	are taking tranquilizers or sedatives
alcohol, sedatives, and tranquilizers may incre be careful when driving a motor vehicle or ope excitability may occur, especially in children pregnant or breast-feeding, ask a health pro	erating machinery
alcohol, sedatives, and tranquilizers may incre- be careful when driving a motor vehicle or oper excitability may occur, especially in children pregnant or breast-feeding, ask a health pro- teep out of reach of children. In case of overd	ase drowsiness prating machinery fessional before use.
alcohol, sedatives, and tranquilizers may incre- be careful when driving a motor vehicle or oper excitability may occur, especially in children pregnant or breast-feeding, ask a health pro- eep out of reach of children. In case of overd tenter right away.	ase drowsiness rrating machinery fessional before use. lose, get medical help or contact a Poison Control take 2 tablets every 4 to 6 hours;

Active ingredient (in each tablet) Chlorpheniramine maleate 2 mg	Purpose
Uses temporarily relieves these symptoms due ■ sneezing ■ runny nose ■ itchy, watery ey	e to hay fever or other upper respiratory allergies es litchy throat
Warnings Ask a doctor before use if you have glaucoma a breathing problem such as emp trouble unnating due to an enlarged prostate g	
Ask a doctor or pharmacist before use if you a	are taking tranquilizers or sedatives
When using this product You may get drowsy avoid alco alcohol, sedatives, and tranquilizers may increase be careful when driving a motor vehicle or open excitability may occur, especially in children If pregnant or breast-feeding, ask a health profe Keep out of reach of children. In case of overdate Center right away.	rating machinery essional before use.
Directions adults and children 12 years and over	take 2 tablets every 4 to 6 hours; not more than 12 tablets in 24 hours
children 6 years to under 12 years	take 1 tablet every 4 to 6 hours; not more than 6 tablets in 24 hours
children under 6 years	ask a doctor
	C (68-77° F) ■ protect from excessive moisture



Drugs.com represents the DFL information differently

- Drugs.com uses 2 approaches:
 - Different Headings

Uses | Warnings | Dosage | What to avoid | Side effects | Interactions | FAQ

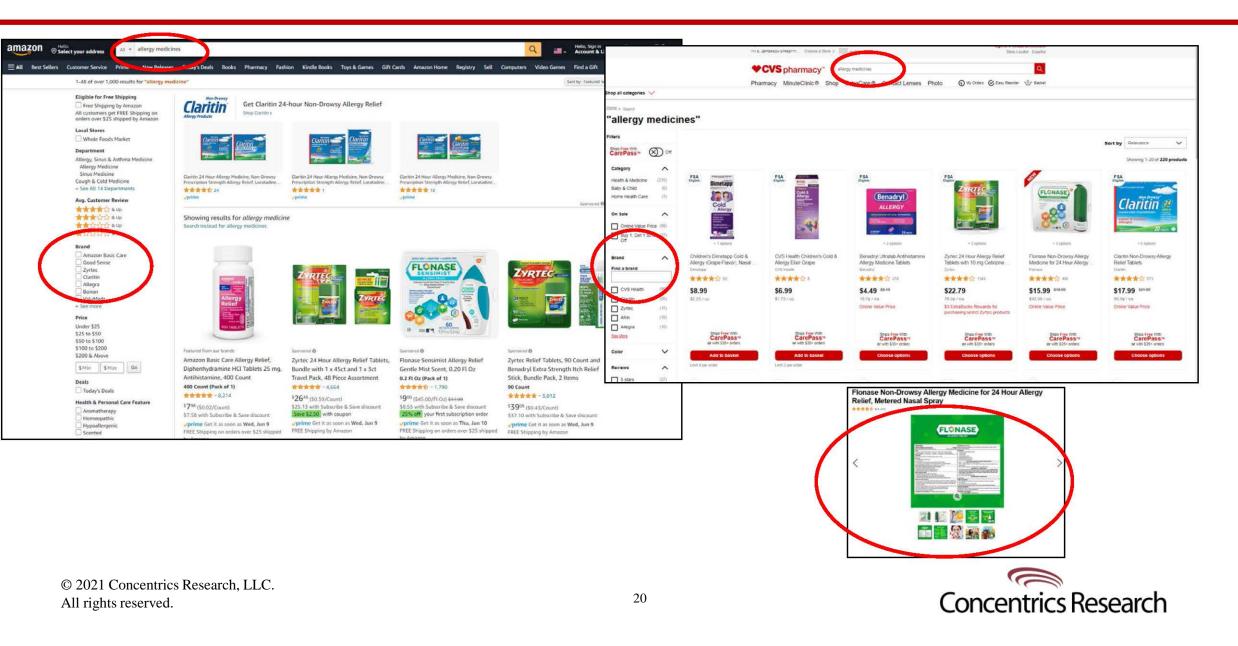
- Presentation of questions vs. statements
 - E.g., What is this medicine? What are the side effects?



Consumers search online for OTCs?

- "I can search for the product I want."
- "It's faster."
- "It's more convenient."
- "There is a symptom checker! I like that!"

Online searches also commonly by category, then by brand





What Alternatives Could Work?



What would it take to improve the DFL?

- Fewer words
- Pictures
- Plain language
- Search and find
- Relevancy by special populations



Consumers show examples of helpful labeling...



"I like the big words on the front of the box. It is easy to see the ingredients and what it does!"



"My supplements use pictures to show me key information!"



Pictures/icons can help

Would information in a <u>different format with pictures</u> help you search and find information about OTC medicines?



- Do not take if: You have heart disease
- You are diabetic



Ask a doctor before use if: You have high blood pressure



You have chest pain

Side effects may include:

Dizziness

Dry Mouth



Ask a doctor or pharmacist before use if: • You are taking an antibiotic



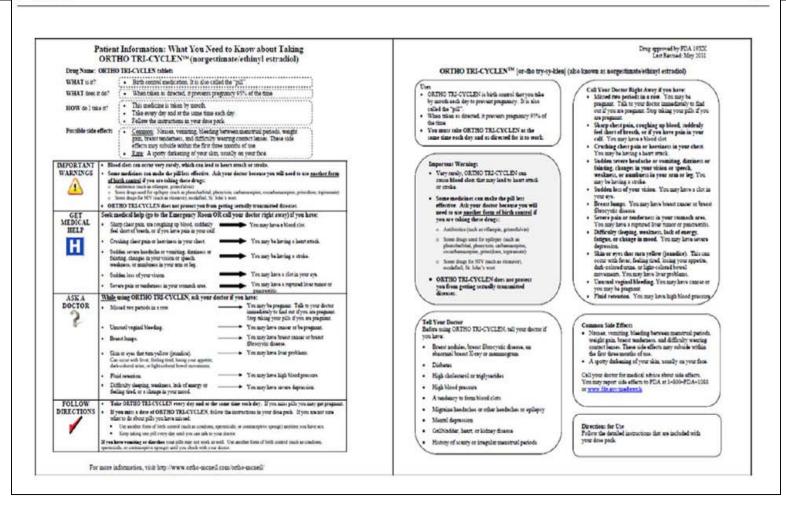
Directions Take 1 tablet Every day at the same time

In a recent study consumers of limited literacy, we tested the use of icons to signal parsing of key sections, we found that most of the participants liked having simple and recognizable icons point to key sections with simple text.



Alternative formats





We studied parsed information in novel formats with 83 participants. The results demonstrated that parsing helps one to navigate (locate) and understand the information. Both novel prescription Medication Guide formats tested better than the current approach.

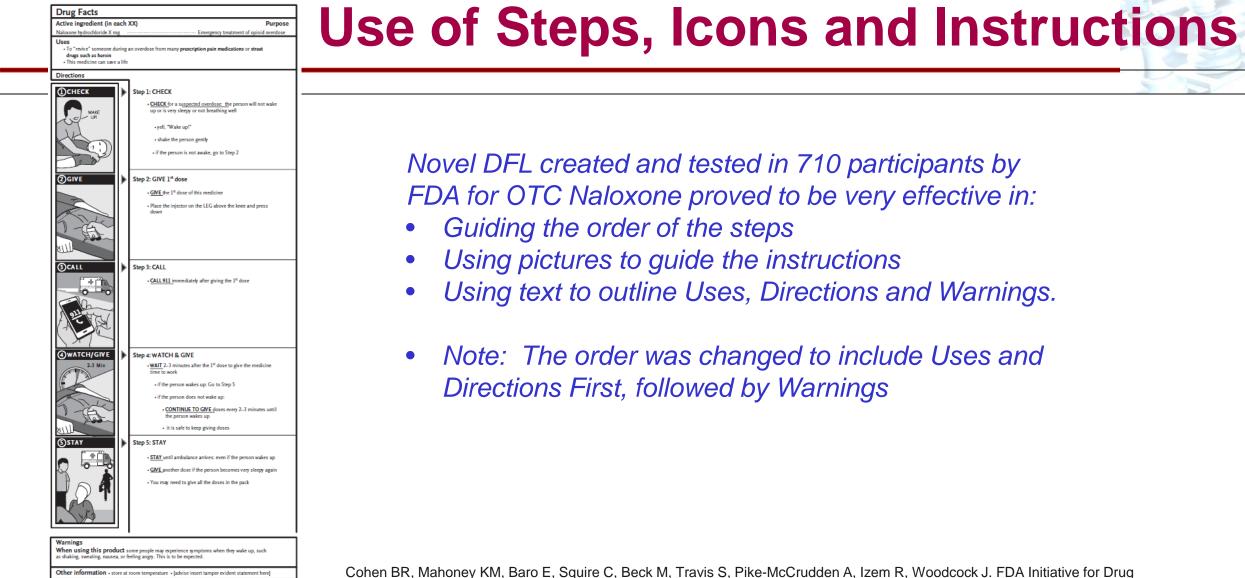
127

Most people preferred the pictures...

	ORTHO TRI-CYCLEN (n = 25 respondents)		PARNATE (n = 20 respondents)		COUMADIN (ii – 30 respondencs)	
	n	%	n	%	n	%
low would you rate the use of pictures (or icons)?						
The pictures made it easier to find information.	19	76.0	22	78.6	27	90.0
The pictures made no difference in finding information.	5	20.0	5	17.9	3	10.0
The pictures made it more difficult to find information.	1	4.0	1	3.6	_	_

Aker J, Beck M, Papay JI, et al. Consumers Better Understand and Prefer Simplified Written Drug Information: An Evaluation of 2 Novel Formats Versus the Current CMI. *Therapeutic Innovation & Regulatory Science*. 2013;47(1):125-132. doi:10.1177/0092861512462371





PMID: 32459923.

Other information - store at room temperature - [advise insert tamper evident statement here Inactive Ingredients **Ouestions?** phone number, website

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Facts Label for Over-the-Counter Naloxone. N Engl J Med. 2020 May 28;382(22):2129-2136. doi: 10.1056/NEJMsa1912403.



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Can We Leverage Technology Now?



Nearly all Americans have smartphones



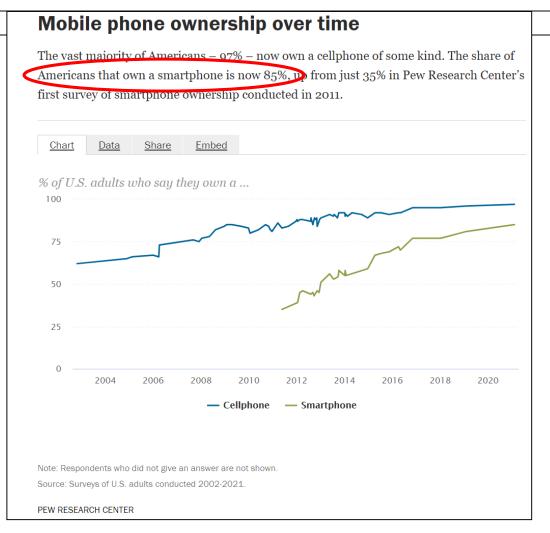
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85% of all Americans have a smartphone and are using it daily for a variety of functions.





And they USE their smartphones...



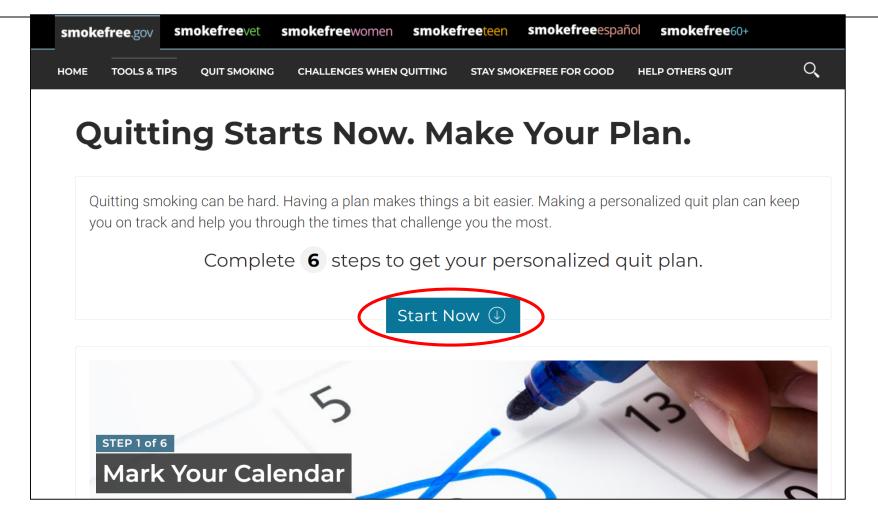
In a recent study, in a general population of 936 consumers who were screened for a study, only 1.9% (n=18) were unable to participate due to lack of technology (a device or a camera).

In another recent study, in a special population of **60** *limited literacy consumers (Hispanic, African American and multi-cultural)*, participants stated they get their information on OTC medicines:

- Google search: **93%**
- YouTube or social media: **77%**
- Ask or watch commercials: 32%



What about the DFL + links to dynamic websites?



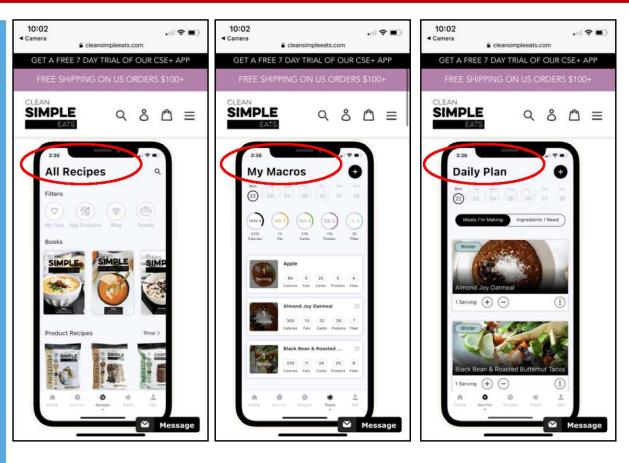
FDA's website, https://smokefree.gov/ build-your-quit-plan



The possibilities of DFL + QR codes...



Amount Per Serving	
Calories 24	
	aily Value
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat 0g	0%
Cholesterol Omg	0%
Sodium 1mg	0%
Total Carbohydrate 1g	0%
Dietary Fiber 1g	4%
Total Sugars 0g	
Added Sugars 0g	0%
Sugar Alcohols 0g	
Protein 5g	0%
Vitamin A (Beta-Carotene) 900mcg	100%
Vitamin C (Ascorbic Acid) 200mg	222%
Vitamin D (Cholecalciferol) 40mg	200%
Vitamin E (dl-Alpha Tocopherol) 30	mg 200%
Biotin D1% 50mcg	166%
Selenium (Chelate 20%) 1.2mg	2,181%
Collagen Proprietary Blend 5,72	27.85ma



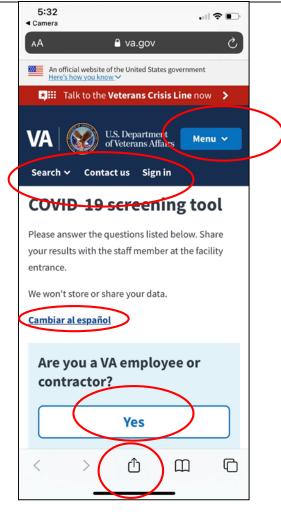




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DFLs + QR Codes can link to a survey...







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DFL + QR Codes can link to material to see & print





This QR Code links to a website with moving pages that provide information, a menu and the ability to print information.



Other considerations



- What about just self-selection criteria for "before use"?
 - More information could be found in an "Instructions for Use" approach or "Leaflet" inside the box or online.
- What if the DFL used only key words and phrases and more information was found in a leaflet or survey through a QR code
 - Consider that many other countries use QR codes or other abbreviated methods for communicating information in a Leaflet at the point of purchase
 - Consider that the additional information could be presented in alternate languages
- What is key icons could be used?
 - Could we leverage key icons on the PDP and/or DFL?
 - Could customized DFLs be highlighted to show focus for special populations?

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Pulling it all together

- We know what's not working
 - Current DFL is becoming too complex
 - It is difficult to find key information or what is MOST important
 - The order is not intuitive to most consumers
 - Uses, Directions, then Warnings
 - Add "side effects" and use plain language throughout
- We know what could work now and, in the future,
 - Parsed information and icons can help
 - Consider short-term technology aids such as barcodes or QR codes for quick access to information
 - In the future, consider customization by medical conditions and other medications based on the consumer's medical history and use of apps.







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