
Mexican Health and Aging Study (MHAS) - Update

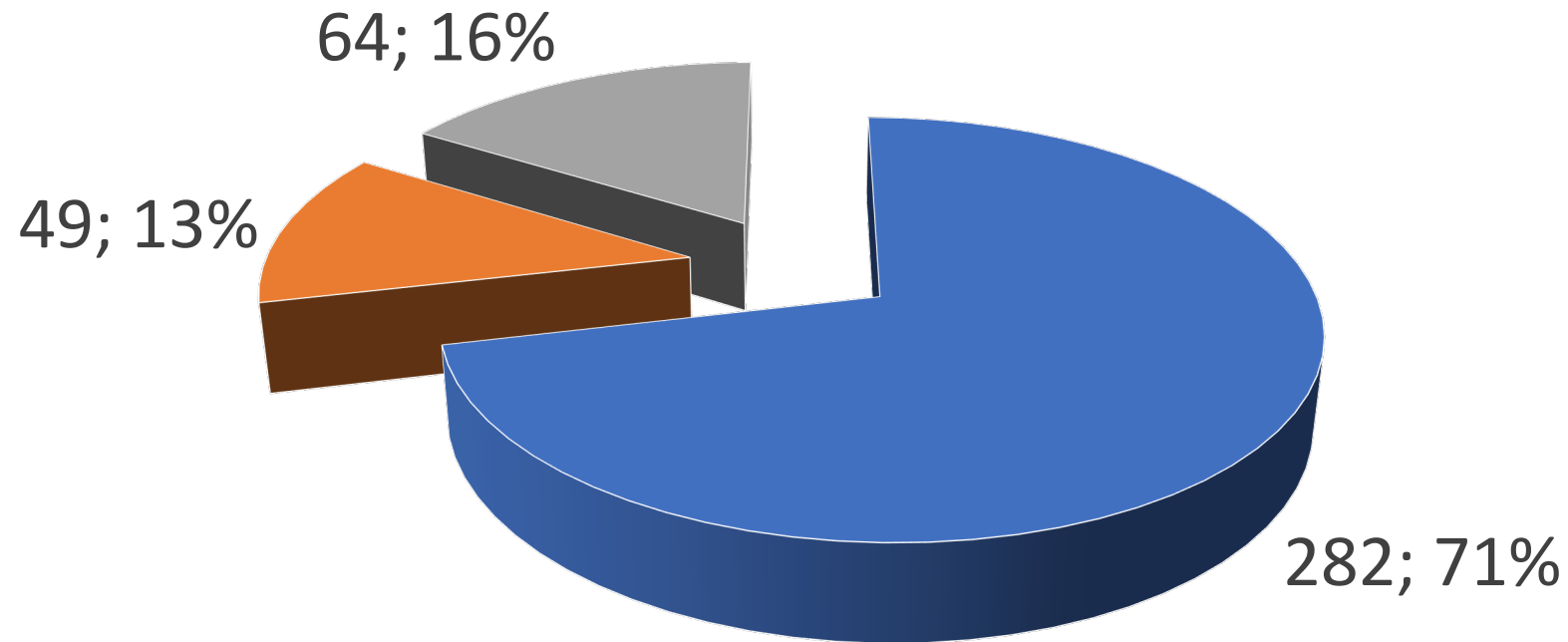
2023 Meeting of the HRS Around the World Studies
Dublin, Ireland, August 22-23, 2023

The MHAS celebrated 20 years of follow-up

- Completed 6 waves from 2001 to 2021
- Public release of wave 6 (2021) in July 2023
- Emphasis on facilitating use of the data
 - 7th annual meeting of MHAS users in 2022
 - 5th, 6th and 7th have been Virtual.
 - Special Volume with MHAS papers to be published in Fall 2023

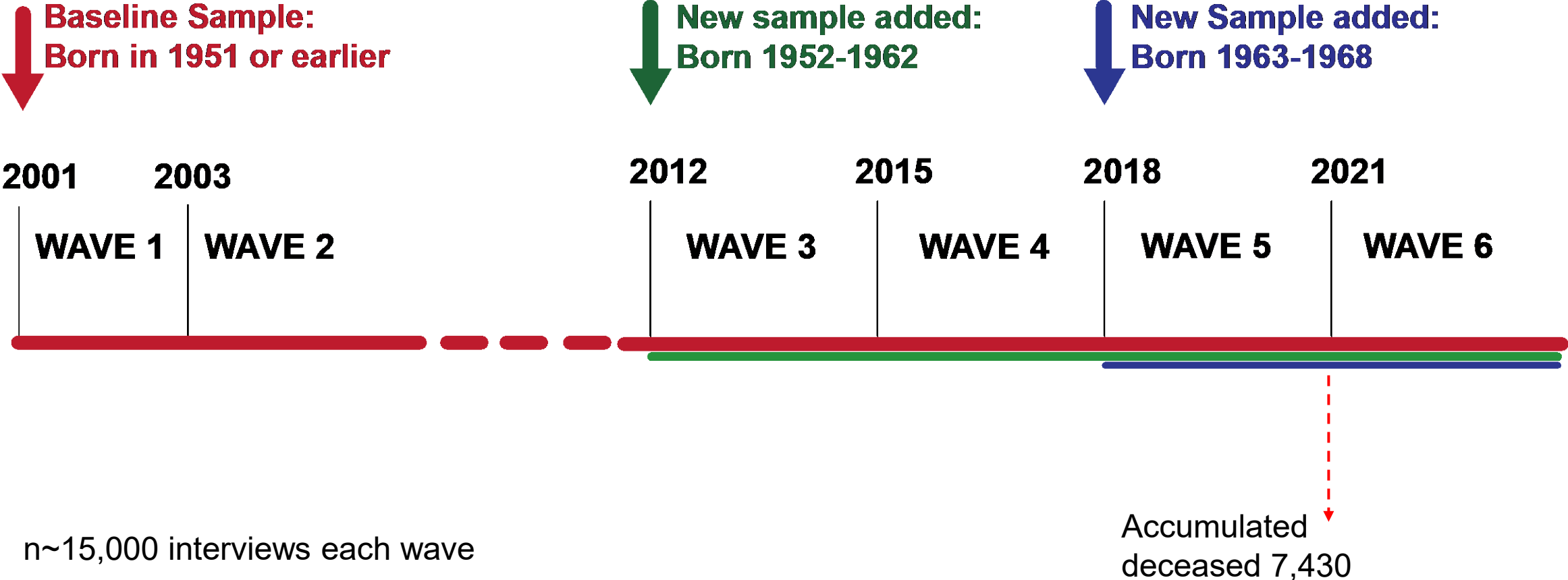


Publications using MHAS data until July 2023 (total 385)



■ Journal Articles ■ Book Chapters ■ Thesis/Dissertations

Timeline of Longitudinal Waves



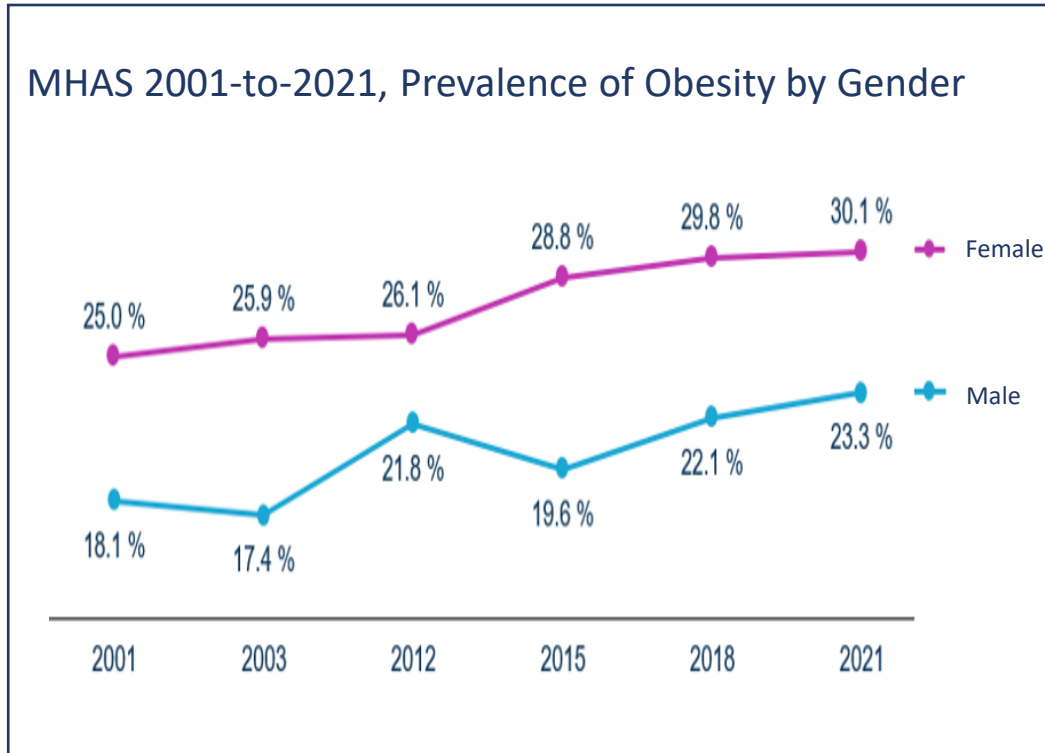
Participants in MHAS by number of interviews 2001 to 2021

Number of Interviews (direct or proxy)*	
6	5,215
5	2,177
4	5,388
3	2,716
2	8,707
1	2,956

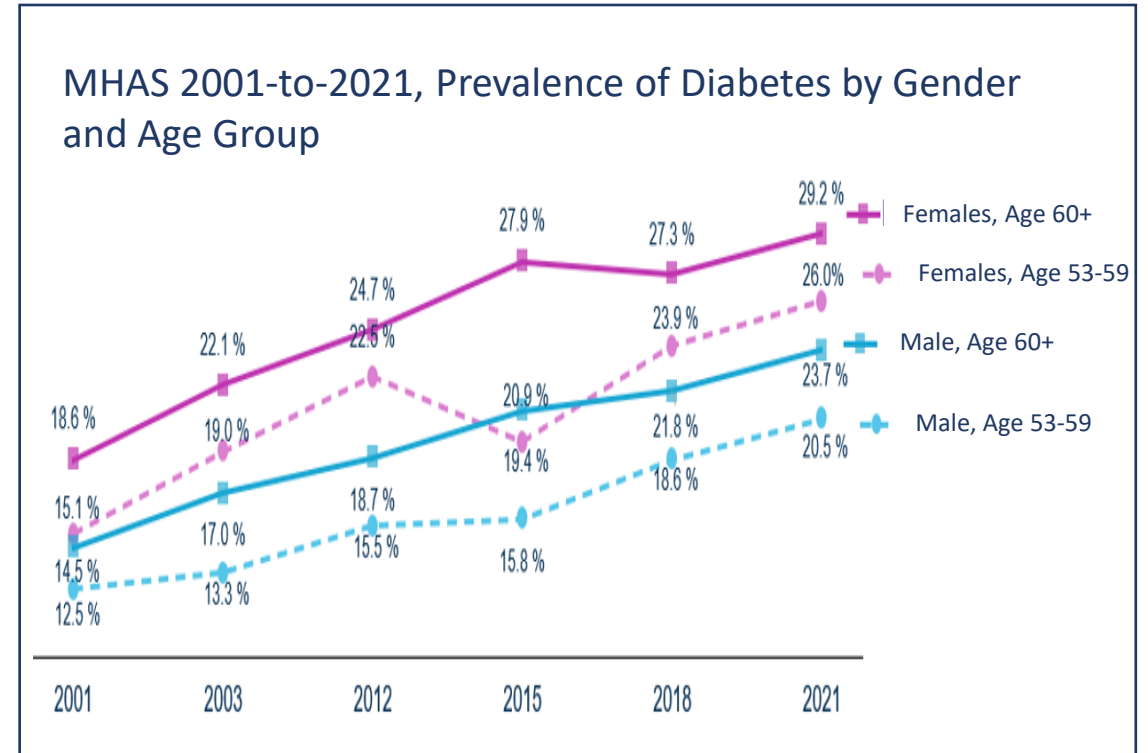
*Includes the interviews that were completed while the subjects were alive. Excludes next of kin interviews.

**Includes next of kin interviews according to the number of interviews completed prior to death.

Rising Trend of Obesity through the Panel Years

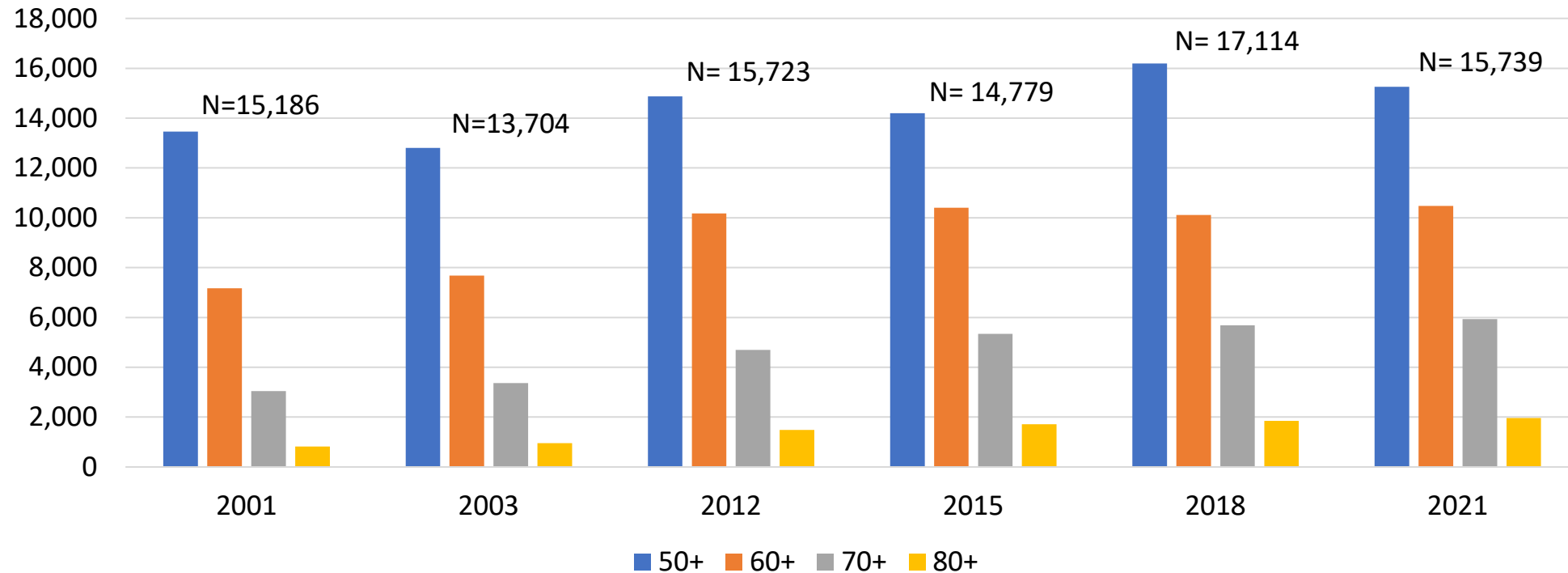


Rising Trends of Diabetes for Men & Women, Young & Old Older Adults



Note: Age 53 and older. Weighted statistics.

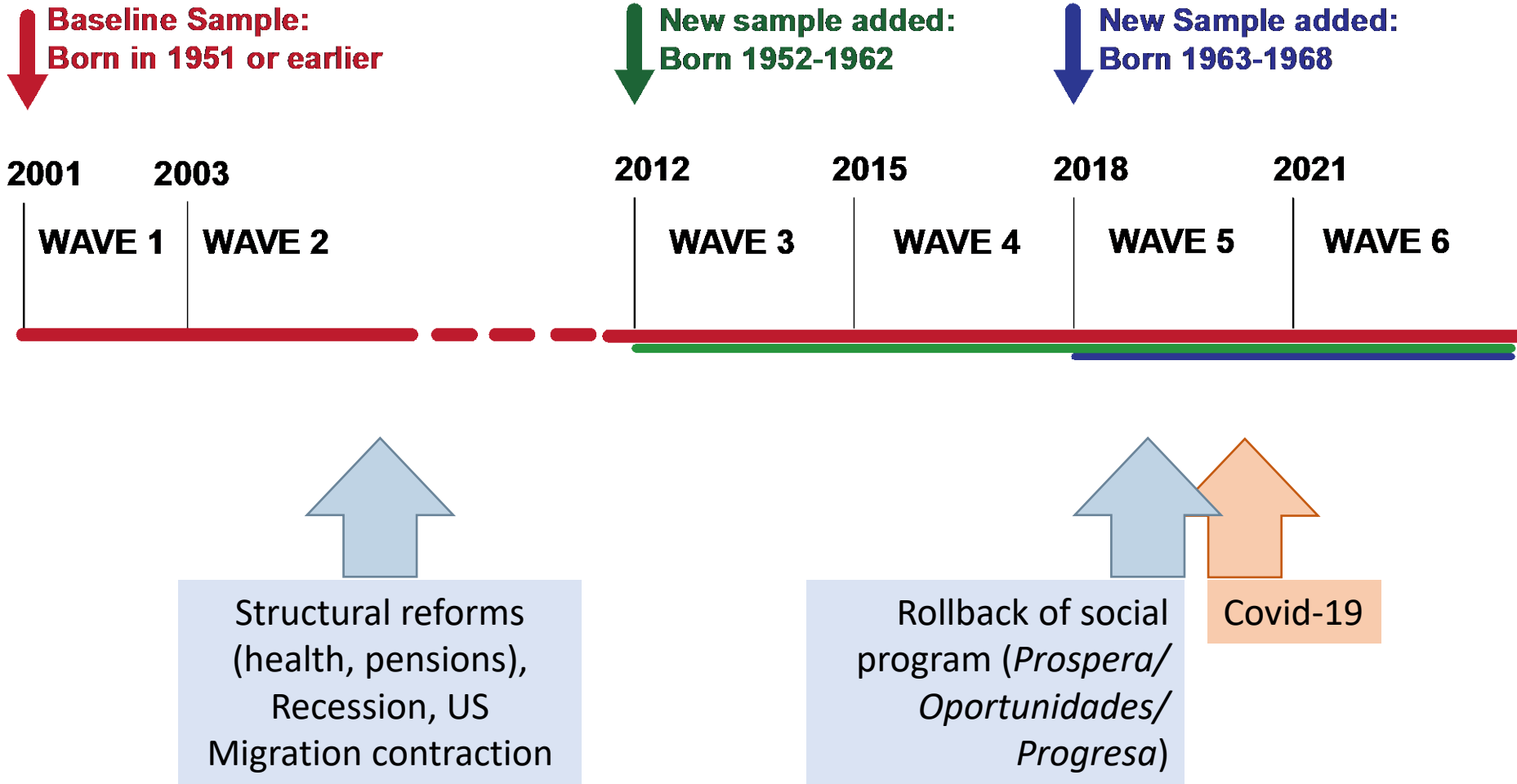
Complete Interviews* by Wave and Age



* Direct and proxy interviews

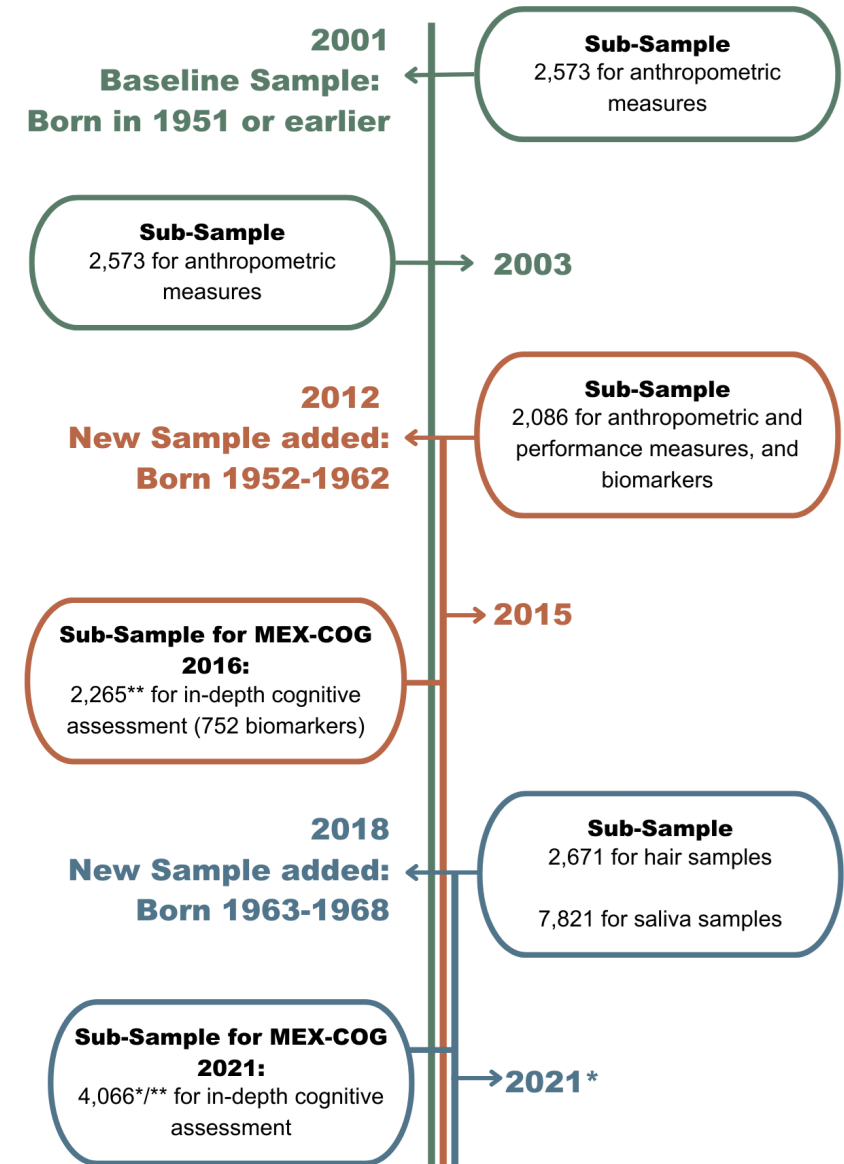
NOTE: The sample cohorts are older with time. In 2001, 53% of the sample was 60+. In 2021, 69% of the sample was 60+.

Structural Reforms and Macro Shocks through the MHAS Panel



Biomarkers and Cognitive Aging in Sub-Samples

- Anthropometrics and performance measures
- Venous Blood & Saliva Samples
 - DNA (GWAS ~7,200, APOE ~8,600, Ancestry ~7,200, Sequencing ~6,000)
 - NIAGADS repository or study website
- Hair Samples
 - Heavy metals exposure ~2,600
- HCAP in Mexico (Mex-Cog)
 - Wave 1 (2016) and Wave 2 (2021) public data



*Preliminary

**Sample size varies across instruments

Data Linkages at Community Level

- **Historical Series**
- Census data; Public health infrastructure
- Birth and death records; COVID-19 cases, deaths, and hospitalizations
- Administrative records of main social insurance programs (Seguro Popular, *PROGRESA*, 70+)
- Air pollution (PM10, PM2.5, Ozone, NO2)
- Extreme temperatures, drought, and natural disasters

Plans for MHAS 2024 and 2027

- Wave 7 planned for 2024, Wave 8 in 2027
- Add refresher sample in 2024 with a rural over-sample
- Wave 3 of Mex-Cog in 2025
- New content proposed:
 - Perceived discrimination
 - Use of multiple languages (indigenous, English)
 - Use of mobile device technology for health care
 - Long COVID
- Remote enclave in Mexico (INEGI)

Thank you *all* for your support over the last 20 years!



Acknowledgments:

MHAS receives support from the National Institutes of Health, NIA/NIH in the U.S. (grant R01-AG018016) and the Mexican Statistical Bureau (*INEGI*) in Mexico. MHAS ancillary studies are supported by R01-AG051158 and R56-AG059756. The study is a collaboration among several institutions in both countries.

www.MHASweb.org (English) or www.ENASEM.org (Spanish)