

# Mammography Screening Recommendations and Reading Level: Comparing Imaging Centers and Non Imaging Centers

Haleigh Shadley, Veronica Irvin, PhD, MPH, Jessica Seifert  
School of Social & Behavioral Health Sciences, Health Promotion & Health Behavior

## Introduction

The U.S. Preventative Services Task Force & American Cancer Society offer conflicting mammography screening which might lead to inconsistent provision of screening information between mammography facilities.

- Various information presented by mammography facilities could partially contribute to disparities in screening behaviors across Oregon

## Purpose

This project examined the recommendation differences seen between Non-imaging centers and for profit imaging centers. We compared recommendations with a series of factors.

- how many mammography machines
- location-Urban versus Rural
- age at first screen
- screening intervals
- reading levels using SMOG

## Design and Methods

Step 1: Obtain list and license for mammography machines in Oregon

Step 2: Match each facility with a site and website ID

Step 3: Search each facility website and captured screen shots for recommendations and pages related to mammography

Step 4: Dual-coded each website using Qualtrics

Step 5: Conducted analyses in Excel including t-tests, chi-square

### Variables

**Imaging Center:** Exclusive outpatient imaging center  
Women's centers excluded if they offered more than imaging.  
If linked to a clinic, does it have a unique address

**SMOG:** Measure of readability that estimates the years of education needed to understand a piece of writing

Mammography recommendations for

- Age of first screening
- Interval
- Grade Level

## Results

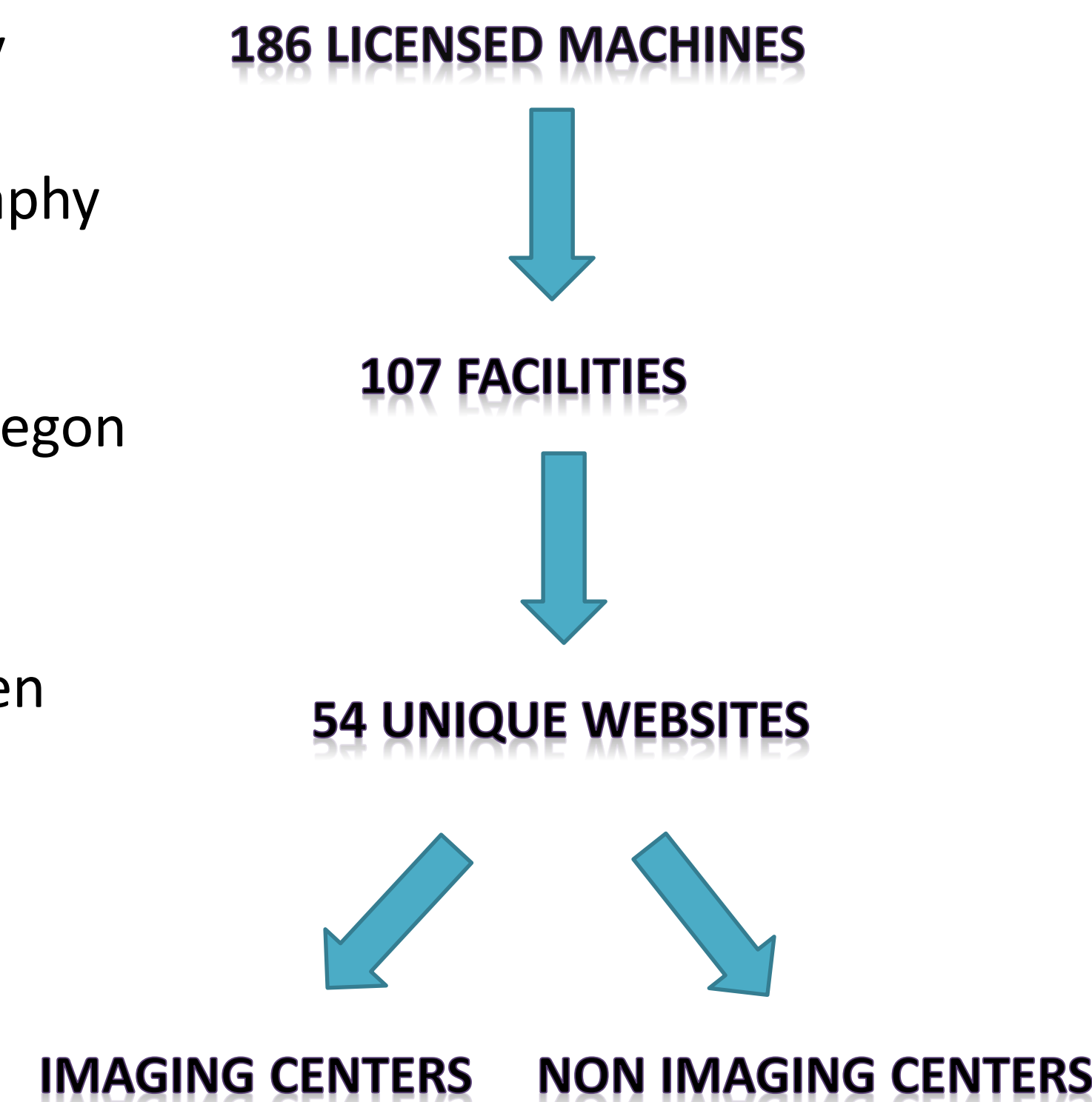


Figure 1: Percentage of sites that offered recommendations by type of clinic

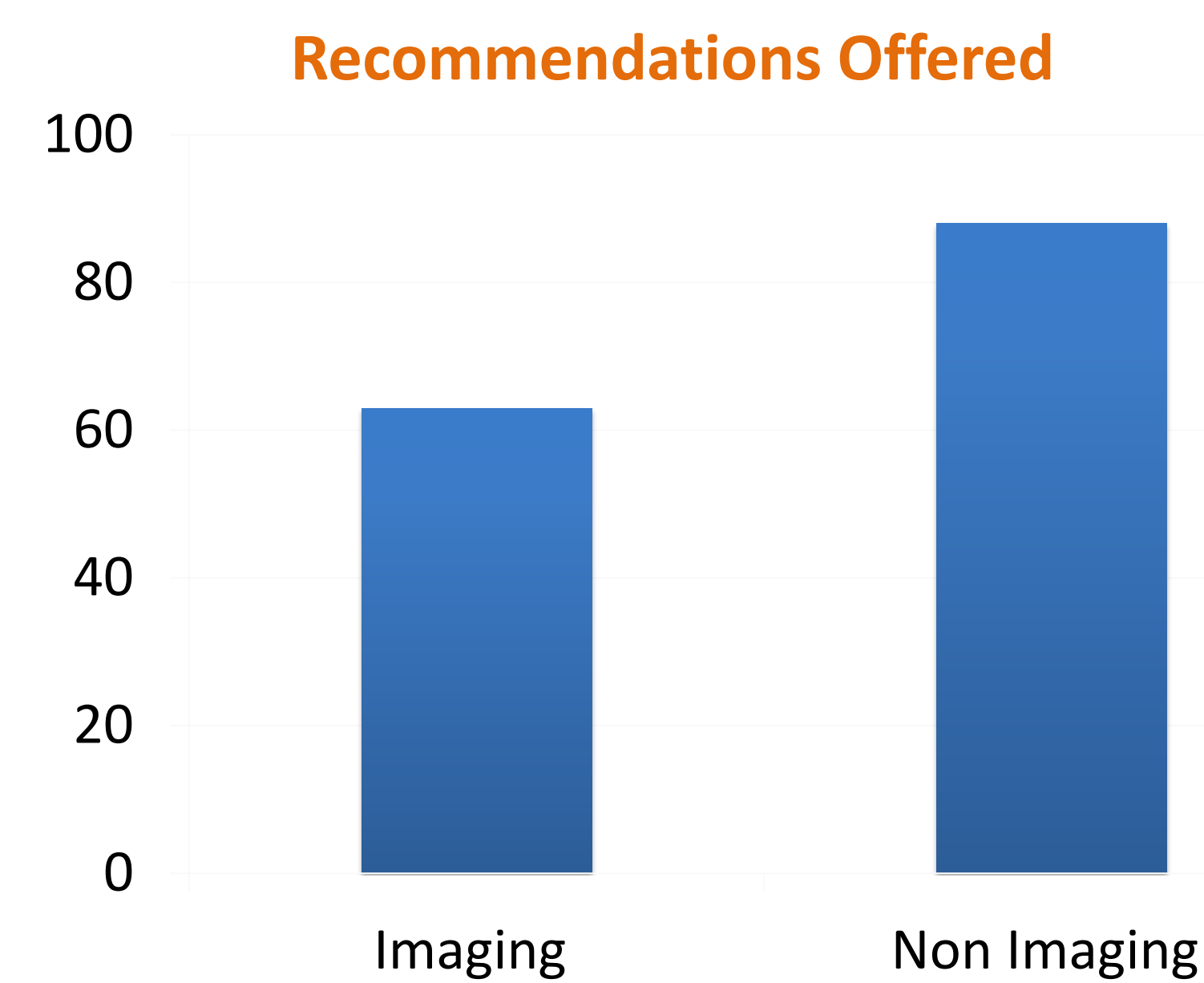


Figure 2: Percentage of recommendations of first screen starting at age 40 by type of clinic

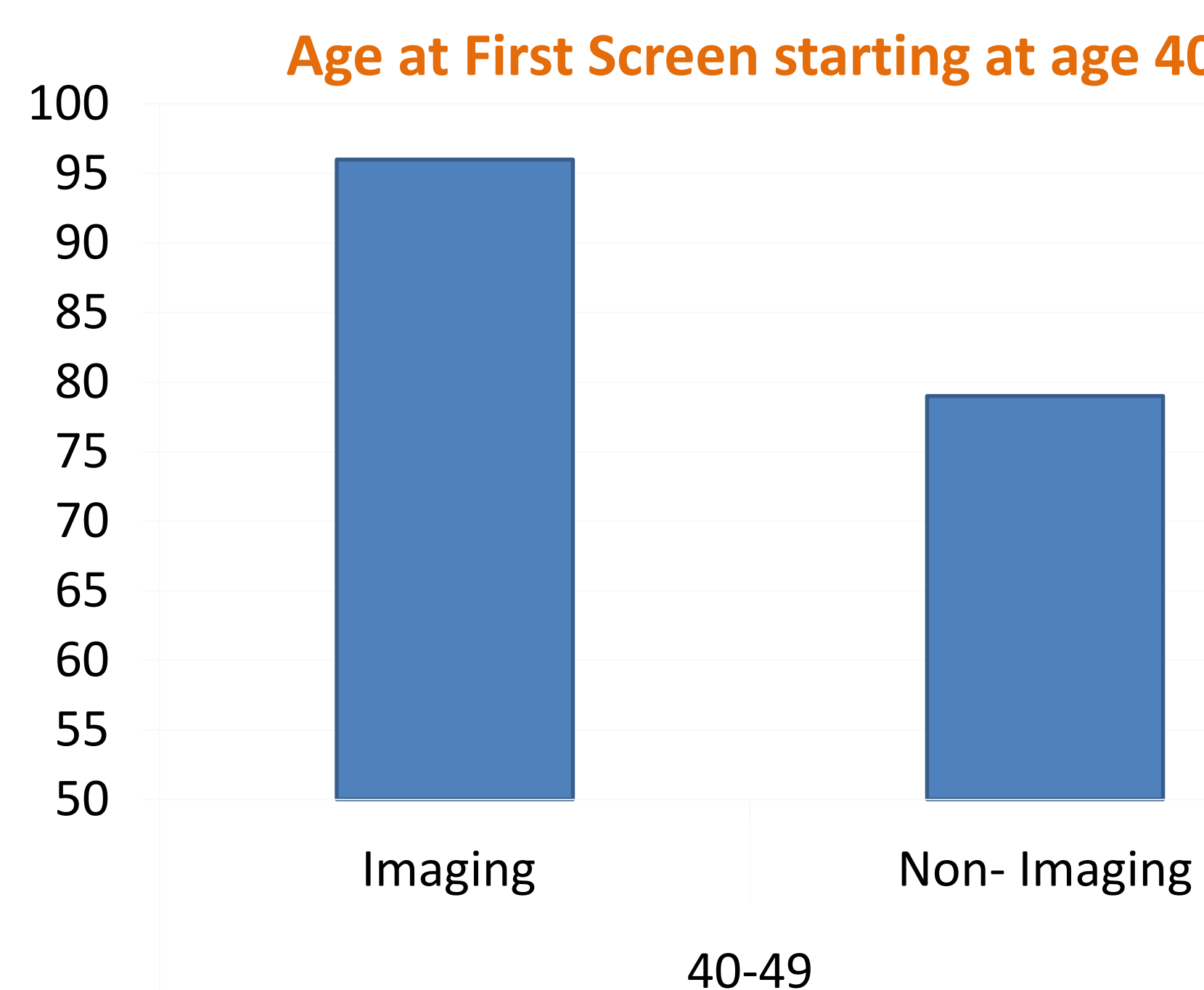


Figure 3: Percent of recommendations for annual screening for women under 50, by clinic type

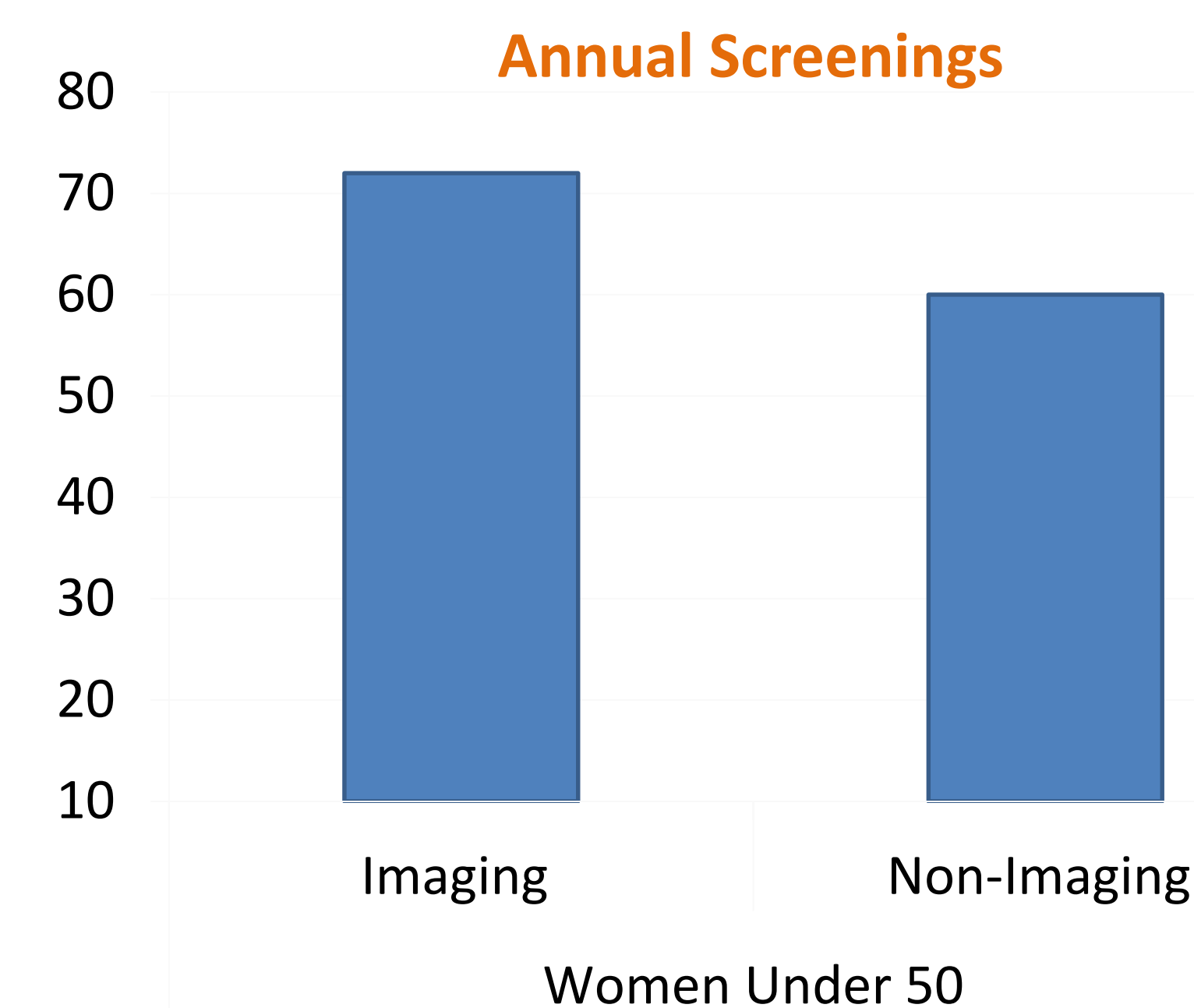
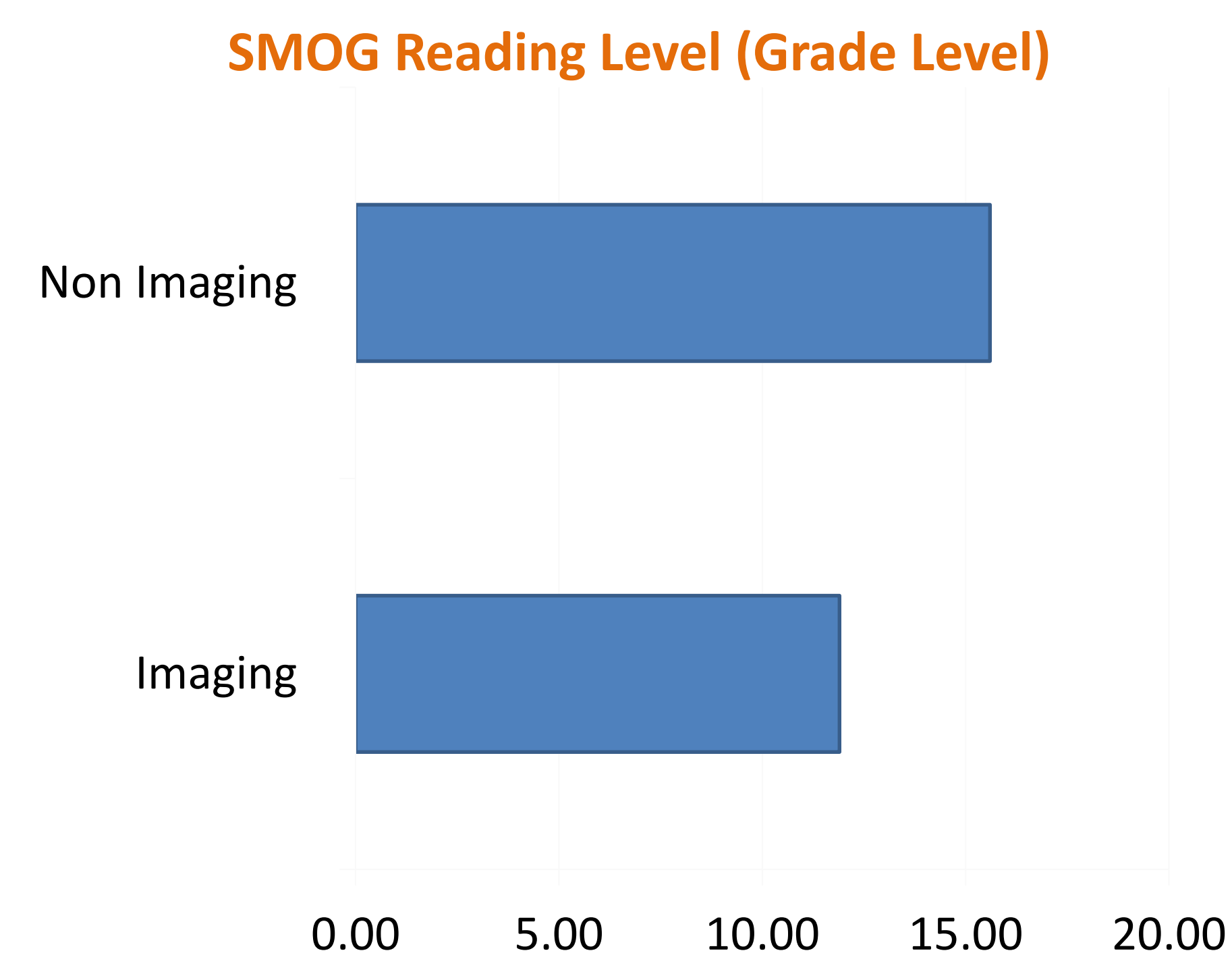


Figure 4: websites mean recommendations using SMOG reading level by type of clinic



MAP

## Summary & Conclusion

### Conclusion

- Imaging centers are more likely
- urban counties
  - recommend screening earlier
  - provide resources in a reading level easier for most women
  - recommend yearly screening

Imaging centers recommend more frequent and earlier screenings which do not match US Preventative Service Task Force recommendations

### Limitation:

American Cancer Society recommendation updated to first screening at age 45 instead of age 40 in October 2015, data was collected prior to update.