CISNET Gastric GSiMo

COLUMBIA | COLUMBIA UNIVERSITY IRVING MEDICAL CENTER

CISNET

Overview

Results:

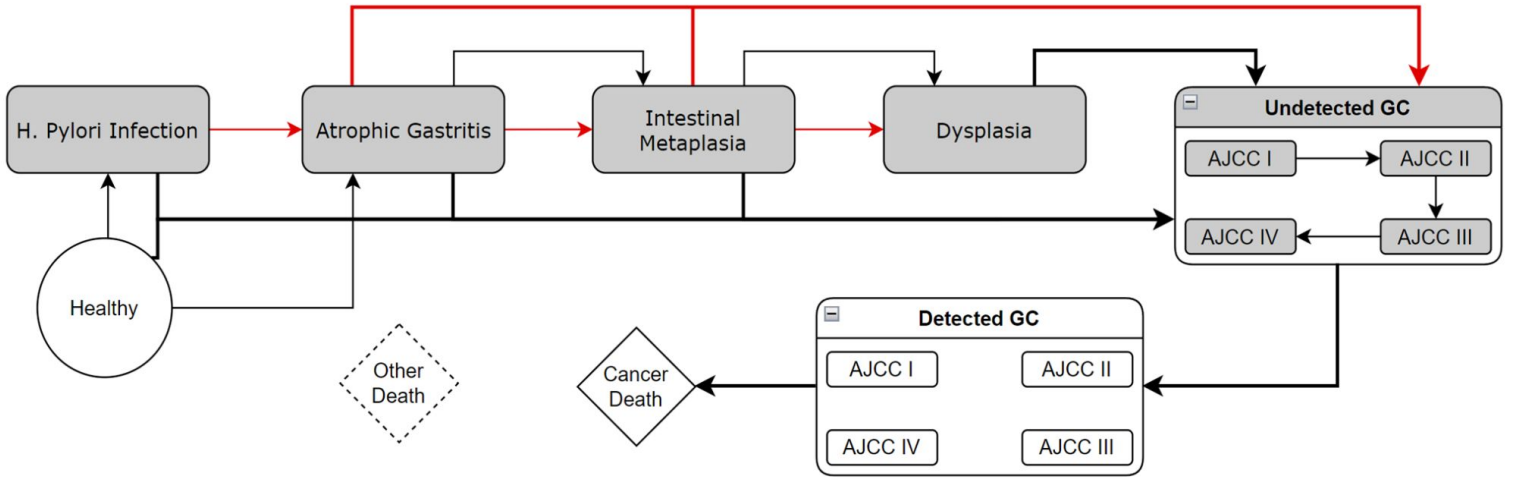
- Natural History
- Dwell Times
- MCLIR, MSRT, RCLIR

Documentation:

- Cornerstone Structure

Next Steps:

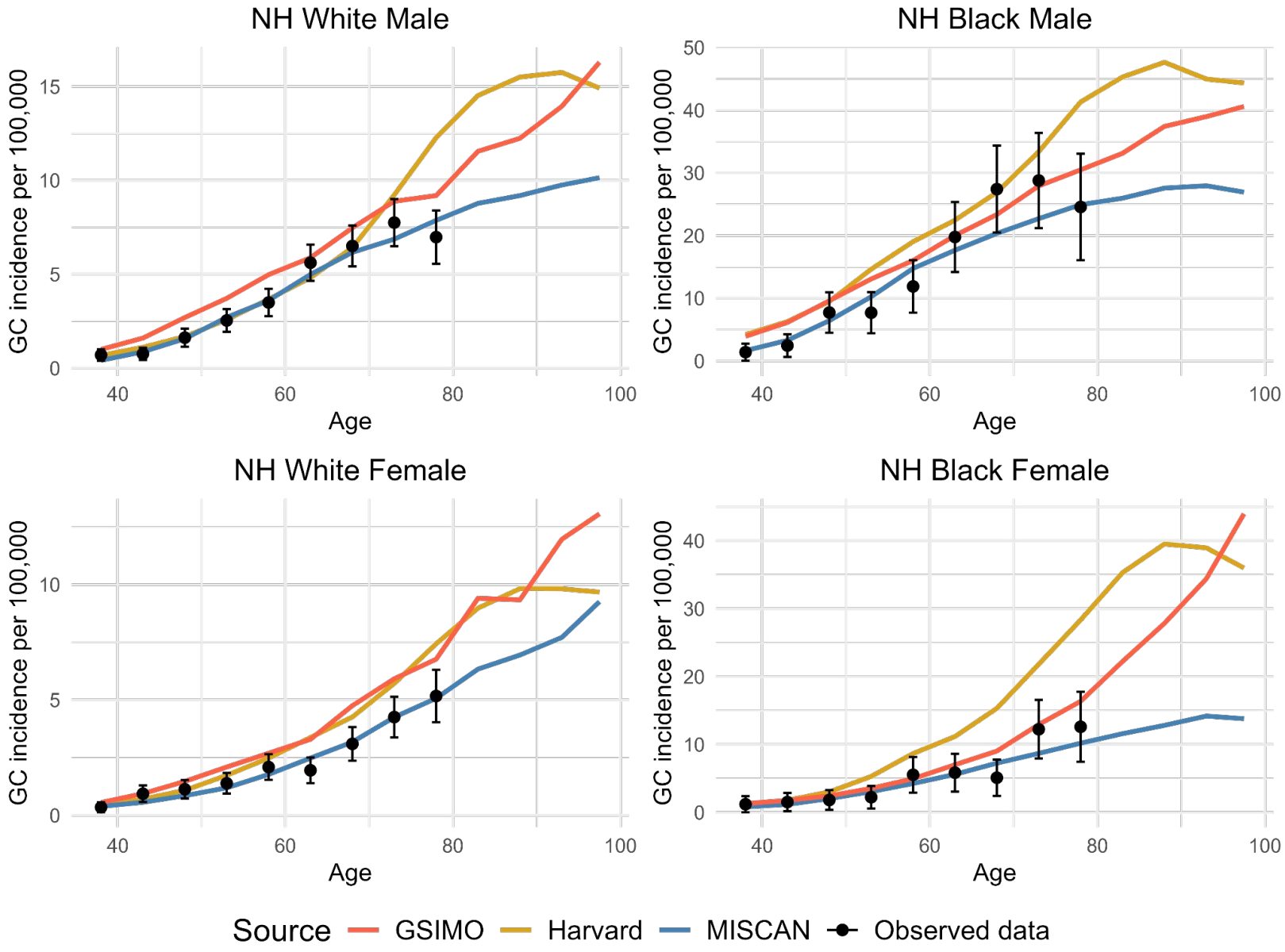
- Simple application + model validity?
- CEA?
- Use documentation structure



Results

Natural History:

- We want to try anchoring to reduce exponential increase beyond data



Results

Dwell Times:

- Combined HP + Non HP

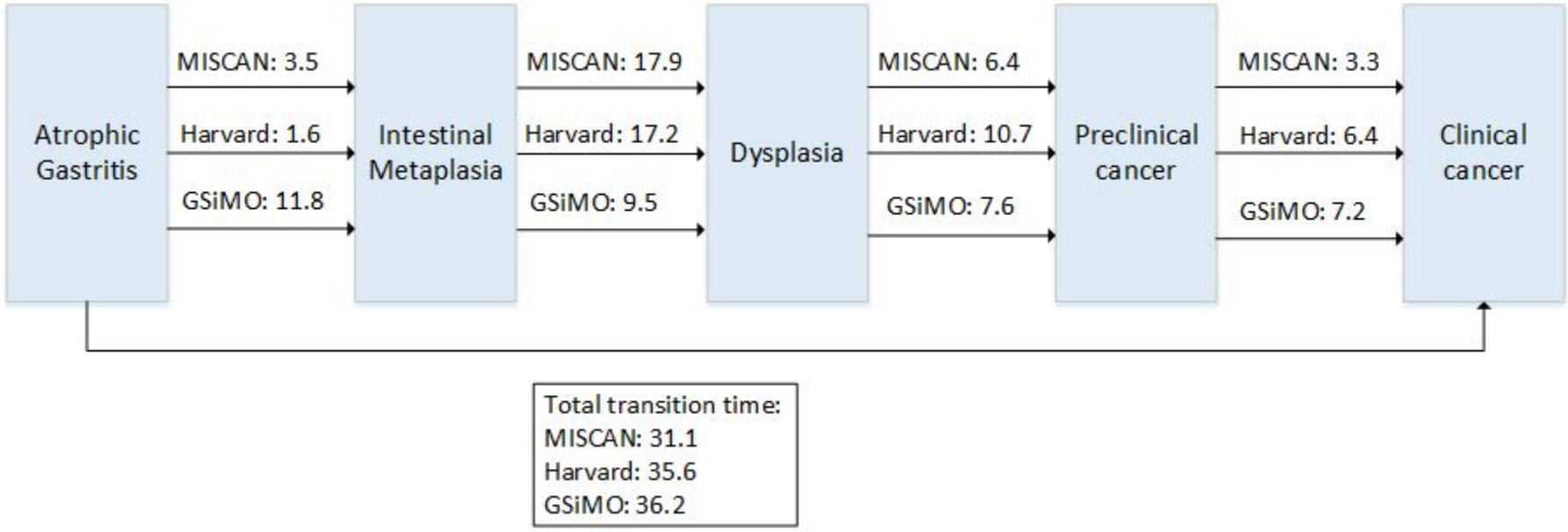
DIAGNOSED CANCER PATIENTS

		NH Black Female			NH White Female			NH Black Male			NH White Male		
State	Number	Mean	Median	Std. Dev	Mean	Median	Std. Dev	Mean	Median	Std. Dev	Mean	Median	Std. Dev
Healthy	0	20.8	17.3	15.9	18.2	14.6	14.4	15.1	12.0	12.4	15.2	11.8	12.6
Atrophic Gastritis	2	10.7	7.8	9.7	12.5	9.6	10.7	11.9	9.2	10.2	13.0	10.3	11.0
Intestinal Metaplasia	4	8.9	6.5	8.3	10.3	7.5	9.3	9.3	6.8	8.5	10.6	7.8	9.6
Dysplasia	6	8.0	5.8	7.5	9.0	6.7	8.2	6.9	5.0	6.5	7.5	5.3	7.1
Undetected GC I	8	3.3	2.3	3.2	3.4	2.3	3.4	3.2	2.3	3.2	3.4	2.4	3.3
Undetected GC II	9	2.4	1.8	2.4	2.4	1.7	2.4	2.4	1.7	2.4	2.4	1.7	2.4
Undetected GC III	10	0.9	0.7	0.9	0.9	0.7	0.9	0.9	0.7	0.9	0.9	0.7	0.9
Undetected GC IV	11	0.6	0.4	0.5	0.6	0.4	0.5	0.6	0.4	0.5	0.6	0.4	0.5
Detected GC I	12	9.0	11.0	3.4	9.4	11.0	3.2	9.7	11.0	3.0	9.6	11.0	3.1
Detected GC II	13	8.9	11.0	3.5	9.4	11.0	3.2	9.5	11.0	3.2	9.5	11.0	3.2
Detected GC III	14	8.8	11.0	3.6	9.3	11.0	3.2	9.5	11.0	3.2	9.6	11.0	3.1
Detected GC IV	15	8.3	11.0	3.9	8.7	11.0	3.8	8.9	11.0	3.8	8.9	11.0	3.7
Cancer Death	16	22.4	19.7	15.1	23.5	20.3	15.5	32.0	31.0	15.8	28.9	27.8	15.6
Other Death	17	13.7	12.0	9.3	13.1	11.7	8.7	17.6	16.3	10.5	15.0	13.6	9.5

Results

Dwell Times:

- Comparison
- We have ‘acceleration’
- We use Dr. Genta’s age-specific IM targets



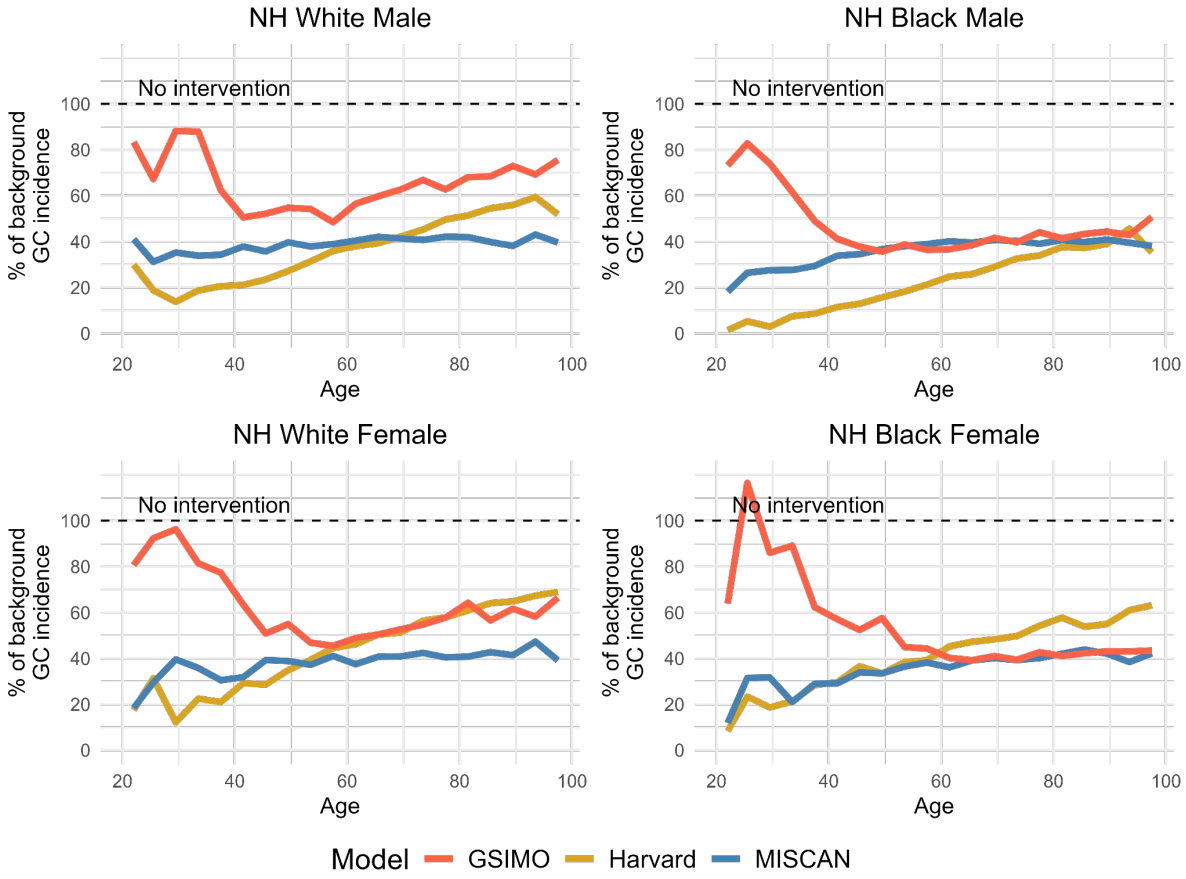
MCLIR

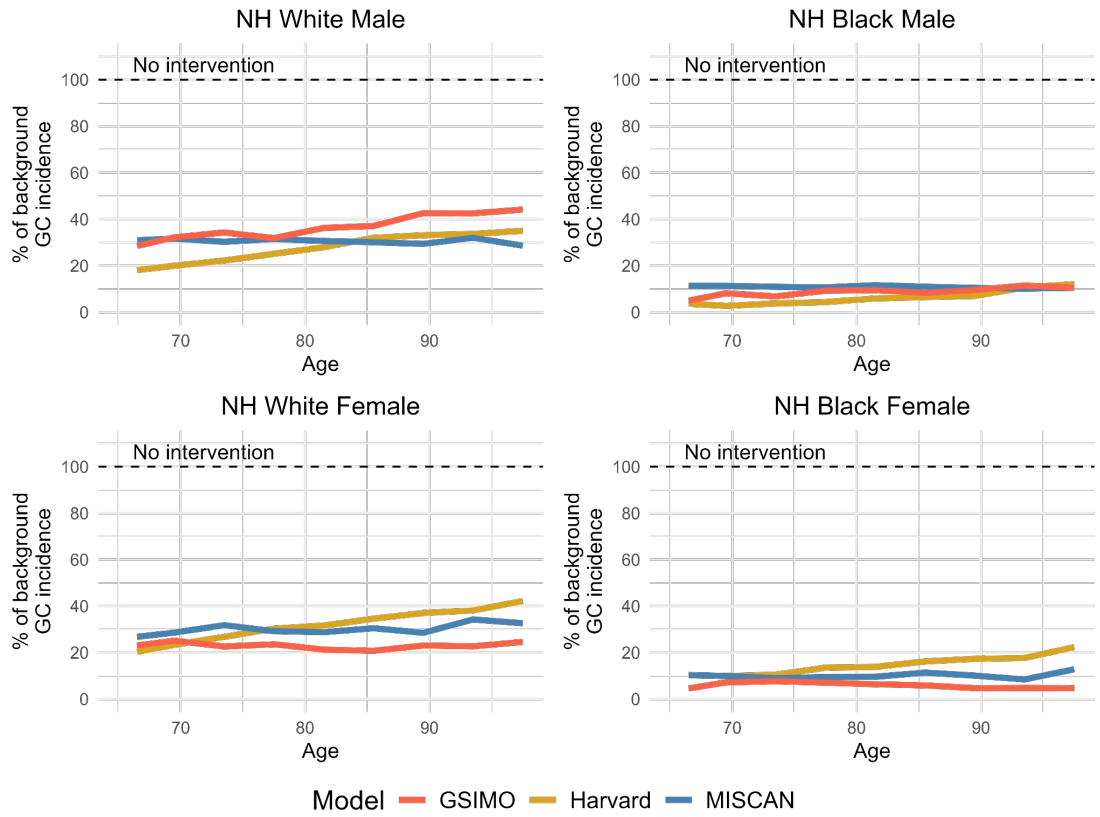
Scenario	Age	Target	Strength	
MCLIR 1	**20**	Hp	100%	100% life-long eradication
		Other precursors	0%	100% removal in people with detected Hp
		Cancer	0%	100% removal in people with detected Hp
MCLIR 2	**65**	Hp	100%	100% life-long eradication
		Other precursors	0%	100% removal in people with detected Hp
		Cancer	0%	100% removal in people with detected Hp
MCLIR 3	**65**	Hp	0%	No treatment
		Other precursors	100%	100% removal
		Cancer	100%	100% removal
MCLIR 4	**65**	Hp	100%	100% life-long eradication
		Other precursors	100%	100% removal
		Cancer	100%	100% removal

Results

MCLIR:

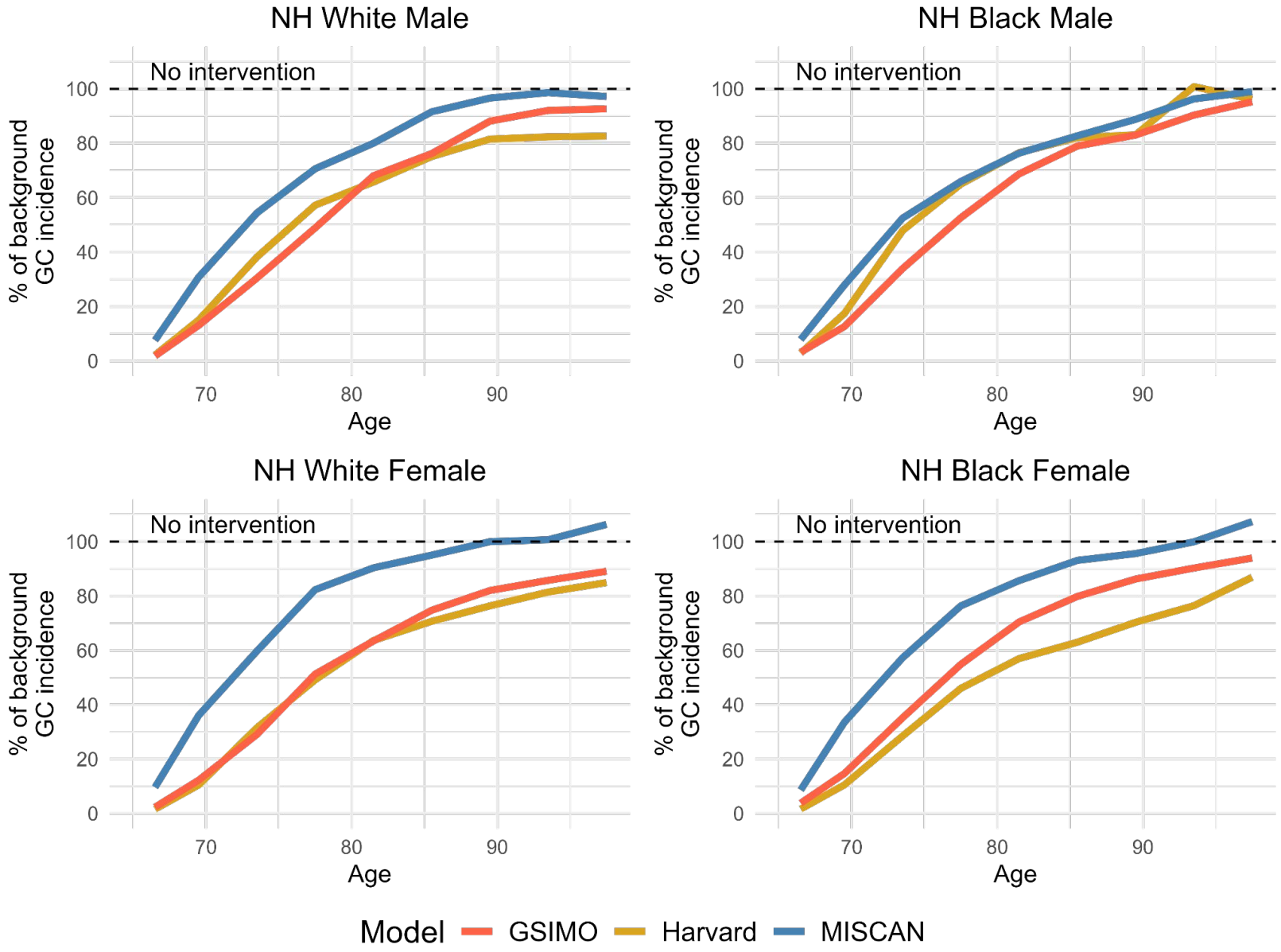
- Scenario 1 greatest deviation
- We allow some direct cases (non-Corea Cascade)





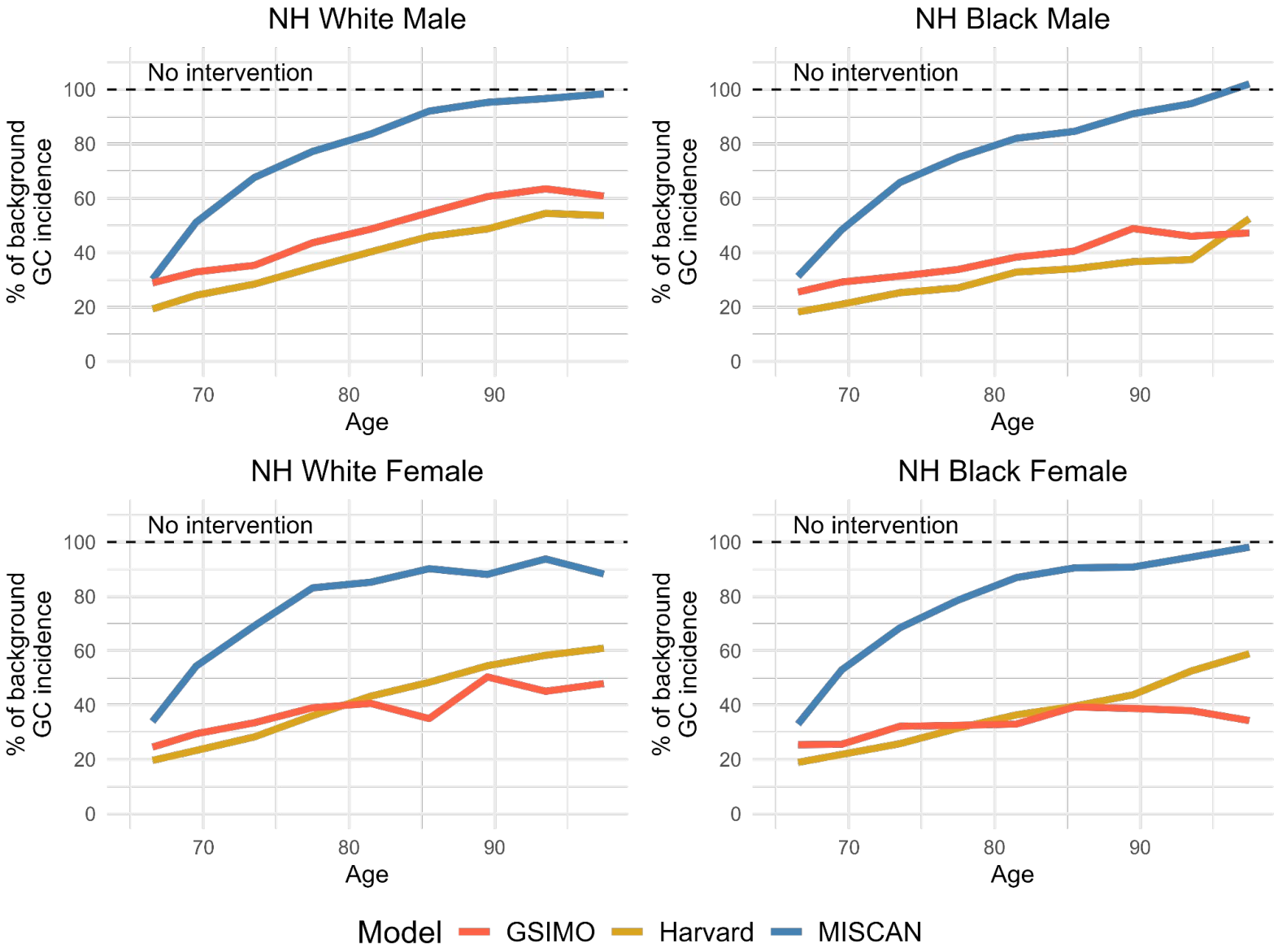
Results

MSRT:



Results

RCLIR:



Documentation

Documentation:

- Cornerstone Structure

Model Purpose This document describes the primary purpose of the model.

Model Overview This document describes the primary aims and general purposes of this modeling effort.

Assumption Overview An overview of the basic assumptions inherent in this model.

Parameter Overview Describes the basic parameter set used to inform the model, more detailed information is available for each specific parameter.

Component Overview A description of the basic computational building blocks (components) of the model.

Output Overview Definitons and methodologies for the basic model outputs.

Results Overview A guide to the results obtained from the model.

Key References A list of references used in the development of the model.

Next Steps

Next Steps:

- Simple application + model validity?
- CEA?
- Use documentation structure