



Why Do Americans Use Dietary Supplements?

Motivations for Dietary Supplement Use

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Agenda

USE

How do people vary in dietary supplement use?

MOTIVATIONS

- Do people think they are "deficient"?
- Do motivations for use vary by
 - person (demographics, health status, readiness)
 - supplement (nutrient vs herbal/botanical)
- Are some people more ready to use than others?



IMPLICATIONS for dietitians



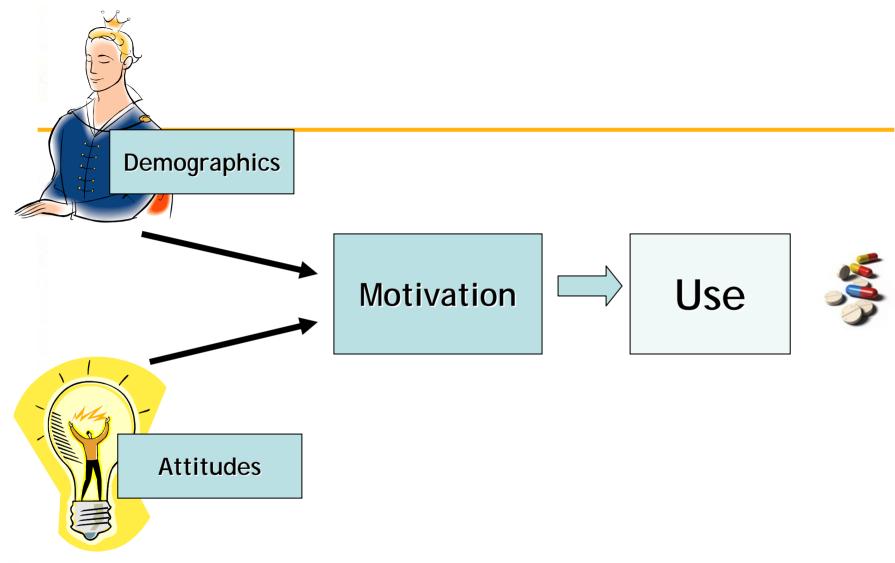












N=2002 nationally representative grocery shoppers, in 2003





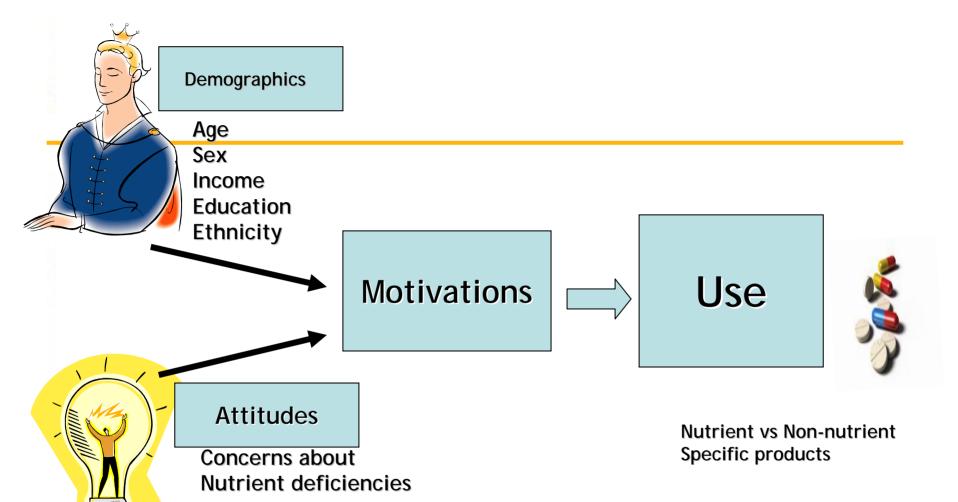


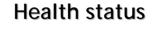












Readiness to engage In preventive behaviors



















Population

- Representative sample
 - Primary grocery shoppers/heads of household in USA, 2003
 - N=2002
 - Surveyed by National Family Opinion for The Natural Marketing Institute (NMI)
 - 16 page mail-home questionnaire of Health and Wellness
 - Secondary data analysis funded by ODS, NIH



Results nationally projectable within 2%

















Methods

- **Motivations and use**
 - General
 - For specific conditions/purposes
 - weight loss
 - managing chronic conditions
 - others

- Respondents
 - **Demographics**
 - Age
 - Sex
 - Income
 - **Education**
 - **Ethnicity**
 - Current health status
 - Type of supplement used
 - nutrient vs nonnutrient
 - Readiness to use DS



















Methods

- Respondent characteristics
 - Demographics
 - Age
 - Sex
 - Income
 - Education
 - Ethnicity
 - Current health status
 - DS use
 - Motivations
- Supplement characteristics
 - Type (nutrient vs herbal and other)
 - Category (MVM, single nutrient, condition-specific)















How do people vary in DS use?









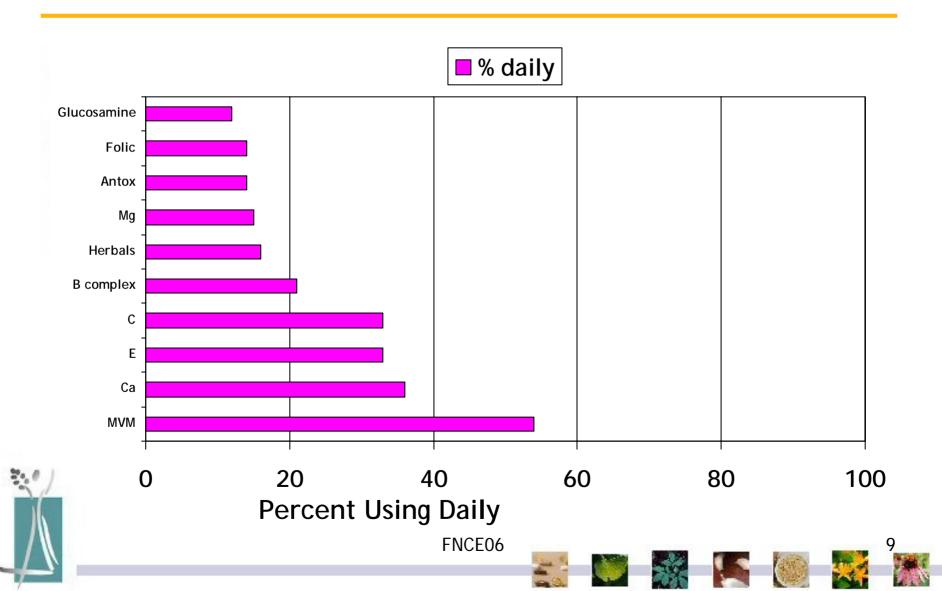




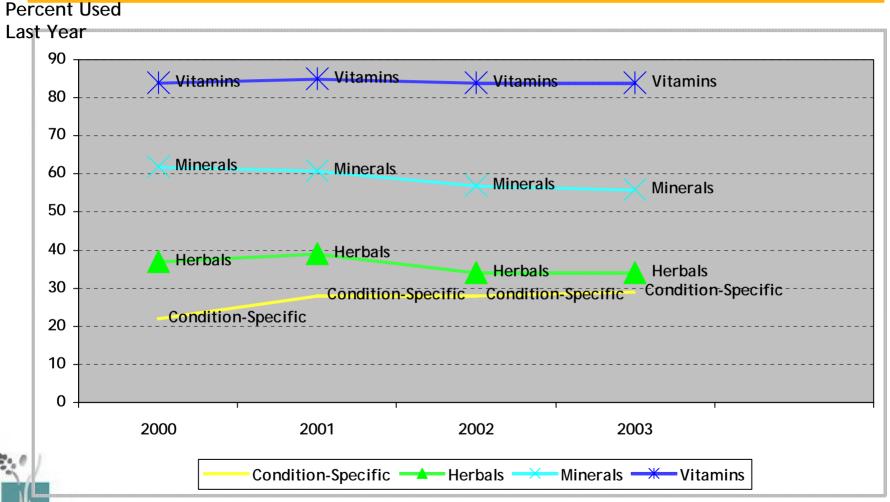




Most Popular Nutrient DS 2003



Lately herbal DS decreasing and condition-specific DS increasing!













Factors affecting use

Demographics

- More with age especially if feeling poorly
- F>M
- W> B or Hispanic
- More with poor current health status
- Supplement type and category also affect







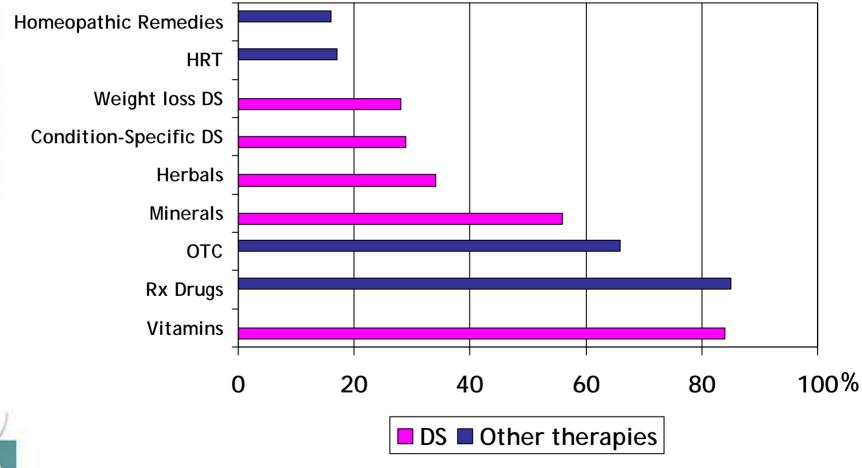








Use of some DS very common past year



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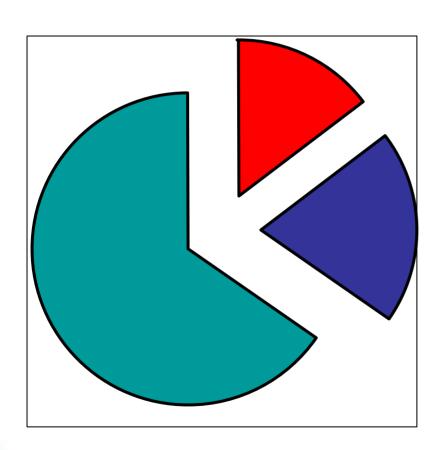








People use DS in various ways



- Use DS & alternative healthcare first
- Use combo DS,RX **&OTC drugs** simultaneously
- Use Rx drugs first



















Implications for Dietitians

- With patients undergoing medical treatment
 - If prescription drugs are prescribed, encourage their use as directed first

- Ask about DS use since it is common among the ill
 - Counsel to avoid possible adverse interactions















Implications for Dietitians

- People at special risk
 - Use DS first for treatment
 - Use DS, conventional medical therapies and CAM all at the same time for disease treatment

 Need to note to avoid interactions and failure to apply better tested treatments







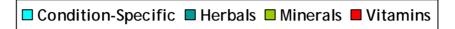


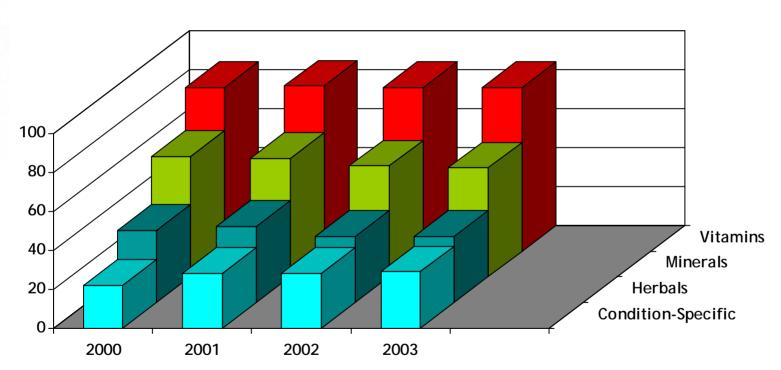






Herbals going down over time; condition-specific DS up!



















Motivations















Do people think they are "deficient"?







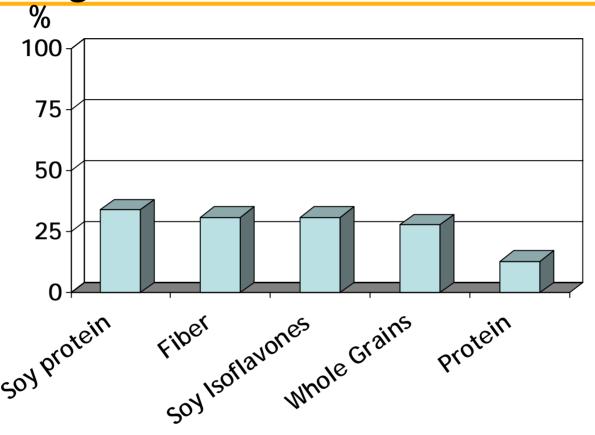








Concerned about "deficiencies" in foods, ingredients, and nutrients





■ Percent

Which do you consider deficient in your current diet?











What are consumer perceptions of nutrient/food deficiencies?

















Implications

 Consumers mix up poor food choices and true nutrient deficiencies

 Some think that eating less of a food than recommendations is "deficiency"















Implications

- Consumer and medical views of deficiency differ
 - Consumers interpret phrase as :
 - "not getting enough in diet"







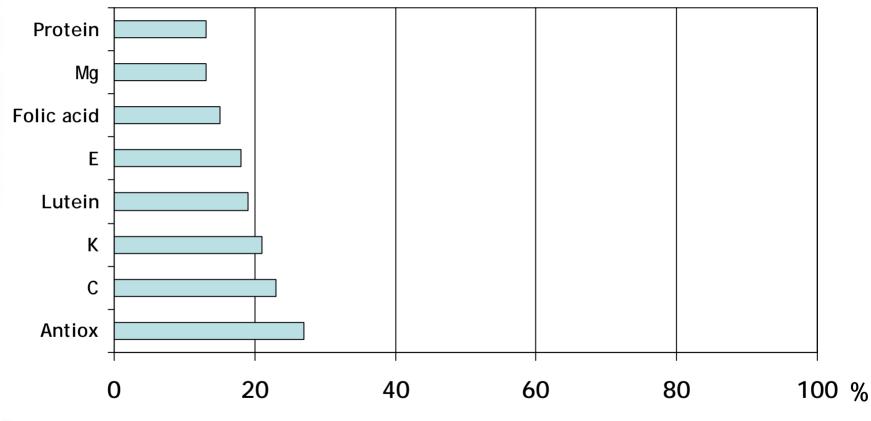








Concerned about "deficiencies"





Which do you consider deficient in your current diet? FNCE06



■ Percent











Validity of dietary deficiency concerns varies

- Some evidence for low intakes in subgroups in for
 - Some nutrients: folic acid ,calcium , soy, fiber, potassium
 - Some foods: Whole grains
- But little evidence for others
 - Soy protein and isoflavones
 - Water
 - Omega 3's?







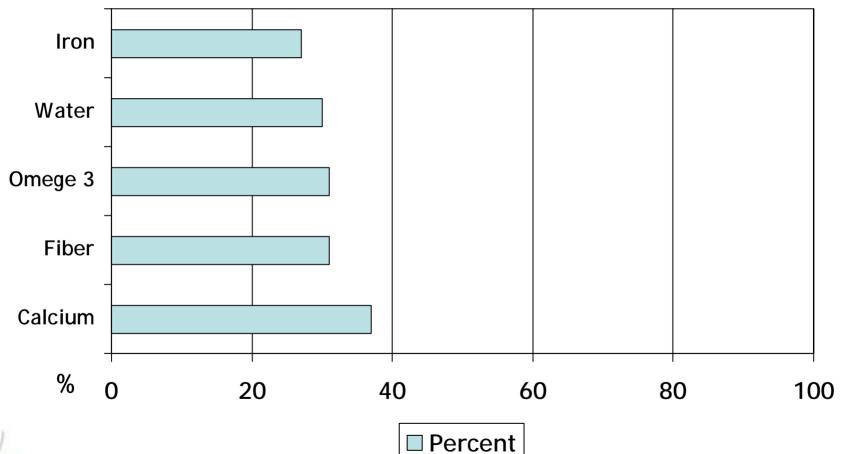








Concerned about "deficiencies"





Which do you consider deficient in your current diet?















Implications

Sizable minority think they have nutrient deficiencies















 Those reporting feeling poorly reported more perceived nutrient deficiencies

 However, perceived deficiencies of nutrients & foods not associated with use of DS















Implications

 People who report a "deficiency" more likely to also report health problems















Why do people use supplements?

Depends on person's characteristics

Also on type of supplement















Personal characteristics

- Sex
 - Big differences by sex on type of DS used

- Poor reported health status
 - More use of herbal, condition-specific DS
 - Less of vitamin minerals















- Poor Reported Health Status
 - Those in poor physical, emotional or mental health used DS for specific health conditions more

- Implication
 - Be sure to check DS use in ill















Demographics

- Women more mentions of
 - "MD recommended"
 - "Good for me and family"

- Implication:
 - Women often traffic cops for DS use in families; enlist their help when DS needed







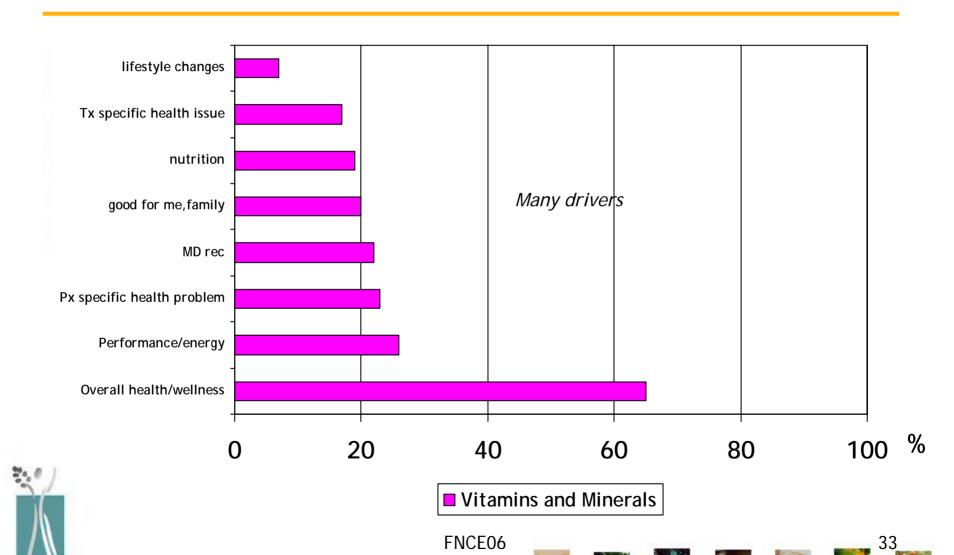




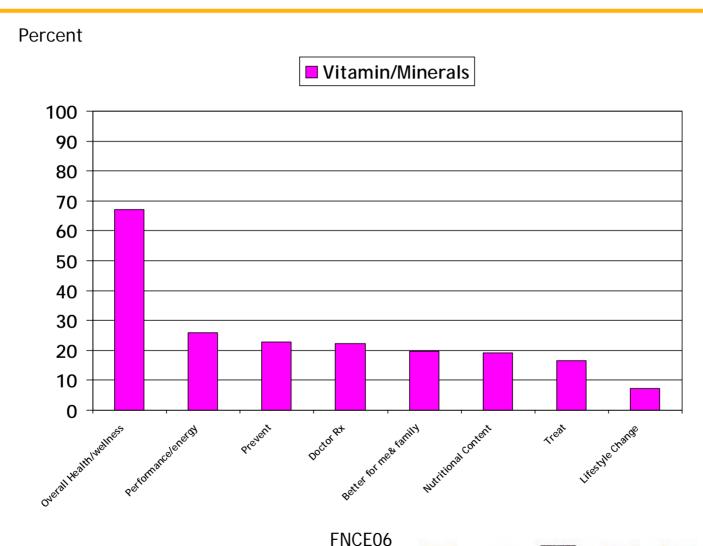




Why Vitamin Mineral DS important to me



Reasons for first using vitamin mineral DS







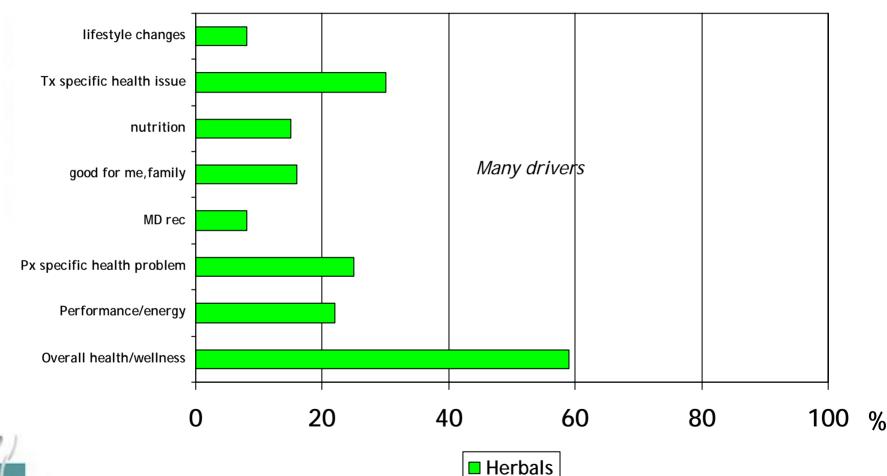








Why Herbal DS are important to me











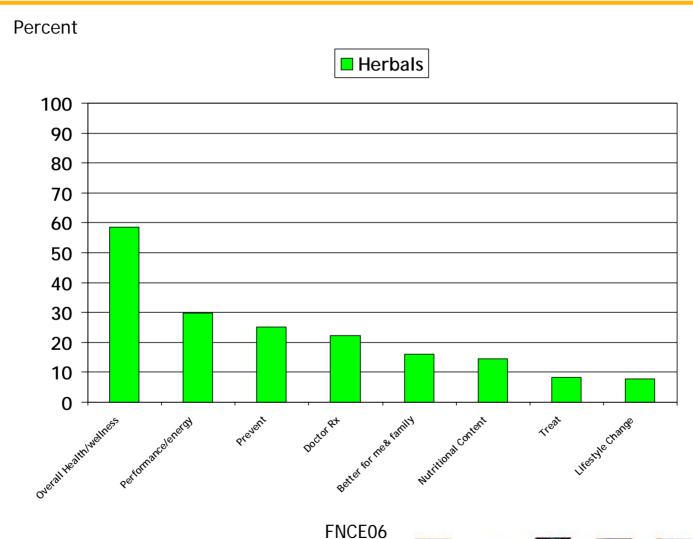








Reasons for first using DS









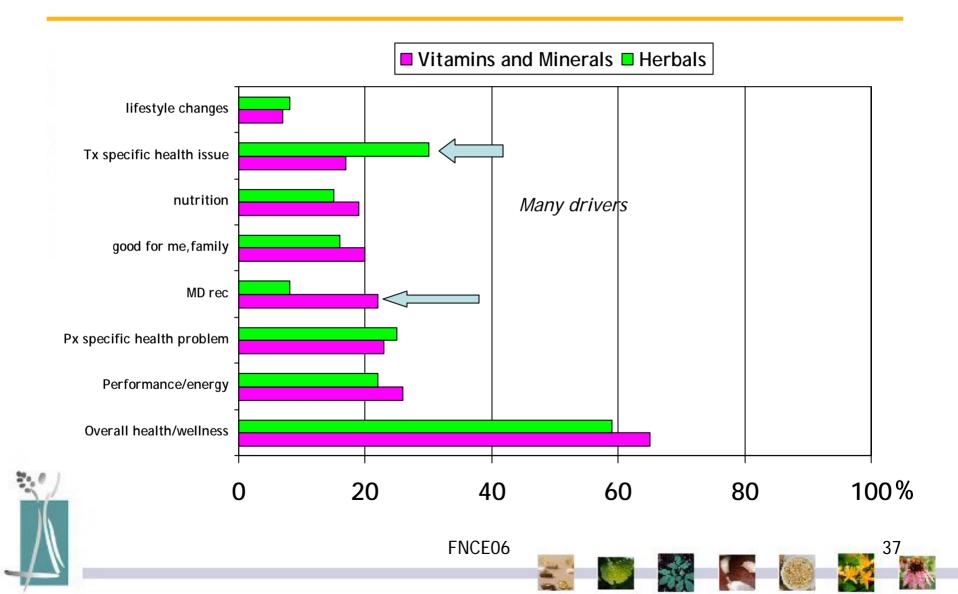




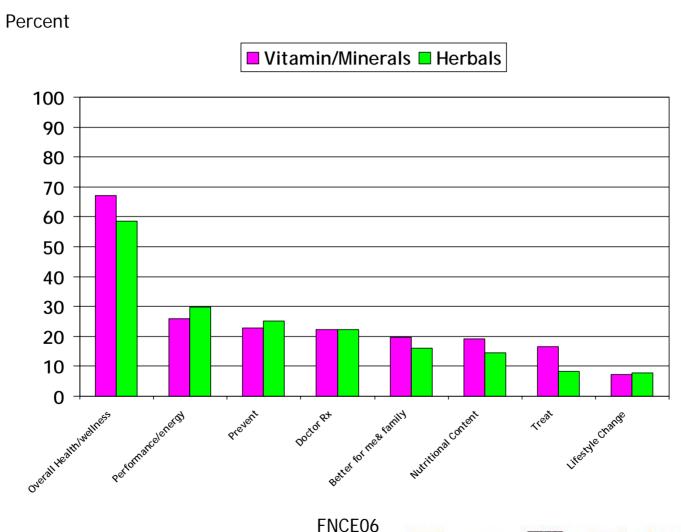




Why DS are important to me



Reasons for first using DS

















Implications

Many drivers for use

Differ only slightly by supplement type















Why do people use dietary supplements???















Authoritative Guidance

The Law:

- DSHEA 1995:
- DS are not for prevention or treatment of disease

Experts

DS inappropriate as substitutes for evidencebased therapies prescribed by physicians







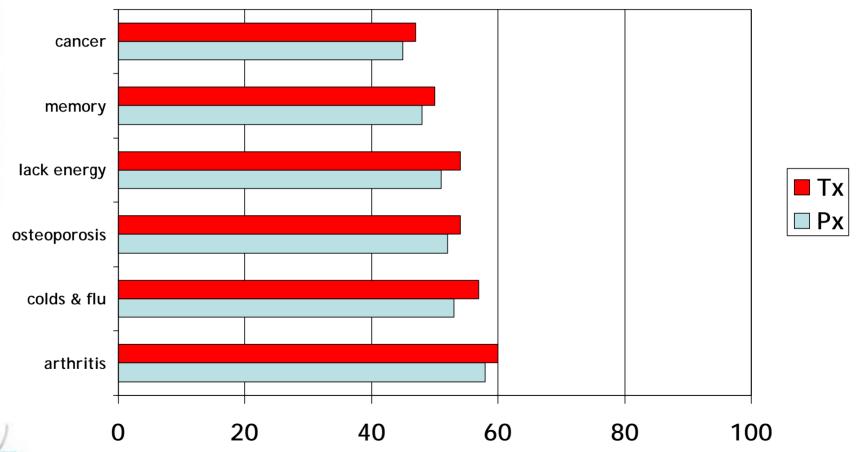








Consumer view DS as helpful in Px and Tx of many conditions



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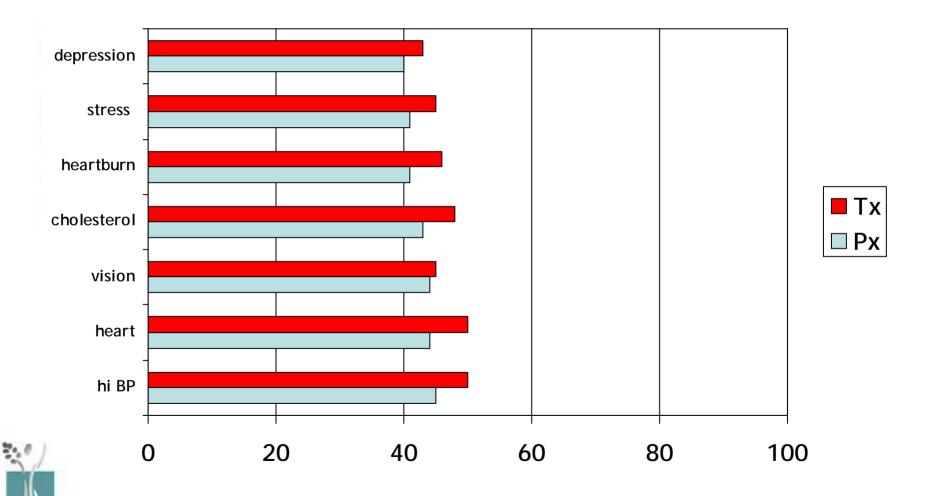








Consmers view DS as helpful in Px and Tx of many conditions





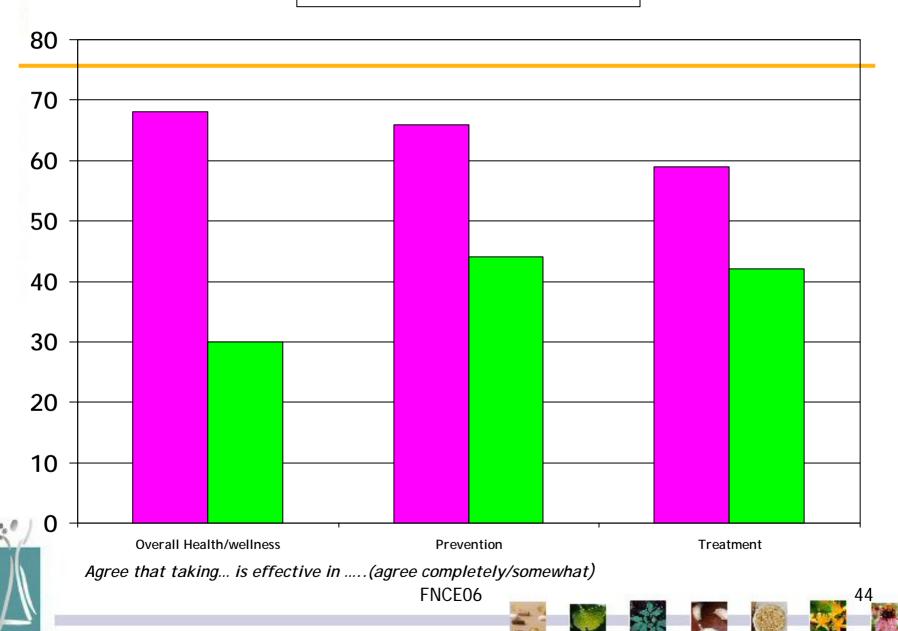




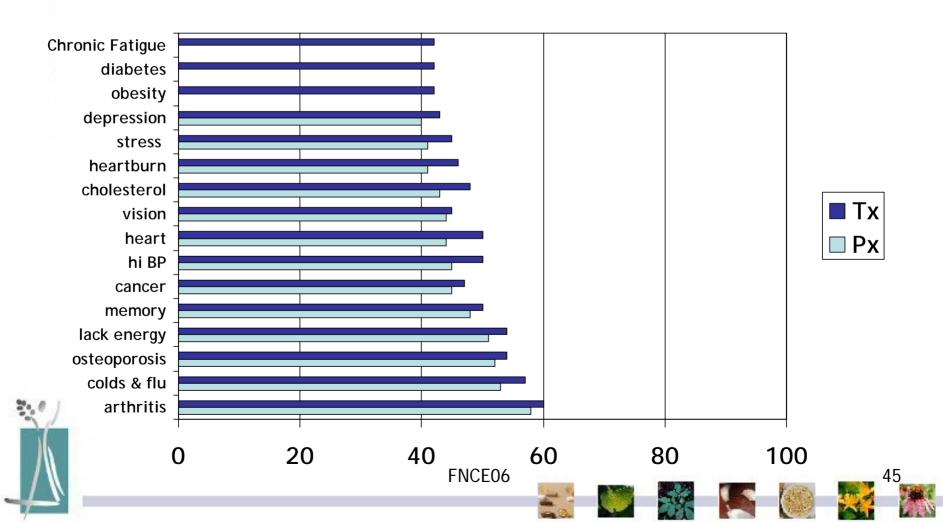




■ Vitamin/Minerals ■ Herbals



Consumers view DS as helpful in Px and Tx of many conditions



Implications

 DS often used in ways differently than the law intends

Caution needed, especially if for treatment















Are some people readier than others to use dietary supplements?















Readiness for behavioral change

 Prochaska: trans-theoretical model of readiness of behavioral change

Readiness varies by types of DS





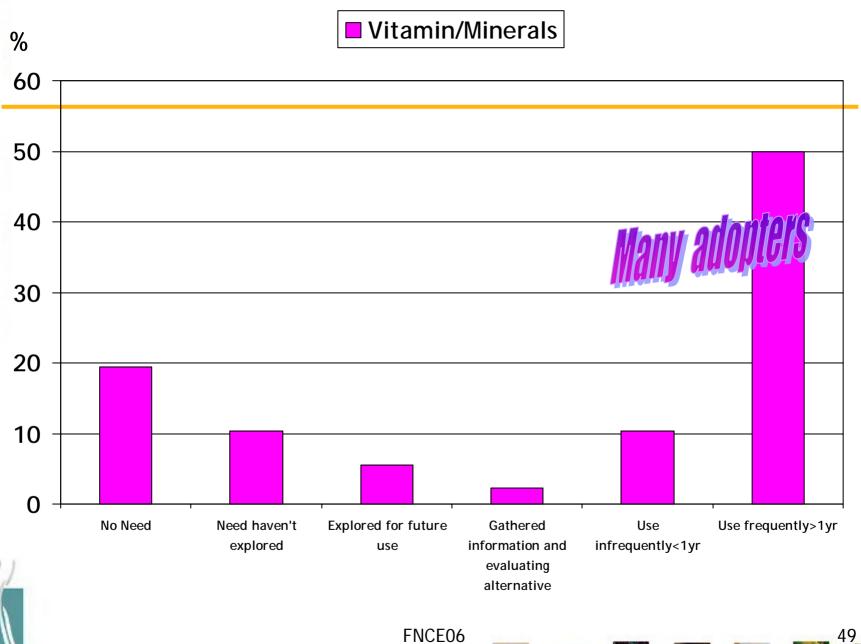












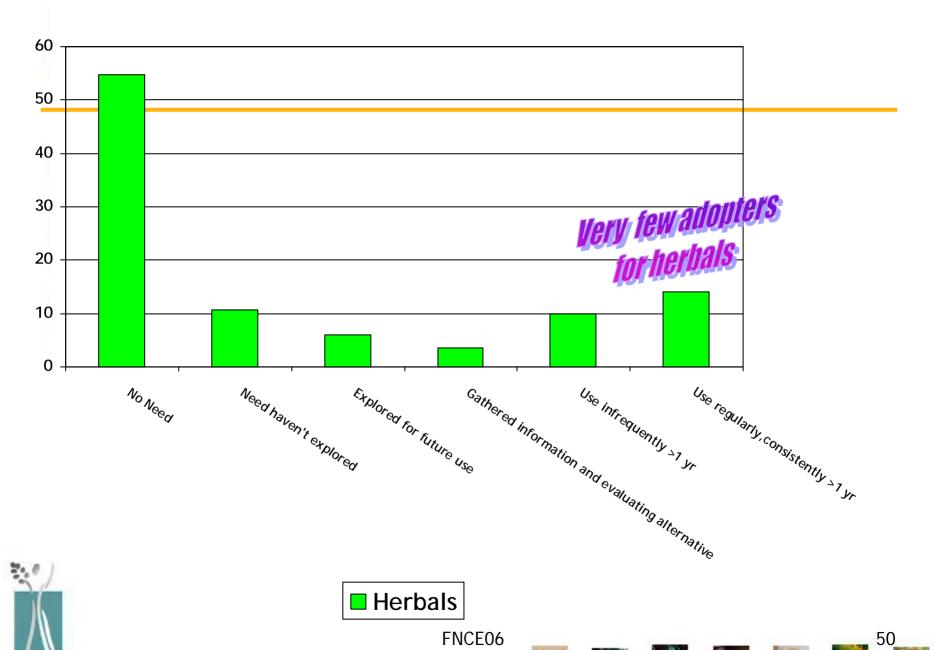






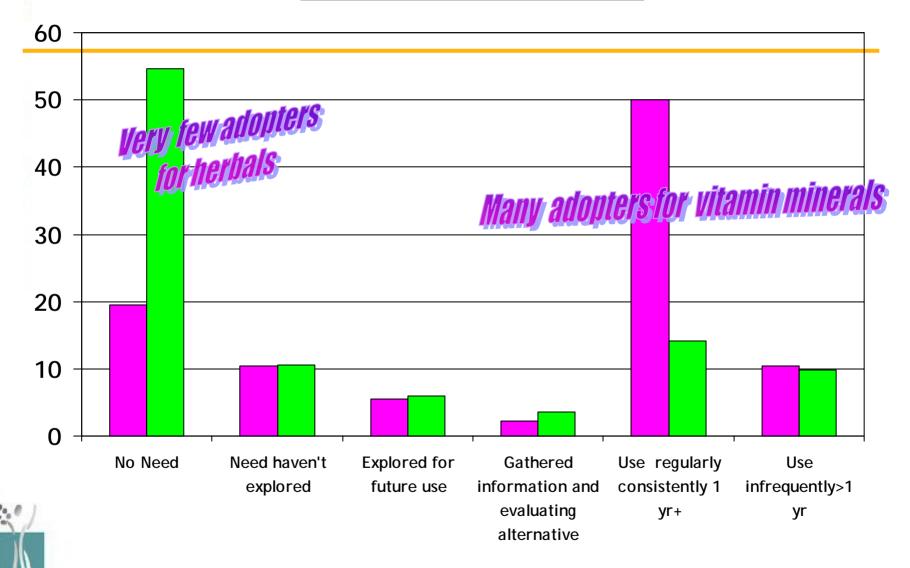








■ Vitamin/Minerals ■ Herbals















How are motivations and use of DS related?















Do motivations cause use?

■ Knowledge-→ Attitudes-→ Use motivations















Or do people develop motivations to justify use???

motivations

■ Use → Attitudes -- → Knowledge







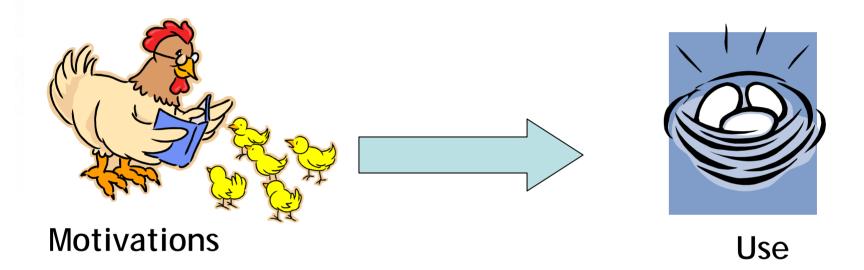








Are motivations the chicken ??









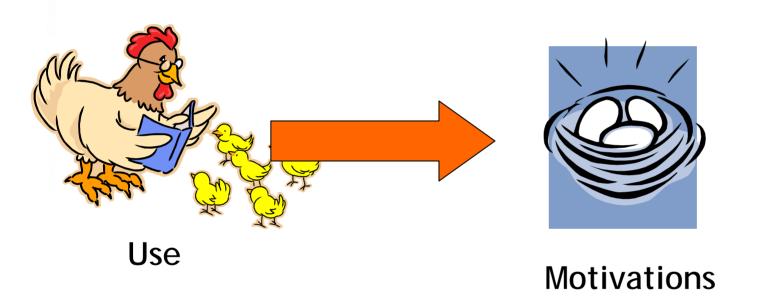








Or, are motivations the egg??

















Implications for dietitians

Some people get in the habit and then find reasons for behavior

- Often due to social influence
- Others operate in a more deliberate manner

 Consider both ways to influence behavior when collecting information about dietary supplement use!















Case: Women in reproductive age group and folic acid DS

 Some get into the habit of taking a folic acid supplement

 Others use only after appealing to logic and attitudes















Conclusions















Conclusions

Motivations for dietary supplement use complex

 Patterns of use vary depending on supplement















Implications for dietitians

 Many interactions between medications , drugs and dietary supplements

Check about interactions!

Put interactions in the chart!

















Implications for dietitians

Probe about dietary supplement use

 To get total dietary intake must include nutrient containing dietary supplements!















Acknowledgements

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 - http://Nutrition.gov
 - http://ods.od.nih.gov
- DSID group
- Thanks to Steve French and The Natural Marketing Institute (NMI) for analyses

www.NMIsolutions.com















Dietary Supplement Ingredient Database

















Conclusions

USE

People vary greatly in dietary supplement use

MOTIVATIONS

- A substantial minority of people think they are "deficient"; either in foods or nutrients or both
- Motivations for use vary by
 - person (demographics, health status, readiness)
 - supplement (nutrient vs herbal/botanical)
- Some people (nutrient supplement users) are more ready to use DS than others
- **IMPLICATIONS** for dietitians:always ask about DS













