

Supporting Data Reuse Through DDI Metadata and Persistent Identifiers

Mary Vardigan
Assistant Director, ICPSR
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ICPSR
A PARTNER IN
SOCIAL SCIENCE
RESEARCH

50
years



Today's Presentation

- Data Discovery and Reuse Scenario
 - Start from Web of Knowledge
 - Identify article and download
 - Find data citation
 - Discover the dataset at ICPSR
- Review of ICPSR Metadata and Services
- What's New at ICPSR

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All Databases

Search

Example: oil spill mediterranean*

in

AND

Example: oil spill mediterranean*

in

AND

Example: oil spill mediterranean*

in

[Add Another Field >>](#)[Search](#)[Clear](#)

Searches must be in English

Current Limits: (To save these permanently, [sign in or register.](#))

☐ Timespan☒☐

From

to

(default is all years)

☐ Adjust your search settings☐ Adjust your results settings

All Databases

Select a Database

Web of Science

Additional Resources

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Compound Marked List (0)

All Databases

Results Title=(religiosity) AND Title=(alcohol)

Timespan=All Years.

Search language=English Lemmatization=On

Note: Alternative forms of your search term (for example, tooth and teeth) may have been applied, in particular for Topic or Title searches that do not contain quotation marks around the terms. To find more options on the search page.

Results: 39

Page 1 of 4 Go

Refine Results

Search within results for

 Search

Databases

General Categories

Refine

☐ SCIENCE TECHNOLOGY☐ SOCIAL SCIENCES☐ ARTS HUMANITIES

Subject Areas

Refine

☐ PSYCHOLOGY☐ BEHAVIORAL SCIENCES☐ PSYCHIATRY☐ RELIGION☐ SUBSTANCE ABUSE[more options / values...](#)

Document Types

IC

A

SOCIAL

REL

Chinese

Authors

  (0)   Save to: [EndNote Web](#) [EndNote](#) [RefWorks](#) [ResearcherID](#) [more options](#)

- ☐ 1. Title: **Religiosity** and Adolescent Substance Use in Central Mexico: Exploring the Influence of Internal and External Religi
Author(s): Marsiglia Flavio Francisco; Ayers Stephanie L.; Hoffman Steven
Source: AMERICAN JOURNAL OF COMMUNITY PSYCHOLOGY Volume: 49 Issue: 1-2 Pages: 87-97 DOI: 10.1007/s10464-011-9439-9
Times Cited: 0 (from All Databases)
[MGet It](#) [Full Text](#) [View abstract](#)
- ☐ 2. Title: **Religiosity, Alcohol Use Attitudes, and Alcohol Use in a National Sample of Adolescents**
Author(s): Vaughan Ellen L.; de Dios Marcel A.; Steinfeldt Jesse A.; et al.
Source: PSYCHOLOGY OF ADDICTIVE BEHAVIORS Volume: 25 Issue: 3 Pages: 547-553 DOI: 10.1037/a0024660 Published: SEP 2011
Times Cited: 0 (from All Databases)
[MGet It](#) [Full Text](#) [View abstract](#)
- ☐ 3. Title: **Religiosity** and Spirituality of **Alcohol** and Marijuana Users
Author(s): Lorencova Radmila
Source: JOURNAL OF PSYCHOACTIVE DRUGS Volume: 43 Issue: 3 Pages: 180-187 DOI: 10.1080/02791072.2011.605650 Published:
Times Cited: 0 (from All Databases)
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- ☐ 4. Title: **The Moderating Effect of Religiosity on the Genetic Variance of Problem Alcohol Use**
Author(s): Button Tanya M. M.; Hewitt John K.; Rhee Soo H.; et al.
Source: ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH Volume: 34 Issue: 9 Pages: 1619-1624 DOI: 10.1111/j.1530-0277.21
Times Cited: 2 (from All Databases)
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BRIEF REPORT

Religiosity, Alcohol Use Attitudes, and Alcohol Use in a National Sample of Adolescents

Ellen L. Vaughan
Indiana University

Marcel A. de Dios
Alpert Medical School of Brown University, and Butler
Hospital, Providence, Rhode Island

Jesse A. Steinfeldt and Lisa M. Kratz
Indiana University

The purpose of this study was to investigate alcohol use attitudes as a mediator of the relationship between religiosity and the frequency of past month alcohol use in a national sample of adolescents. Data were drawn from 18,314 adolescents who participated in the 2006 and 2007 National Survey on Drug Use and Health. Variables included religiosity, alcohol use attitudes, and past month frequency of alcohol use. Structural equation modeling was used to test alcohol use attitudes as a mediator of the relationship between religiosity and frequency of alcohol use and to test model invariance across 4 racial/ethnic groups. Results suggest that alcohol use attitudes partially mediate the relationship between religiosity and frequency of alcohol use. Furthermore, while the pattern of these relationships is similar across racial/ethnic groups, the magnitude of alcohol use attitudes on frequency of alcohol use differed. Implications for prevention programs include targeting alcohol use attitudes in a variety of settings.

Keywords: religiosity, attitudes about alcohol use, alcohol, racial/ethnic differences

DOI Found in References – Success!

References

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- U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Office of Applied Studies.

[doi:10.3886/ICPSR21240](https://doi.org/10.3886/ICPSR21240)

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National Survey on Drug Use and Health, 2006

Principal Investigator(s): United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies

Summary: The National Survey on Drug Use and Health (NSDUH) series (formerly titled National Household Survey on Drug Abuse) primarily measures the prevalence and correlates of drug use in the United States. The surveys are designed to provide quarterly, as well as annual, estimates. Information is provided on the use of illicit drugs, alcohol, and tobacco among members of United States households aged 12 and older. Questions included age at first use as well as lifetime, annual, and past-month usage for... [view full summary](#)

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The subject terms below relate to this study. By clicking on any of them, you can view a list of other studies related to that subject.

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- [alcohol](#)
- [alcohol abuse](#)
- [alcohol consumption](#)
- [amphetamines](#)
- [barbiturates](#)
- [cocaine](#)
- [controlled drugs](#)
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- [demographics](#)
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- [drinking behavior](#)
- [drug abuse](#)
- [drug dependence](#)
- [drug treatment](#)
- [drug use](#)
- [drugs](#)

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About Metadata at ICPSR

- ICPSR has over 8000 studies, each with study-level and variable-level metadata
- ICPSR uses a structured metadata standard for social science data – Data Documentation Initiative (DDI)
- DDI has two development lines – Codebook and Lifecycle (we use DDI-C)
- DDI XML drives much of the site functionality



Data Documentation Initiative

[What is DDI?](#)[DDI Alliance](#)[What's New](#)[DDI At Work](#)[Controlled Vocabularies](#)[Resources](#)[Specification](#)[Community](#)

Last Updated: Wed, 2010-10-27 08:08 — icpsr-web

Welcome to the DDI

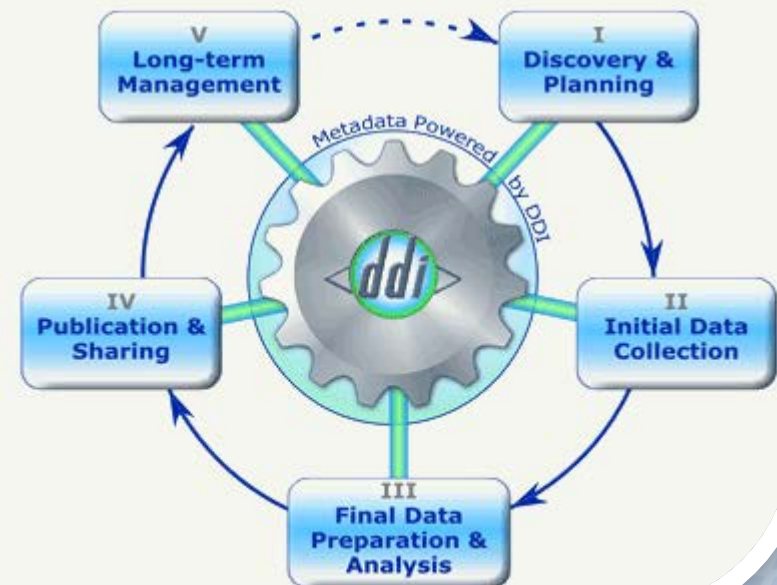
A metadata specification for the social and behavioral sciences

Use DDI to:

- Document your data across the life cycle
- Interoperate with others
- Do Data Intelligently (DDI)!

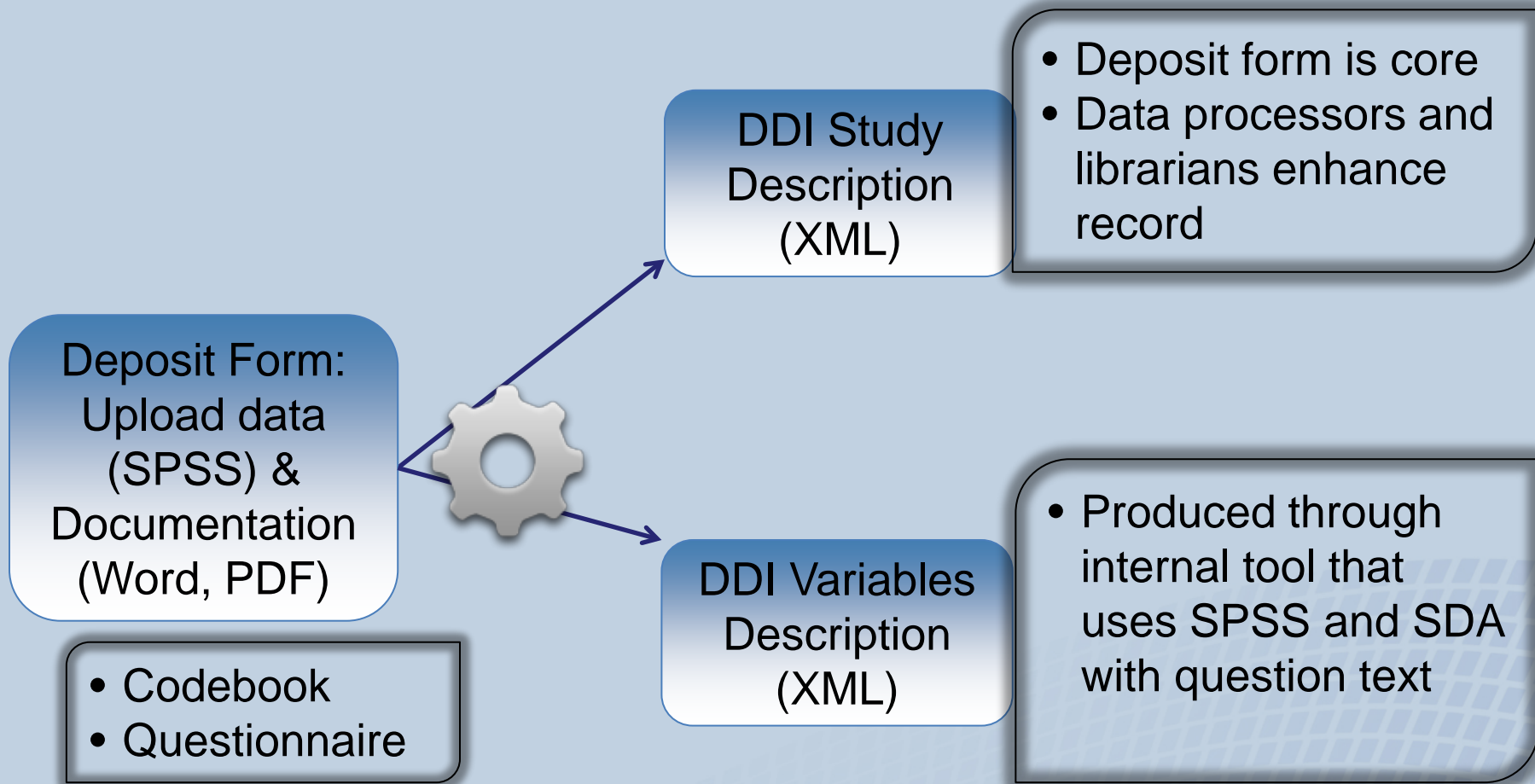
Find out how others have put [DDI to work](#) in their organizations, explore [resources](#) for learning more about and using the DDI, or join the [DDI Community](#).

[Download the DDI 3.1 Specification](#)



www.ddialliance.org

Generating DDI Metadata at ICPSR



Study-level DDI Elements

- Title, Alternate Title
- Study Number
- Principal Investigator
- Funding
- Bibliographic Citation
- Series Information
- Summary
- Subject Terms
- Geographic Coverage
- Time Period
- Date of Collection
- Unit of Observation
- Universe
- Data Type
- Sampling
- Weights
- Mode of Collection
- Response Rates
- Extent of Processing
- Restrictions
- Version History

Forthcoming:

Time Method (e.g., longitudinal)

Data Method (e.g., qualitative)

Study-level DDI leveraged in several ways:

- Search -- Forms basis of Solr Lucene faceted search
- Repurposing – Record is reused across ICPSR's topical archive sites
- Interoperating -- Records shared with Data-PASS, Odesi archive, and CESSDA archives
- Study Overview – Becomes PDF overview bundled with each download

Variable-level DDI Elements

- Variable group reference
- Variable name and ID
- Variable label
- Descriptive variable text
- Question text
- Category label and value (responses)
- Category statistics (frequencies)
- Summary statistics
- Notes

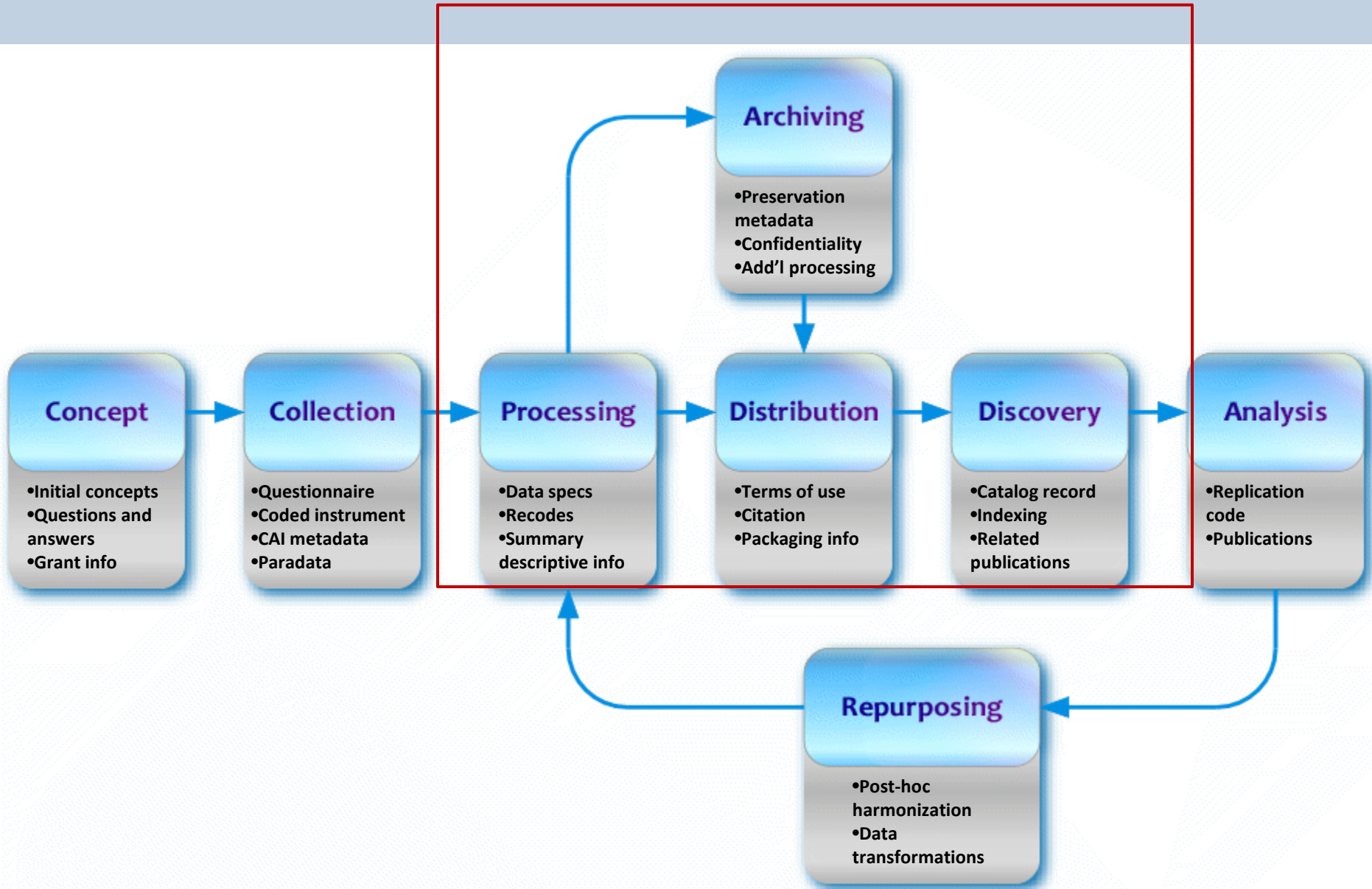
Variable-level DDI leveraged in several ways:

- Search -- Permits search of variables in a dataset
- Search across ICPSR -- Serves as foundation for Social Science Variables Database
- Integration with online analysis
- Crosswalk -- Serves as input to crosswalk for series data
- Codebook with frequencies -- Enables generation of PDF documentation
- Integrated codebook -- Forthcoming

Improving Metadata

- Getting structured metadata in DDI format at deposit is goal
- Can come from CAI system or other tools
- Should be accumulating all along the metadata-driven data life cycle
- Moving to DDI Lifecycle is goal

Metadata-Driven Data Life Cycle



Landing Page: doi:10.3886/ICPSR21240

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- [crack cocaine](#)
- [demographics](#)
- [depression](#)
- [drinking behavior](#)
- [drug abuse](#)
- [drug dependence](#)
- [drug treatment](#)
- [drug use](#)
- [drugs](#)

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- View study description
- Browse documentation files
- List all variables in the collection
- Search variables
- View related literature
- View related literature for series

Explore: View study description

Description & Citation--Study No. 21240

- [Bibliographic Description](#)
- [Scope of Study](#)
- [Methodology](#)
- [Access and Availability](#)

Bibliographic Description

Study No.: 21240

Title: National Survey on Drug Use and Health, 2006

Alternate Title: NSDUH 2006

Principal Investigator(s): [United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies](#)

Funding: United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies (283-2004-00022)

Bibliographic Citation: United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies. National Survey on Drug Use and Health, 2006. ICPSR21240-v4. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2009-08-12. doi:10.3886/ICPSR21240.v4

Series: [National Survey on Drug Use and Health \(NSDUH\) Series](#)

Scope of Study

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Data Citation

United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies. National Survey on Drug Use and Health, 2006. ICPSR21240-v4. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2009-08-12. doi:10.3886/ICPSR21240.v4

Export: [RIS](#) (?)

Why should I cite data?

Citing data files in publications based on those data is important for several reasons:

- Other researchers may want to replicate findings and need the citation to identify/locate the data.
- Citations are harvested by key social sciences indexes, such as Web of Science, providing credit to the researchers.
- Data producers and funding agencies can track citations to measure impact.

[more info](#)

Study description repurposed



Variables	Study descriptions	Publications
Enter the search term(s): <input type="text"/>		
searching tips GO >>		

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National Survey on Drug Use and Health, 2006

Principal Investigator(s): United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Office of Applied Studies

Quick SDA

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Explore: Browse documentation

Browse Documentation--Study No. 21.

Title: National Survey on Drug Use and Health, 2006

Study-Level Files:

- [Related Literature](#)
- [Description & Citation](#)
- [File Manifest](#)

DS1:

- [Codebook - pdf](#) (7,240KB)
 - [Questionnaire - pdf \(cards\)](#) (1,128KB)
 - [Questionnaire - pdf \(screener\)](#) (2,712KB)
 - [Questionnaire - pdf \(specs\)](#) (2,088KB)
-

Explore: Search variables

Variables:

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Search for Variables

SNRLGIMP: MY RELIGIOUS BELIEFS ARE VERY IMPORTANT

Name: SNRLGIMP

Label: MY RELIGIOUS BELIEFS ARE VERY IMPORTANT

Question:

The values in the section may be inconsistent with values from the core section(s). Items in this section were edited when respondents legitimately skipped out of these items based on prior answers in the core section(s). Otherwise, non-core items generally were not edited to make them consistent with core items, and core items were not edited to make them consistent with non-core items.

(SENREBE1) These next questions are about the role that religious beliefs may play in your life. For each statement, please indicate whether you strongly disagree, disagree, agree, or strongly agree.

Your religious beliefs are a very important part of your life.

Response Categories

Code	Label	Freq.	%
1	Strongly Disagree	4791	8.6
2	Disagree	4701	8.5
3	Agree	13933	25.1
4	Strongly Agree	14017	25.2
Missing Data			
89	LEGITIMATE SKIP Logically assigned	1	0.0
94	DONT KNOW	271	0.5
97	REFUSED	383	0.7
98	BLANK (NO ANSWER)	36	0.1
99	LEGITIMATE SKIP	17428	31.4
Total		55561	100%

View variables crosswalk

National Survey on Drug Use and Health (NSDUH) Series

Variable Crosswalk

Please note that in certain cases, the data may not be comparable across years due to changes in questionnaire names. Check the documentation for changes and consistency across years.

Variable	2006	2007	2008	2009	2010
ABDILAAL - ANY ILLICIT DRUG AND ALCOHOL ABUSE OR DEP - PST YR	X	X	X	X	X
ABILANAL - ANY ILLICIT DRUG AND ALCOHOL ABUSE - PAST YEAR	X	X	X	X	X
ABILLALC - ANY ILLICIT DRUG OR ALCOHOL ABUSE - PAST YEAR	X	X	X	X	X
ABODALC - ALCOHOL ABUSE OR DEPENDENCE - PAST YEAR	X	X	X	X	X
ABODANL - PAIN RELIEVER ABUSE OR DEPENDENCE - PAST YEAR	X	X	X	X	X

Explore: View related literature

Citation Search Results

If you weren't looking for citations, you can also perform your query against our [data holdings](#) or database of [variables](#), our [searching tips](#).

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Query:

190 results found

Sort by: Pub Date (newest) ▼

1 - 25 ►

Citation

Bouchery, Ellen Englert, Harwood, Henrick J., Dilonardo, Joan, Vandivort-Warren, Rita . [Type of health insurance and the substance abuse treatment gap](#). *Journal of Substance Abuse Treatment*. 42, (3), 289-300.

Full Text Options: [DOI](#) [Worldcat](#) [Google Scholar](#)

Export Options: [RIS/EndNote](#)

Moona, Sung Seek, Kangb, Suk-Young, Jitpitaklertc, Weerawat, Kim, Seoung Bum . [Decision tree models for characterizing older adults](#). 39, (1), 445-451.

Full Text Options: [DOI](#) [Worldcat](#) [Google Scholar](#)

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Kilmer, Jason R., Crounce, Jessica M., Hunt, Scott B., Lee, Christine M. [Chapter 6. Reducing harm associated with illicit drugs, amphetamines, cocaine, steroids, and other substances](#). *Harm Reduction, Second Edition: Pragmatic Strategies for Managing*. New York: Guilford Press.

Export Options: [RIS/EndNote](#)

Chen, Ty S., McCabe, Sean Esteban . [Exploring age of onset as a causal link between major depression and nonmedical use of prescription medications](#). *Drug and Alcohol Dependence*. 120, (1-3), 99-104.

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Title: National Survey on Drug Use and Health, 2006

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System File(s)

ASCII File(s)

Dataset	SAS	SPSS	Stata	Delimited	Other Data	All Files	File Size
Data	↓	↓	↓	↓	N/A	↓	1,955,688 KB

Analyze online -- requires authentication and TOU

Analysis

Create Variables

Download

Codebook

Getting Started

Variable Selection: [Help](#)

Selected:

Copy to:

Mode: ☐ Append ☒ Replace

National Survey on Drug Use and Health, 2006

IDENTIFICATION

CASEID - CASE IDENTIFICATION NUMBER

QUESTID2 - RESPONDENT IDENTIFICATION

CORE SUBSTANCE USE

TOBACCO

ALCOHOL

MARIJUANA

COCAINE

CRACK

HEROIN

HALLUCINOGENS

INHALANTS

PAIN RELIEVERS

TRANQUILIZERS

STIMULANTS

SEDATIVES

IMPUTED SUBSTANCE USE

REGENCY OF DRUG USE

PAST YEAR FREQUENCY OF USE

PAST MONTH FREQUENCY OF USE

AGE/DATE OF FIRST DRUG USE

RECODED DRUG USE

SELECTED UNEDITED VARIABLES

5 - HAVE YOU SMOKED CIG IN PAST 30 DAYS

TIME SINCE LAST SMOKE A CIG (IF NOT PAST MO)

BEST GUESS TIME SINCE LAST SMOKE A CIGARETTE

SDA Frequencies/Crosstabulation Program

Help: [General](#) / [Recoding Variables](#)

REQUIRED Variable names to specify

Row:

OPTIONAL Variable names to specify

Column:

Control:

Selection Filter(s):

Weight:

TABLE OPTIONS

Percentaging:

☒ Column ☐ Row ☐ Total

☐ Confidence intervals Level: 95 percent ▾

☐ Standard error of each percent

☐ Design effect (deft) for each percent

Sample design: ☒ Complex ☐ SRS

N of cases to display:

☐ Unweighted ☒ Weighted

☐ Summary statistics

☐ Question text ☐ Suppress table

☒ Color coding ☐ Show Z-statistic

☐ Include missing-data values

Title:

Export Data Citation (RIS and EndNote)

Provider: ICPSR
Content: text/plain; charset="us-ascii"

TY - DATA
T1 - National Survey on Drug Use and Health, 2006
AU - United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration
DO - 10.3886/ICPSR21240.v4
PY - 2009
UR - <http://dx.doi.org/10.3886/ICPSR21240.v4>
PB - Inter-university Consortium for Political and Social Research
ER -

```
<?xml>
<records>
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      <authors>
        <author>
          United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration
        </author>
      </authors>
      <subsidiary-authors>
        <author>
          United States Department of Health and Human Services. Substance Abuse and Mental Health Services Administration
        </author>
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Export Study Description (DDI, DC, MARC)

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Study Usage

Utilization for National Survey on Drug Use and Health, 2006

- [General Information](#)
- [Unique Sessions](#)
- [Unique Users](#)
- [Downloads by Member Institution](#)

By default, the reports below show utilization for the last 12 months. To view a different range, please

from: to:

Please note that this study was first released on 2007-11-20, and that our current reporting model

General Information

- Initial release date: 2007-11-20
- Last updated: 2009-08-12
- [Related citations](#): 190
- SDA objects: 1

Unique Sessions

	Total Data/Documentation Sessions		Data & Documentation	Documentation Only	SDA
Any Datasets/Files	531	=	163	368	11

Notes

The numbers above are counts of unique sessions, not counts of how many files were downloaded or sessions/visits in this time period.

Please note that the numbers above do not include distribution of restricted-use or public-use

"SDA" refers to unique sessions by users analyzing data using Survey Documentation & Analysis

Unique Users

	Total Unique Users		Faculty	Grad. Students	Undergrads	Univ. Staff	Other	Anon. Downloads
Any Datasets/Files	235	=	15	24	8	3	9	176

What's New at ICPSR?



Update on DOIs at ICPSR

- Have added versioning, e.g.:

<http://dx.doi.org/10.3886/ICPSR03131.v3>

- Still debating granularity – ICPSR cites at the study level (studies can be aggregations of datasets)

ICPSR DOIs and Google Scholar

- Starting to see Google Scholar make connections between ICPSR data and publications:

Religiosity, alcohol use attitudes, and alcohol use in a national sample of adolescents.

EL Vaughan, MA de Dios... - *Psychology of Addictive ...*, 2011 - psycnet.apa.org

... ICPSR21240-v4. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2009-08-12. doi:10.3886/ICPSR21240. ... Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2009-08-12. doi:10.3886/ICPSR23782. ...

[Related articles](#) - [Availability at UMich](#) - [All 5 versions](#)

Yet More Metadata Markup

- ICPSR has applied to the NSF to tag all of the National Election Studies and the General Social Survey in DDI
 - Emphasis on provenance
 - New tools: harmonization, question banks, cross-study comparison
 - New workflows for ANES and GSS to make surveys metadata-driven

Data Citation Conferences

- ICPSR has applied to the Sloan Foundation to hold a series of conferences on data citation and related issues with these stakeholders:
 - Journal editors
 - Domain repositories
 - Funders

New Study Homepage

- ICPSR is redesigning its Web site and study homepage
- New study homepage to be more like Wikipedia and Amazon with everything on one page
- Launches on September 1



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(1,955,688 KB)

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series: [National Survey on Drug Use and Health \(NSDUH\) Series](#) > study: [National Survey on Drug Use and Health, 2006](#) ><< [Back to search results](#)

21240

GO

National Survey on Drug Use and Health, 2006

Alternate Title: NSDUH 2006

Principal Investigator(s): United States Department of Health and Human Services. Substance Abuse and Mental Administration. Office of Applied Studies

Summary: The National Survey on Drug Use and Health (NSDUH) series (formerly titled National Household Survey) measures the prevalence and correlates of drug use in the United States. The surveys are designed to provide quarterly estimates. Information is provided on the use of illicit drugs, alcohol, and tobacco among members of United States and older. Questions included age at first use as well as lifetime, annual, and past-month usage for... ([view full summary](#))

Series: [National Survey on Drug Use and Health \(NSDUH\) Series](#)

Access Notes

- This study is maintained and distributed by the [Substance Abuse & Mental Health Data Archive \(SAMHDA\)](#). SAMHDA is [of Applied Studies](#), Substance Abuse & Mental Health Services Administration.

Thank you!

- vardigan@umich.edu