

Session Fifteen

**Lifetime Achievement
Award to
David Lieberman, MD,
Oregon Health &
Science University**

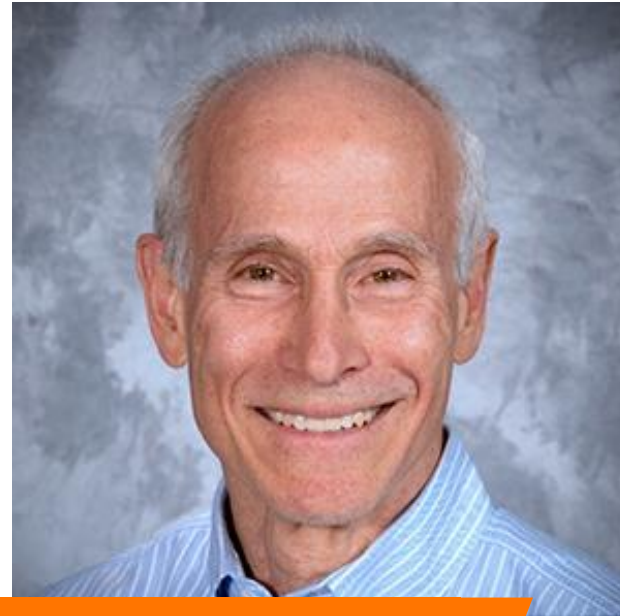


8:40 AM to 9:00 AM

Lifetime Achievement Award to David Lieberman, MD, Oregon Health & Science University



Steven Itzkowitz
MD, FACP, FACG, AGAF



David Lieberman
MD



A Journey of Discovery

David Lieberman, MD

Professor of Medicine, Division of Gastroenterology and Hepatology
School of Medicine, Oregon Health & Science University

A Journey of Discovery

NCCRT 11-17-23

David Lieberman MD
Professor of Medicine
Chief Division of Gastroenterology and Hepatology 1997-2021
Oregon Health and Science University

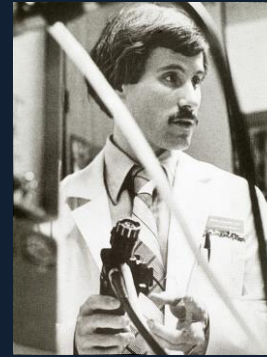
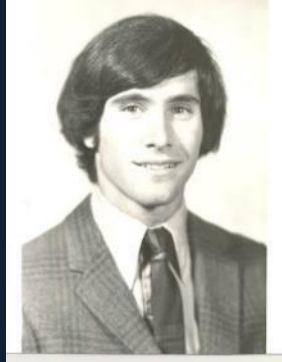
Thinking
about
Medicine

Start Medical School
1972

GI Fellowship
1980

New Faculty
1982

Senior Citizen
2023



My life in Medicine
Then and now

**When you see a turtle
on top of a fence post
you know he didn't get
there by himself.**

Robert Lamont





Lessons I have learned



Pursue your passion
Care to make a difference

1980's: Discovery

Colorectal Cancer Genetics and Risk

- Chromosomal Instability pathway
- **Adenoma-Carcinoma sequence**
- Inherited Risk
 - Lynch Syndrome
 - Familial risk



Screening



Bert Vogelstein



Randall Burt, Rick Boland, Dennis Ahnen*

*Deceased 2021

1980's



A President's Cancer Scare

After a surprise three-hour operation—and a brief transfer of power—his chances for a steady recovery looked good.



Heading for the hospital: He has 'courage enough to acknowledge that he is not Sir Galahad'

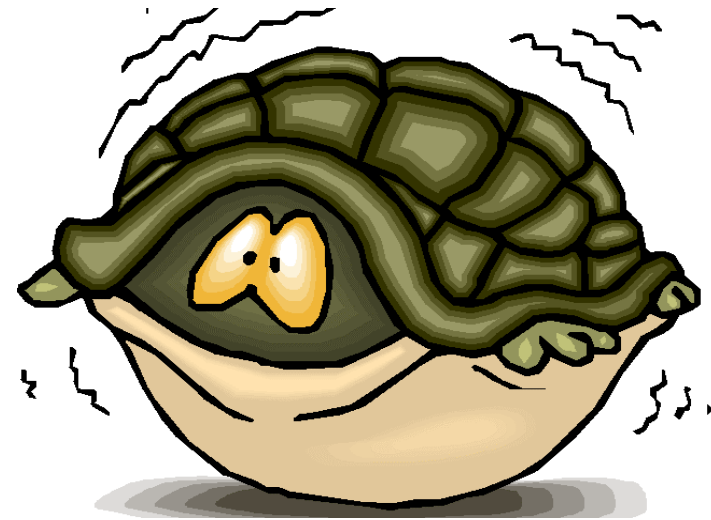
Colorectal Cancer Screening - 1990



- Colorectal Cancer (CRC) Screening
 - **1978** recommendation from Am Cancer Society
 - **FOBT** – RCTs underway (published 1993 and 1996)
 - **Flexible sigmoidoscopy**
 - 1992 – removing polyps could prevent CRC (NPS)
 - RCTs underway (published after 2000)
- **1990**: First reports of screening colonoscopy
 - Small cohorts.
 - Lieberman DA, Smith FW. Screening for colon malignancy with colonoscopy. *Am J Gastroenterology*, 1991;86:946-51

VA Cooperative Study #380: Screening Colonoscopy

- Planning proposal
 - Determine risk factors for adenomas
 - Assess feasibility of screening with colonoscopy
- VA funds 2 planning meetings
- Principle Investigator submits grant, and attends Study Section meeting
 - 10 minute presentation
 - 90 minutes of grilling Q&A
 - Scored immediately



Crushing disappointment



Disappointment



Resilience





1990's: VA Cooperative Study #380



Screening colonoscopy:

- To determine risk factors for advanced adenomas
- To determine efficacy of FOBT and sigmoidoscopy
- Feasibility of colonoscopy as a screening test

2000-2001: VA Cooperative Study #380

USE OF COLONOSCOPY TO SCREEN ASYMPTOMATIC ADULTS
FOR COLORECTAL CANCER **NEJM 2000; 343: 162-8**

DAVID A. LIEBERMAN, M.D., DAVID G. WEISS, PH.D., JOHN H. BOND, M.D., DENNIS J. AHNEN, M.D.,
HARINDER GAREWAL, M.D., PH.D., AND GREGORIO CHEJFEC, M.D., FOR VETERANS AFFAIRS COOPERATIVE STUDY GROUP 380*

ONE-TIME SCREENING FOR COLORECTAL CANCER WITH COMBINED FECAL
OCCULT-BLOOD TESTING AND EXAMINATION OF THE DISTAL COLON

NEJM 2001; 345: 555-60
DAVID A. LIEBERMAN, M.D., AND DAVID G. WEISS, PH.D., FOR THE VETERANS AFFAIRS COOPERATIVE STUDY GROUP 380*

- Importance: first large study using colonoscopy as a screening test
- Impact: Data presented to congress; colonoscopy screening included as Medicare benefit in 2001

Discovery: Colorectal Cancer Screening

1st RCT 1993



Jack Mandel
John Bond*

* Deceased 2018

National Polyp Study (NPS) 1993
1st endoscopic RCTs
Flex Sig 2000's



Sidney Winawer
Ann Zauber



Robert Schoen
Wendy Atkin*

2014 to 2028
RCT: FIT vs CSP



Doug Robertson/Jason Dornitz



NordICC 2022;
Michael Bretthauer
Michal Kaminski

Discovery: CRC Screening Implementation

Colonoscopy Quality



Doug Rex



Doug Corley



Michal Kaminski




clinical outcomes research initiative
NIDDK 1999-2016

Population Screening

C-5 NYC



Sid Winawer,



Steve Itzkowitz

Kaiser



T.R. Levin



Han Mo Chiu
Taiwan

Discovery: CRC Screening Implementation

Advocacy and Public Education



Robert Smith

Richard Wender

Am Cancer Society

Katie Couric

Thomas Frieden

Modeling



Iris Landsdorp-Vogelaar



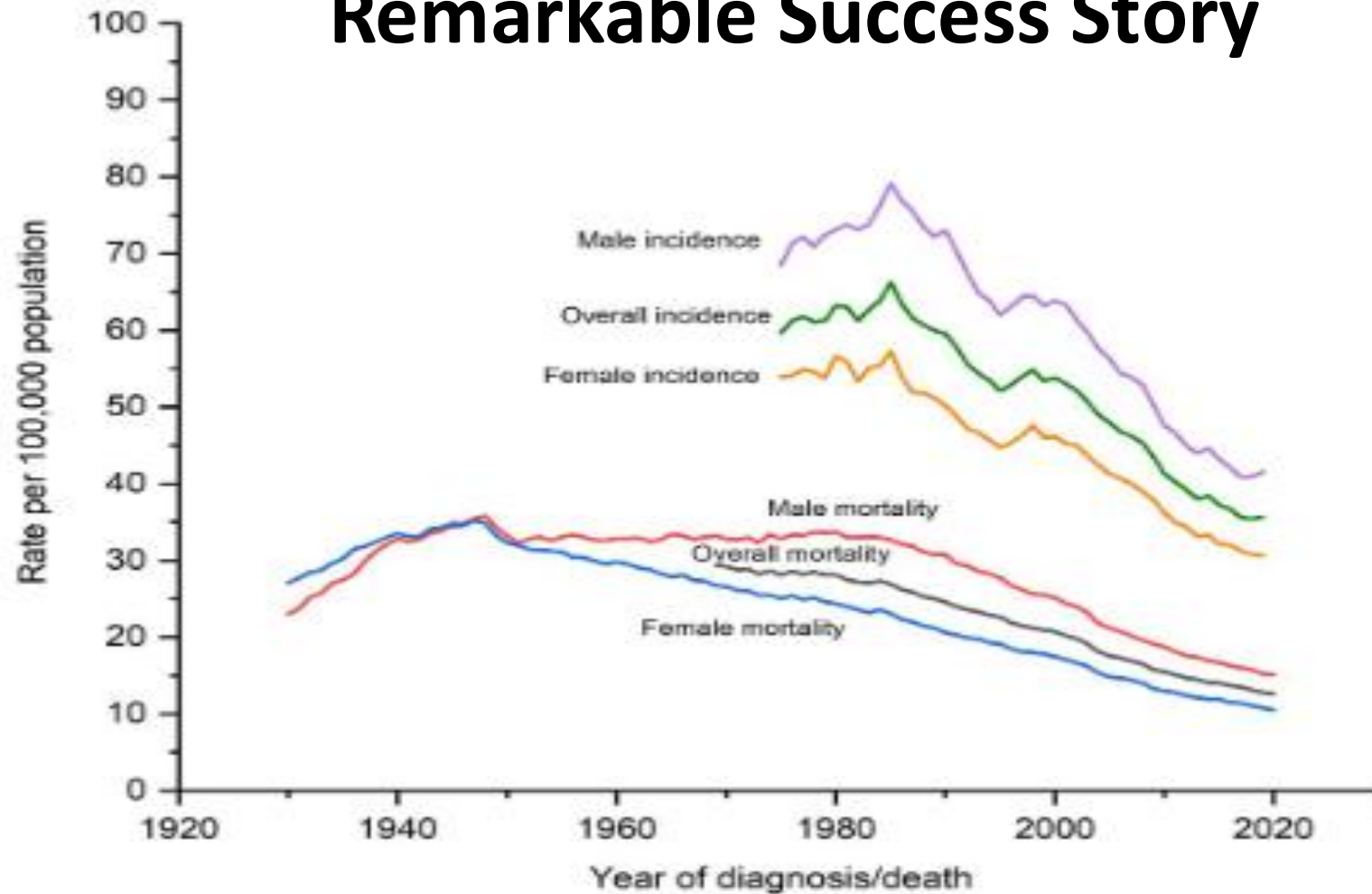
Ann Zauber



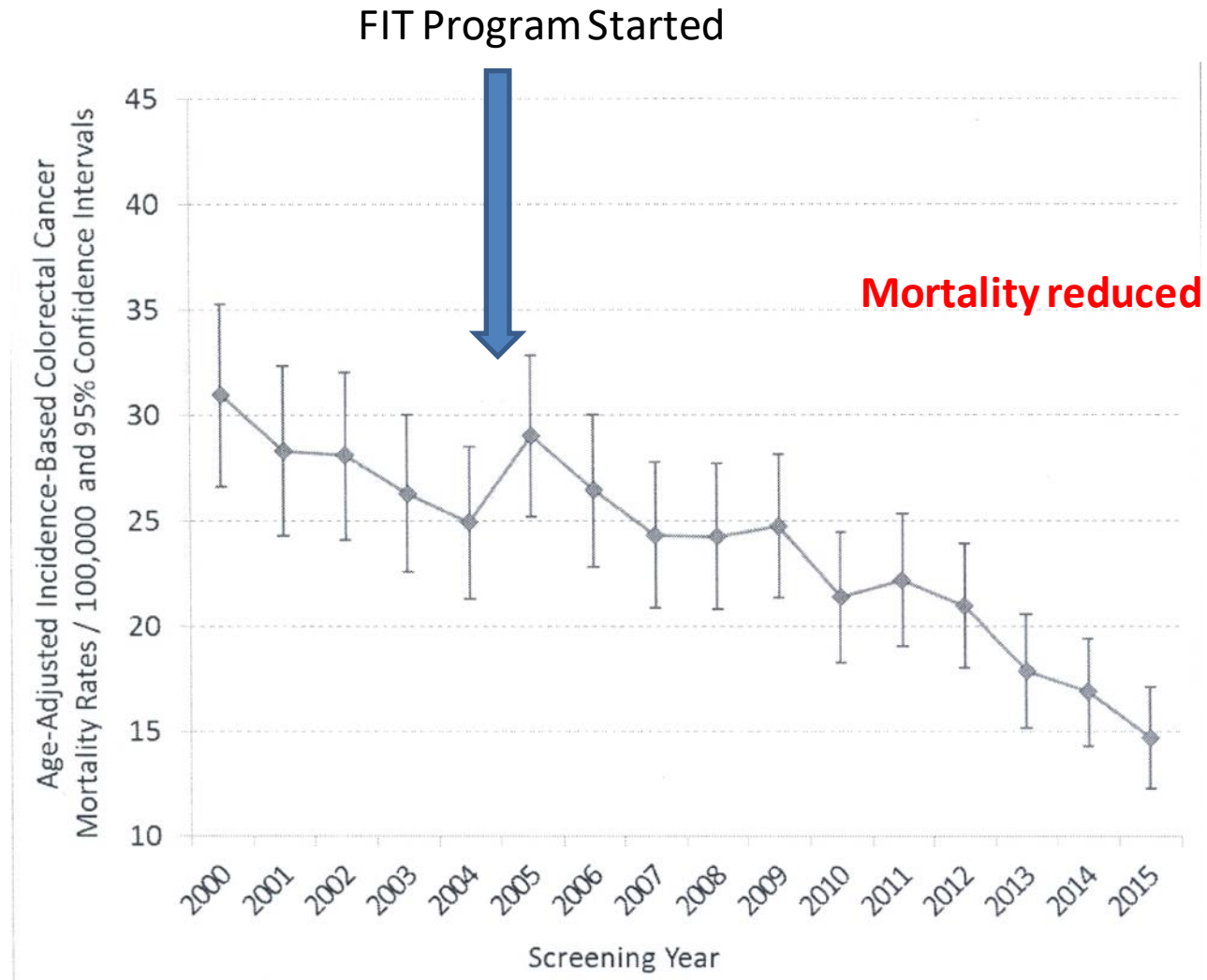
Uri Ladabaum

CRC Incidence and Mortality

Remarkable Success Story

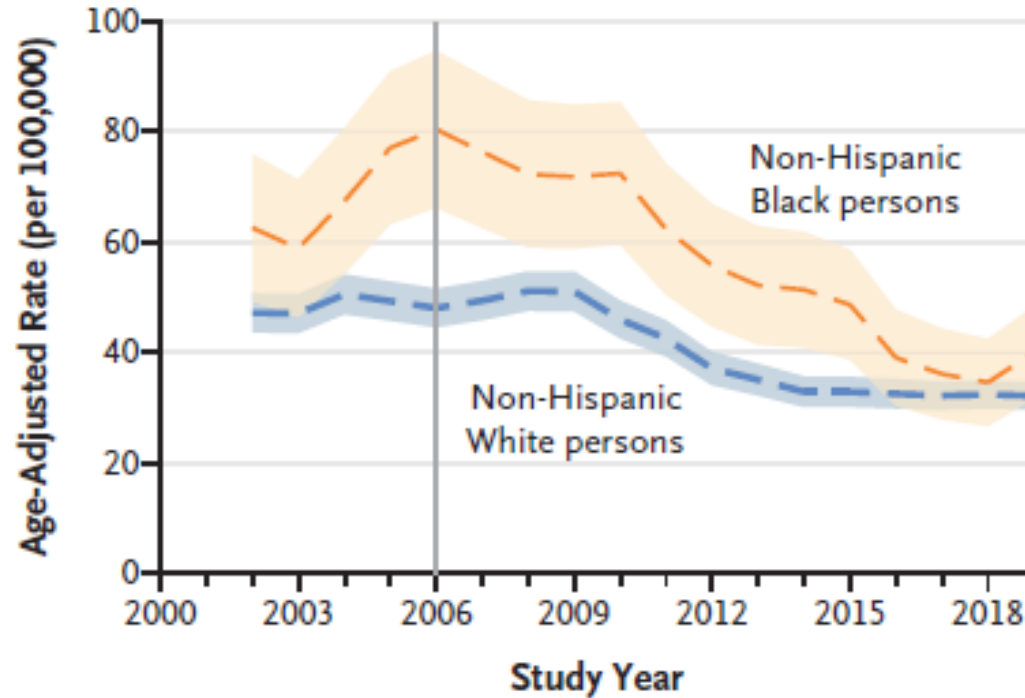


A Well-Organized Program Can Work:



CRC Incidence- Late Stage CRC

Incidence of Late-Stage Colorectal Cancer



**Remarkable success story except.....
Not everyone has access to screening**

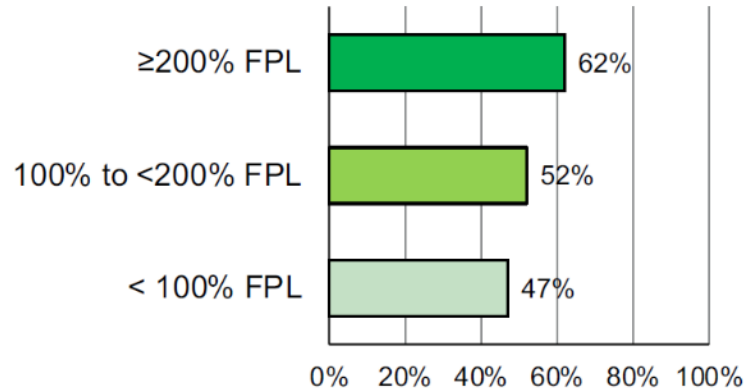
Health Equity and CRC Screening

When we achieve **health equity**, everyone has a fair and just opportunity to be as healthy as possible.

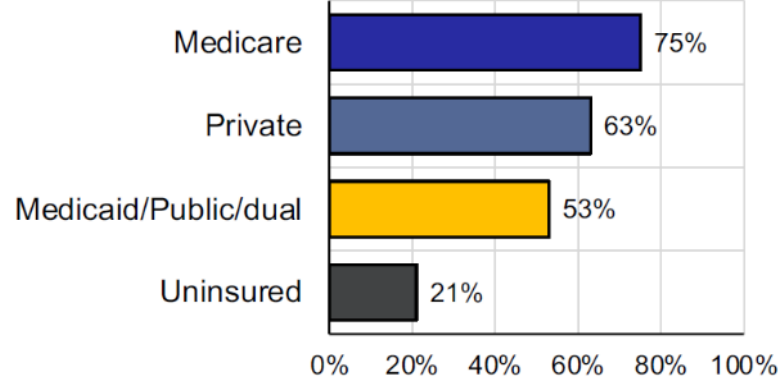


Social Determinants of Health and CRC Screening

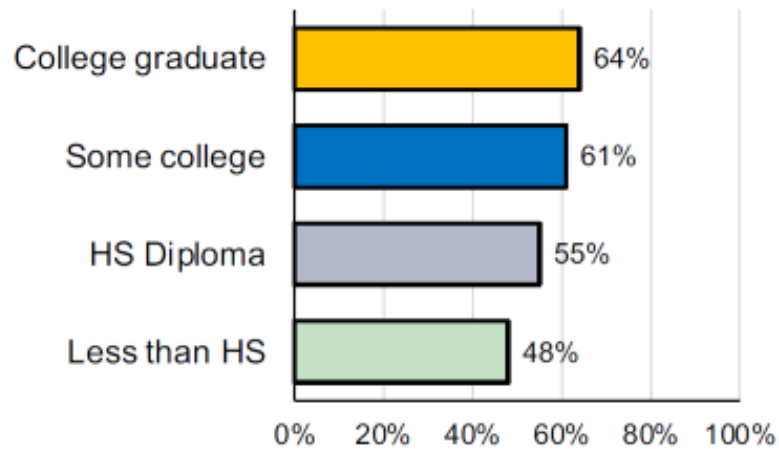
Screening Rates by Income, 2021, US



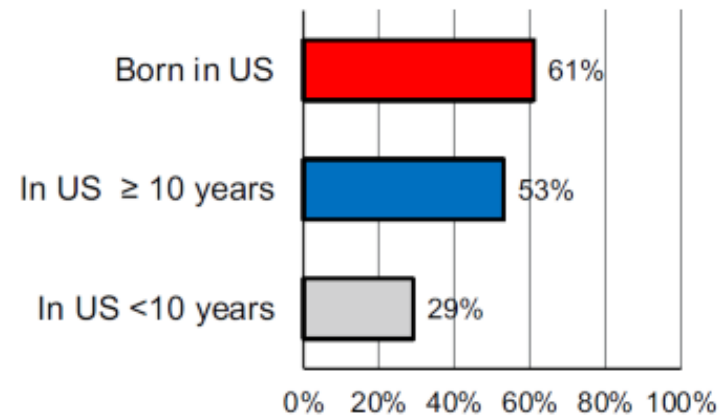
Screening Rate by Insurance Type, 2021, US



Screening Rates by Education Level, 2021, US



Screening Rates by Immigration Status, 2021, US



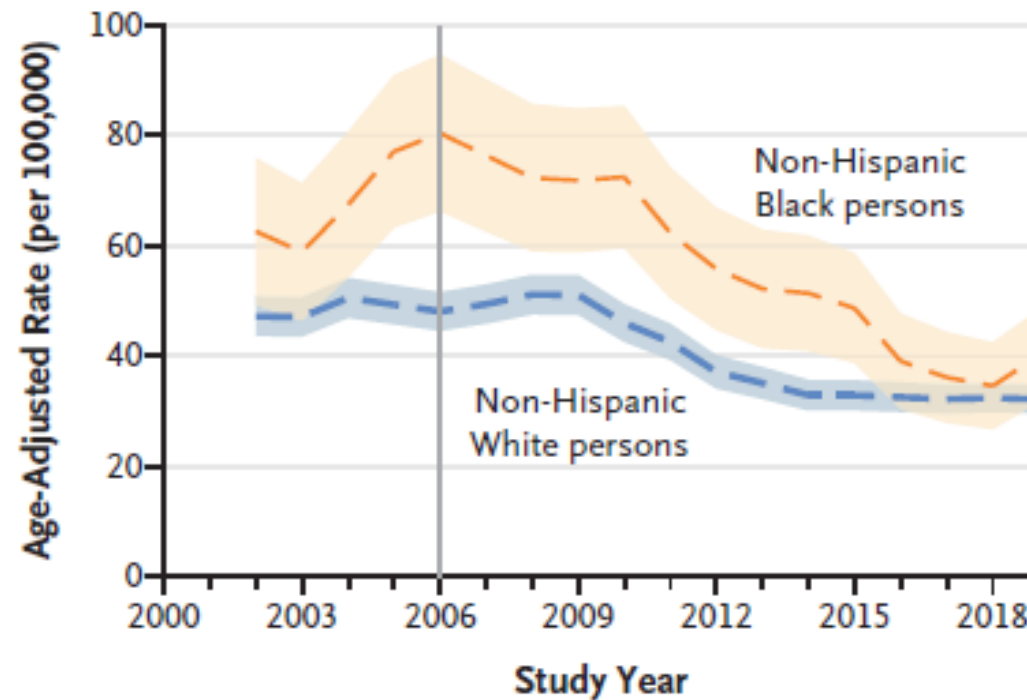
Patient-level barriers to CRC Screening

- Trust
- Health literacy
- Cultural beliefs
- Logistics
 - Time off work
 - Transportation



Creating access can reduce disparities

Incidence of Late-Stage Colorectal Cancer



Successful Screening Models



Successful programs in USA

- Kaiser, California – **Annual FIT** achieved >80% adherence with subsequent reduction in CRC incidence, mortality and elimination of disparities (Doubeni, NEJM 2022)
- C-5 in NYC – **Colonoscopy** achieved high levels of adherence in diverse populations

Lessons from successful programs

- Create **access** for everyone
- Develop effective **education/communication**
- Provide **navigation**

**When you see a turtle
on top of a fence post
you know he didn't get
there by himself.**

Robert Lamont



*CRC screening is effective....
if performed with high-quality*





Thank You

nccrt.org @NCCRTnews #80inEveryCommunity