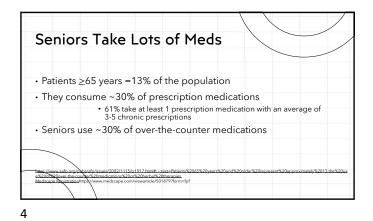
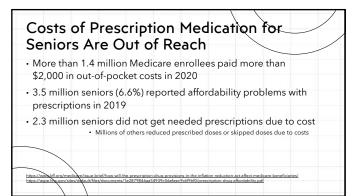


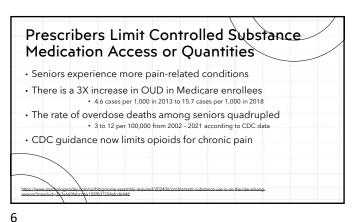
Disclosure			
The speaker has no finar associated with this topic supplements, peptides, a are FDA approved produ	. There will be c and counterfeit o	liscussion of dietary	

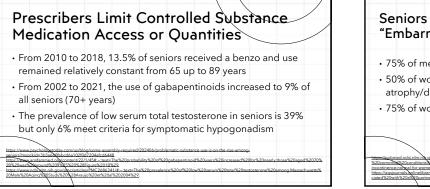
Objectives
At the conclusion of this talk the successful participant will be able to
Describe the reasons seniors are increasingly diagnosing and treating themselves with therapies
Describe the legal and regulatory pathways that provide seniors access to therapies outside the drug supply chain
Describe ways that pharmacists can recommend dietary supplements that are free of adulterants and contaminants
Describe the risks associated with self-treatment with dietary supplements, "peptides," and counterfeit drugs

3

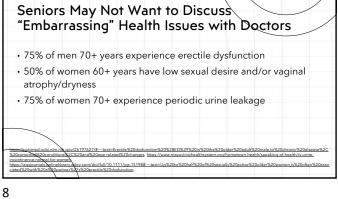


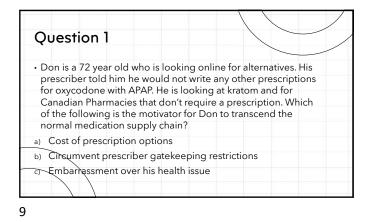






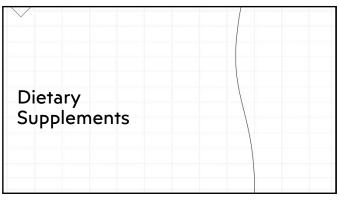


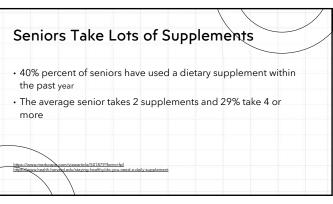


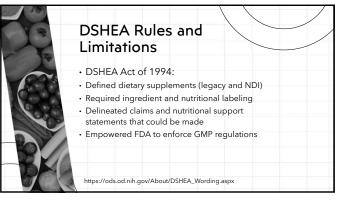


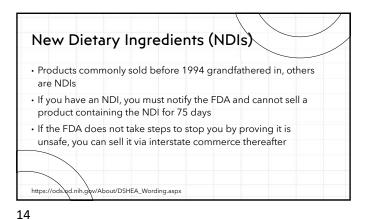
Question 1	
prescriber told him he would for oxycodone with APAP. He Canadian Pharmacies that d	ooking online for alternatives. His d not write any other prescriptions e is looking at kratom and for on't require a prescription. Which ator for Don to transcend the hain?
a) Cost of prescription option	IS
b) Circumvent prescriber ga	tekeeping restrictions
c) Embarrassment over his he	ealth issue

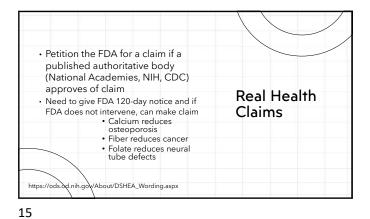












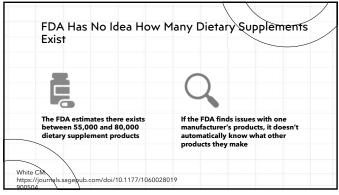
Quasi-Health Cla	Ims	_
• Quasi-Health Claims: supp	oorts heart, eye, liver, etc, health	
 FDA cannot reject a quasi-heal disclaimer that would eliminate 	th claim unless the FDA ALSO finds no e the misconception	
	: has not been evaluated by the FD, ed to diagnose, treat, cure, or preve	
_		

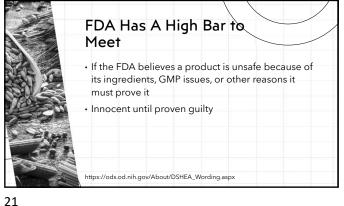


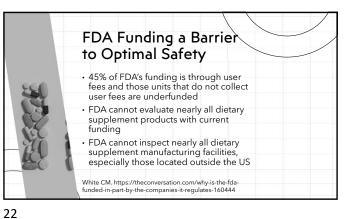
Qu	asi-Health Claims
	Must have data to substantiate the quasi-health claim but do not have to send the information to FDA
	Must alert the FDA of your intention to use a quasi- health claim at least 30 days prior
	FDA can intervene if it chooses and has substantive evidence that the claim is incorrect

GMP	
• DSHEA	1994 allows FDA to enforce GMP
	 Facility cleaning & pest control Maintaining & cleaning equipment Quality control procedures Lab and manufacturing operations
drug pro	roves a company's failure to meet GMP, can render the oduct adulterated under 402(g) of the Federal Food d Cosmetics Act





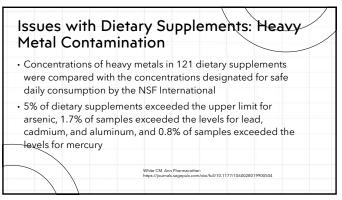


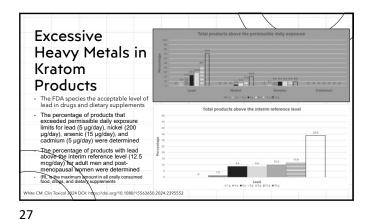






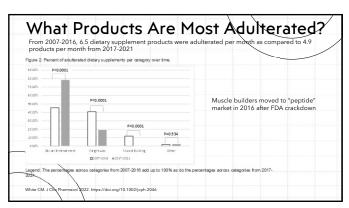


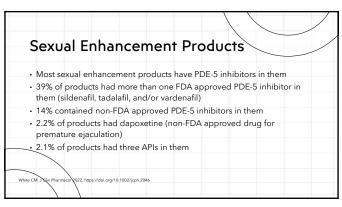


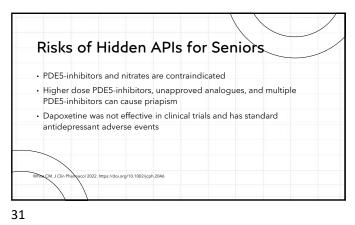


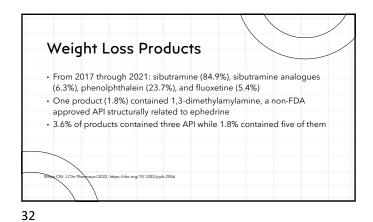
Issues with Dietary Supplements: Adulterated with Synthetic Drugs
 From 2007-2016, 6.5 dietary supplement products were adulterated per month as compared to 4.9 products per month from 2017-2021
 From 2007-2016, 619 of 776 products (79.8%) were adulterated by a single API but this was reduced to 138 of 292 products (47.3%) from 2017-2021 (p<0.0001).
When CM. J Clin Pharmacol 2022. https://doi.org/10.1002/jcph.2046

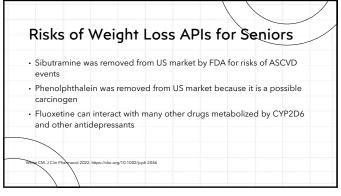


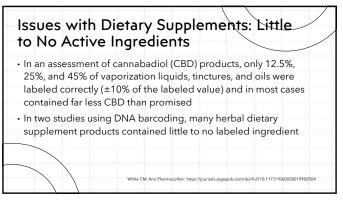




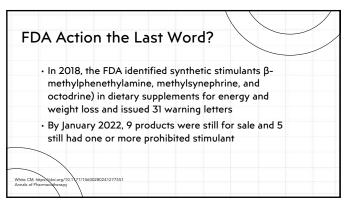




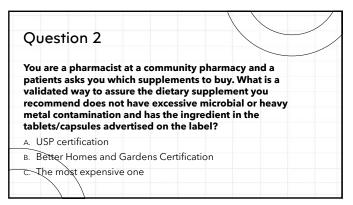




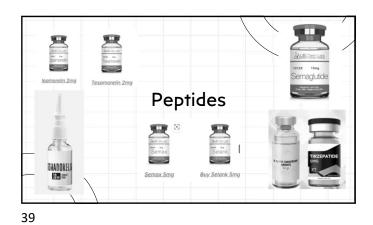


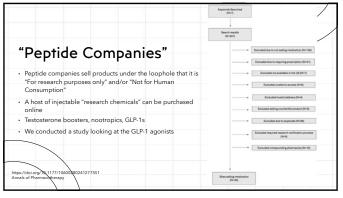


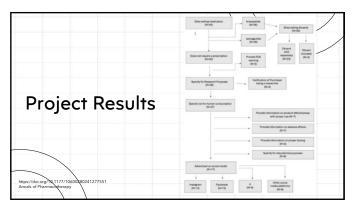


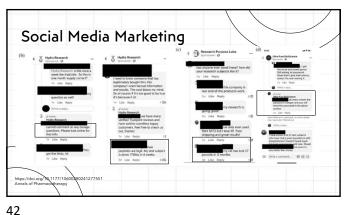


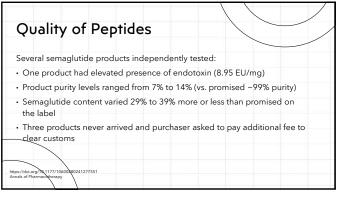








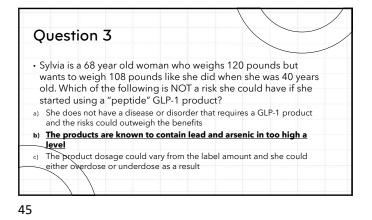


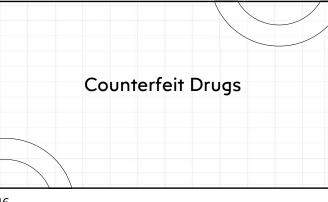


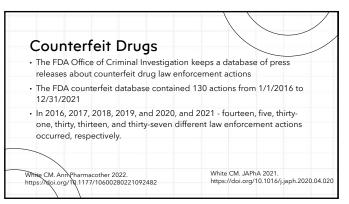


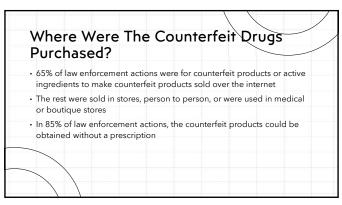
Question 3	
o 1	e she did when she was 40 years NOT a risk she could have if she
a) She does not have a disease or dia and the risks could outweigh the b	
ь) The products are known to contain	n lead and arsenic in too high a level
c) The product dosage could vary fr either overdose or underdose as a	

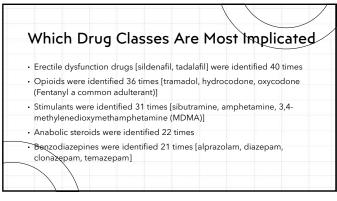


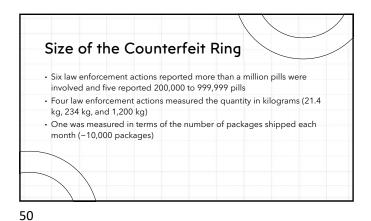


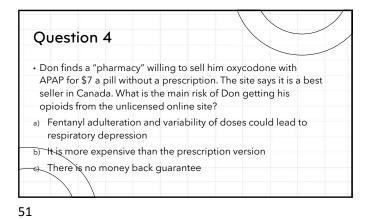












Question 4	
 Don from question 1 finds a "phoxycodone with APAP for \$7 a p site says it is a best seller in Cana Don getting his opioids from the 	ill without a prescription. The ada. What is the main risk of
a) Fentanyl adulteration and va to respiratory depression	
b) It is more expensive than the p c) There is no money back guara	· ·



C	Conclusions:
	Seniors can use dietary supplement product, peptide company products, and counterfeit drugs to access (knowingly or not) drugs without a prescription
	Cost, desire to circumvent safeguards, and embarrassment are main reasons seniors go it alone
	The FDA is feebly unable to prevent many of these risks to seniors (and others) even though they are trying really hard
	The dietary supplement laws make it hard for the FDA to take action and the current drug laws allow peptide companies a loophole to directly sell drugs to seniors
	Pharmacists must ask about the use of these nonstandard products and relay the risks to consumers