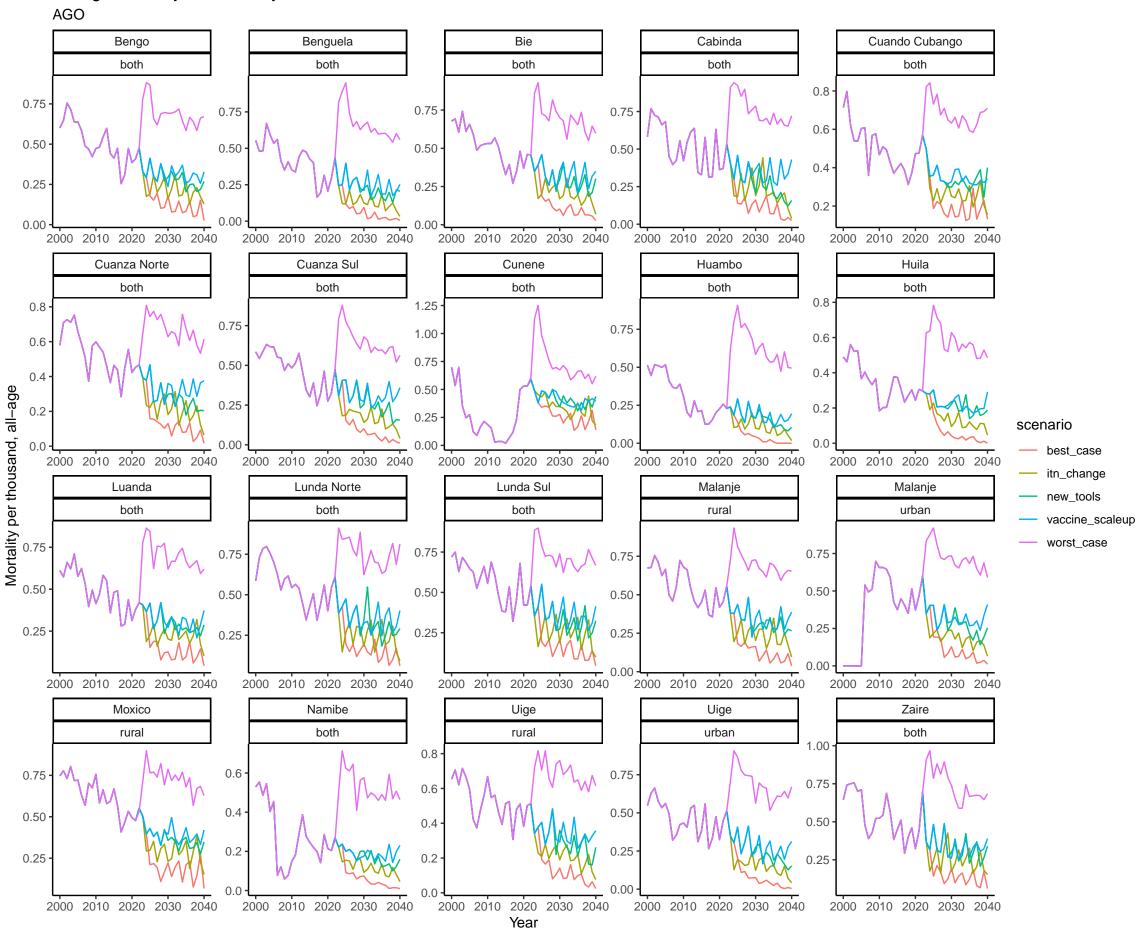
All-age clinical incidence over time by scenario AGO Bengo Bie Cabinda Cuando Cubango Benguela both both both both both 400 400 400 300 400 300 300 300 200 200 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cuanza Norte Cuanza Sul Cunene Huambo Huila both both both both both 300 400 400 400 300 200 200 300 300 Clinical incidence per thousand, all-age 200 100 100 100 100 scenario best_case 2010 2020 2030 2010 2020 2010 2020 2030 2040 2010 2020 2000 2010 2020 2000 2040 2000 2030 2000 2000 2030 2040 2030 2040 itn_change Lunda Sul Lunda Norte Luanda Malanje Malanje new_tools both both both rural urban vaccine_scaleup 500 500 400 worst_case 400 400 400 300 300 300 300 200 200 200 200 100 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 Namibe Uige Uige Zaire Moxico rural both rural urban both 400 500 400 400 400 200 300 300 300 200 200 200 100 100 2000 2010 2030 2000 2010 2020 2030 2040 2000 2010 2020 2020 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2030 2040 Year

All-age mortality over time by scenario AGO



All-age clinical incidence over time by scenario BDI Bubanza Bujumbura Mairie Bujumbura Rural Cankuzo Bururi both both both both both 500 800 400 400 400 400 600 300 300 300 300 200 200 200 200 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 800 500 500 400 600 600 400 400 300 Clinical incidence per thousand, all-age 400 400 200 200 200 100 100 100 scenario best_case 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2000 2010 2020 2000 2030 2040 2040 2030 2040 itn_change Makamba Ngozi Muramvya Muyinga Mwaro new_tools both both both both both vaccine_scaleup 600 400 worst_case 750 750 300 300 500 200 500 200 200 250 100 250 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2010 2020 2030 2030 2040 2000 Ruyigi Rutana both both 800 500 600 400 300 400 200 200 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario BDI Bujumbura Mairie Bubanza Bujumbura Rural Bururi Cankuzo both both both both both 1.00 1.00 1.5 0.75 0.75 0.75 0.75 1.0 0.50 0.50 0.50 0.50 0.25 0.00 2000 2010 2020 2000 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 1.00 1.5 1.5 0.75 0.75 0.75 1.0 0.50 0.50 0.50 0.5 0.25 0.25 0.25 scenario best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2010 2020 2030 2040 2020 2030 2000 2010 2020 2000 2040 2030 2040 itn_change Makamba Muramvya Ngozi Muyinga Mwaro new_tools both both both both both vaccine_scaleup 1.5 worst_case 1.5 0.75 0.75 0.9 1.0 0.50 1.0 0.50 0.6 0.25 0.5 0.3 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2010 2020 2030 2040 2040 2000 Rutana Ruyigi both both 1.5 0.75 1.0 0.50 0.5 0.25

Mortality per thousand, all-age

0.0

2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

All-age clinical incidence over time by scenario BEN Alibori Atakora Atlantique Atlantique urban rural rural rural Borgou Borgou Collines Donga rural urban rural rural scenario best_case itn_change Kouffo Littoral Mono Oueme new_tools both both urban rural vaccine_scaleup worst_case Plateau Zou Oueme Zou urban both rural urban

Clinical incidence per thousand, all-age

Year

All-age mortality over time by scenario BEN Alibori Atakora Atlantique Atlantique rural rural urban rural 1.2 2.0 0.9 1.5 0.9 1.5 0.6 1.0 0.6 1.0 0.3 0.5 0.5 0.3 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Donga Borgou Borgou Collines rural urban rural rural 1.00 1.00 2.0 0.9 0.75 0.75 1.5 0.6 0.50 0.50 1.0 0.25 0.3 0.5 0.25 scenario 0.00 best_case 2010 2010 2010 2010 2020 2030 2040 2000 2020 2030 2040 2000 2020 2030 2040 2000 2020 2030 2000 2040 itn_change Kouffo Littoral Mono Oueme new_tools both urban both rural vaccine_scaleup 1.00 1.25 8.0 1.00 worst_case 1.00 0.75 0.75 0.6 0.75 0.50 0.50 0.4 0.50 0.25 0.25 0.2 0.25 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Plateau Zou Zou Oueme urban both rural urban 1.00 0.8 1.00 0.75 0.75 0.75 0.6 0.50 0.50 0.4 0.50 0.25 0.25 0.25 0.2

2030

2020

Mortality per thousand, all-age

2010

2000

2020

2040

2030

2010

2000

2030

2020

2040

2010

2000

Year

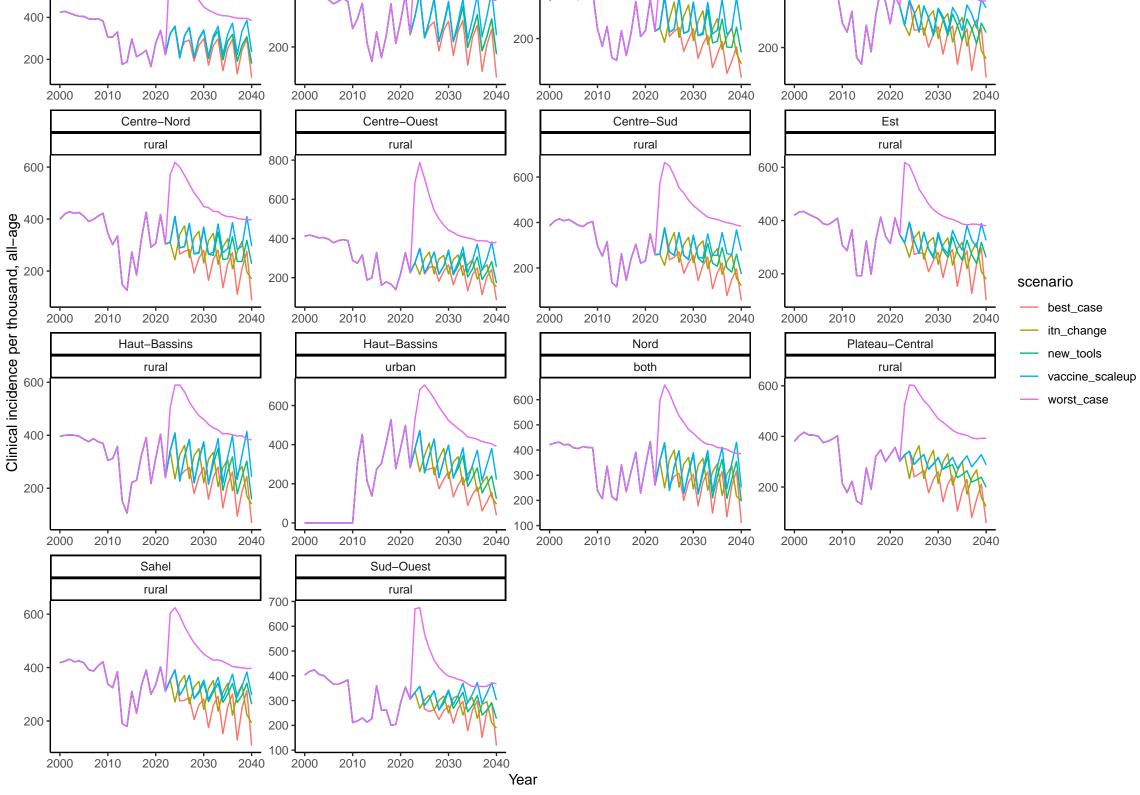
2020

2030

2040

2010

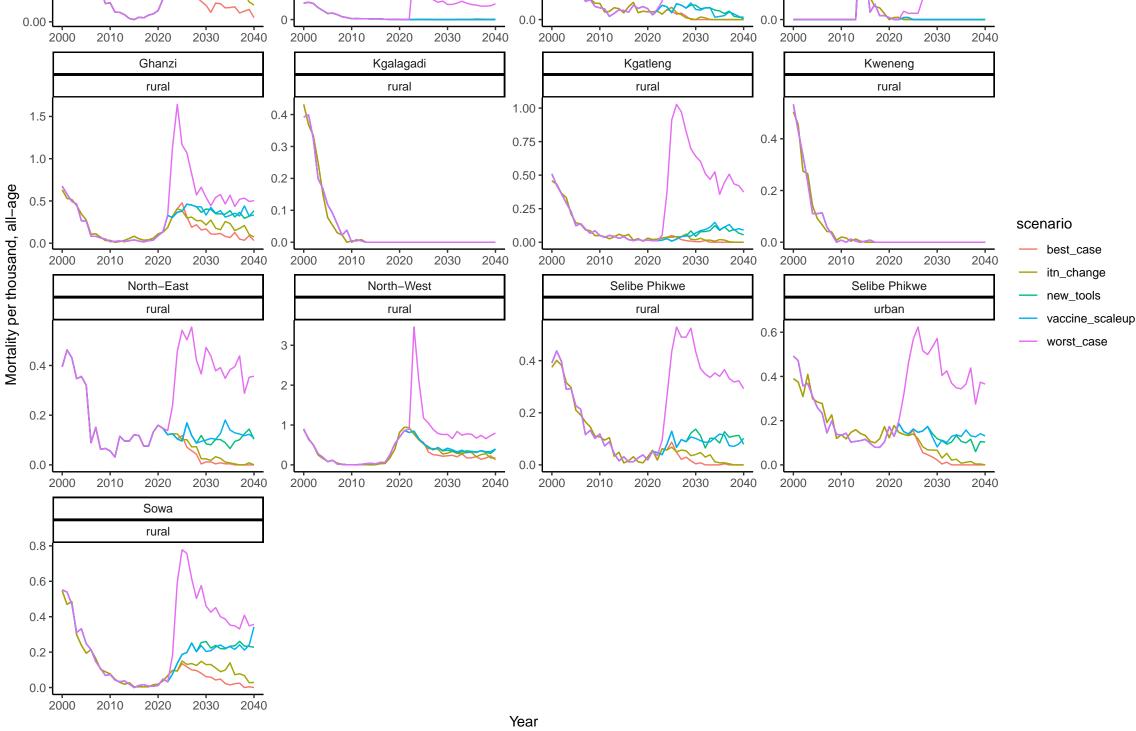
All-age clinical incidence over time by scenario BFA Boucle du Mouhoun Cascades Centre Centre-Est rural both both rural Centre-Sud Centre-Nord Centre-Ouest Est rural rural rural rural scenario best_case itn_change Plateau-Central Haut-Bassins Haut-Bassins Nord new_tools urban rural both rural vaccine_scaleup worst_case Sud-Ouest Sahel



All-age mortality over time by scenario BFA Centre-Est Boucle du Mouhoun Cascades Centre rural rural both both 1.25 1.6 1.00 1.2 1.2 1.0 0.75 0.8 8.0 0.50 0.4 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Centre-Nord Centre-Ouest Centre-Sud Est rural rural rural rural 1.5 1.0 1.0 1.0 Mortality per thousand, all-age 0.5 0.5 scenario best_case 2010 2010 2000 2010 2020 2030 2040 2000 2020 2010 2020 2030 2040 2000 2020 2030 2040 2000 2030 2040 itn_change Haut-Bassins Haut-Bassins Plateau-Central Nord new_tools both rural urban rural vaccine_scaleup 1.5 1.2 worst_case 1.0 8.0 0.5 0.5 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2040 2030 Sud-Ouest Sahel rural rural 1.0 1.0 0.5 2040 2010 2010 2020 2030 2020 2030 2040 2000 2000 Year

All-age clinical incidence over time by scenario **BWA** Central Chobe Francistown Francistown rural rural urban rural Ghanzi Kgalagadi Kgatleng Kweneng rural rural rural rural Clinical incidence per thousand, all-age scenario best_case itn_change North-West Selibe Phikwe Selibe Phikwe North-East new_tools rural rural rural urban vaccine_scaleup worst_case Sowa rural

All-age mortality over time by scenario BWA Central Chobe Francistown Francistown rural rural urban rural 6 0.6 0.75 0.2 0.4 0.50 0.1 0.2 0.25 2020 2000 2010 2020 2030 2040 2000 2010 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Ghanzi Kgalagadi Kgatleng Kweneng rural rural rural rural 1.00 0.4 0.4 0.75 0.3 0.50 0.2 0.2 0.25 scenario 0.0 0.00 best_case 2020 2010 2020 2030 2040 2010 2020 2040 2010 2020 2030 2010 2030 2040 2000 2000 2030 2000 2040 2000 itn_change North-East North-West Selibe Phikwe Selibe Phikwe new_tools urban rural rural rural vaccine_scaleup 0.6 worst_case 0.4 0.4 0.2 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2040 2030 Sowa rural



All-age clinical incidence over time by scenario CAF Bamingui-Bangoran Basse-Kotto Haut-Mbomou Haute-Kotto Bangui both rural rural rural rural 600 500 500 500 500 400 400 400 400 400 300 300 300 300 200 200 200 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Kemo Lobaye Mambere-Kadei Mbomou Nana-Grebizi rural rural both both rural 600 600 500 500 500 400 400 400 400 Clinical incidence per thousand, all-age 300 300 300 200 200 200 200 scenario best_case 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2030 2000 2010 2020 2030 2000 2010 2020 2000 2000 2000 2040 2040 2030 2040 itn_change Ombella-M'Poko Ombella-M'Poko Ouham Nana-Mambere Ouaka new_tools rural rural urban both both vaccine_scaleup 600 600 500 500 worst_case 500 400 400 400 400 400 300 300 300 200 200 200 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2000 2040 Ouham-Pende Sangha-Mbaere Vakaga both rural rural 500 500 400 400 400 300 300 200 200 100

2020 Year

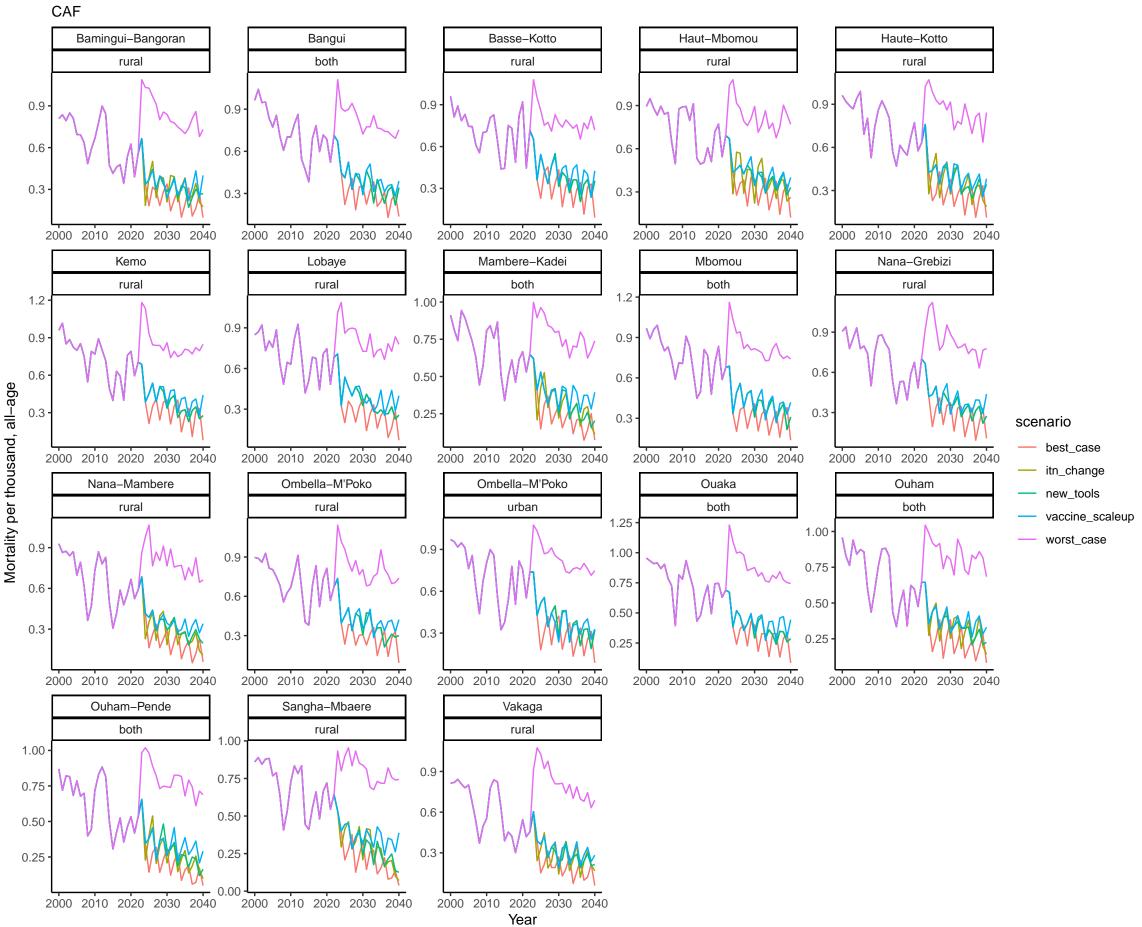
2000

2010

2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

All-age mortality over time by scenario

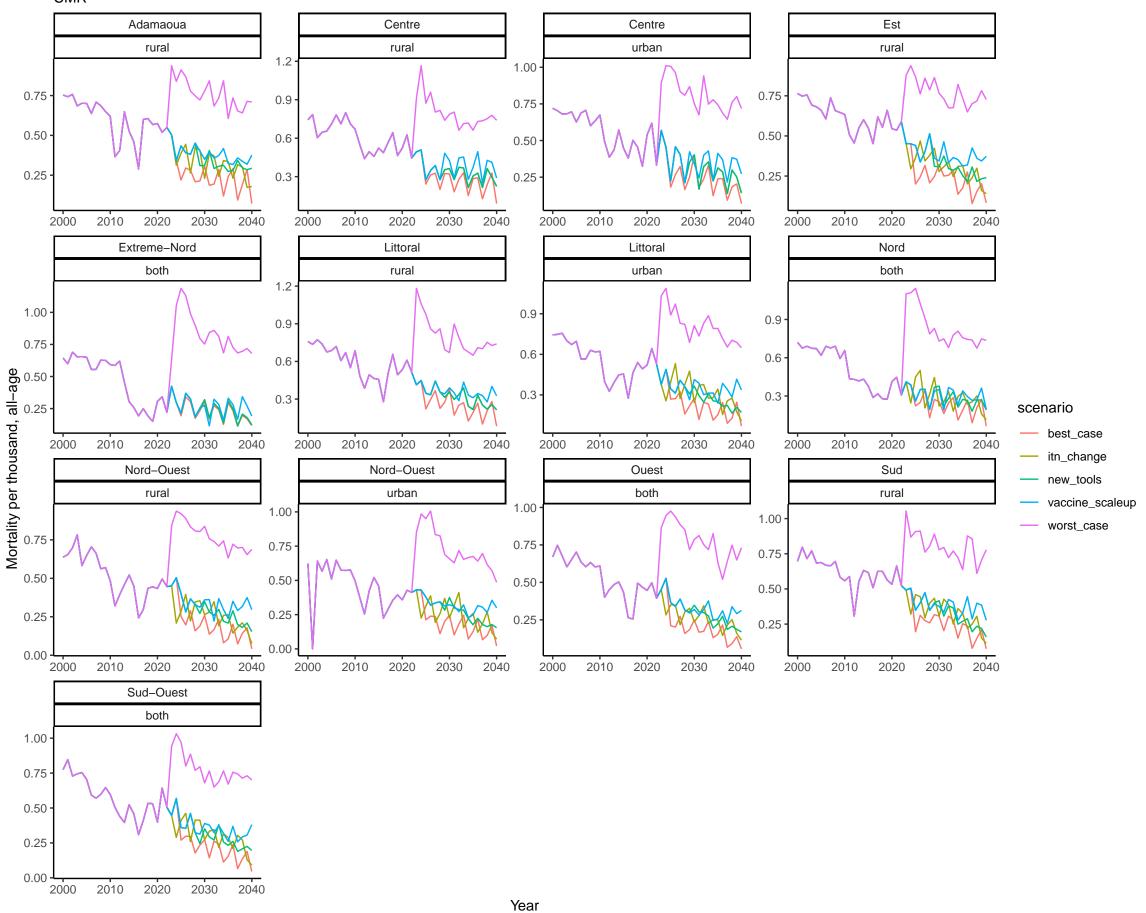


All-age clinical incidence over time by scenario CIV Bas-Sassandra Abidjan Bas-Sassandra Comoe Comoe both rural urban rural urban Denguele Goh-Djiboua Goh-Djiboua Lacs Lagunes both rural urban both rural Clinical incidence per thousand, all-age 2000 2010 Sassandra-Marahoue Lagunes Montagnes Montagnes Sassandra-Marahoue urban rural urban urban rural scenario best_case itn_change new_tools vaccine_scaleup worst_case 2000 2010 2030 2040 Savanes Savanes Vallee du Bandama Vallee du Bandama Woroba urban urban both rural rural 2030 2040 2030 2040 2030 2040 2000 2010 Yamoussoukro Yamoussoukro Zanzan Zanzan rural urban urban rural 2010 2020 2030 2000 2010 2020 2010 2020 Year

All-age mortality over time by scenario CIV Bas-Sassandra Comoe Abidjan Bas-Sassandra Comoe both rural urban rural urban 1.2 1.00 1.00 1.00 0.9 0.9 0.75 0.75 0.6 0.6 0.50 0.50 0.50 0.3 0.3 0.25 2010 2020 2010 2020 2030 2000 2010 2020 2010 2020 2000 2010 2020 2000 2030 2040 2000 2040 2030 2040 2000 2030 2040 2030 Denguele Goh-Djiboua Goh-Djiboua Lacs Lagunes both rural urban both rural 1.2 1.25 1.25 0.9 1.00 0.9 1.00 0.9 0.75 0.6 0.6 0.6 0.50 0.50 0.3 2000 2010 2020 2010 2020 2010 2020 2010 2020 2030 2040 2000 2030 2040 2000 2030 2040 2000 2010 2020 2030 2040 2000 2030 Mortality per thousand, all-age Sassandra-Marahoue Lagunes Montagnes Montagnes Sassandra-Marahoue urban urban urban rural rural scenario 1.00 best_case 1.00 0.9 0.9 0.9 0.75itn_change 0.6 0.6 0.6 0.50 0.50 new_tools 0.3 0.3 vaccine_scaleup worst_case 2000 2010 2020 2000 2010 2020 2030 2040 2010 2020 2010 2020 2000 2010 2020 2030 2040 2000 2030 2040 2000 2030 2040 2030 Vallee du Bandama Savanes Savanes Vallee du Bandama Woroba urban both rural rural urban 1.25 1.25 1.00 1.00 1.00 1.00 0.75 0.75 0.75 0.75 0.50 0.50 0.50 0.50 0.50 0.25 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Yamoussoukro Yamoussoukro Zanzan Zanzan rural urban rural urban 1.00 1.00 0.75 0.9 0.75 0.75 0.50 0.6 0.50 0.50 0.25 2000 2010 2020 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2000 2010 2020 2030 2000 2040 Year

All-age clinical incidence over time by scenario CMR Adamaoua Centre Centre Est urban rural rural rural Extreme-Nord Littoral Littoral Nord both rural urban both Clinical incidence per thousand, all-age scenario best_case itn_change Nord-Ouest Nord-Ouest Sud Ouest new_tools urban rural both rural vaccine_scaleup worst_case Sud-Ouest both

All-age mortality over time by scenario CMR



All-age clinical incidence over time by scenario COD Bas-Uele Haut-Katanga Equateur Equateur Haut-Katanga Haut-Lomami rural urban rural urban both rural 500 600 600 600 500 400 400 400 400 400 400 300 300 200 200 200 200 200 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Haut-Uele Kasai Kasai-Central Kasai-Oriental Kasai-Oriental Ituri both both both both urban rural 600 500 500 500 500 400 400 400 400 400 400 300 300 300 300 300 200 200 200 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kongo-Central Kongo-Central Kwilu Kinshasa Kwango Kwilu 900 000 000 400 both rural urban rural rural urban 600 600 600 600 500 400 400 400 400 400 300 300 scenario 200 200 200 200 200 200 100 best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 itn_change Lomami Lualaba Mai-Ndombe Maniema Maniema Mongala new_tools both rural rural rural urban both vaccine_scaleup 500 600 600 500 500 500 400 worst_case 400 400 400 400 400 300 300 300 300 200 200 200 200 200 200 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Nord-Kivu Nord-Ubangi Sankuru Sud-Kivu Sud-Kivu Sud-Ubangi both both rural rural urban both 500 400 500 500 500 400 400 400 300 400 400 300 300 200 300 300 200 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Tshopo Tshopo Tshuapa Tanganyika both rural urban rural 500 500 500 500 400 400 400 400 300 300 300 300 200 200 200 200 100 100 100 100

2000 2010 2020 2030 2040

Year

2000 2010 2020 2030 2040

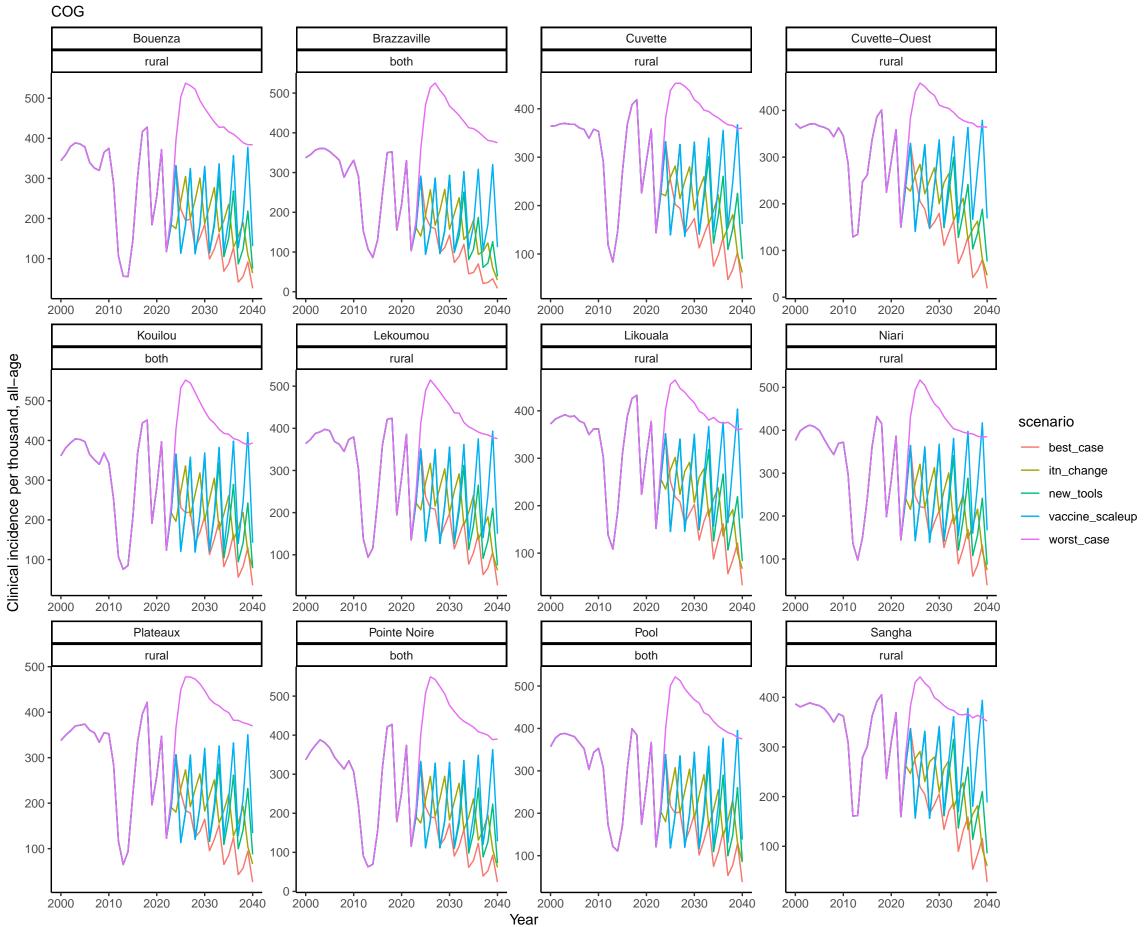
Clinical incidence per thousand,

2000 2010 2020 2030 2040

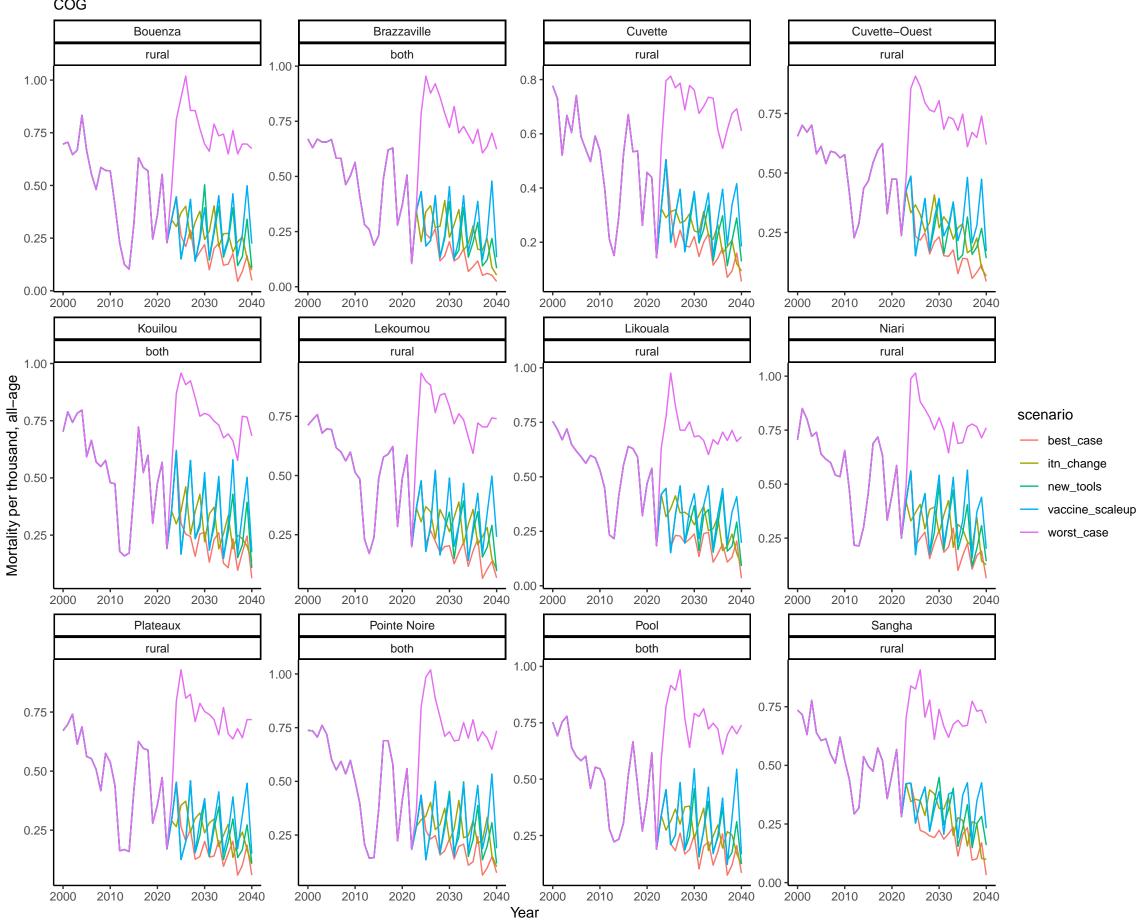
2000 2010 2020 2030 2040

All-age mortality over time by scenario COD Bas-Uele Equateur Haut-Katanga Haut-Katanga Haut-Lomami Equateur rural rural urban rural urban both 1.2 1.2 1.00 1.00 0.75 0.9 0.9 0.75 0.75 0.6 0.50 0.6 0.50 0.50 0.3 0.25 0.25 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kasai-Central Haut-Uele Ituri Kasai-Oriental Kasai-Oriental Kasai both both both both rural urban 1.00 1.00 1.00 1.00 0.75 0.75 0.75 0.75 0.50 0.6 0.50 0.50 0.50 0.25 0.25 0.25 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kongo-Central Kongo-Central Kwilu Kwilu Kinshasa Kwango both rural urban rural rural urban 1.00 Mortality per thousand, all-age
0.5
0.50
0.50
0.25 0.9 0.9 0.9 0.9 0.75 0.6 0.6 0.6 0.6 0.50 scenario 0.3 0.3 0.25 best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 itn_change Lomami Lualaba Mai-Ndombe Maniema Maniema Mongala new_tools both urban both rural rural rural vaccine_scaleup 1.00 1.00 1.00 1.00 0.75 worst_case 0.75 0.75 0.6 0.50 0.50 0.50 0.50 0.25 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Nord-Kivu Nord-Ubangi Sankuru Sud-Kivu Sud-Kivu Sud-Ubangi both both rural rural urban both 1.00 1.00 1.00 0.75 0.75 0.9 0.75 0.75 0.50 0.50 0.50 0.50 0.50 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Tshopo Tshuapa Tanganyika Tshopo both rural urban rural 1.00 1.00 1.00 0.75 0.75 0.75 0.75 0.50 0.50 0.50 0.50 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age clinical incidence over time by scenario COG



All-age mortality over time by scenario COG



All-age clinical incidence over time by scenario ERI Debub Debub Anseba Anseba urban urban rural rural Debubawi Keyih Bahri Gash Barka Gash Barka Maekel Clinical incidence per thousand, all-age rural urban rural rural 30 -scenario best_case itn_change new_tools vaccine_scaleup worst_case Semenawi Keyih Bahri Semenawi Keyih Bahri Maekel urban urban rural

All-age mortality over time by scenario ERI Anseba Debub Debub Anseba rural urban rural urban 1.00 1.00 1.00 0.3 0.75 0.75 0.75 0.2 0.50 0.50 0.50 0.25 0.25 0.25 0.00 0.00 0.00 2040 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2000 2010 2020 2030 2040 Debubawi Keyih Bahri Gash Barka Gash Barka Maekel urban rural rural rural Mortality per thousand, all-age 0.3 0.9 0.9 scenario 0.10 best_case 0.2 itn_change 0.6 0.6 new_tools 0.05 vaccine_scaleup 0.3 worst_case 0.0 0.00 0.0 2010 2020 2030 2020 2030 2010 2020 2030 2040 2010 2020 2040 2000 2040 2000 2010 2040 2000 2000 2030 Maekel Semenawi Keyih Bahri Semenawi Keyih Bahri urban rural urban 1.00 0.4 1.0 0.75 0.3 0.50 0.2 0.5 0.25 0.1 0.00 2040 2040 2010 2020 2030 2040 2010 2020 2030 2000 2010 2020 2030 2000 2000 Year

All-age clinical incidence over time by scenario **ETH** Benshangul-Gumaz Addis Abeba Afar Amhara both both both both 300 -200 -100 -Gambela Peoples Harari People Dire Dawa Oromia Clinical incidence per thousand, all-age both both both both scenario best_case 200 -itn_change new_tools vaccine_scaleup 100 -worst_case uthern Nations, Nationalities and Peop Somali Tigray both both both 200 -100 -Year

2000

Year

2010

2020

2040

2030

0.0

2000

2010

2020

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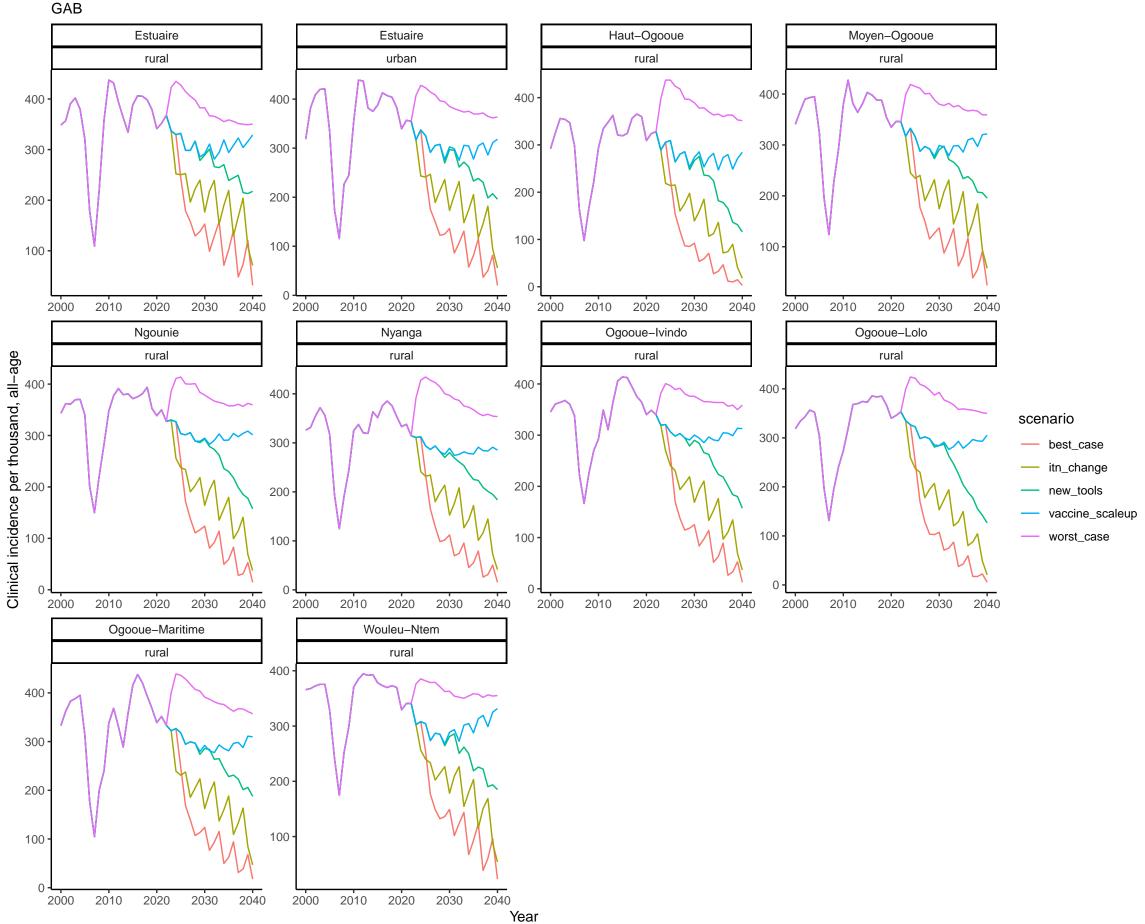
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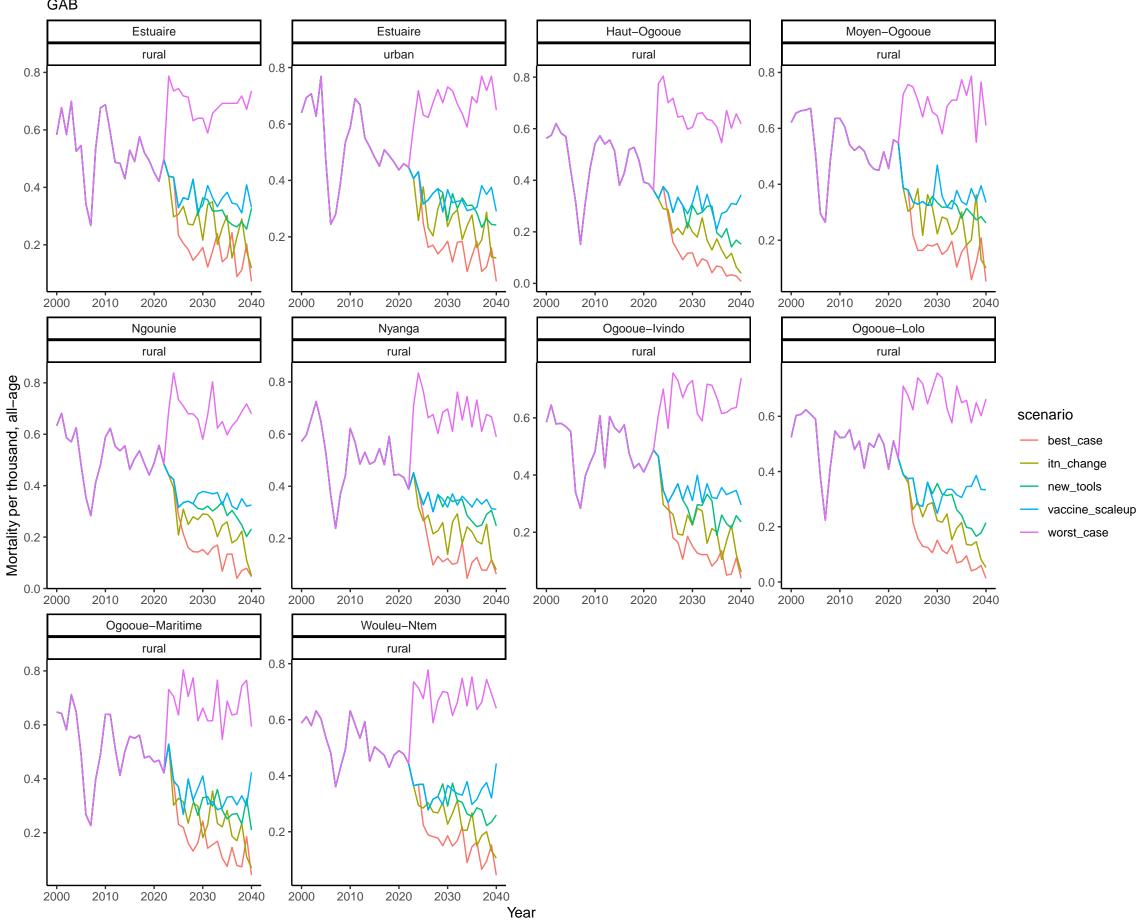
2020

2010

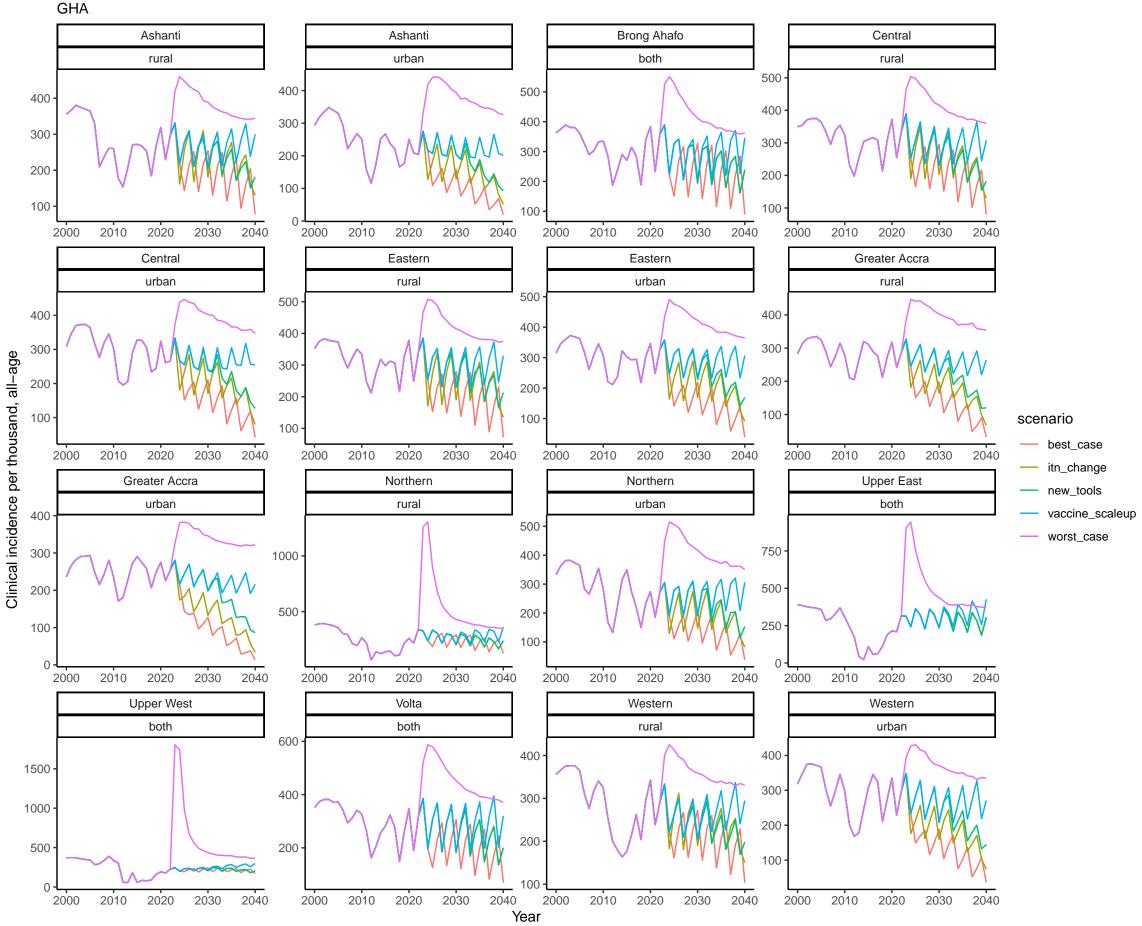
All-age clinical incidence over time by scenario GAB



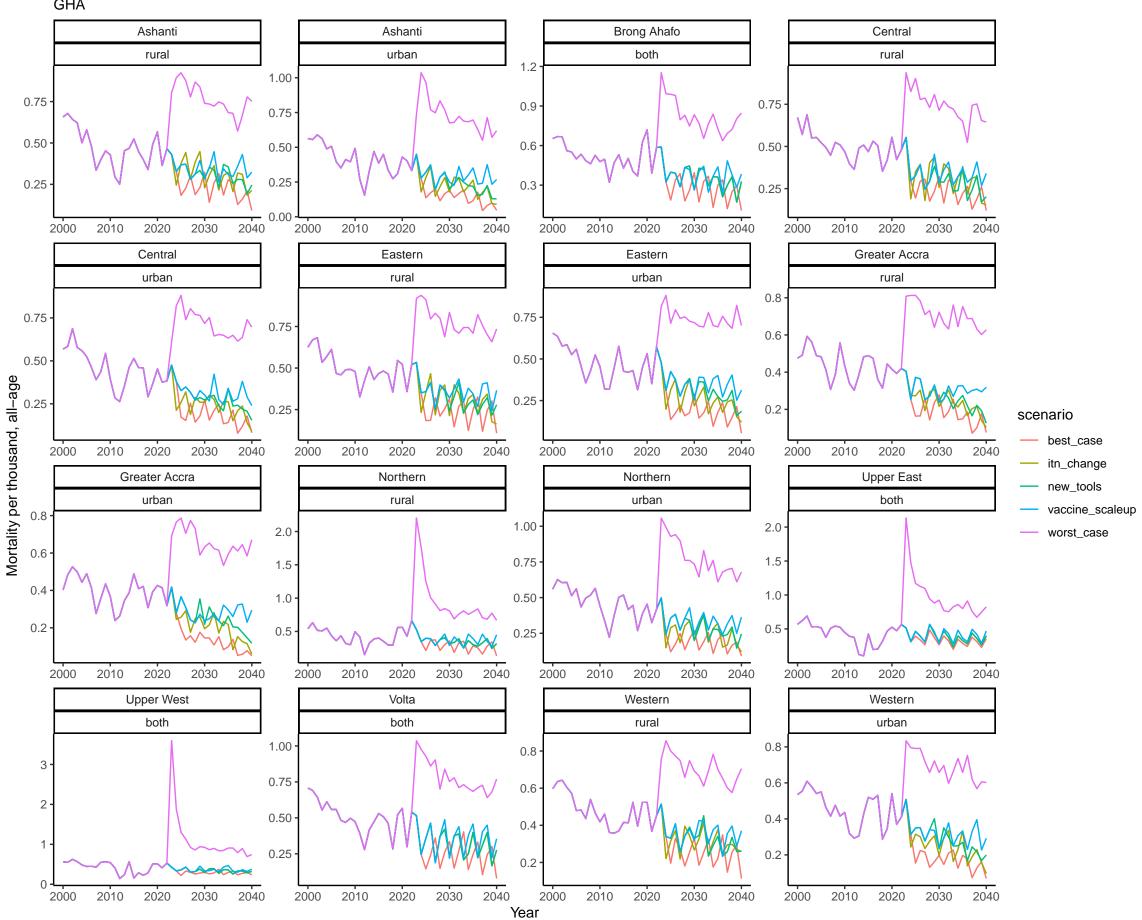
All-age mortality over time by scenario GAB



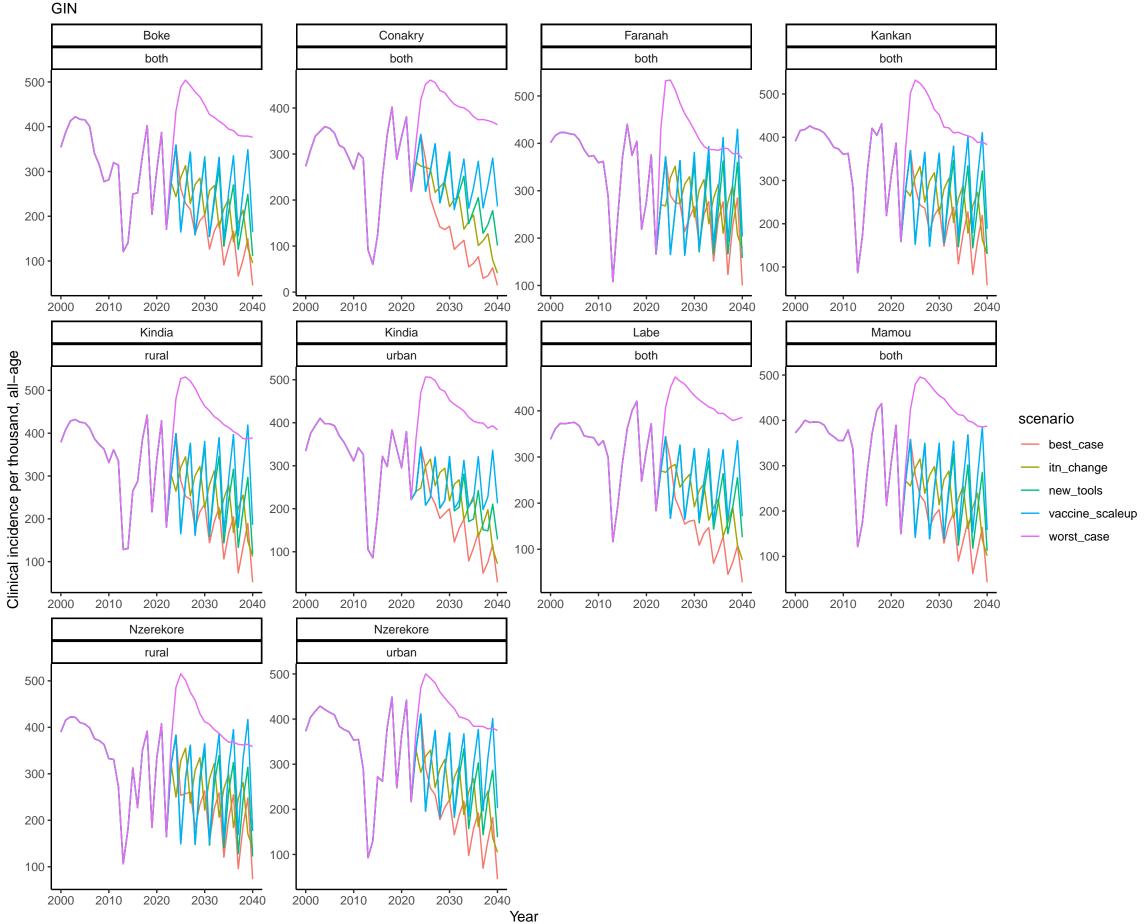
All-age clinical incidence over time by scenario GHA Ashanti Ashanti Brong Ahafo Central urban both rural rural 500 400 500 400 400 400 300 300



All-age mortality over time by scenario GHA

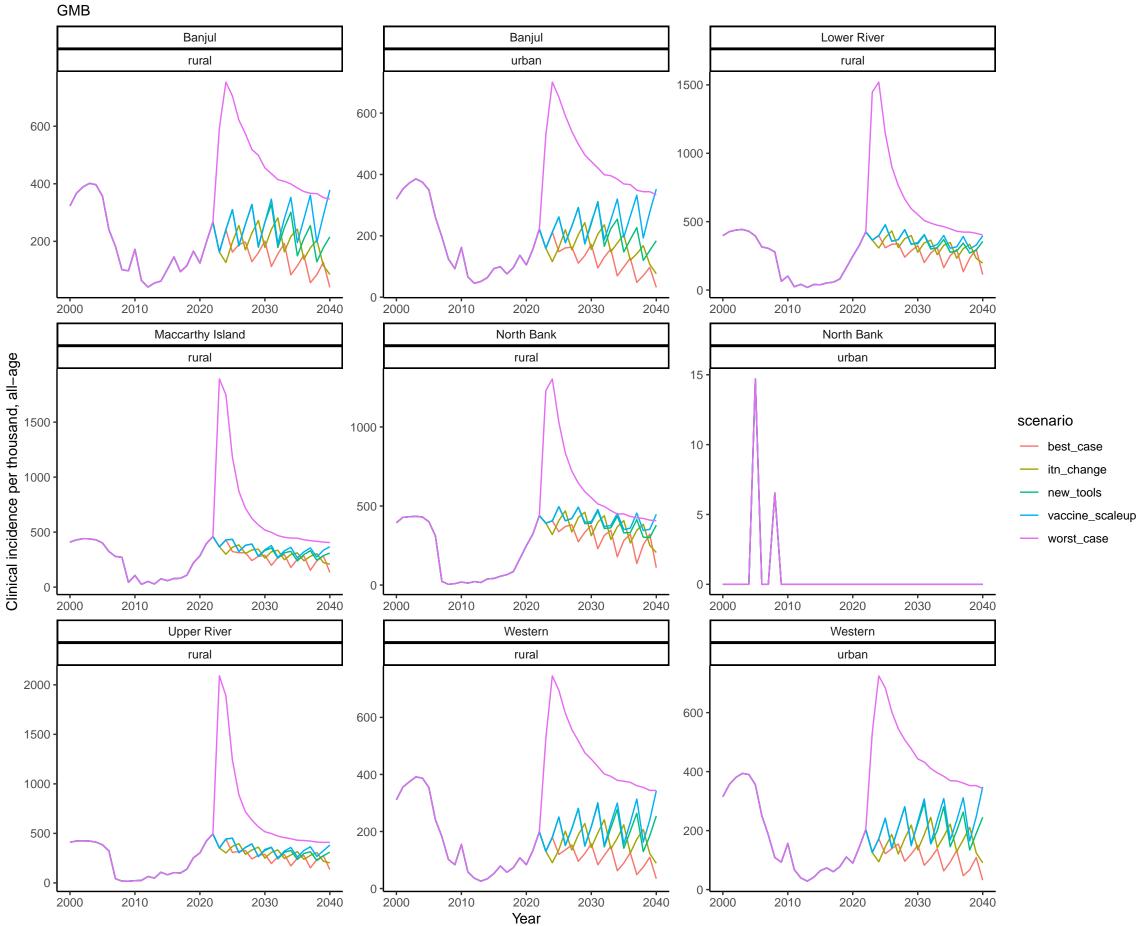


All-age clinical incidence over time by scenario GIN Boke

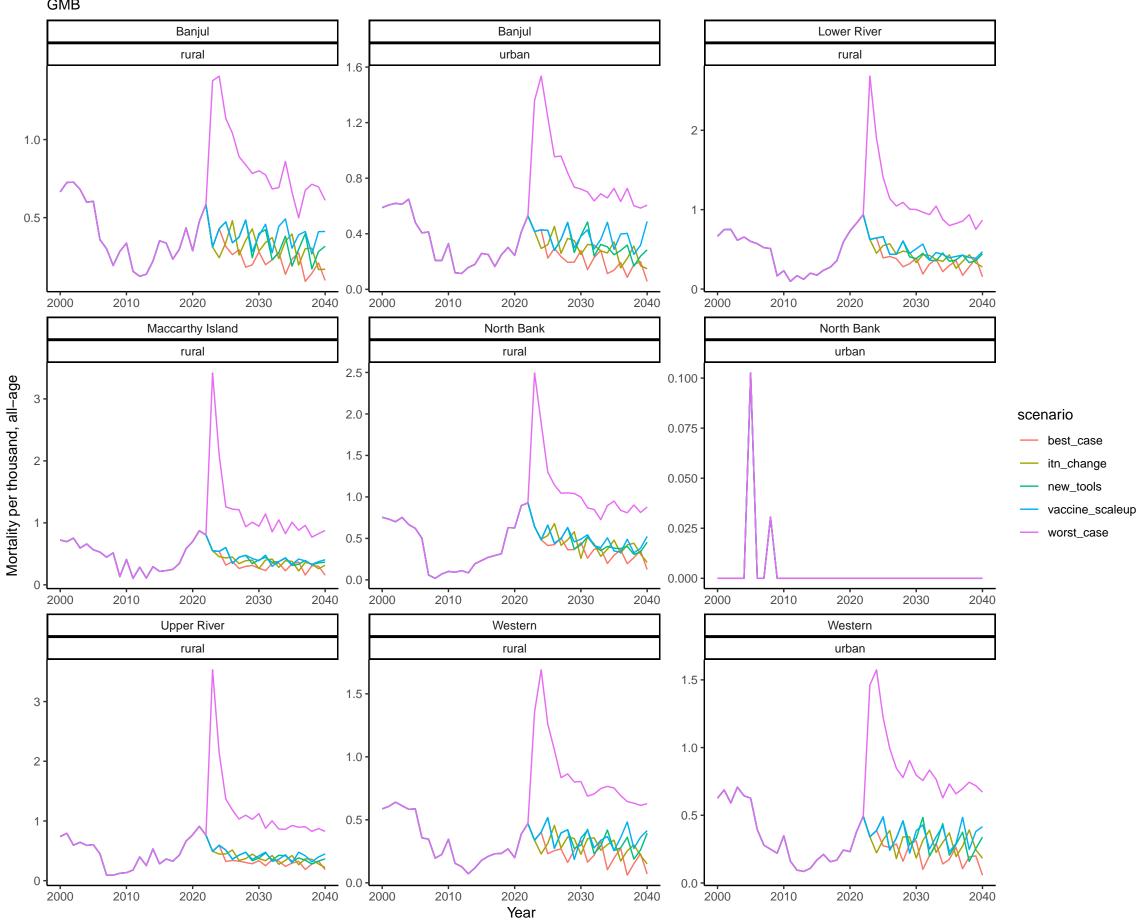


All-age mortality over time by scenario GIN Conakry Faranah Kankan Boke both both both both 1.2 1.00 0.75 -0.9 0.9 0.75 0.50 0.6 0.50 0.6 0.25 0.25 0.3 0.3 2010 2010 2000 2010 2020 2030 2040 2000 2020 2030 2040 2000 2010 2020 2030 2040 2000 2020 2030 2040 Kindia Mamou Kindia Labe urban both both rural 1.00 1.00 Mortality per thousand, all-age 0.75 scenario 0.75 0.75 best_case itn_change 0.50 0.50 0.50 new_tools vaccine_scaleup worst_case 0.25 0.25 0.25 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2000 2000 Nzerekore Nzerekore rural urban 1.00 0.75 0.75 0.50 0.50 0.25 0.25 2040 2000 2040 2010 2020 2030 2000 2010 2020 2030

All-age clinical incidence over time by scenario GMB

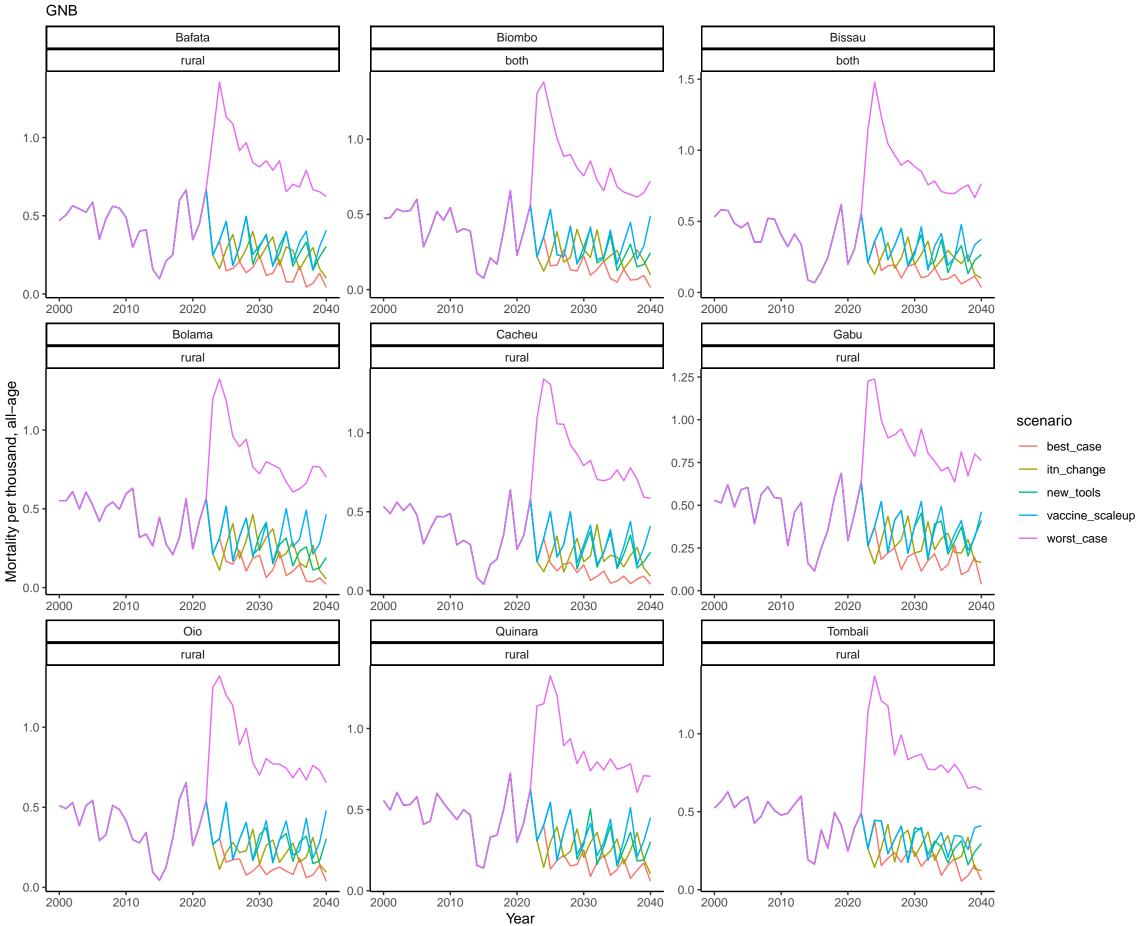


All-age mortality over time by scenario GMB

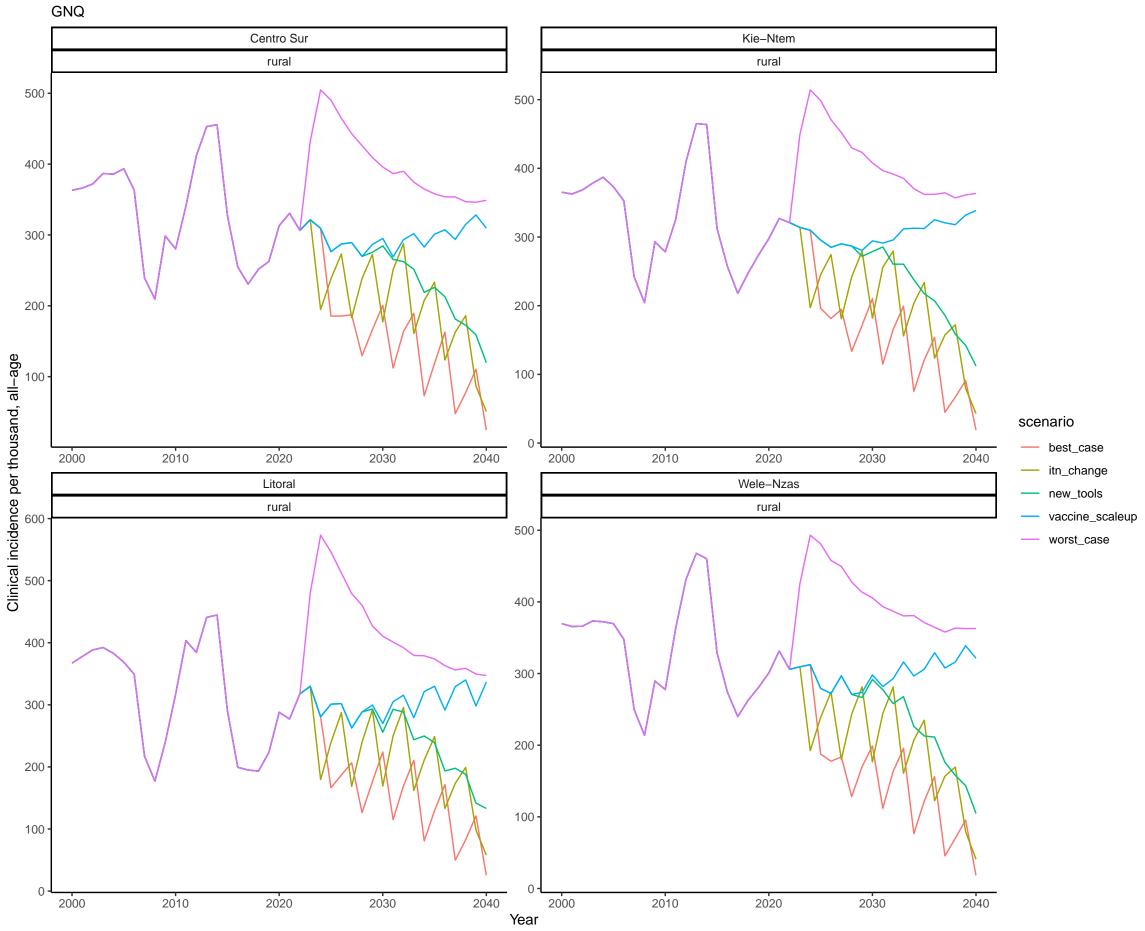


All-age clinical incidence over time by scenario GNB Bafata Biombo Bissau both both rural Bolama Cacheu Gabu Clinical incidence per thousand, all-age rural rural rural scenario best_case itn_change new_tools vaccine_scaleup worst_case Tombali Quinara Oio rural rural rural

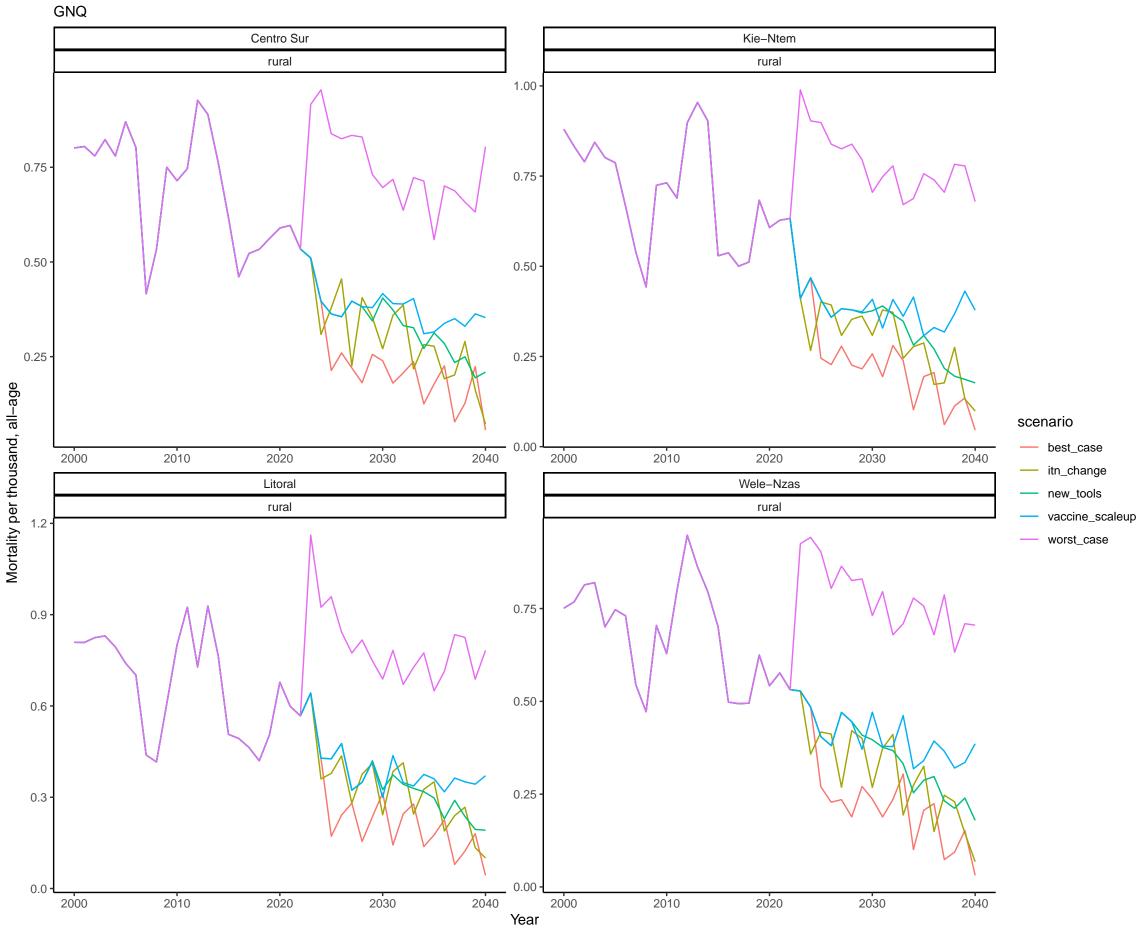
All-age mortality over time by scenario GNB



All-age clinical incidence over time by scenario GNQ



All-age mortality over time by scenario GNQ



All-age clinical incidence over time by scenario **KEN** Elgeyo-Marakwet Baringo **Bomet** Bungoma Busia Busia Embu both both both urban both both rural 800 250 200 150 500 300 400 300 300 600 400 300 200 200 200 300 400 200 100 · 100 100 100 200 200@01@02@03@040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Garissa Homa Bay Isiolo Kajiado Kakamega Kericho Kiambu both both both both both both both 500 400 300 400 300 400 300 300 300 200 200 200 200 200 200 200 100 100 100 100 100 100 100 200@01@02@03@040 200@01@02@03@040 20002010202020302040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Kilifi Kisii Kisumu Kitui Laikipia Kirinyaga Kwale both both both both both both both 500 400 300 200 500 400 300 500 400 300 200 400 300 300 150 200 300 200 all-age 100 200 100 200@01@02@03@040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Clinical incidence per thousand, Machakos Lamu Makueni Mandera Marsabit Meru Migori scenario both both both both both both both best_case 300 1500 300 300 400 300 300 itn_change 200 300 1000 200 200 200 200 200 100 500 100 100 100 new_tools vaccine_scaleup 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 worst_case Murang'a Nakuru Mombasa Nairobi Nandi Narok Nyamira both both both both both both both 300 250 200 150 500 400 300 400 300 300 200 300 200 200 200 200 100 200 100 100 100 100 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Siaya Taita Taveta Tana River Tharaka-Nithi Nyandarua Nyeri Samburu both both both both both both both 400 300 400 400 400 300 20 200 300 300 200 300 200 200 200 10 100 200 100 100 100 100 100 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 Trans Nzoia Turkana Uasin Gishu Wajir West Pokot Vihiga both both both both both both 500 400 300 300 300 300 300 200 200 200 300 200 200 100 100 100 100 100 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 Year

All-age mortality over time by scenario **KEN** Elgeyo-Marakwet Baringo **Bomet** Bungoma Busia Busia Embu both both both urban both both rural 1.00 1.00 1.6 0.8 0.75 0.9 0.75 0.75 1.2 0.75 0.6 0.6 0.50 0.50 8.0 0.50 0.4 0.50 0.25 0.25 0.25 0.25 0.00 0.00 0.0 0.00 20002010202020302040 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 Homa Bay Isiolo Kakamega Kericho Kiambu Garissa Kajiado both both both both both both both 1.00 0.8 0.75 0.75 0.75 0.75 0.9 0.75 0.6 0.50 0.50 0.50 0.50 0.50 0.6 0.4 0.25 0.25 0.25 0.3 0.25 0.00 0.00 0.00 0.0 0.0 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 Kilifi Kirinyaga Kisii Kisumu Kitui Kwale Laikipia both both both both both both both 1.00 1.00 1.00 0.75 0.9 0.75 0.75 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.50 0.50 0.50 0.25 0.3 0.25 0.25 0.25 0.25 0.00 0.00 0.00 20002010202020302040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 Lamu Machakos Makueni Mandera Marsabit Meru Migori scenario both both both both both both both best_case 1.00 1.00 1.2 0.6 0.75 0.75 0.6 0.75 itn_change 0.8 0.4 0.50 0.50 0.4 2 0.50 0.4 0.25 new_tools 0.2 0.25 0.25 0.00 0.0 0.0 0.00 vaccine_scaleup 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 200@01@02@03@040 worst_case Murang'a Nairobi Nandi Narok Mombasa Nakuru Nyamira both both both both both both both 1.2 0.8 0.75 0.75 0.6 0.75 0.9 0.9 0.6 0.50 0.6 0.6 0.50 0.4 0.50 0.4 0.25 0.25 0.2 0.3 0.3 0.25 0.00 0.0 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 20002010202020302040 Nyandarua Taita Taveta Tana River Tharaka-Nithi Nyeri Samburu Siaya both both both both both both both 1.2 1.00 1.2 0.8 0.9 0.15 0.75 0.9 0.75 0.9 0.6 0.10 0.50 0.6 0.50 0.6 0.6 0.4 0.05 0.25 0.25 0.3 0.3 0.0 0.0 200@01@02@03@040 20002010202020302040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 West Pokot Trans Nzoia Turkana Uasin Gishu Wajir Vihiga both both both both both both 0.8 1.2 0.8 0.6 0.6 0.6 0.6 0.6 8.0 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2

0.0

200@01@02@03@040

20002010202020302040

all-age

Mortality per thousand,

20002010202020302040

20002010202020302040

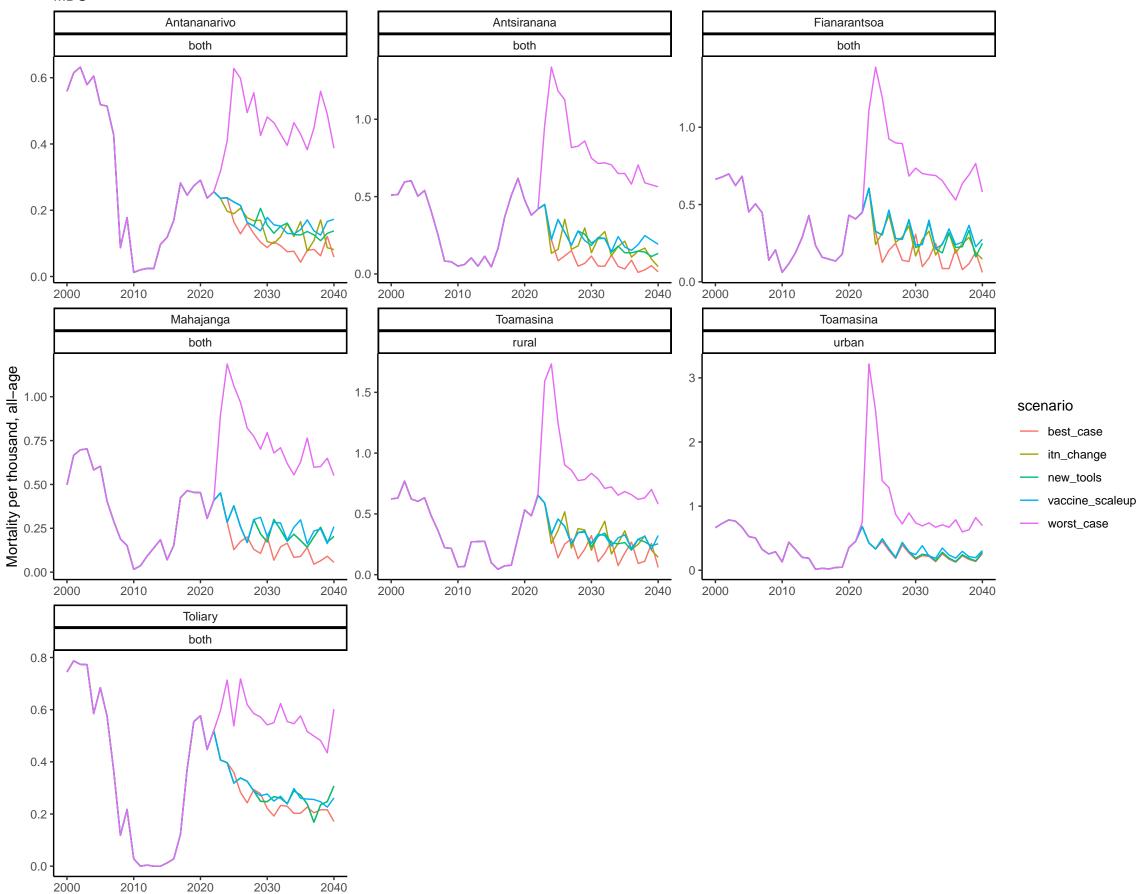
200@01@02@03@040

20002010202020302040

All-age clinical incidence over time by scenario **LBR** Bomi Gbapolu **Grand Bassa Grand Bassa** Bong urban both rural rural rural 500 400 400 -400 400 400 300 300 300 300 300 200 200 200 200 100 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 **Grand Cape Mount** Grand Gedeh Grand Kru Lofa Margibi rural rural rural rural rural 500 400 400 400 400 400 300 300 300 Clinical incidence per thousand, all-age 300 200 200 200 200 scenario 100 100 best_case 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 itn_change Margibi Maryland Montserrado Nimba River Gee new_tools urban rural both rural rural vaccine_scaleup 400 400 400 400 worst_case 300 300 300 300 200 200 200 200 100 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Rivercess Sinoe rural rural 400 400 300 300 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario LBR Bomi Bong **Grand Bassa Grand Bassa** Gbapolu both rural urban rural rural 8.0 0.8 0.75 0.75 0.6 0.6 0.50 0.50 0.4 0.25 2000 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 Grand Kru **Grand Cape Mount** Grand Gedeh Lofa Margibi rural rural rural rural rural 1.00 1.00 8.0 8.0 0.75 0.75 0.75 0.6 0.6 0.50 Mortality per thousand, all-age 0.50 0.4 scenario 0.2 best_case 2000 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2000 2030 2040 2030 2040 itn_change Margibi Maryland Montserrado Nimba River Gee new_tools urban rural both rural rural vaccine_scaleup 0.8 8.0 0.8 0.8 worst_case 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Rivercess Sinoe rural rural 0.8 0.6 0.6 0.4 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040

All–age mortality over time by scenario MDG



All-age clinical incidence over time by scenario MLI Bamako Gao Kayes Kidal both both both rural Mopti Mopti Koulikoro Koulikoro Clinical incidence per thousand, all-age urban urban rural rural scenario best_case itn_change new_tools vaccine_scaleup worst_case Segou Sikasso Timbuktu both both both

All-age mortality over time by scenario MLI Kayes Bamako Gao Kidal both both both rural 1.25 1.6 0.75 1.00 1.0 1.2 0.75 0.50 0.8 0.5 0.50 0.25 0.25 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Mopti Mopti Koulikoro Koulikoro urban urban rural rural 1.00 2.5 Mortality per thousand, all-age 1.00 0.75 0.50 0.25 2.0 2.0 scenario 0.75 best_case 1.5 1.5 itn_change 0.50 new_tools 1.0 1.0 vaccine_scaleup worst_case 0.25 0.5 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2040 2040 2030 2040 2020 2030 Sikasso Timbuktu Segou both both both 1.6 1.2 1.0 1.2 0.8 0.8 0.5 0.4 0.4 2030 2040 2000 2010 2040 2000 2010 2020 2030 2040 2000 2010 2020 2020 2030 Year

400 300 200 100 300 Clinical incidence per thousand, all-age 200 100 400 300 200 100 2500 2000 1500 1000 500 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario MOZ Cabo Delgado Cabo Delgado Gaza Manica Inhambane urban both both rural both 1.0 1.00 1.0 1.00 0.75 0.8 0.8 0.75 0.75 0.50 0.6 0.6 0.50 0.50 0.4 0.25 0.4 0.2 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 Maputo Maputo City Nampula Nampula Nassa both both rural urban rural 1.00 1.00 0.6 0.9 0.9 0.75 0.75 0.4 0.50 0.6 0.6 0.50 0.2 0.25 0.3 0.3 scenario 0.00 best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2040 2030 2040 itn_change Sofala Sofala Tete Tete Nassa new_tools urban rural urban rural urban vaccine_scaleup 1.00 8.0 worst_case 0.75 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.50 0.4 0.25 0.25 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Zambezia Zambezia rural urban 3 2

Year

Mortality per thousand, all-age

2000 2010 2020 2030 2040

All-age clinical incidence over time by scenario MWI Balaka Chikwawa Chiradzulu Chitipa Chitipa Blantyre both both both both rural urban 800 500 600 600 600 400 600 400 400 300 400 400 400 200 200 200 200 200 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Lilongwe Dedza Dowa Kasungu Likoma Karonga both both both both both both 600 600 600 500 600 500 400 400 400 400 400 400 300 300 200 200 200 200 200 200 100 100 Clinical incidence per thousand, all-age 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Machinga Mangochi Mchinji Mulanje Mwanza Mulanje both both both urban both rural scenario 1500 2000 600 500 best_case 900 1500 400 1000 itn_change 400 300 600 1000 new_tools 200 500 200 500 vaccine_scaleup worst_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Nkhotakota Mzimba Neno Nkhata Bay Ntcheu Nsanje both both both both rural both 2000 600 600 600 600 600 1500 400 400 400 400 400 1000 200 200 200 200 200 500 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Ntchisi Phalombe Rumphi Salima Thyolo Zomba both both both both both both 800 500 600 600 600 600 600 400 400 400 400 400 300 400 200 200 200 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario MWI Chiradzulu Chitipa Chitipa Balaka Blantyre Chikwawa both both both both rural urban 1.5 1.5 1.5 1.00 0.9 0.75 1.0 1.0 1.0 0.6 0.50 0.5 0.5 0.5 0.3 0.25 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kasungu Lilongwe Dedza Dowa Karonga Likoma both both both both both both 1.00 1.00 1.00 1.00 0.9 0.9 0.75 0.75 0.75 0.6 0.6 0.50 0.50 0.50 0.50 0.3 0.3 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Mortality per thousand, all-age Machinga Mangochi Mchinji Mulanje Mulanje Mwanza both both both rural urban both scenario 2.0 1.00 2.0 0.9 1.5 1.0 0.75 1.5 itn_change 0.6 1.0 1.0 new_tools 0.5 0.3 vaccine_scaleup worst_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Mzimba Neno Nkhata Bay Nkhotakota Nsanje Ntcheu both both both both both rural 1.2 1.5 1.25 1.00 1.00 0.9 1.0 0.75 1.0 0.75 0.6 0.50 0.50 0.5 0.5 0.3 0.25 0.25 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Ntchisi Phalombe Rumphi Salima Thyolo Zomba both both both both both both 1.00 1.00 1.5 0.75 0.75 1.0 1.0 0.50 0.50 0.5 0.5 0.25 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario NAM Erongo Khomas Kavango Kavango Kunene rural rural urban rural rural 0.75 0.50 0.25 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 Kunene Ohangwena Ohangwena Omaheke Omusati urban rural urban rural rural Mortality per thousand, all-age scenario best_case 2040 2000 2010 2020 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2010 2020 2030 2030 2040 2000 2010 2030 2040 2000 itn_change Oshikoto Oshana Oshana Oshikoto Otjozondjupa new_tools rural urban rural urban rural vaccine_scaleup worst_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2040 2000 2010 2020 2030 2030 Otjozondjupa Zambezi Zambezi urban rural urban

2000 2010 2020 2030 2040 2000 2010 2020 2030

2040 2000 2010

2020 2030 2040

All-age clinical incidence over time by scenario NER Agadez Diffa Dosso rural rural rural Niamey Maradi Tahoua Clinical incidence per thousand, all-age both both both scenario best_case itn_change new_tools vaccine_scaleup worst_case Zinder Tillabery both both Year

All-age mortality over time by scenario NER Diffa Agadez Dosso rural rural rural 1.25 0.75 1.00 1.0 0.75 0.50 0.50 0.5 0.25 0.25 0.00 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Tahoua Maradi Niamey both both both 1.6 1.25 Mortality per thousand, all-age 1.00 scenario 1.2 1.0 best_case 0.75 itn_change 0.8 new_tools 0.50 0.5 vaccine_scaleup worst_case 0.4 0.25 2020 2040 2000 2010 2020 2030 2040 2000 2010 2030 2040 2000 2010 2020 2030 Zinder Tillabery both both 1.25 0.9 1.00 0.75 0.6 0.50 0.3 0.25 2000 2010 2020 2040 2010 2020 2030 2040 2030 2000

All-age clinical incidence over time by scenario **NGA** Abia Abia Adamawa Akwa Ibom Akwa Ibom Anambra Bauchi Bayelsa urban both both both rural rural rural urban 400 300 Borno Cross River Delta Delta Bayelsa Benue Benue Ebonyi urban rural urban both both rural urban both 400 300 200 400 300 200 400 300 200 100 400 300 200 200@01@02@03@040 Edo Edo Ekiti Ekiti Enugu Enugu eral Capital Terri Gombe urban rural urban rural urban rural both both 400 300 400 300 200 Clinical incidence per thousand, all-age Imo Jigawa Kaduna Kaduna Kano Katsina Kebbi Kogi scenario both both rural urban both both both both best_case 400 itn change new_tools vaccine_scaleup 200@01@02@03@040 worst_case Kwara Kwara Lagos Nassarawa Niger Niger Ogun Ogun urban both both rural urban rural urban rural 400 300 200 400 300 200 300 Ondo Ondo Plateau Plateau Osun Osun Oyo Oyo urban urban urban rural rural urban rural rural 400 300 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Rivers Sokoto Taraba Yobe Zamfara both both both both both 400 300 Year

All-age mortality over time by scenario **NGA** Abia Abia Adamawa Akwa Ibom Akwa Ibom Anambra Bauchi Bayelsa urban both urban both both rural rural rural 1.00 1.00 1.00 1.00 0.75 1.00 0.75 0.9 0.75 0.75 0.75 0.75 0.75 0.50 0.6 0.50 0.50 0.50 0.50 0.50 0.50 0.3 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.0 2002012022032040 20020120022032040 2002012022032040 20020120022032040 20020120022032040 2002012022032040 2002012022032040 20020120022032040 Benue Borno Cross River Delta Delta Ebonyi Bayelsa Benue urban rural urban both both rural urban both 1.25 1.00 1.00 1.00 0.75 0.75 0.9 0.75 0.9 0.75 0.75 0.75 0.50 0.50 0.50 0.6 0.6 0.50 0.50 0.50 0.25 0.25 0.25 0.3 0.3 0.25 0.25 0.00 0.00 0.00 2002012022032040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 200**2**01**2**02**2**03**2**040 200201200220320040 2002012022032040 Edo Edo Ekiti Ekiti eral Capital Terr Gombe Enugu Enugu both rural urban rural urban rural urban both 1.00 1.00 1.2 1.00 1.00 1.00 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.9 0.50 0.50 0.50 0.50 0.50 0.6 0.50 0.50 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.3 0.00 0.00 0.00 0.00 20020120022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 2002012022032040 Imo Jigawa Kaduna Kaduna Kano Katsina Kebbi Kogi scenario both both rural urban both both both both best_case 1.25 0.75 1.00 0.9 1.00 1.2 1.2 itn_change 1.0 1.0 0.75 0.50 0.75 8.0 0.6 8.0 0.50 0.5 0.25 0.5 new_tools 0.3 0.4 0.4 0.25 0.0 vaccine_scaleup 2002012022032040 20020120022032040 20020120022032040 20020120022032040 2002012022032040 200201200220320040 2002012022032040 20020120022032040 worst_case Kwara Ogun Kwara Lagos Nassarawa Niger Niger Ogun rural urban both both urban rural urban rural 1.00 1.2 1.00 1.00 0.75 1.00 0.9 0.75 0.9 0.75 0.75 0.75 0.75 0.50 0.6 0.50 0.50 0.6 0.50 0.50 0.50 0.25 0.3 0.25 0.25 0.25 0.25 0.3 0.25 0.00 0.00 0.0 2002012022032040 20020120022032040 20020120022032040 20020120022032040 200201200220320040 2002012022032040 2002012022032040 20020120022032040 Osun Plateau Plateau Ondo Ondo Osun Oyo Oyo urban urban urban urban rural rural rural rural 1.00 1.00 1.00 1.00 1.00 1.00 0.9 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.3 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.00 0.0 20020120022032040 20020120022032040 20020120022032040 20020120022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 Rivers Sokoto Taraba Yobe Zamfara both both both both both 1.6 1.00 1.5 0.9 0.75 1.2 1.0 1.0 0.6 0.8 0.50 0.5 0.3 0.5 0.25 0.4 0.00

Year

all–age

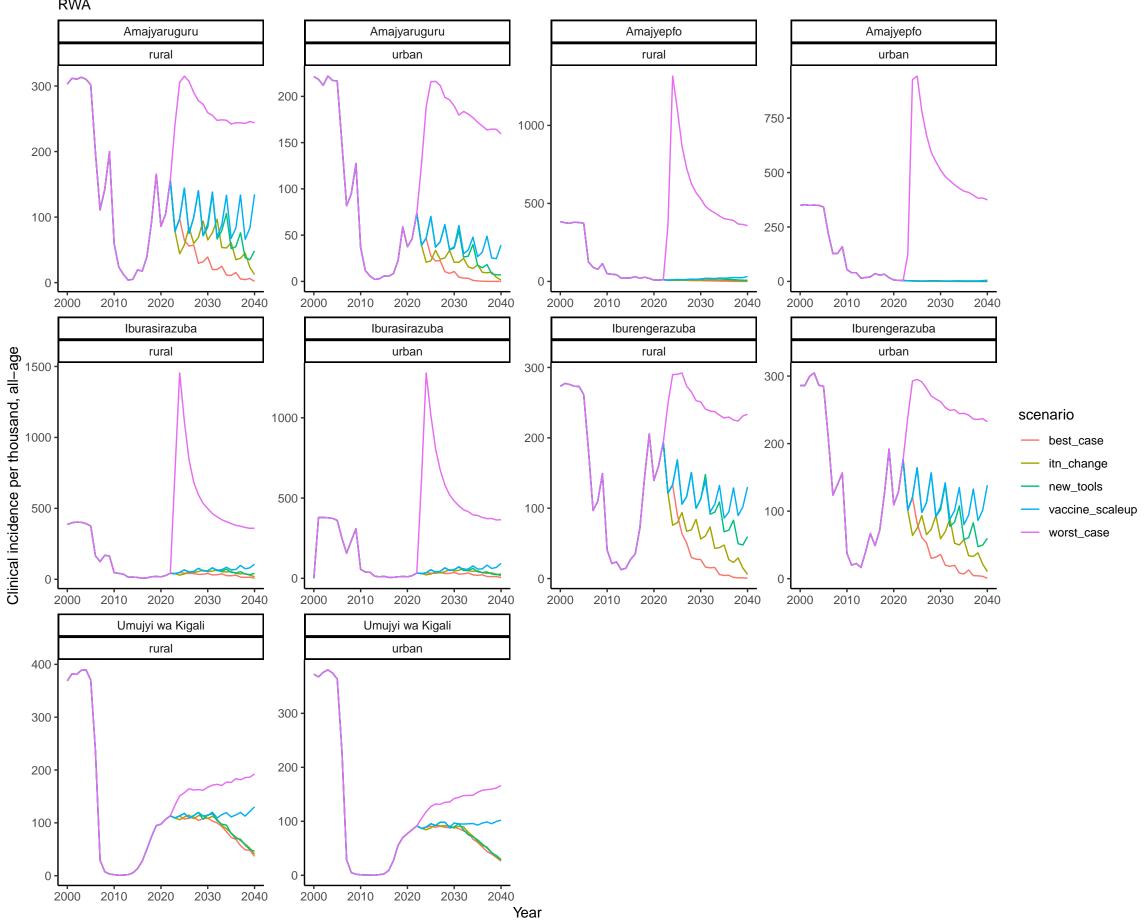
Mortality per thousand,

20020120022032040

2002012022032040

2002012022032040

All-age clinical incidence over time by scenario RWA



All-age mortality over time by scenario **RWA** Amajyaruguru Amajyaruguru Amajyepfo Amajyepfo rural urban rural urban 8.0 3. 0.6 0.6 0.4 0.4 0.2 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Iburasirazuba Iburasirazuba Iburengerazuba Iburengerazuba urban urban rural rural 0.6 0.6 scenario 2 best_case 0.4 0.4 itn_change new_tools vaccine_scaleup worst_case 2010 2020 2030 2010 2020 2030 2010 2020 2040 2010 2020 2040 2000 2040 2000 2040 2000 2030 2000 2030 Umujyi wa Kigali Umujyi wa Kigali rural urban 0.8 0.75 0.6 0.50 0.4 0.25 0.2

Mortality per thousand, all-age

2010

2000

2020

2030

0.00

2000

2010

2020

2030

2040

Year

All-age clinical incidence over time by scenario SDN Al Jazirah Al Qadarif Blue Nile Central Darfur Al Jazirah both rural urban both rural 200 300 150 200 200 150 150 200 100 100 100 100 100 50 50 50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 East Darfur Kassala Khartoum North Darfur North Kurdufan rural both both both both 300 200 150 150 150 150 Clinical incidence per thousand, all-age 100 100 100 100 50 50 50 50 scenario best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 itn_change Red Sea River Nile Northern Red Sea Sennar new_tools rural rural urban rural rural vaccine_scaleup 150 worst_case 300 300 1000 100 200 200 500 50 50 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 South Darfur South Kurdufan West Darfur West Kurdufan White Nile both rural both rural both 250 300 200 200 150 200 200 150 100 100 100 100 100 50 50

2020

Year

2000 2010 2020 2030

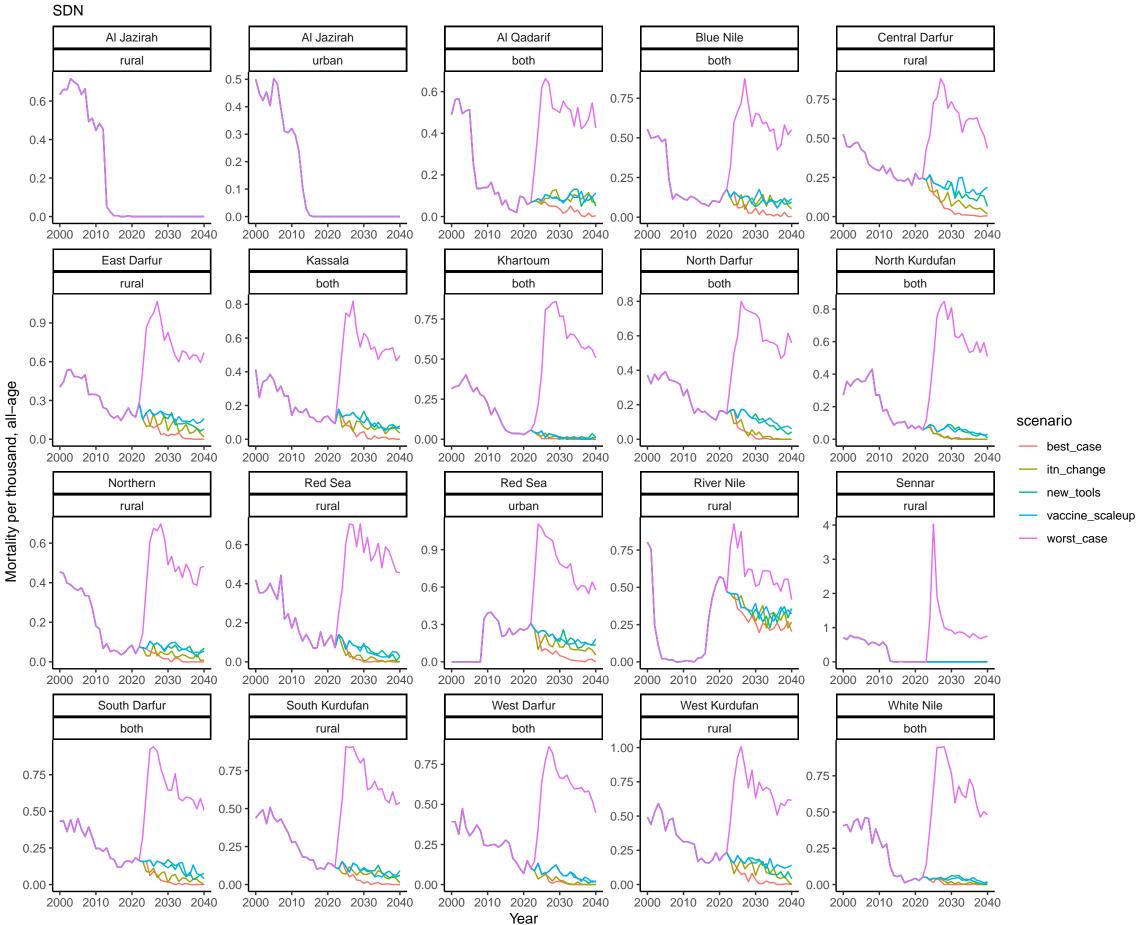
2040

2000 2010 2020 2030 2040

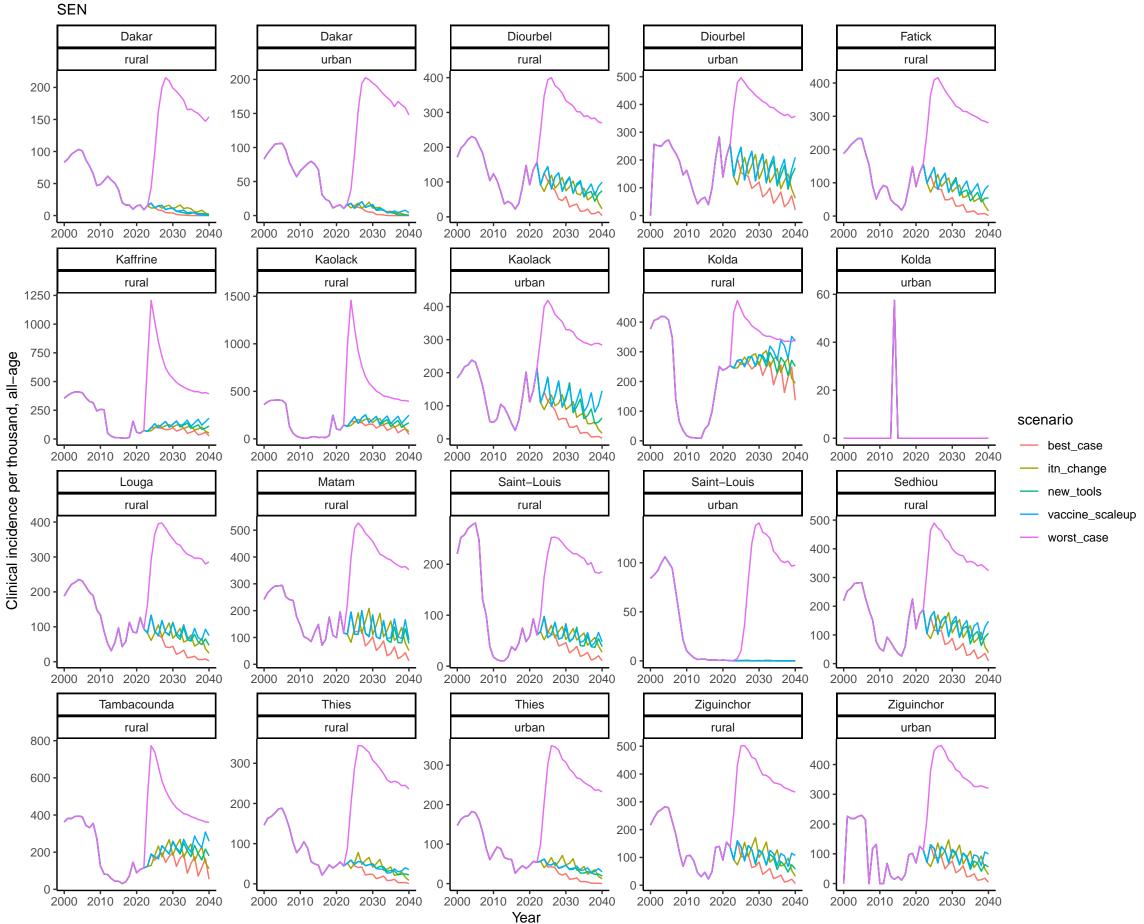
2000 2010

2000 2010 2020 2030 2040

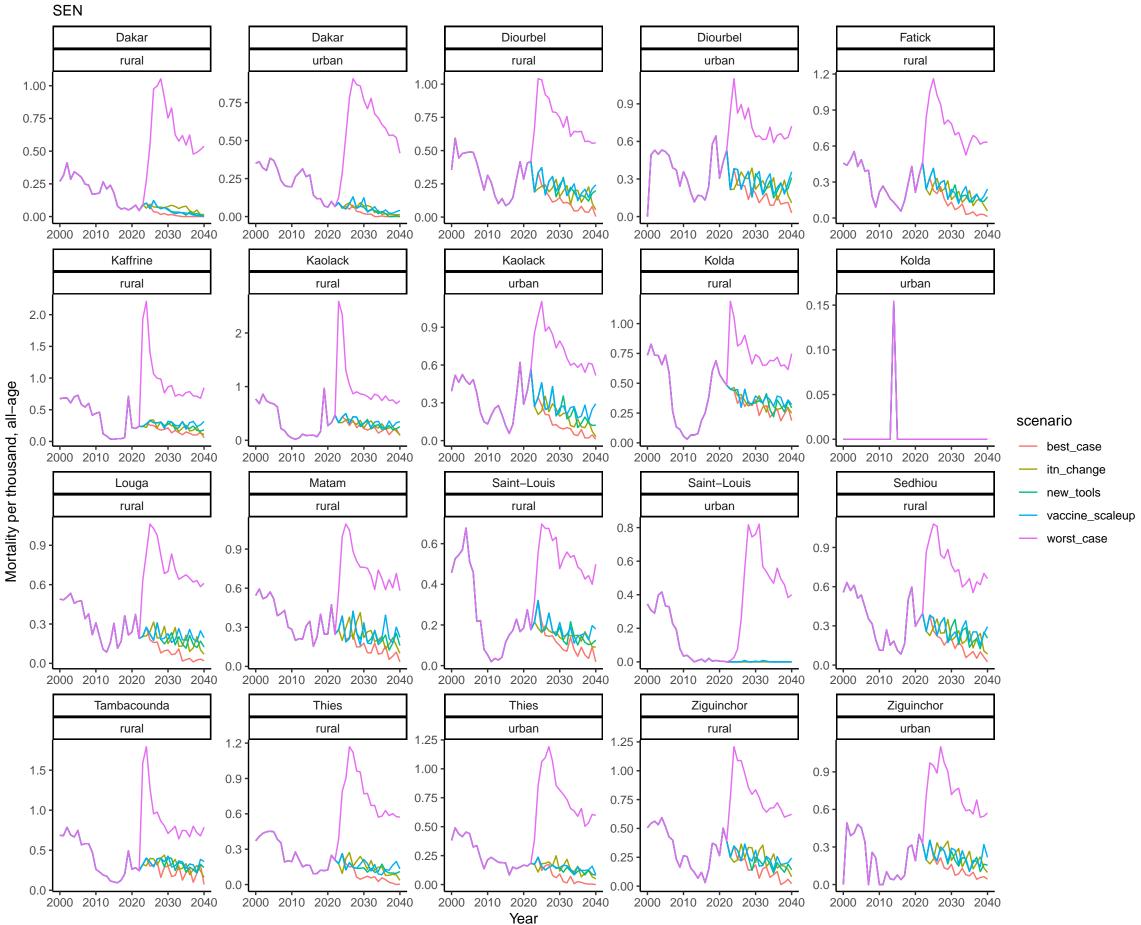
All-age mortality over time by scenario SDN



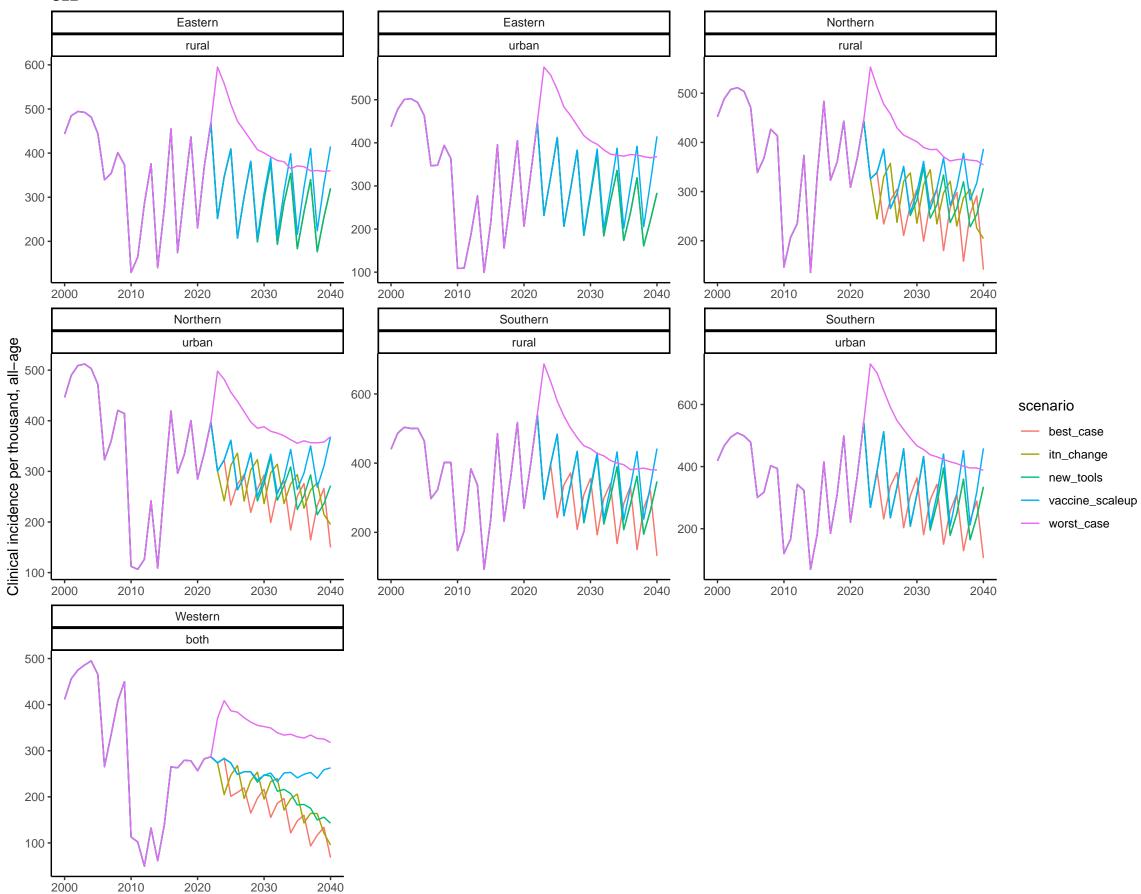
All-age clinical incidence over time by scenario SEN



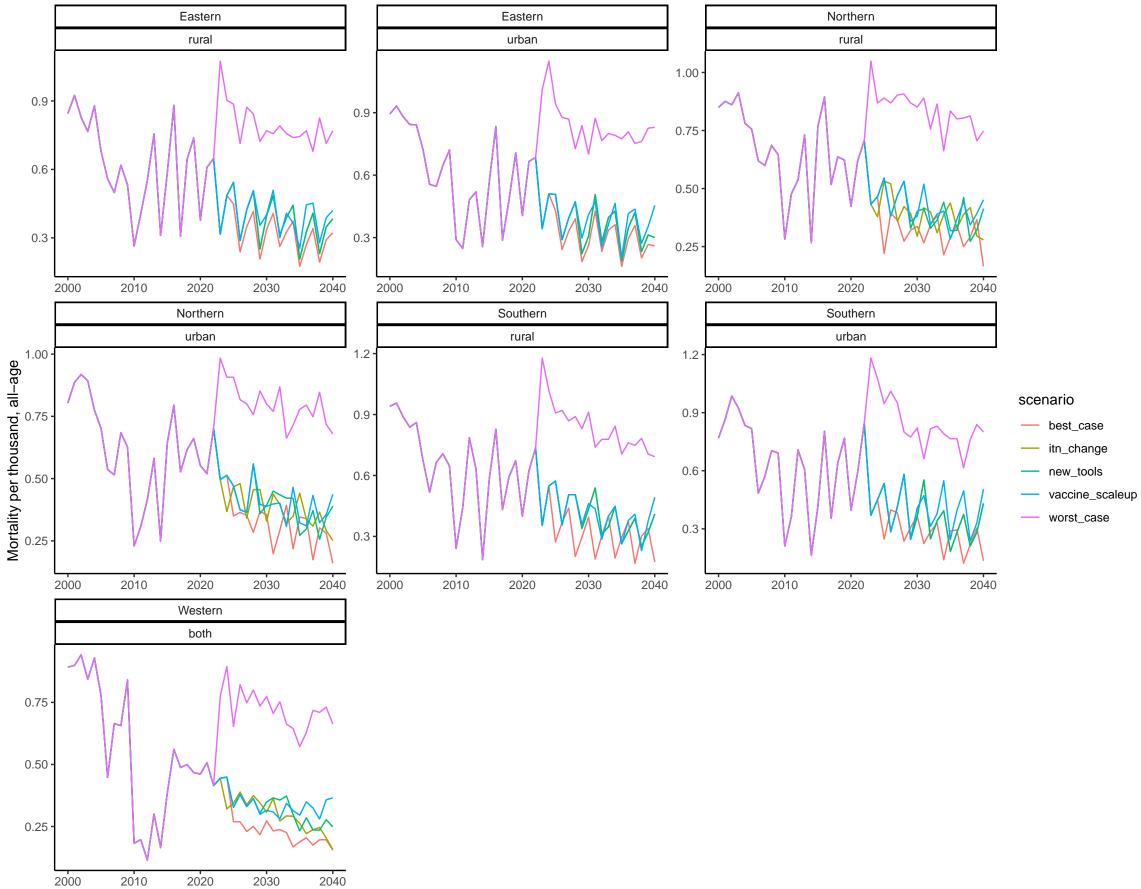
All-age mortality over time by scenario SEN



All-age clinical incidence over time by scenario SLE



All–age mortality over time by scenario SLE



All-age clinical incidence over time by scenario SOM Bakool Bari Bay Awdal Banaadir both rural rural rural rural 300 200 150 150 200 200 200 100 100 100 100 100 50 50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Galguduud Gedo Hiiraan Jubbada Dhexe Jubbada Hoose rural both rural rural rural 200 300 200 200 150 200 150 Clinical incidence per thousand, all-age 200 100 100 100 100 50 scenario best_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 itn_change Shabeellaha Dhexe Shabeellaha Hoose Mudug Nugaal Sanaag new_tools rural rural rural both both vaccine_scaleup 250 200 150 worst_case 200 200 150 150 150 100 100 100 100 50 50 50 50 50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Woqooyi Galbeed Sool Togdheer rural rural rural 250 200 200 200 150 150 150 100 100 100 50 50 50 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020

All-age mortality over time by scenario SOM Bay Awdal Bakool Banaadir Bari both rural rural rural rural 0.8 0.8 0.6 0.8 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 0.2 2000 2010 2020 2000 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Galguduud Gedo Hiiraan Jubbada Dhexe Jubbada Hoose rural both rural rural rural 8.0 8.0 0.75 0.75 0.75 0.6 0.50 0.50 0.50 Mortality per thousand, all-age 0.25 0.25 0.25 scenario best_case 2000 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 itn_change Shabeellaha Dhexe Shabeellaha Hoose Mudug Nugaal Sanaag new_tools both rural rural rural both vaccine_scaleup 0.8 0.6 worst_case 0.6 0.6 0.6 0.4 0.4 0.2 0.2 0.2 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Woqooyi Galbeed Sool Togdheer rural rural rural 0.6 0.6 0.4 0.4 0.4

Year

2030 2040

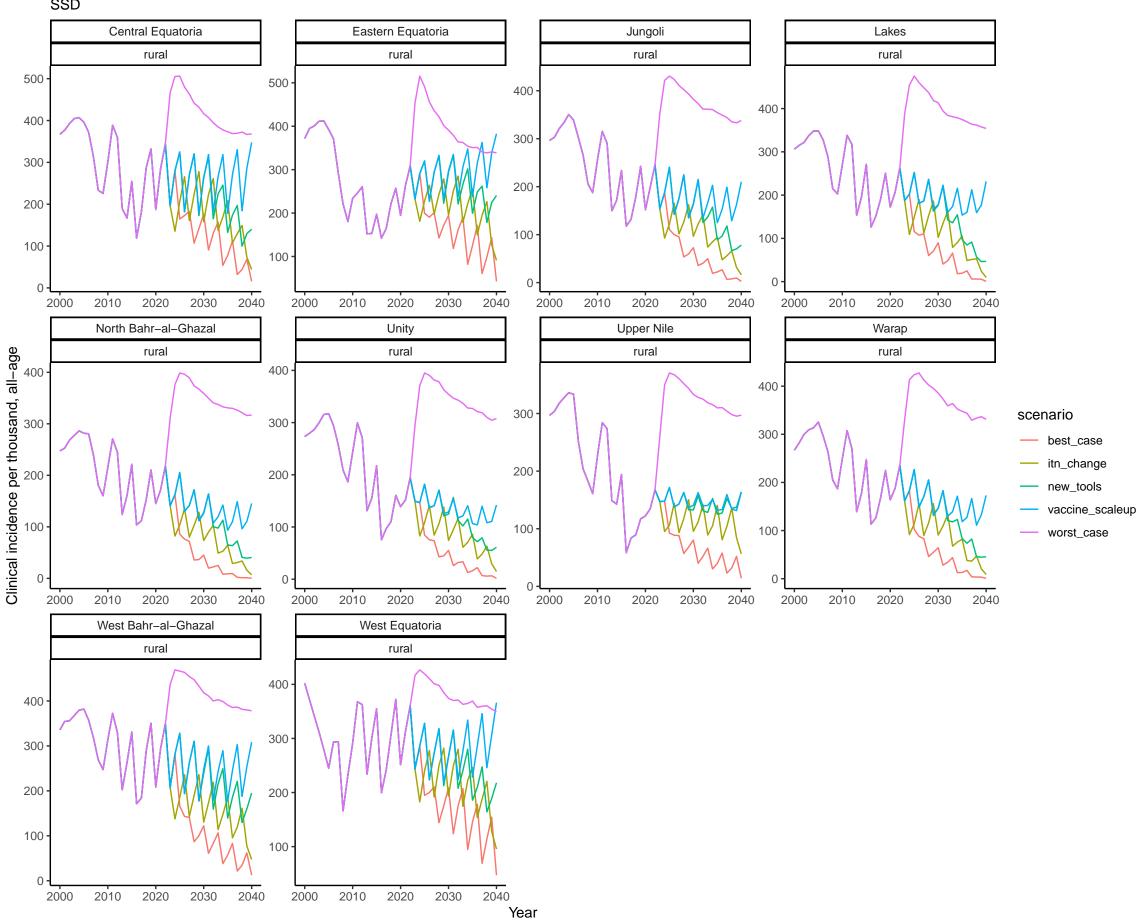
2000 2010

0.2

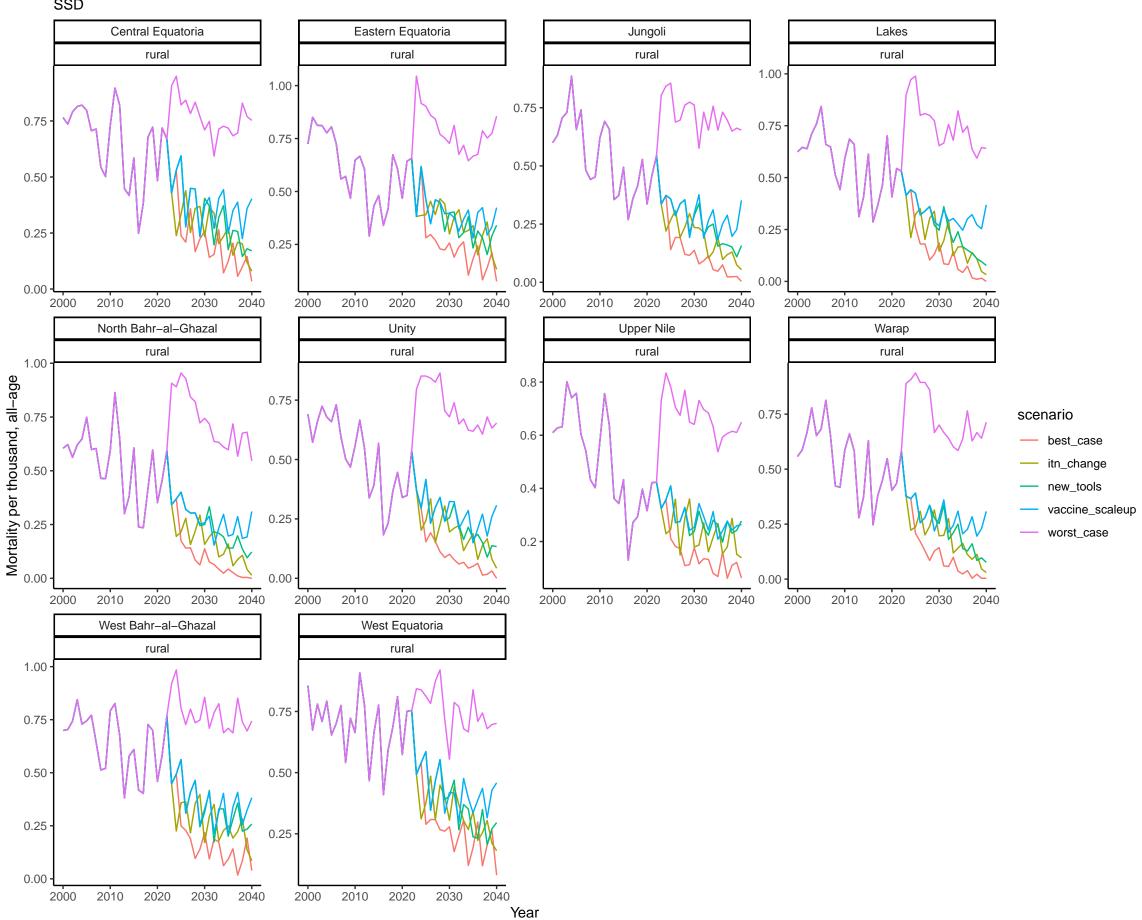
2000 2010 2020 2030 2040

0.2

All-age clinical incidence over time by scenario SSD



All-age mortality over time by scenario SSD



All-age clinical incidence over time by scenario **TCD** Barh el Ghazel Chari-Baguirmi Ennedi Est Batha Borkou rural rural rural both rural 500 200 400 200 300 400 150 300 150 300 200 100 200 100 200 50 100 100 2000 2010 2020 2010 2020 2010 2020 2030 2040 2000 2010 2000 2010 2020 2030 2040 2000 2030 2040 2000 2020 2030 2040 2030 2040 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural 400 400 300 150 300 300 300 200 100 200 200 50 100 Clinical incidence per thousand, all-age 2010 2020 2030 2010 2020 2010 2040 2000 2000 2010 2020 2030 2040 2000 2040 2000 2030 2040 2000 2020 2030 2010 2020 2030 Logone Occidental Logone Oriental Mandoul Mayo-Kebbi Est Mayo-Kebbi Ouest rural rural rural rural rural scenario 400 400 400 best_case 300 300 300 300 itn_change 200 200 200 new_tools 100 100 vaccine_scaleup worst_case 2010 2020 2030 2040 2000 2010 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2020 2030 2040 2000 2010 2020 2030 2040 2000 Moyen-Chari Ouaddai Salamat Sila Tandjile rural rural rural rural rural 400 400 300 300 300 300 300 200 200 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Ville de N'Djamena Wadi Fira Tibesti rural both rural 250 400 75 200 300 50 200 25 100 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario TCD Barh el Ghazel Batha Chari-Baguirmi Ennedi Est Borkou rural rural rural both rural 1.00 0.8 1.00 0.75 0.75 0.6 0.75 0.50 0.50 0.25 0.25 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2000 2030 2040 2030 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural 1.00 1.00 0.8 1.00 0.6 0.75 0.6 0.75 0.4 0.50 0.50 0.50 0.4 0.2 0.25 0.25 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2010 2020 2030 2000 2010 2020 2030 2040 2030 2040 2000 2040 2000 2010 2020 2030 2040 Logone Occidental Logone Oriental Mandoul Mayo-Kebbi Est Mayo-Kebbi Ouest rural rural rural rural rural scenario 0.8 1.00 0.75 best_case 0.75 0.75 itn_change 0.50 0.50 0.50 0.50 new_tools 0.25 vaccine_scaleup worst_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Sila Moyen-Chari Ouaddai Salamat Tandjile rural rural rural rural rural 1.00 8.0 0.75 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.50 0.4 0.25 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Ville de N'Djamena Wadi Fira Tibesti rural both rural 0.6 0.8 1.00 0.6 0.75 0.4 0.50 0.2 0.25

2020

Year

2030 2040

Mortality per thousand, all-age

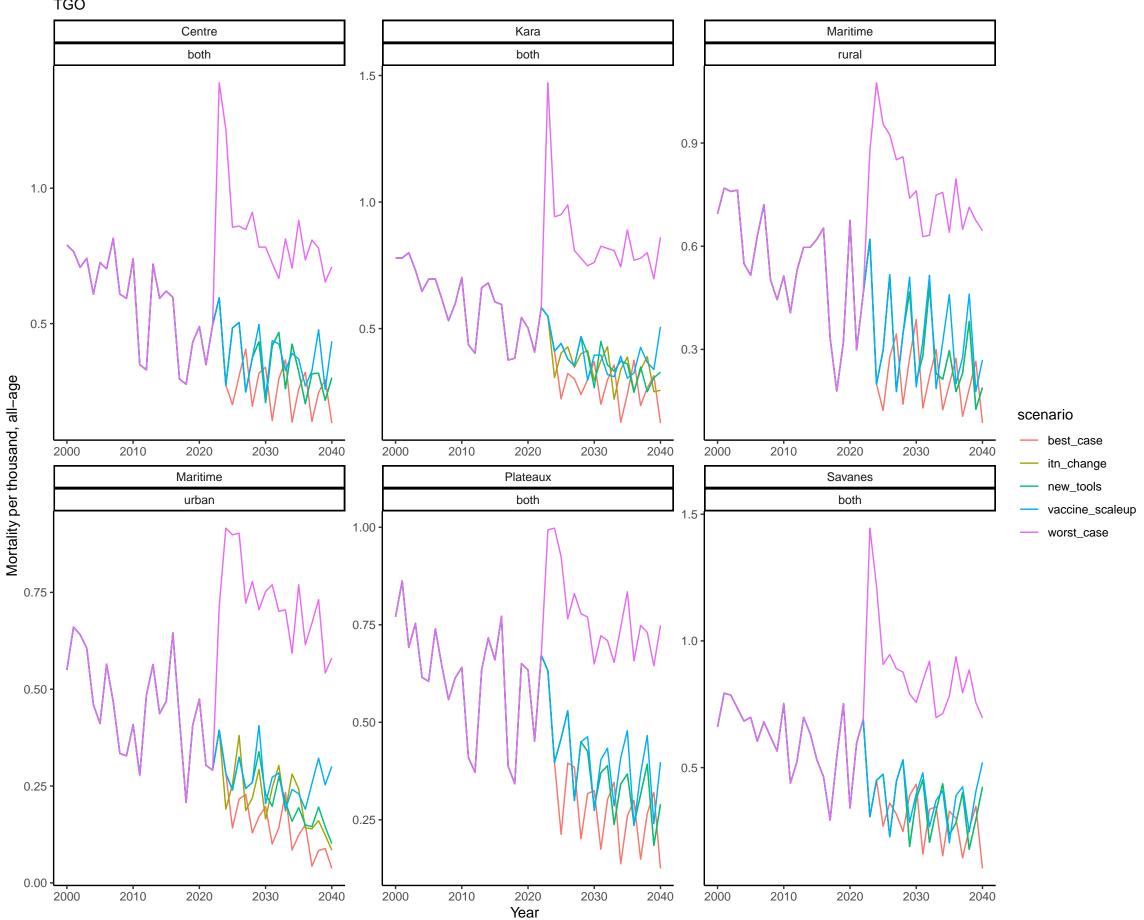
0.0

2000 2010 2020 2030 2040

2000 2010 2020

Year

All-age mortality over time by scenario TGO



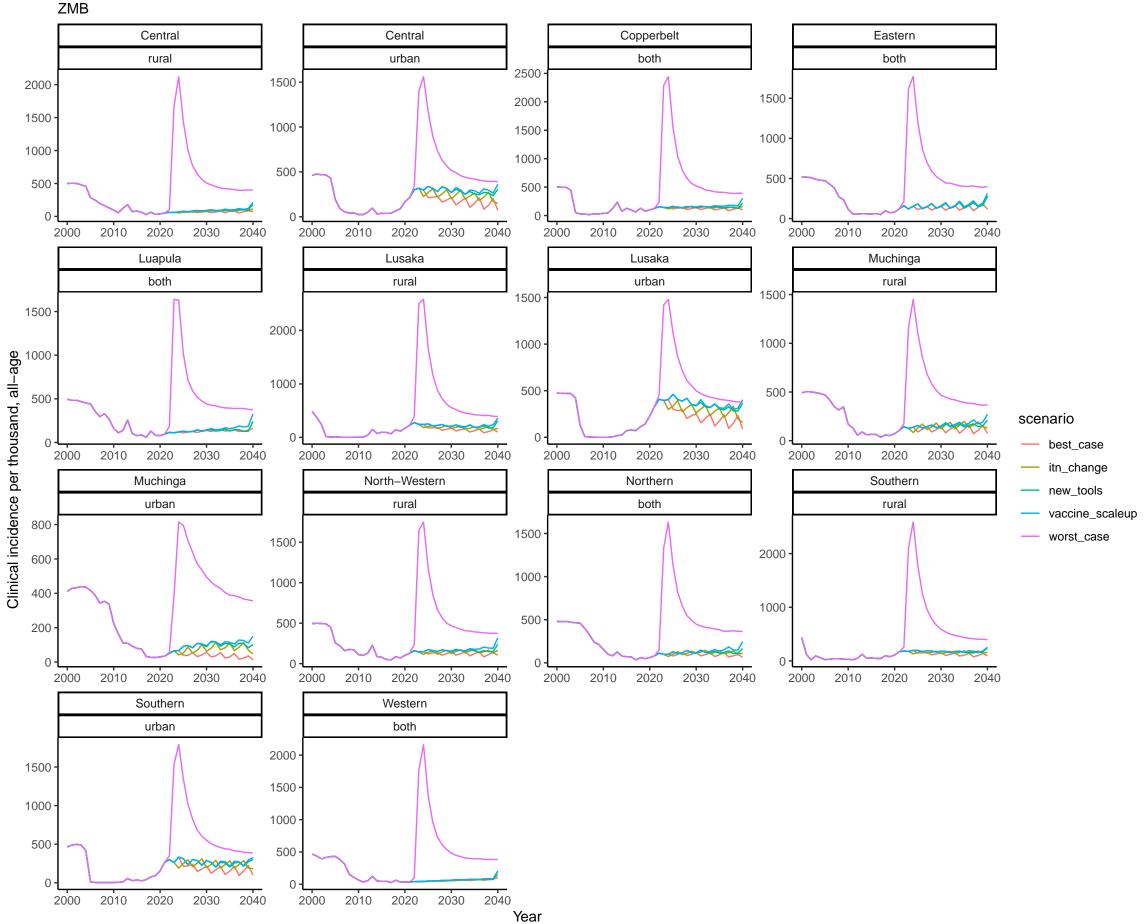
Clinical incidence per thousand, all-age

500

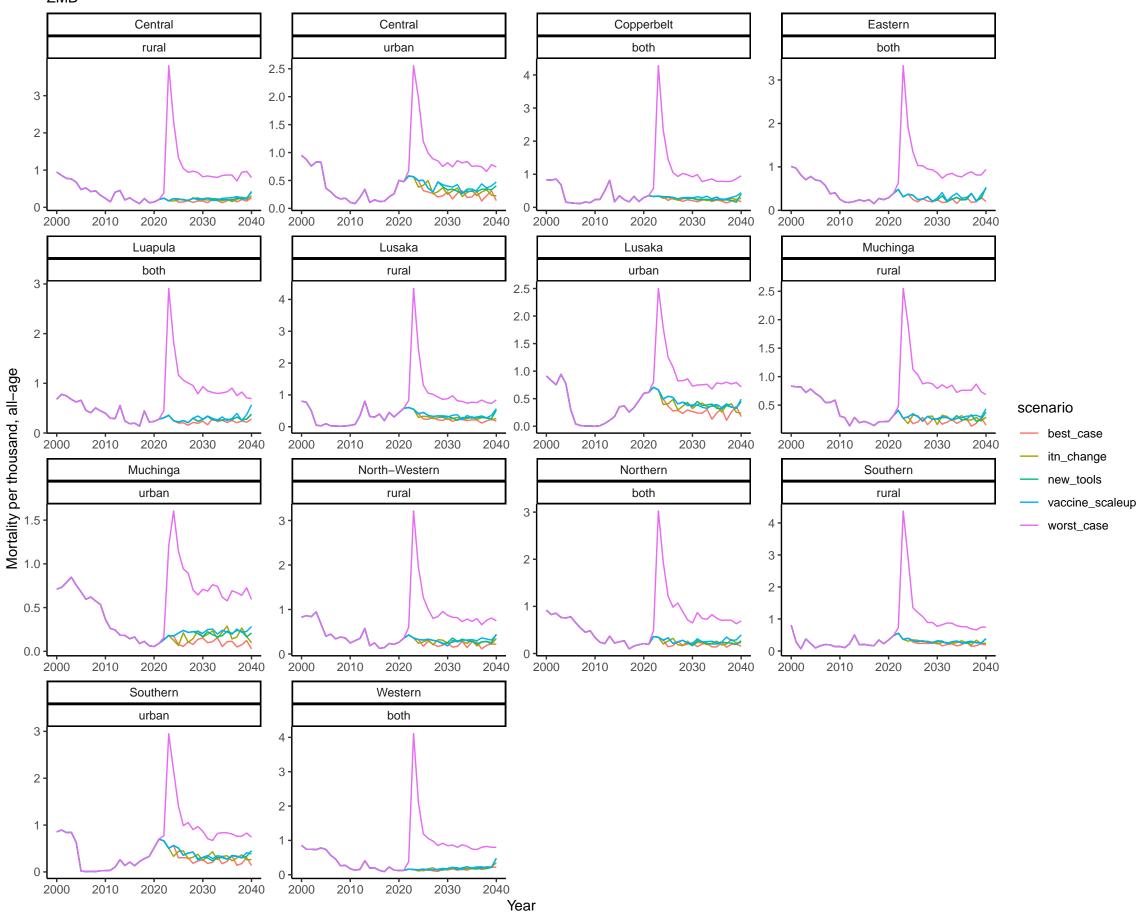
2000 2010 2020 2030 2040

100

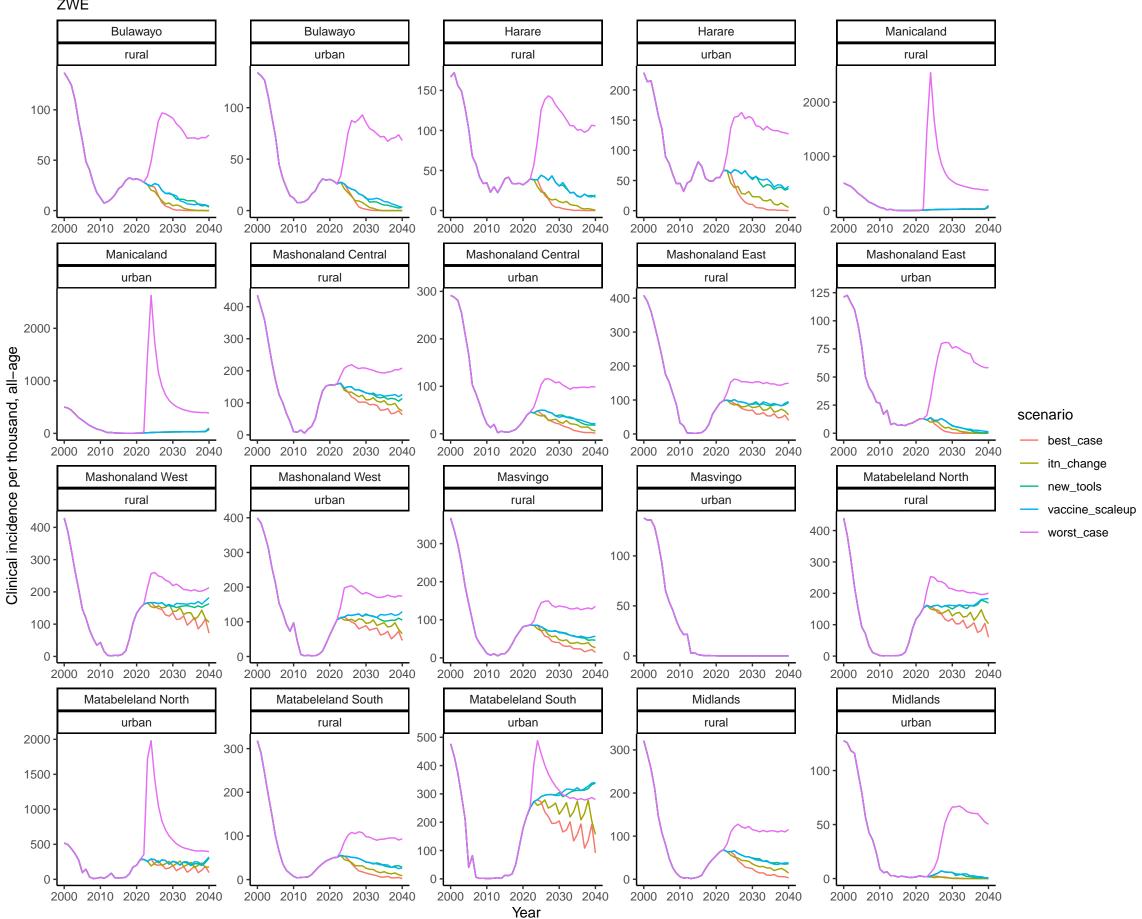
All–age clinical incidence over time by scenario ZMB



All-age mortality over time by scenario ZMB



All-age clinical incidence over time by scenario ZWE



All-age mortality over time by scenario ZWE

