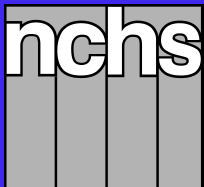


NHANES1999-2010 Review and Proposed content for 2011-12



Vicki Burt

National Center for Health Statistics



Goals of NHANES

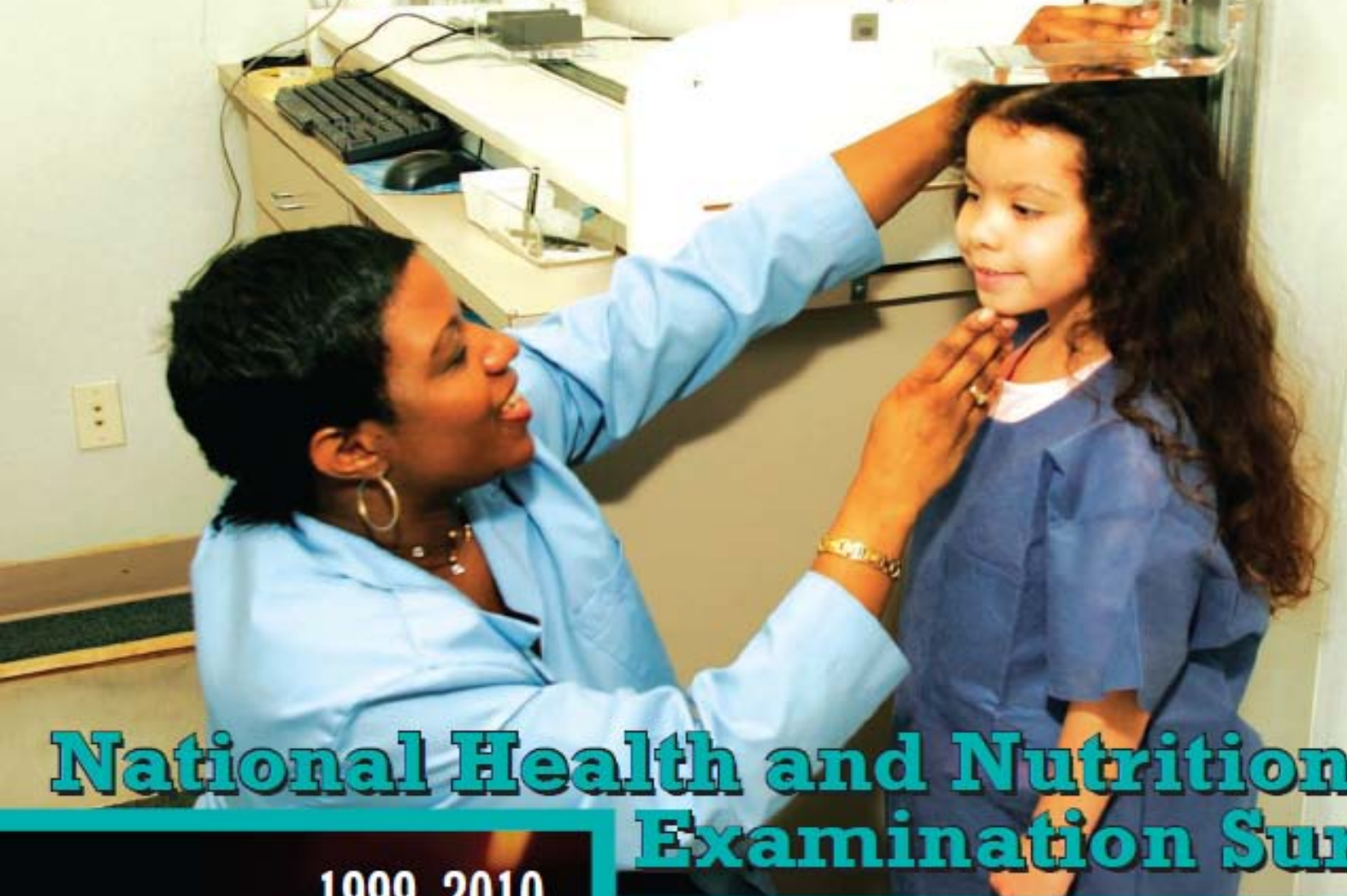
U.S. population-based estimates of:

- Health conditions
- Awareness, treatment and control of selected diseases
- Environmental exposures
- Nutrition status and dietary behaviors

Overview of NHANES 1999-2010

Basics

- Interviews
 - In the home (all ages)
 - In the MEC (8+)
- Examinations
 - Mobile examination center
 - Home examination (1999-2002)
- Laboratory
 - MEC
 - Home specimens



National Health and Nutrition Examination Survey

1999–2010
Survey Content



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics



Frequently included questionnaire topics

- Acculturation
- Blood pressure
- Cholesterol
- Chronic conditions
- Demographic
- Diabetes
- Dietary behavior
- Dietary supplements
- Early childhood
- Food security
- Oral health
- Physical activity
- Physical function
- Prescribed medicines
- Reproductive health
- Sex, drugs, alcohol, tobacco
- Weight history

Periodic questionnaire topics

- Bowel health
- Urinary incontinence
- Sleep disorders and sleep habits
- Dermatology
- Dietary screener module
- Pain
- Social support
- Component specific to examination or laboratory component
 - Allergy dust
 - Hearing
 - Balance
 - Vision

Frequently included exam components

- Anthropometry
- Audiometry
- Blood pressure
- Dietary recall
- Dual x-ray absorptiometry
- Oral health
- Urine collection
- Venipuncture

Periodic exam components

- Dermatology
- Inflammatory back pain
- Lower extremity disease
- Muscle strength
- Cardiovascular fitness
- Visual acuity
- Bioelectrical impedance
- Hair collection
- Ophthalmology
- Oral glucose tolerance
- Respiratory health
- Oral rinse for HPV
- Vaginal swabs
- Nasal swabs
- Balance
- Mental health

Frequently included laboratory tests

- CBC
- Lipids
- Chemistry panel (kidney, hepatic function)
- Folate/RBC folate
- Iron status measures
- HIV, Herpes, Hepatitis
- Cotinine
- Lead, mercury, cadmium
- C-reactive protein
- Urinary creatinine and albumin
- Diabetes (glucose, insulin, HbA1c)

Periodic laboratory tests

- Vitamins B6, B12, C and D
- Homocysteine/ MMA
- FSH/LH, PTH, Thyroid function
- Bone alkaline phosphatase
- Cryptosporidium
- Helicobacter pylori
- HLA-B27
- Environmental chemicals
- Latex
- Measles, varicella
- MRSA
- PSA
- Selenium

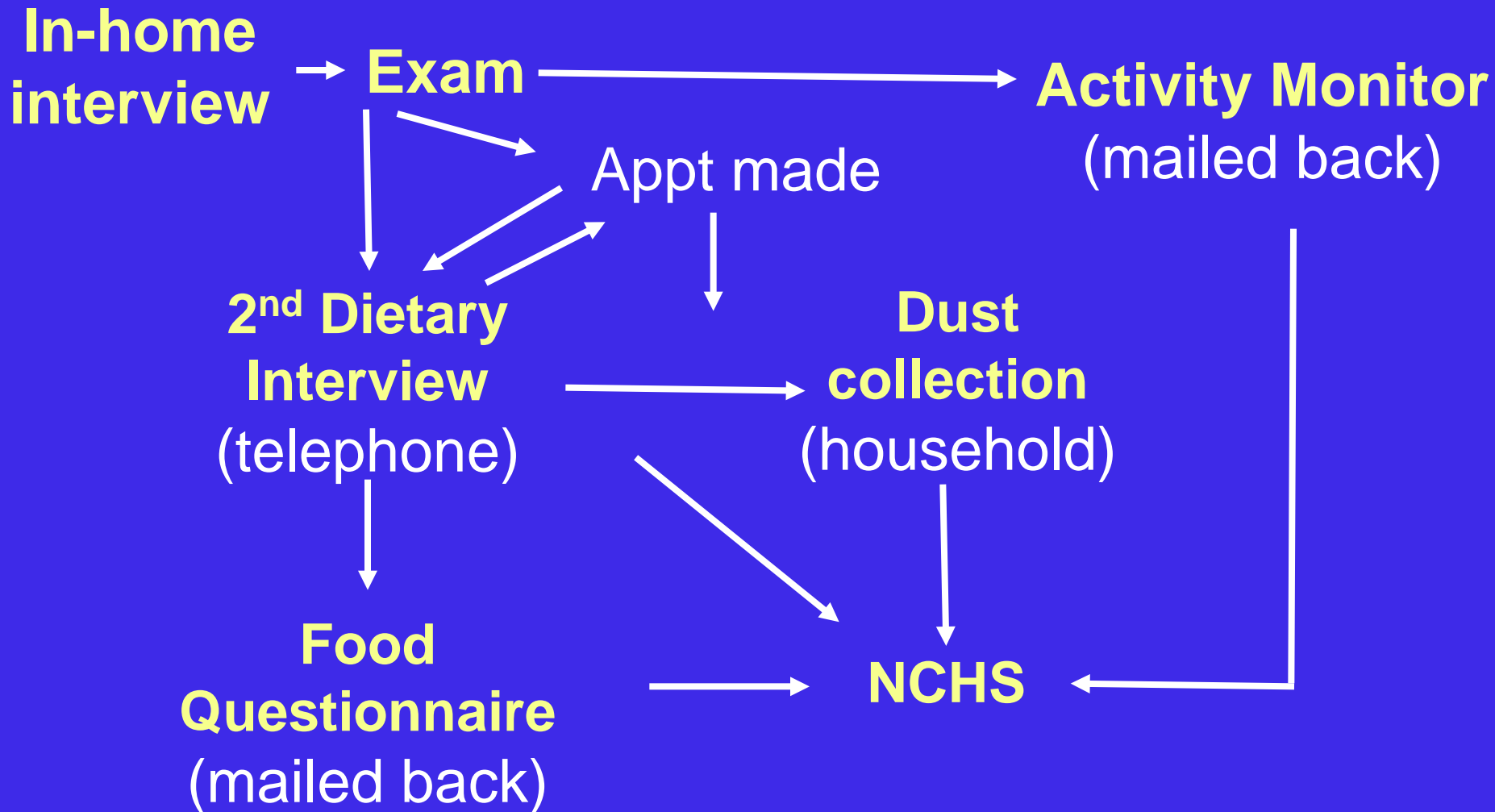
Everything else we've done from 1999-2010

- Physical activity monitor
- Environmental samples—water, lead dust and allergen dust
- VOC exposure monitor
- Self administered food frequency questionnaire
- Home urine collection

Everything else we've done from 1999-2010

- Telephone interviewing
 - Parents of children for the mental health component
 - 2nd dietary recall (since 2002)
 - Flexible Consumer Behavior Survey
 - Follow-up for PSA and hepatitis C
- Tuberculin skin testing
- Linkage with state Food Stamp records

NHANES 2005-2006 Data Collection Process



NHANES 2011-2014

Proposals being considered for inclusion in 2011-2014

- Cognitive function (60+)
 - WAIS digit symbol subtest
 - Animal fluency test
 - CERAD word list learning test
- Self-assessed pubertal maturation (ages 6-19)
- Modified oral health examination (2+)

Proposals being considered for inclusion in 2011-2014

- Age changes for audiometry (20+)
- Dual x-ray absorptiometry with new densitometer (ages uncertain)
 - Total Body and/or
 - Femur, spine
- Sagittal abdominal diameter (8+)

Proposals being considered for inclusion in 2011-2014

- Physical activity monitor (6 +)
 - Also monitors sleep activity
- Muscle strength (ages 6+)
 - Grip test
 - Lower body strength test
- Chemosensory—smell taste (40+)

Laboratory proposals being considered for inclusion in 2011-2014

- Seroprevalence cytomegalovirus (ages 1-6)
- Testosterone (6+)
- Changes to urine, serum and blood metal panels (for example selenium is being added to all)

Laboratory proposals being considered for inclusion in 2011-2014

- Smoking exposures (supplement 1/3 subsample with smokers)
 - Urine hydroxy polycyclic aromatic hydrocarbons ,
 - Cadmium, lead and thallium,
 - Volatile Organic Compound metabolites (new)
 - Thiocyanate

Questionnaire proposals being considered for inclusion in 2011-2014

- Aspirin use
- Changes to acculturation questions

Proposed content not being considered for 2011-12

- Lactose intolerance
- Tuberculin skin testing
- Incarceration questions
- 14-day food record
- New physical activity questions

Other NHANES planning activities concurrent to 2011-12

- Birth certificate linkage study
- Additional state food assistance program and economic data linkages
- 24-hour urine validation study
- Dried blood spot study

Content being cycled out in 2011-12

- Blood pressure methodology study
- Inflammatory back pain
- Home water collection
- Flexible Consumer Behavior Survey telephone interview
- PSA
- Iron parameters
- Bowel health
- Dietary screener module

Content for 2013-2014

- Good proposals that were not able to be accommodated for 2011-12
 - Example: saliva collection
- We welcome 2013-2014 proposals NOW.
 - Contact Planning Branch before proposing to facilitate process