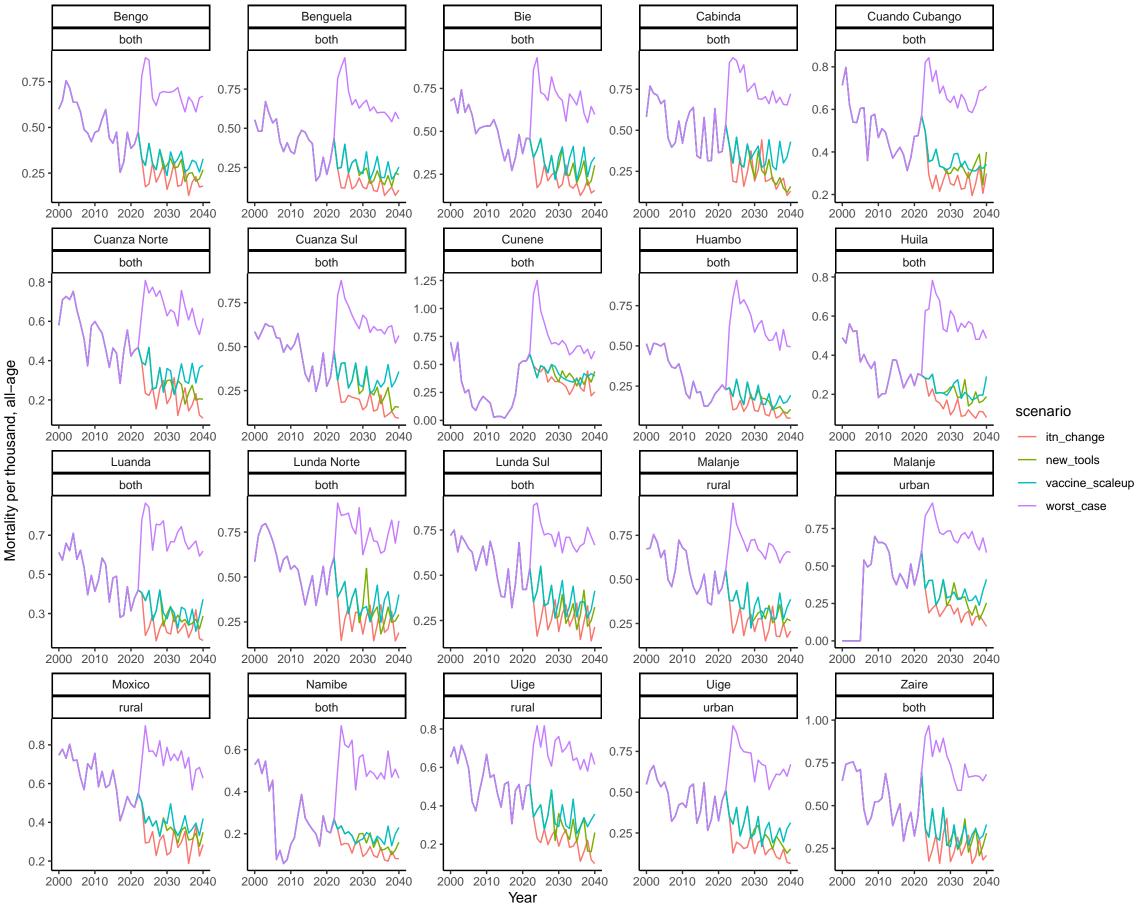
All-age clinical incidence over time by scenario AGO Bie Cabinda Cuando Cubango Bengo Benguela both both both both both 2000 2010 2020 2010 2020 2030 2000 2010 2020 2000 2010 Cuanza Norte Cuanza Sul Cunene Huambo Huila both both both both both Clinical incidence per thousand, all-age scenario 2010 2020 2030 2010 2020 2030 2040 2030 2040 itn\_change Lunda Sul new\_tools Lunda Norte Malanje Luanda Malanje vaccine\_scaleup both both both rural urban worst\_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2020 2030 2040 Namibe Uige Uige Zaire Moxico rural both urban both rural 2000 2010 2020 2030 2040 2000 2010 2000 2010 2020 2030 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario AGO Cuando Cubango Bengo Benguela Bie Cabinda both both both both both 8.0 0.75 0.75 0.75 0.6 0.50 0.50 0.50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cuanza Sul Cuanza Norte Cunene Huambo Huila both both both both both 8.0 1.25 0.75 0.75 1.00 0.6 0.75 0.50 0.50 0.4 0.50 0.25 0.2 scenario 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2010 2020 2000 2030 2000 2030 2040 2040 itn\_change Lunda Sul new\_tools Lunda Norte Luanda Malanje Malanje both both both rural urban worst\_case 0.75 0.75 0.75 0.50 0.50 0.50 0.50 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 Namibe Moxico Uige Zaire Uige rural both rural urban both 1.00 0.8



All-age clinical incidence over time by scenario BDI Bubanza Bujumbura Mairie Bujumbura Rural Cankuzo Bururi both both both both both 500 800 400 400 400 400 600 300 300 300 300 400 200 200 200 200 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 500 500 600 400 600 400 400 Clinical incidence per thousand, all-age 300 400 400 200 200 100 scenario 2010 2030 2040 2010 2020 2030 2040 2010 2010 2020 2030 2000 2010 2000 2020 2000 2000 2020 2030 2040 2000 2040 2020 2030 2040 itn\_change new\_tools Muramvya Makamba Muyinga Mwaro Ngozi vaccine\_scaleup both both both both both worst\_case 400 750 750 300 300 500 200 500 200 200 100 250 250 100 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 Ruyigi Rutana both both 800 500 600 400 300 400 200 200 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 1.6 1.00 0.75 0.75 0.75 0.75 0.50 0.50 0.50 8.0 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 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 1.00 1.5 0.75 0.75 1.2 0.75 1.0 0.8 0.50 0.50 0.50 0.4 0.25 0.25 0.25 scenario 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2000 2010 2020 2000 2000 2000 2030 2040 2030 2040 itn\_change new\_tools Makamba Muramvya Muyinga Mwaro Ngozi vaccine\_scaleup both both both both both 1.6 worst\_case 1.5 0.75 0.9 0.75 1.2 1.0 0.50 0.50 0.6 0.8 0.25 0.5 0.3 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 1.6 0.75 1.2 0.50 0.8 0.4

Year

Mortality per thousand, all-age

2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

All-age clinical incidence over time by scenario BEN Alibori Atakora Atlantique Atlantique rural urban rural rural Borgou Borgou Collines Donga rural urban rural rural scenario itn\_change new\_tools Kouffo Littoral Mono Oueme vaccine\_scaleup both both urban rural worst\_case Plateau Zou Oueme Zou urban both rural urban 

Year

Clinical incidence per thousand, all-age

All-age mortality over time by scenario BEN Atlantique Alibori Atakora Atlantique rural rural urban rural 1.2 2.0 0.9 1.5 0.9 1.5 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 1.0 1.0 2.0 0.75 0.8 8.0 1.5 0.50 0.6 Mortality per thousand, all-age 1.0 0.25 0.4 0.5 scenario 0.00 2010 2010 2000 2010 2020 2030 2040 2000 2020 2030 2000 2020 2030 2040 2000 2010 2020 2040 2040 2030 itn\_change new\_tools Kouffo Mono Littoral Oueme vaccine\_scaleup both urban both rural 1.25 8.0 worst\_case 1.00 1.00 0.75 0.6 0.75 0.6 0.50 0.4 0.50 0.4 0.25 0.2 0.25 0.2 -2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Plateau Zou Oueme Zou urban both rural urban 1.00 0.8 1.0 8.0 8.0 0.6 0.6 0.6 0.50 0.4 0.4 0.4 0.2 0.25

2000

2020

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2030

2010

2000

2030

2020

2040

Year

2010

2020

2030

2000

2040

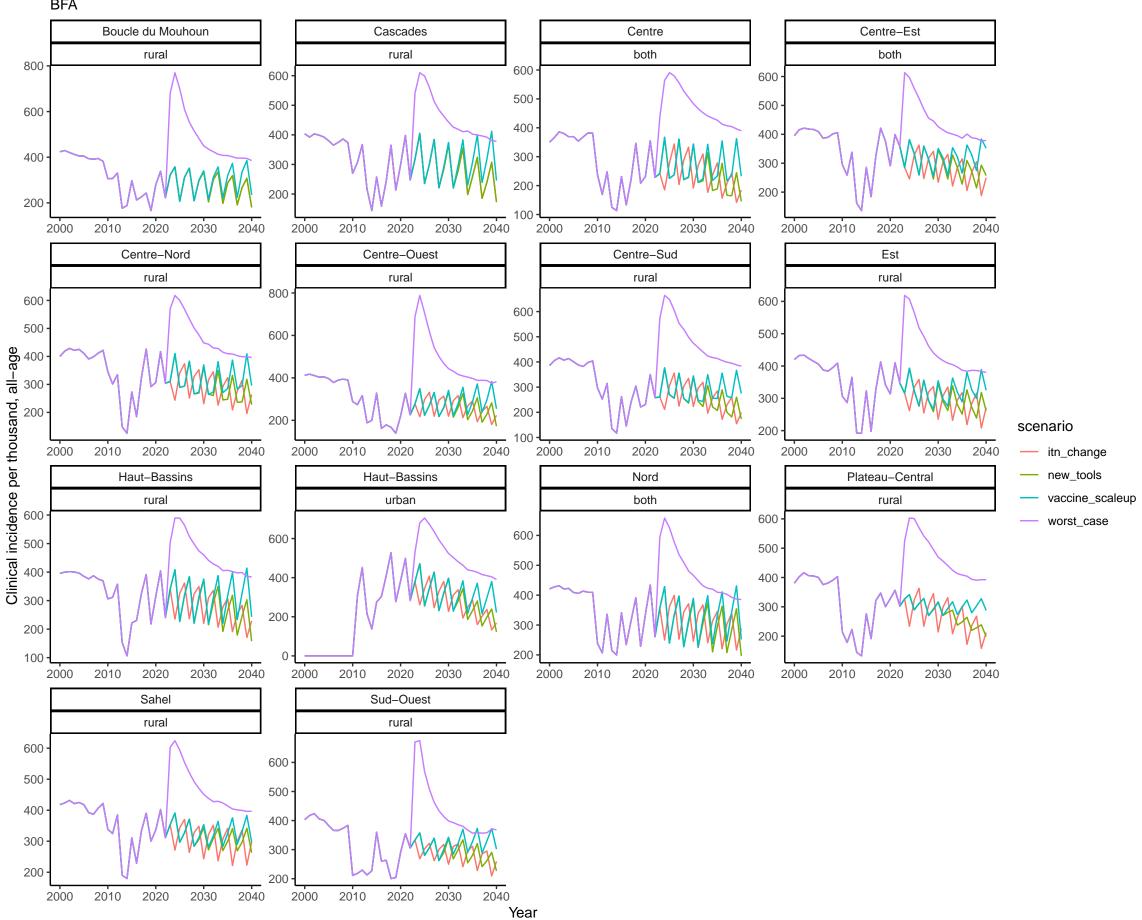
2010

2000

2020

2040

All–age clinical incidence over time by scenario BFA



All-age mortality over time by scenario BFA Boucle du Mouhoun Cascades Centre Centre-Est rural rural both both 1.25 1.6 1.00 1.2 1.2 1.0 0.75 8.0 0.8 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-Sud Centre-Ouest Est rural rural rural rural 1.5 1.0 1.0 1.0 Mortality per thousand, all-age 0.5 0.5 scenario 2010 2010 2000 2010 2020 2030 2040 2000 2020 2030 2010 2030 2040 2000 2020 2000 2020 2030 2040 itn\_change Haut-Bassins Haut-Bassins Plateau-Central new\_tools Nord vaccine\_scaleup both rural urban rural 1.5 worst\_case 1.2 1.0 8.0 1.0 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 2010 2010 2020 2030 2040 2020 2000 2000 2030 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 — itn\_change North-East North-West Selibe Phikwe Selibe Phikwe new\_tools vaccine\_scaleup urban rural rural rural worst\_case 50 · Sowa rural 

All-age mortality over time by scenario BWA Central Chobe Francistown Francistown rural rural rural urban 6 0.6 0.75 0.2 0.4 0.50 0.1 0.2 0.25 0.00 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 1.5 0.4 0.75 0.3 1.0 0.50 0.2 0.2 0.5 0.25 scenario 0.00 0.0 0.0 2010 2020 2030 2010 2020 2030 2010 2020 2040 2010 2020 2030 2040 2000 2040 2000 2030 2000 2000 2040 — itn\_change North-East North-West Selibe Phikwe Selibe Phikwe new\_tools vaccine\_scaleup rural urban rural rural worst\_case 0.6 0.4 0.4 0.4 0.2 0.2 0.2 0.0 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Sowa rural 0.8 0.6 0.4

Mortality per thousand, all-age

0.2

0.0

2000

2010

2020

2030

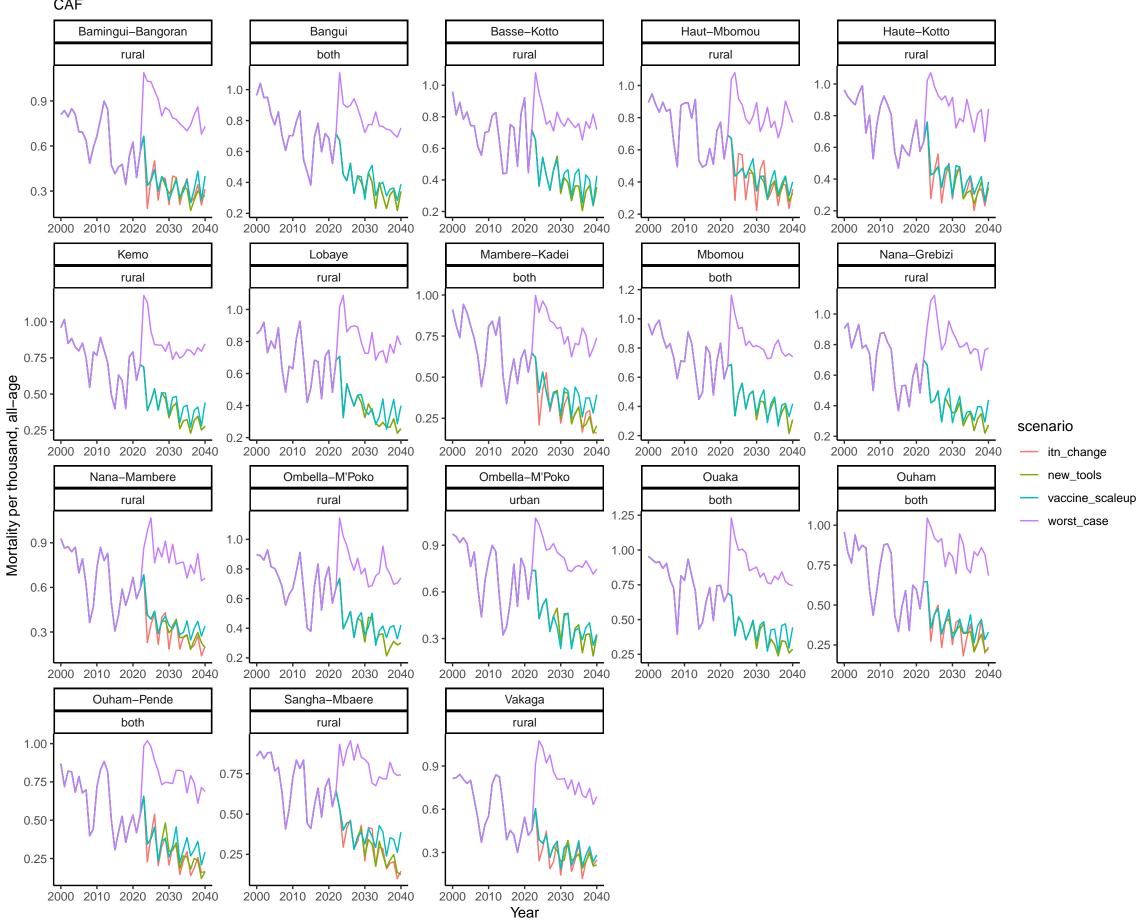
All-age clinical incidence over time by scenario CAF Bamingui-Bangoran Basse-Kotto Haut-Mbomou Haute-Kotto Bangui both rural rural rural rural 2000 2010 2010 2020 2030 2040 2000 2010 Kemo Lobaye Mambere-Kadei Mbomou Nana-Grebizi rural rural both both rural Clinical incidence per thousand, all-age scenario itn\_change new\_tools Ombella-M'Poko Ombella-M'Poko Ouham Nana-Mambere Ouaka vaccine\_scaleup rural rural urban both both worst\_case 2000 2010 2020 2030 2040 2010 2020 2030 2010 2020 2030 2040 2000 2010 2020 2020 2030 Ouham-Pende Sangha-Mbaere Vakaga both rural rural 

2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

Year

All-age mortality over time by scenario CAF



All-age clinical incidence over time by scenario CIV Abidjan Bas-Sassandra 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 Lagunes Montagnes Montagnes Sassandra-Marahoue Sassandra-Marahoue urban rural urban urban rural scenario itn\_change new\_tools vaccine\_scaleup worst\_case 2000 2010 Woroba Savanes Savanes Vallee du Bandama Vallee du Bandama urban urban both rural rural 2030 2040 Yamoussoukro Yamoussoukro Zanzan Zanzan rural urban urban rural 2000 2010 2010 2020 2030 2010 2020 Year

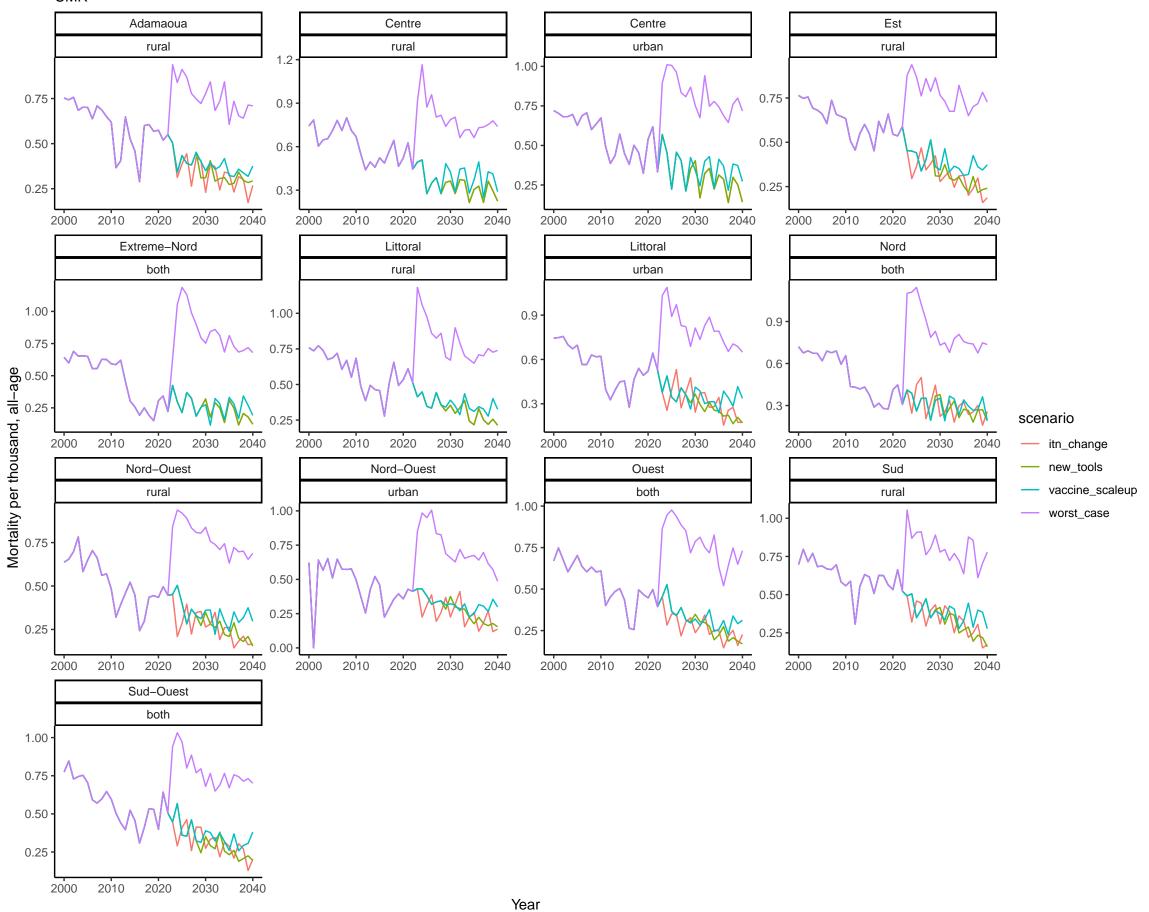
All-age mortality over time by scenario CIV Bas-Sassandra Bas-Sassandra Abidjan Comoe Comoe both rural urban rural urban 1.00 1.00 1.0 0.9 0.9 0.75 0.6 0.6 0.6 0.50 0.50 0.3 0.3 2020 2000 2010 2020 2030 2010 2020 2000 2010 2020 2030 2000 2010 2020 2000 2010 2030 2040 2040 2000 2030 2040 2040 2030 Denguele Goh-Djiboua Goh-Djiboua Lacs Lagunes both rural urban both rural 1.2 1.25 1.25 0.9 1.00 0.9 0.9 0.75 0.6 0.6 0.50 0.3 2010 2000 2010 2020 2000 2010 2000 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2020 Lagunes Montagnes Montagnes Sassandra-Marahoue Sassandra-Marahoue urban urban urban rural rural scenario 1.0 1.00 0.9 0.9 0.9 itn\_change new\_tools 0.6 0.6 0.6 0.50 vaccine\_scaleup 0.3 0.3 worst\_case 2000 2010 2020 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2040 2040 2030 2040 2030 Savanes Savanes Vallee du Bandama Vallee du Bandama Woroba urban rural rural urban both 1.25 1.0 0.8 1.00 1.00 0.8 0.75 0.75 0.6 0.6 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 Yamoussoukro Yamoussoukro Zanzan Zanzan rural urban rural urban 1.0 1.0 8.0 8.0 0.8 0.8 0.6 0.6 0.6 0.6 0.4 0.2 2020 2000 2010 2020 2030 2000 2010 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2040 2000

Year

Mortality per thousand, all-age

All-age clinical incidence over time by scenario CMR Adamaoua Centre Centre Est rural urban rural rural Extreme-Nord Littoral Littoral Nord both rural urban both Clinical incidence per thousand, all-age scenario itn\_change Nord-Ouest Nord-Ouest new\_tools Sud Ouest vaccine\_scaleup urban rural both rural 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 500 600 600 600 500 500 400 400 400 400 400 400 300 300 300 300 200 200 200 200 200 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 600 500 500 500 500 500 400 400 400 400 400 400 300 300 300 300 300 300 200 200 200 200 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 600 600 600 600 500 500 500 400 400 400 400 400 300 300 300 300 200 200 200 200 scenario 200 200 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 new\_tools Lomami Lualaba Mai-Ndombe Maniema Maniema Mongala vaccine\_scaleup both both rural rural rural urban 500 600 600 worst\_case 500 500 500 400 400 400 400 400 400 300 300 300 300 200 200 200 200 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-Ubangi Nord-Kivu Sankuru Sud-Kivu Sud-Kivu Sud-Ubangi both both rural rural urban both 500 500 400 500 500 500 400 400 300 400 400 400 300 300 300 200 300 300 200 200 200 200 100 100 100 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 550 500 500 500 450 400 400 400 300 350 300 300 200 250 200

2000 2010 2020 2030 2040

Year

Clinical incidence per thousand,

150

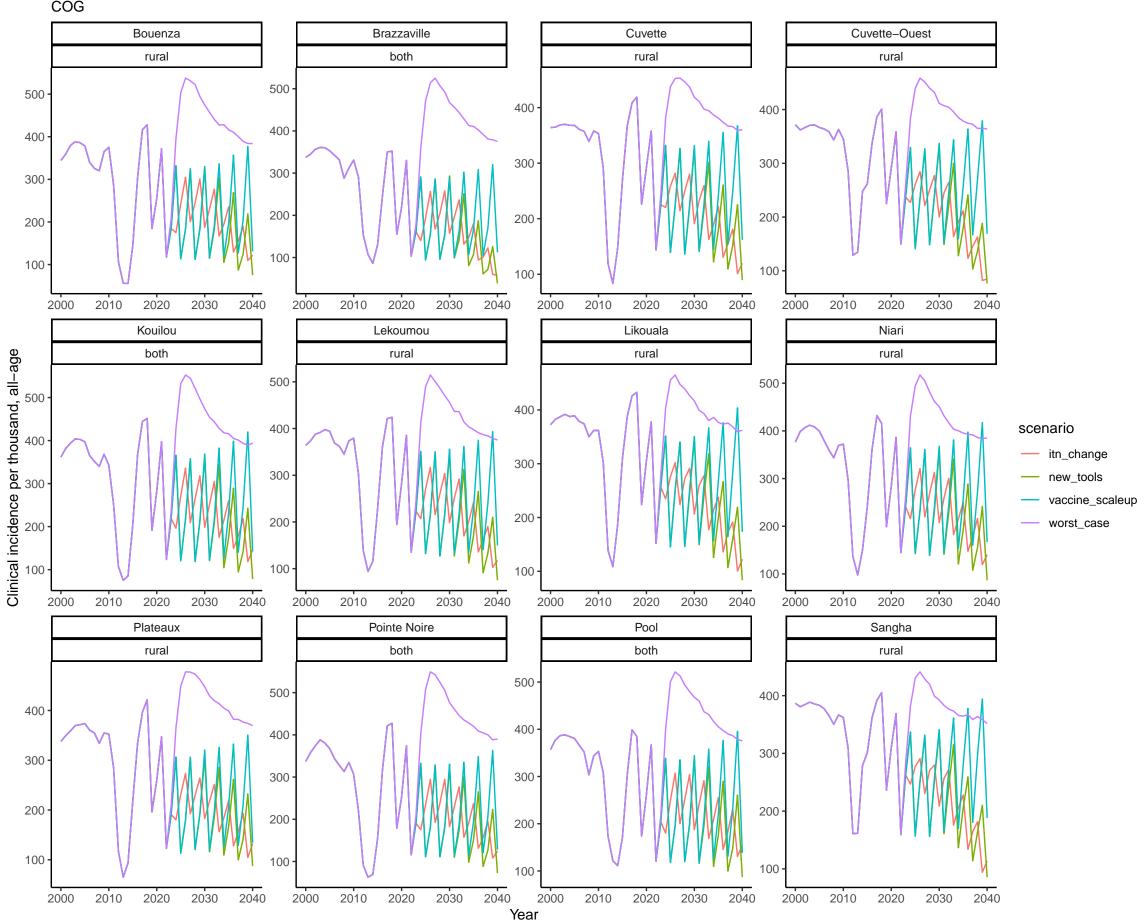
2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

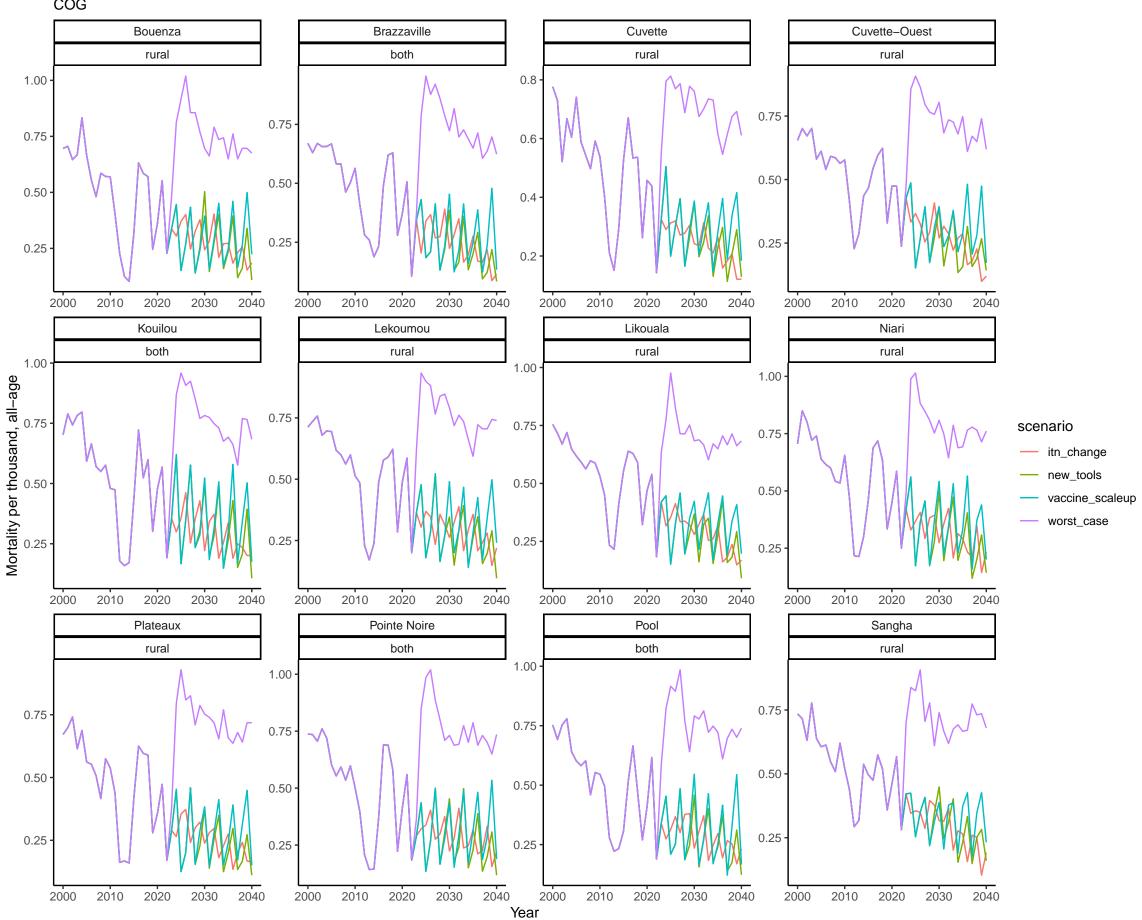
2000 2010 2020 2030 2040

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 1.0 0.8 1.0 0.9 0.9 0.75 8.0 0.6 0.6 0.6 0.6 0.50 0.6 0.4 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 Kasai-Oriental Kasai-Oriental Ituri Kasai both both both both rural urban 1.00 1.00 1.00 1.00 0.8 0.9 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.4 0.25 0.25 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 2000 2010 2020 2030 2040 Kongo-Central Kongo-Central Kwilu Kwilu Kinshasa Kwango both rural urban rural rural urban 1.0 Mortality per thousand, all-age 0.9 0.9 8.0 0.9 0.9 0.9 0.6 0.6 0.6 0.6 0.6 0.6 0.4 0.3 0.3 scenario 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 new\_tools Lomami Lualaba Mai-Ndombe Maniema Maniema Mongala vaccine\_scaleup both urban both rural rural rural 1.00 1.0 1.00 worst\_case 0.8 1.00 0.75 0.8 0.75 0.75 0.6 0.50 0.50 0.50 0.4 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 Sud-Kivu Nord-Kivu Nord-Ubangi Sankuru Sud-Kivu Sud-Ubangi both both rural rural urban both 1.00 1.00 1.0 0.75 0.75 0.9 0.75 0.75 0.8 0.50 0.50 0.50 0.50 0.6 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 rura urban rural 1.00 1.00 1.0 0.75 0.8 0.75 0.75 0.6 0.50 0.4 0.2 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 Anseba Debub Debub Anseba rural urban urban rural Debubawi Keyih Bahri Gash Barka Gash Barka Maekel Clinical incidence per thousand, all-age rural urban rural rural 30 -scenario itn\_change new\_tools vaccine\_scaleup worst\_case Semenawi Keyih Bahri Semenawi Keyih Bahri Maekel urban urban rural Year

All-age mortality over time by scenario ERI Anseba Anseba Debub Debub 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 2000 2040 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 0.2 itn\_change 0.6 0.6 new\_tools vaccine\_scaleup 0.05 0.3 worst\_case 0.3 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 Gambela Peoples Harari People Dire Dawa Oromia Clinical incidence per thousand, all-age both both both both scenario itn\_change new\_tools vaccine\_scaleup worst\_case Somali uthern Nations, Nationalities and Peopl Tigray both both both Year

2000

Year

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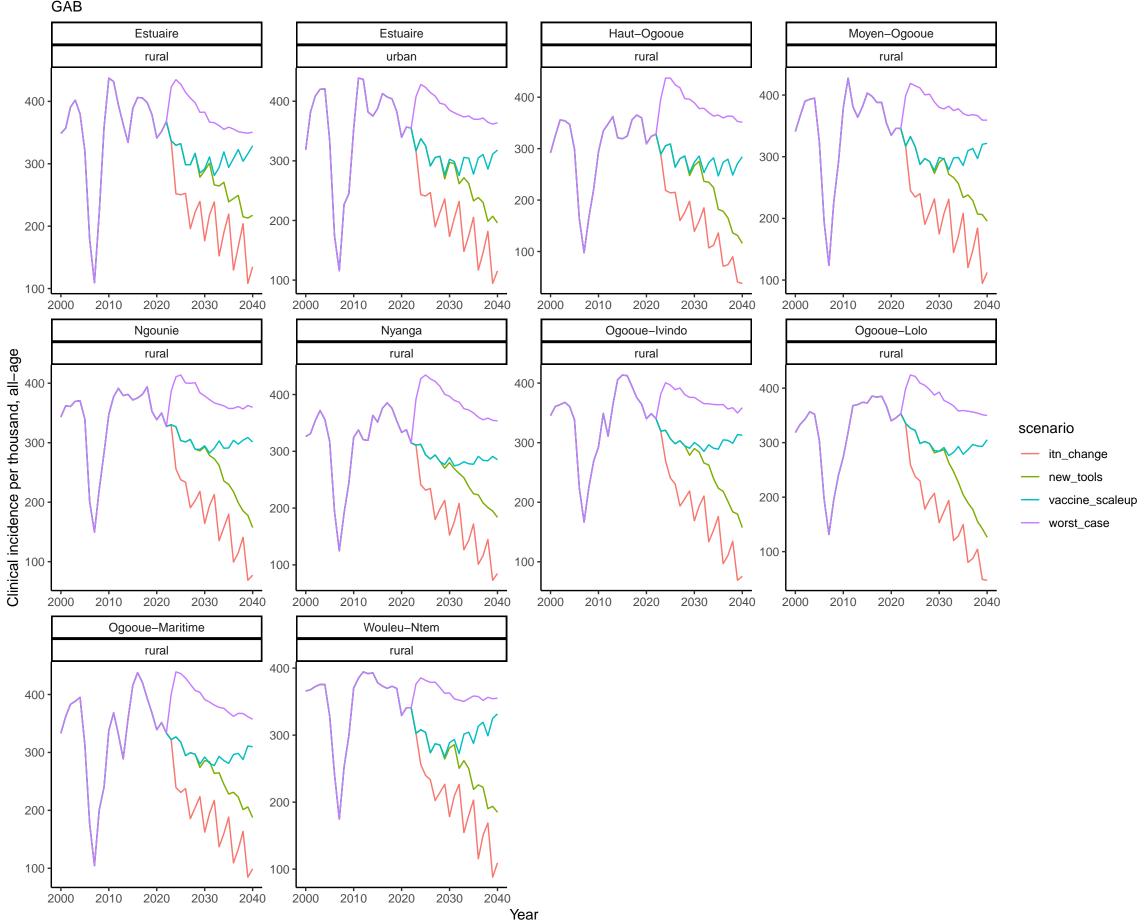
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2010

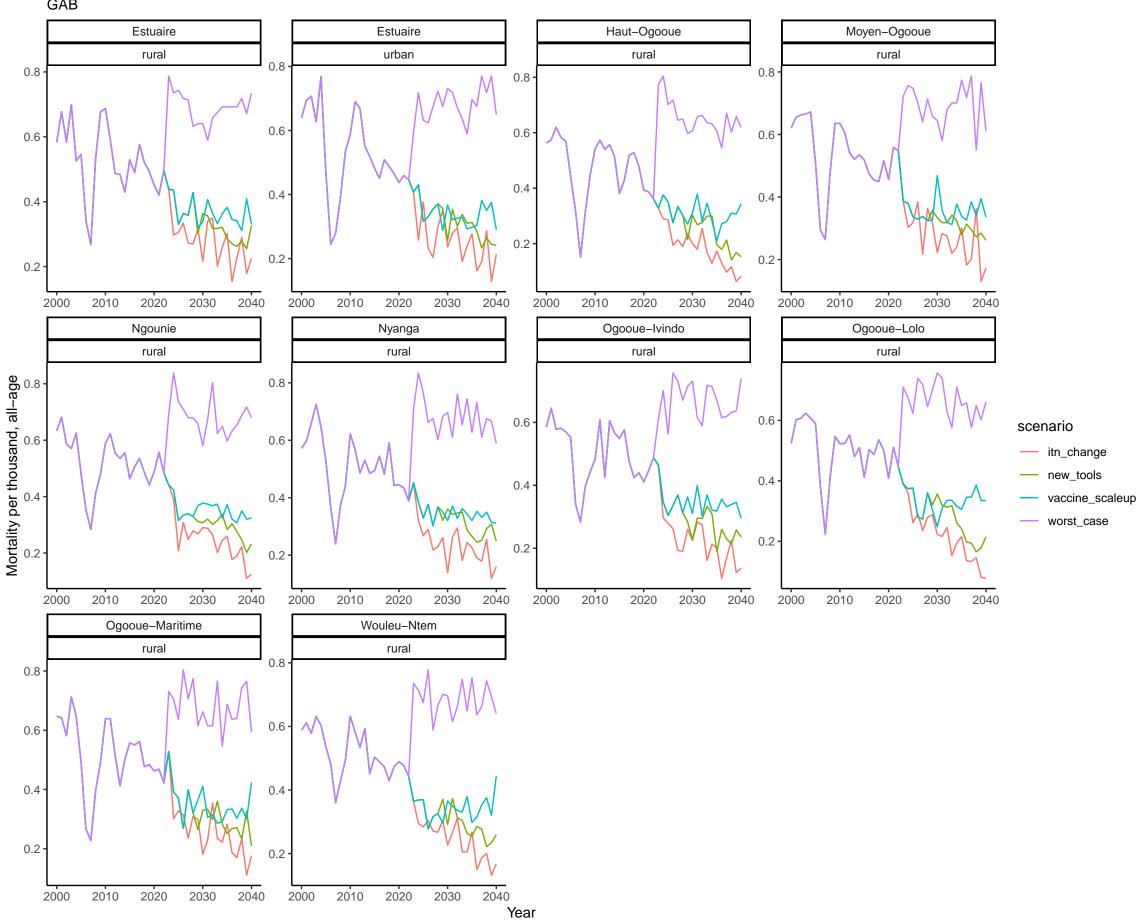
2000

2020

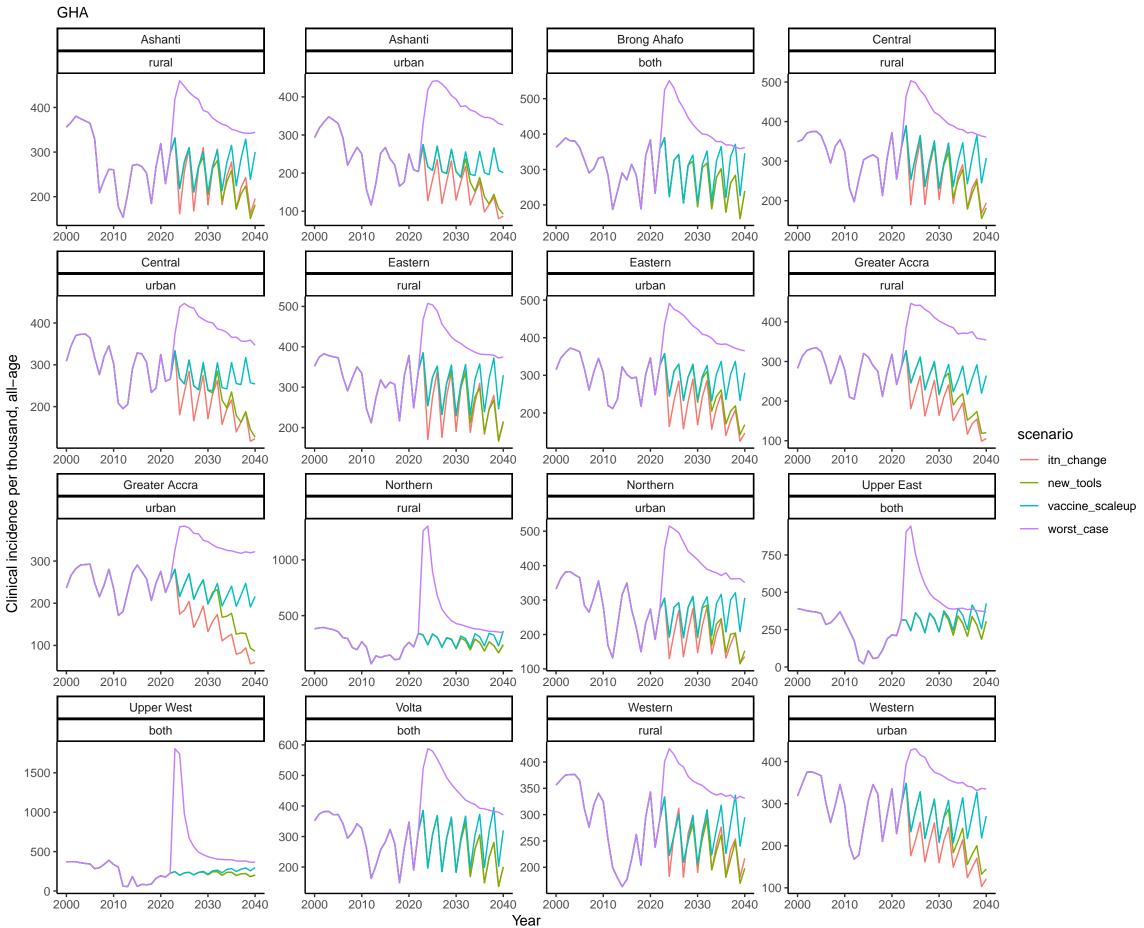
All-age clinical incidence over time by scenario GAB



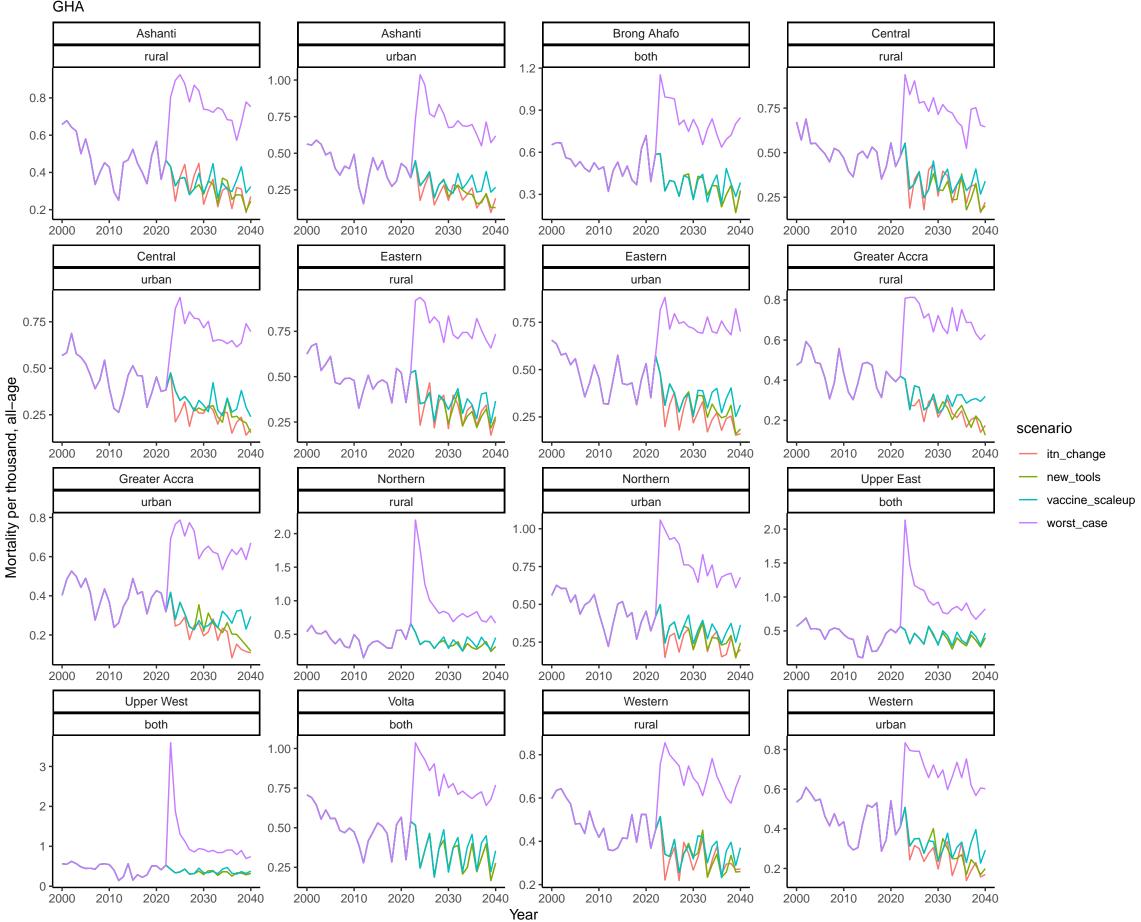
All-age mortality over time by scenario GAB



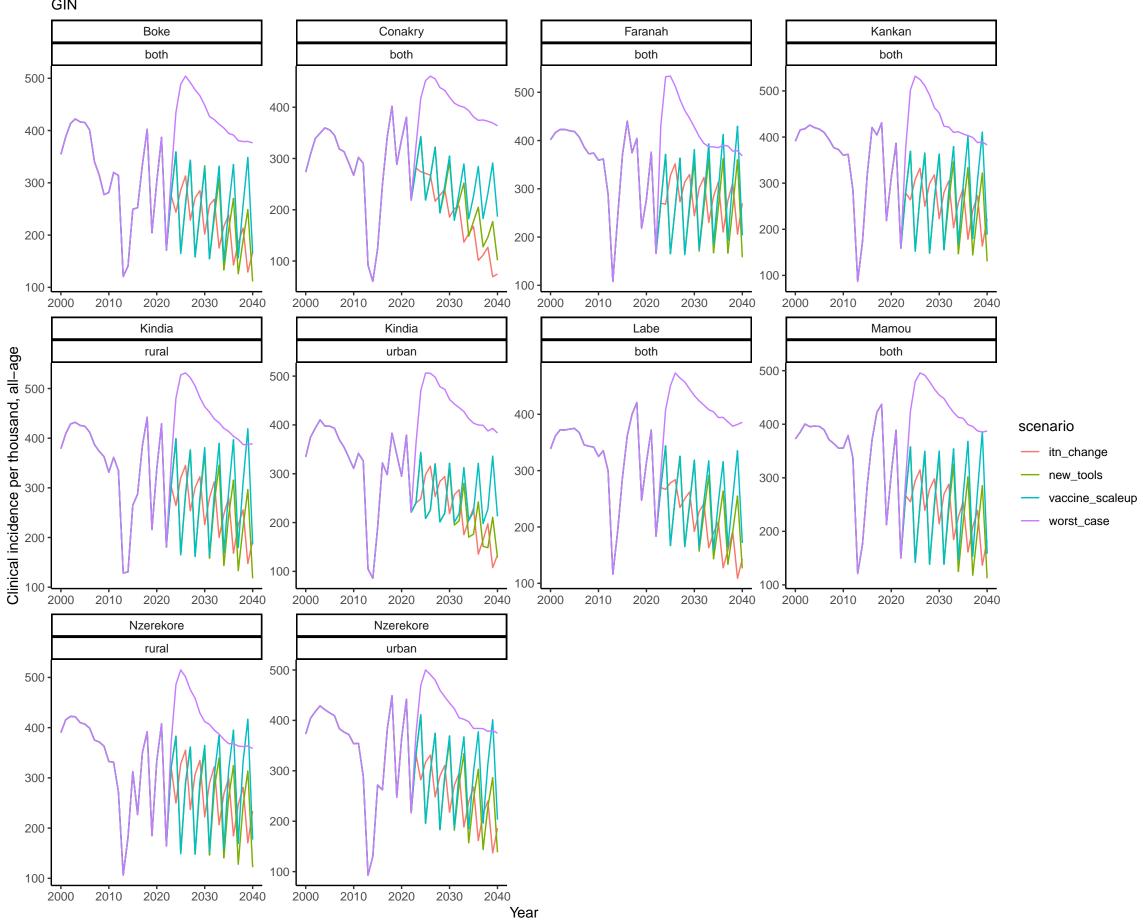
All-age clinical incidence over time by scenario GHA



All-age mortality over time by scenario GHA



All-age clinical incidence over time by scenario GIN



All-age mortality over time by scenario GIN Conakry Faranah Kankan Boke both both both both 1.00 0.8 0.9 0.9 0.75 0.6 0.6 0.6 0.50 0.4 0.3 0.3 0.25 0.2 2010 2010 2010 2010 2000 2020 2030 2040 2000 2020 2030 2040 2000 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 0.50 0.25 0.75 scenario 0.75 0.75 itn\_change new\_tools 0.50 0.50 0.50 vaccine\_scaleup worst\_case 0.25 0.25 0.25 2040 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2030 2000 2000 2000 2000 Nzerekore Nzerekore rural urban 1.00 0.75 0.75 0.50 0.50 0.25 0.25

Year

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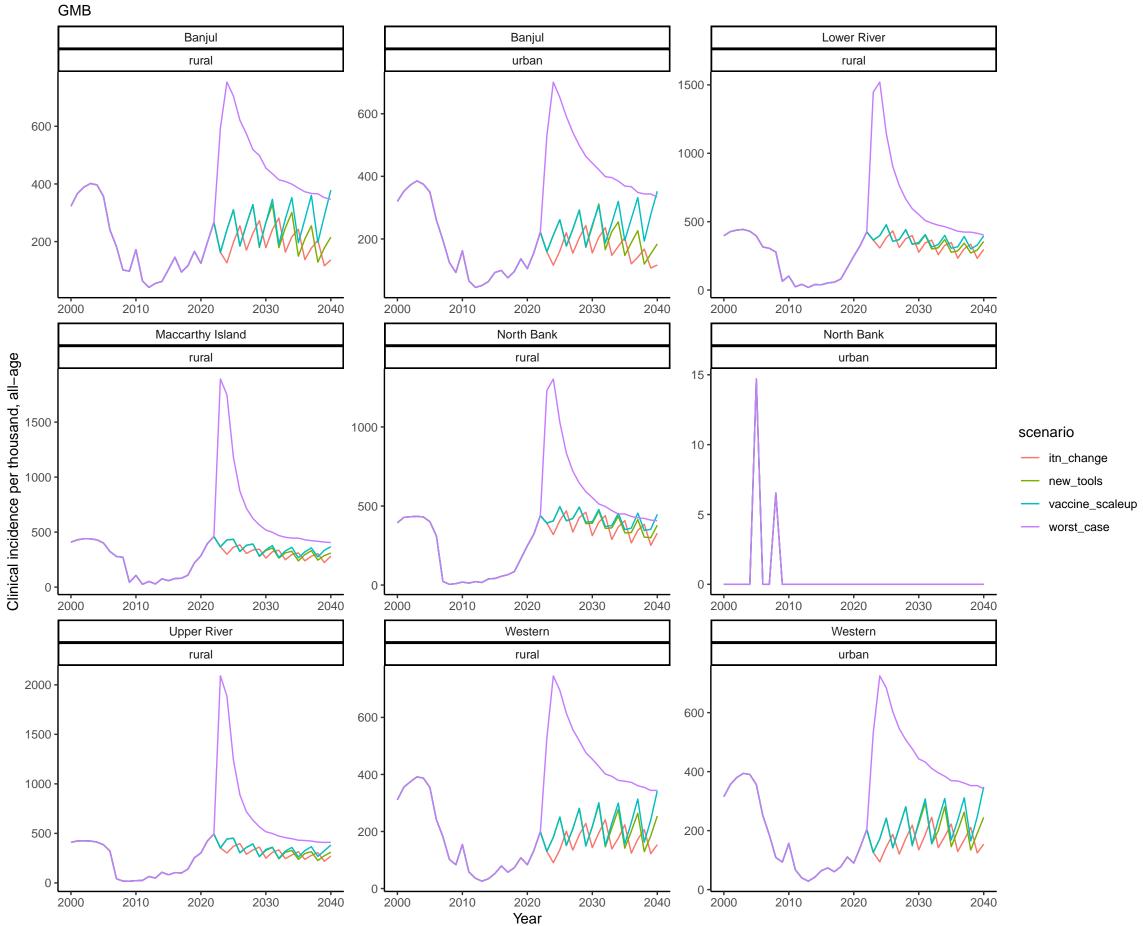
2010

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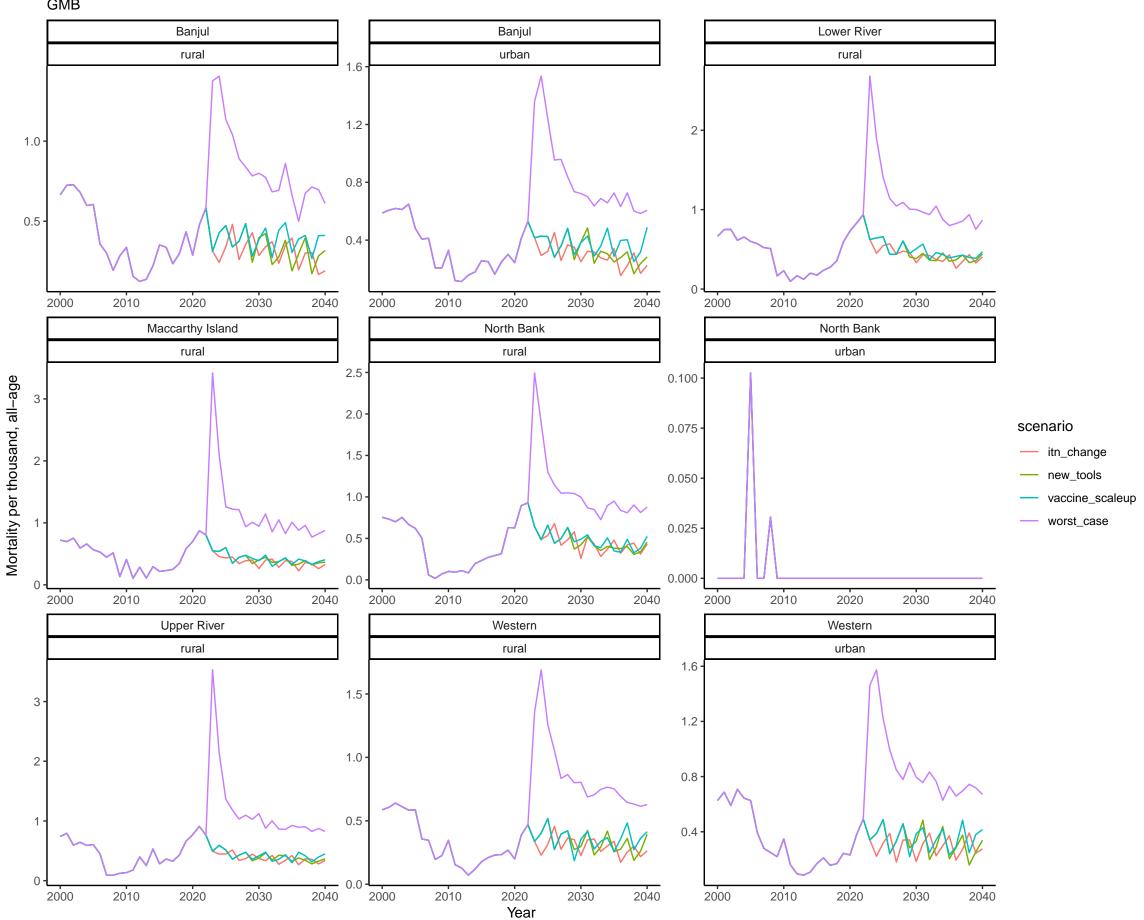
2000

2010

All-age clinical incidence over time by scenario GMB



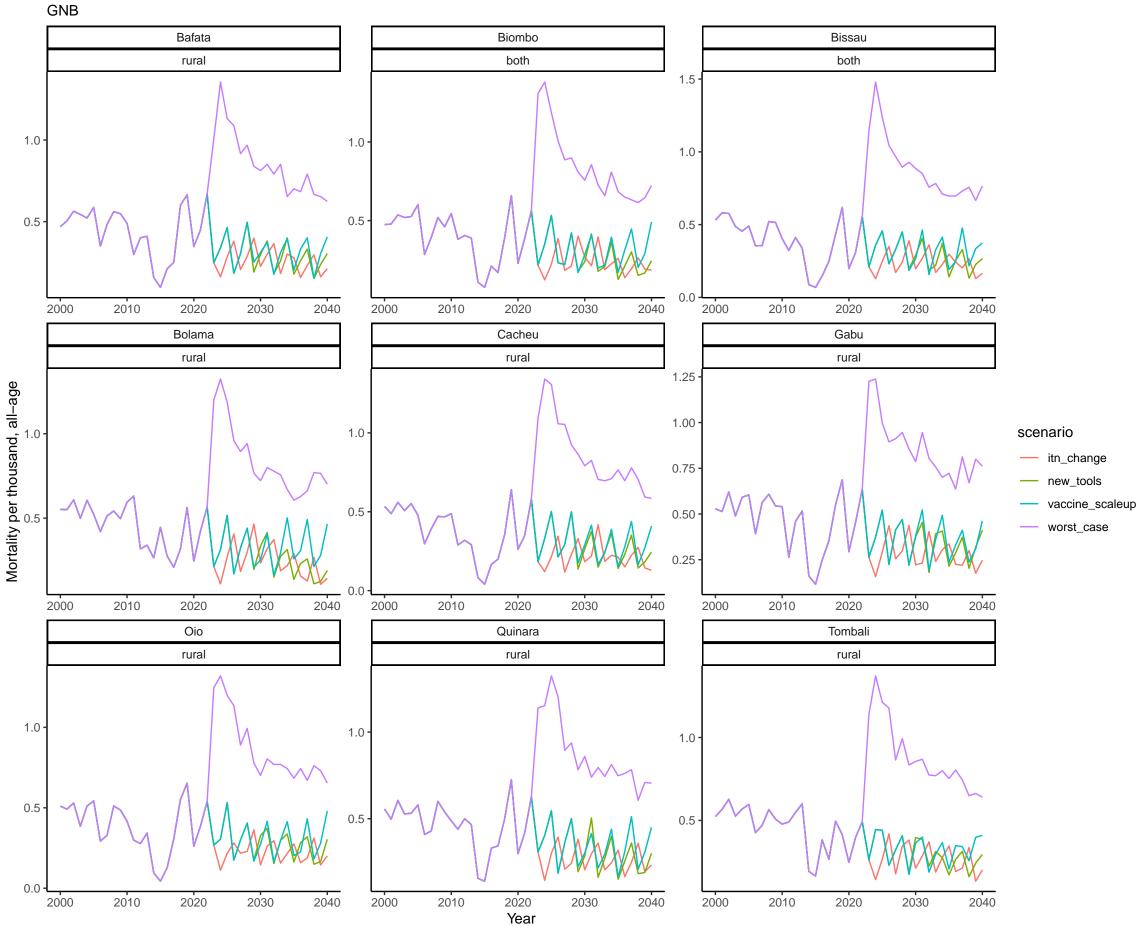
All-age mortality over time by scenario GMB



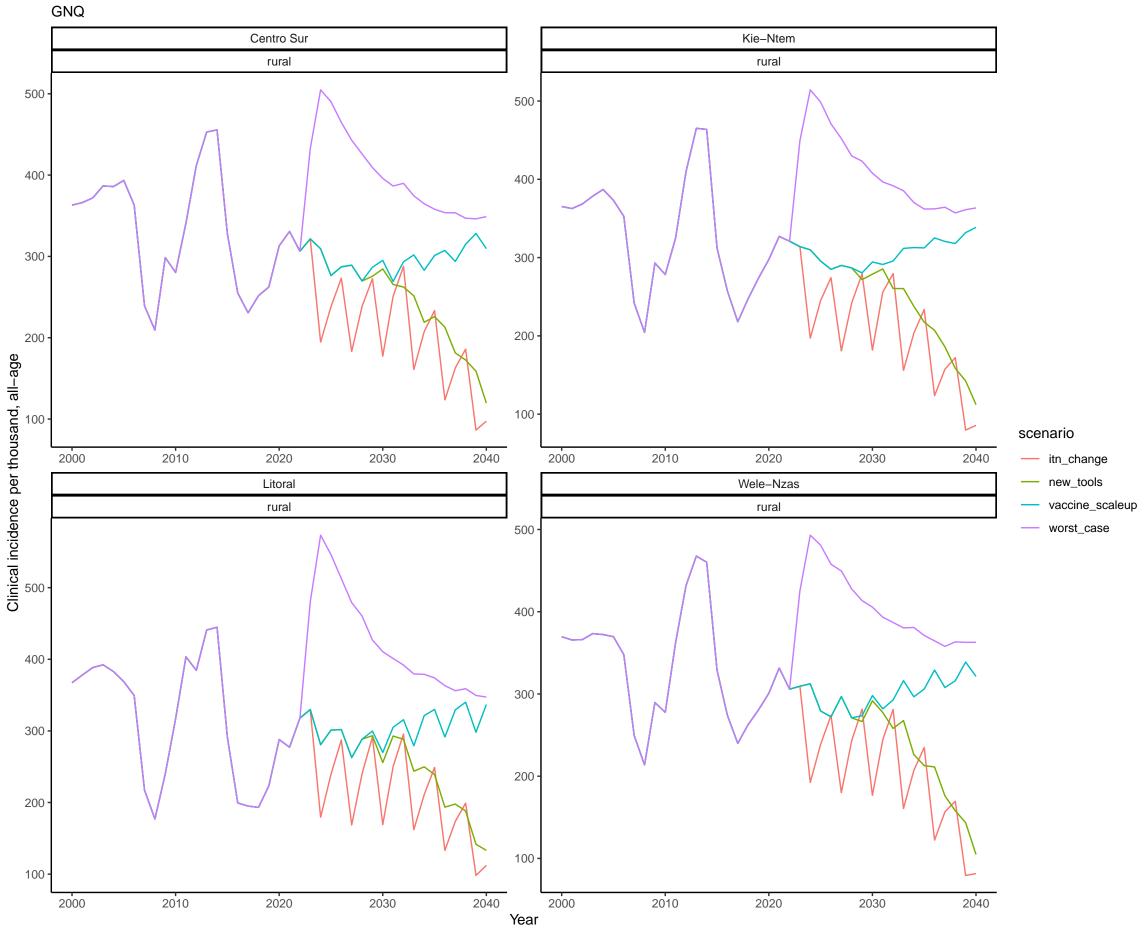
All-age clinical incidence over time by scenario GNB Bafata Biombo Bissau both both rural Bolama Cacheu Gabu Clinical incidence per thousand, all-age rural rural rural scenario itn\_change new\_tools vaccine\_scaleup worst\_case Quinara Oio Tombali rural rural rural 

Year

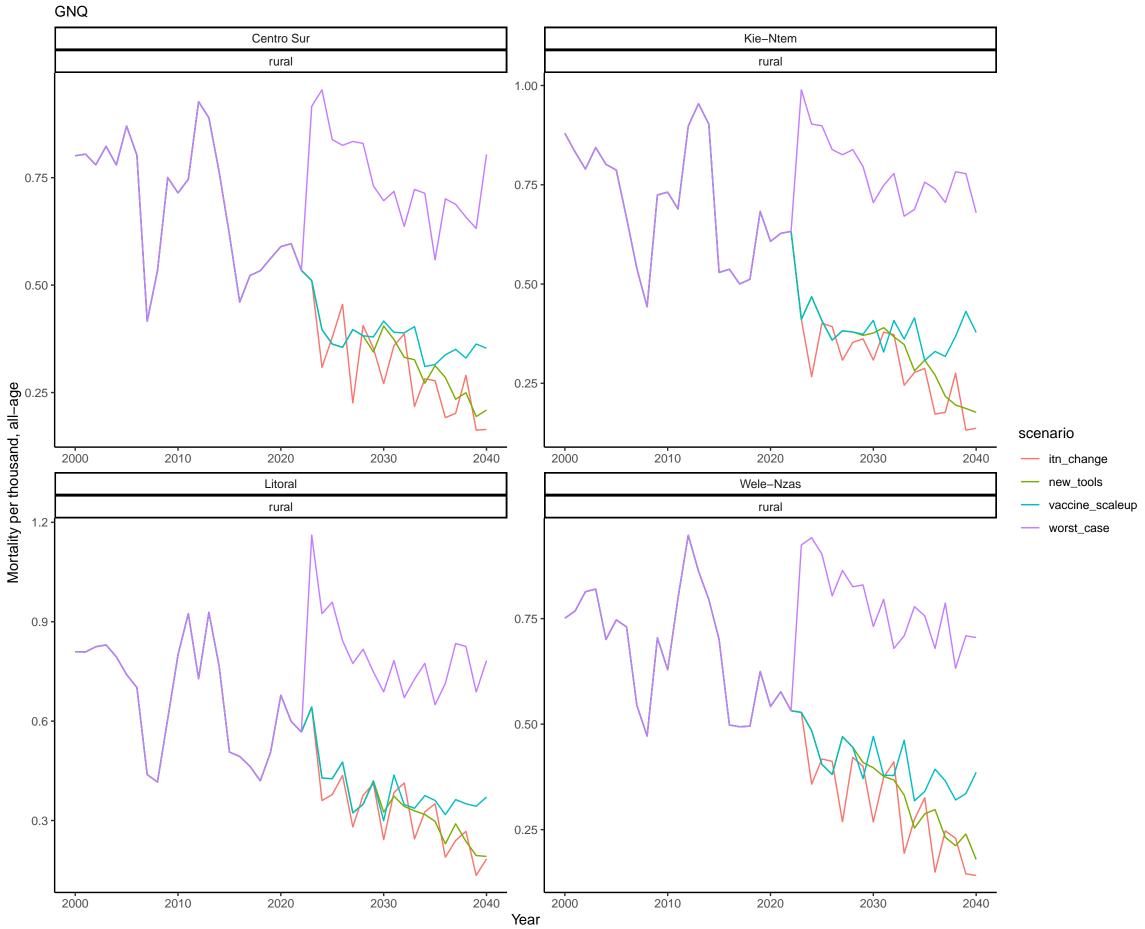
All-age mortality over time by scenario GNB



All-age clinical incidence over time by scenario GNQ



All-age mortality over time by scenario GNQ



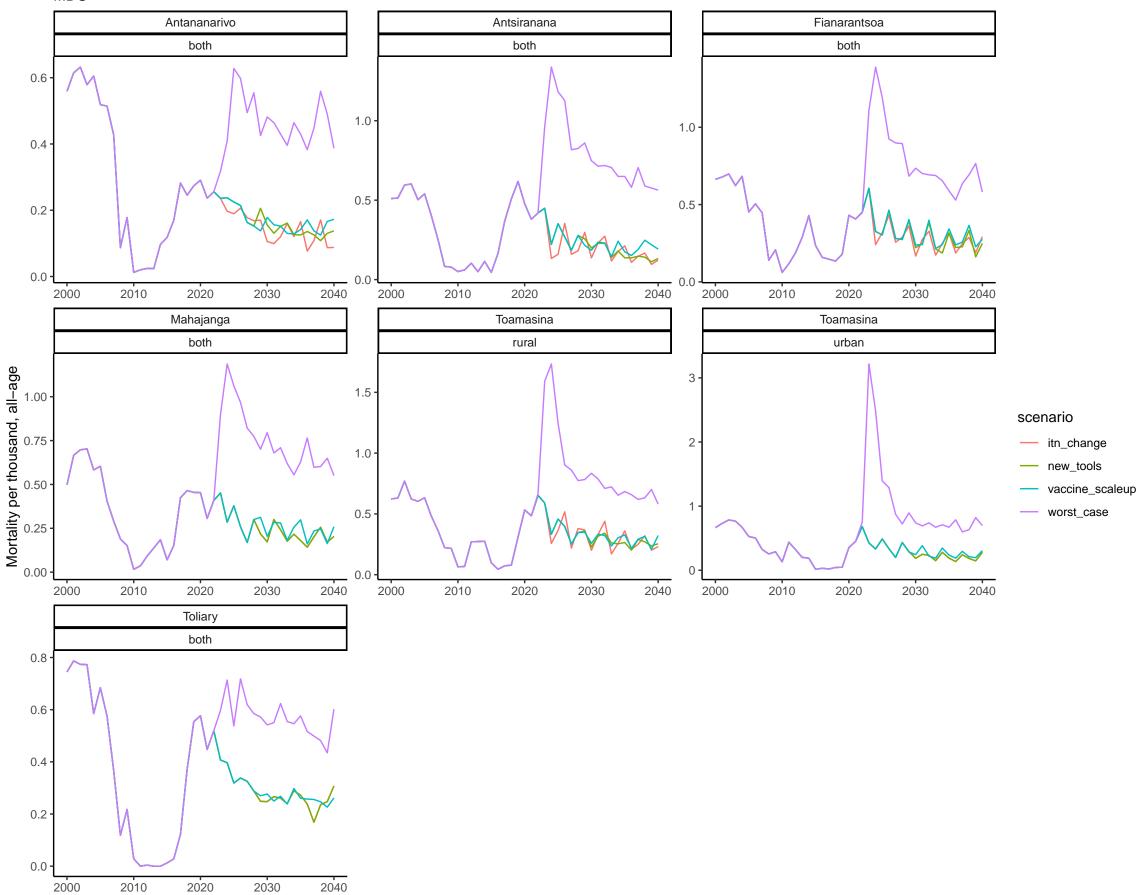
All-age clinical incidence over time by scenario **KEN** Elgeyo-Marakwet Baringo **Bomet** Bungoma Busia Busia Embu both both both urban both both rura 800 250 200 500 300 400 300 300 600 400 300 200 200 150 200 300 400 100 200 100 100 100 200 200 200@01@02@03@040 20002010202020302040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Kajiado Garissa Homa Bay Isiolo Kakamega Kericho Kiambu both both both both both both both 500 400 300 400 300 400 300 300 300 200 200 200 300 200 200 200 100 200 100 100 100 100 100 200@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 Kwale Laikipia Kirinyaga both both both both both both both 500 400 300 200 500 400 500 300 200 400 300 400 150 300 200 all-age 100 100 2 200 300 100 200 100 100 50 200@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 Clinical incidence per thousand, Machakos Lamu Makueni Mandera Marsabit Meru Migori scenario both both both both both both both 1500 itn\_change 300 300 400 400 300 300 200 1000 300 200 200 200 new\_tools 200 200 500 100 100 100 100 100 vaccine\_scaleup 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 20002010202020302040 worst\_case Murang'a Nakuru Mombasa Nairobi Nandi Narok Nyamira both both both both both both both 300 250 200 150 250 200 150 500 400 300 400 300 300 200 300 200 200 200 100 200 100 100 100 200@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 20002010202020302040 Siaya Taita Taveta Tana River Tharaka-Nithi Nyandarua Nyeri Samburu both both both both both both both 400 300 400 400 400 300 20 200 300 200 300 300 200 200 200 10 100 100 200 100 100 100 200@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 20002010202020302040 Trans Nzoia Turkana Uasin Gishu Wajir West Pokot Vihiga both both both both both both 500 300 300 300 300 300 400 200 200 200 200 300 200 200 100 100 100 100 200@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 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 1.00 8.0 0.9 0.75 0.75 0.75 1.2 0.75 0.6 0.6 0.50 0.50 0.50 8.0 0.4 0.50 0.25 0.25 0.3 0.25 0.4 0.25 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 0.6 0.50 0.4 0.25 0.25 0.25 0.3 0.250.25 0.2 0.00 0.0 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 20002010202020302040 Kilifi Kirinyaga Kisii Kisumu Kitui Kwale Laikipia both both both both both both both 1.00 1.00 1.00 0.8 0.9 0.75 0.75 0.75 0.75 0.75 0.6 0.50 0.6 0.50 0.50 0.50 0.50 0.4 0.25 0.3 0.25 0.250.25 0.00 Mortality per thousand, all-age 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 Machakos Lamu Makueni Mandera Marsabit Meru Migori scenario both both both both both both both 1.25 1.00 0.75 0.50 1.00 itn\_change 0.6 0.75 0.75 0.6 0.75 0.4 2 0.50 new\_tools 0.50 0.4 0.50 0.25 0.25 0.2 0.2 0.25 vaccine\_scaleup 200@01@02@03@040 200@01@02@03@040 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 20002010202020302040 worst\_case Nakuru Nairobi Nandi Narok Mombasa Murang'a Nyamira both both both both both both both 1.2 0.8 0.75 0.75 0.9 0.9 0.6 0.75 0.6 0.6 0.50 0.6 0.50 0.50 0.4 0.4 0.25 0.3 0.25 0.3 0.25 0.2 0.00 20002010202020302040 20002010202020302040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 20002010202020302040 Nyandarua Taita Taveta Tana River Tharaka-Nithi Nyeri Samburu Siaya both both both both both both both 1.00 1.2 8.0 0.9 0.15 0.75 0.75 0.9 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 0.3 0.00 0.00 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@040 200@01@02@03@040 West Pokot Trans Nzoia Turkana Uasin Gishu Wajir Vihiga both both both both both both 0.8 WW 0.8 0.6 0.6 1.00 0.6 0.6 0.6 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 Year

All-age clinical incidence over time by scenario **LBR** Bomi Gbapolu **Grand Bassa Grand Bassa** Bong urban both rural rural rural 500 400 400 -400 400 400 300 300 300 300 300 200 200 200 200 200 100 100 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 **Grand Cape Mount Grand Gedeh** Grand Kru Lofa Margibi rural rural rural rural rural 400 400 400 400 400 350 300 Clinical incidence per thousand, all-age 300 300 300 250 200 200 200 100 scenario 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2000 2010 2020 2030 2000 2000 2000 2000 2030 2040 2040 itn\_change new\_tools Margibi Maryland Montserrado Nimba River Gee vaccine\_scaleup urban rural both rural rural worst\_case 400 400 400 400 300 300 300 300 200 200 100 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 Rivercess Sinoe rural rural 400 400 350 300 300 200 200 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario LBR Bong Bomi Gbapolu **Grand Bassa Grand Bassa** both rural urban rural rural 0.8 0.8 0.75 0.6 0.6 0.50 0.5 0.4 0.25 2000 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2040 Grand Kru **Grand Cape Mount** Grand Gedeh Lofa Margibi rural rural rural rural rural 1.00 0.8 0.8 0.75 0.75 0.75 0.6 0.50 Mortality per thousand, all-age 0.50 scenario 2010 2020 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2030 2040 2000 2030 2040 itn\_change new\_tools Margibi Montserrado River Gee Maryland Nimba vaccine\_scaleup urban rural both rural rural 0.8 0.8 worst\_case 0.8 8.0 0.6 0.6 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 2000 2010 2020 2030 2040 Rivercess Sinoe rural rural 8.0 0.6 0.6 0.4 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

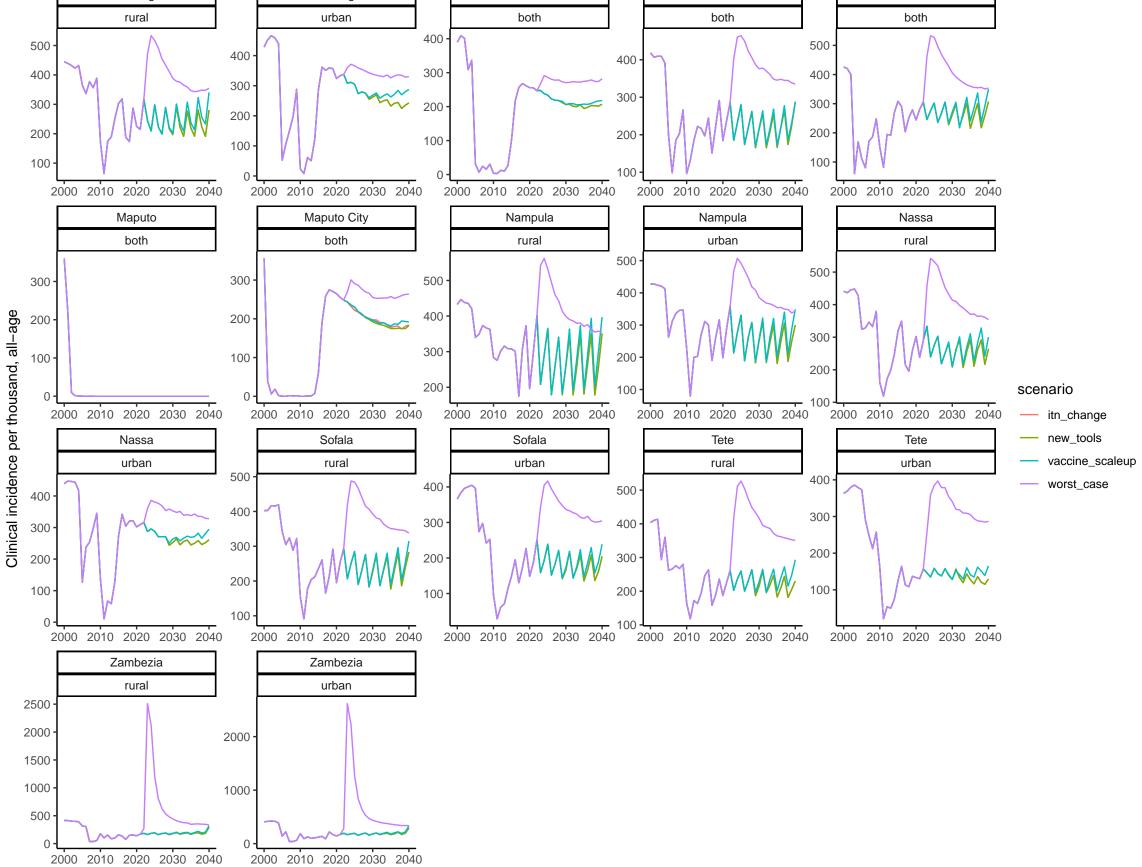
All-age mortality over time by scenario MDG



All-age clinical incidence over time by scenario MLI Bamako Gao Kayes Kidal both both both rural Mopti Koulikoro Koulikoro Mopti Clinical incidence per thousand, all-age urban urban rural rural scenario itn\_change new\_tools vaccine\_scaleup worst\_case Sikasso Segou Timbuktu both both both 

Year

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 0.5 0.50 0.25 0.25 2010 2000 2010 2020 2030 2040 2000 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Koulikoro Mopti Mopti Koulikoro urban urban rural rural 1.00 2.5 Mortality per thousand, all-age 1.00.00.75 2.0 2.0 scenario 0.75 itn\_change 1.5 1.5 new\_tools 0.50 vaccine\_scaleup 1.0 1.0 worst\_case 0.5 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2040 2030 2040 2030 Sikasso Timbuktu Segou both both both 1.6 1.2 1.0 1.2 8.0 0.8 0.5 0.4 0.4 2040 2000 2010 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2020 2030 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 1.00 0.75 -0.8 0.8 0.75 0.75 0.50 0.6 0.6 0.50 0.50 0.25 0.4 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 Maputo City Maputo Nampula Nampula Nassa both both rural urban rural 1.00 0.6 1.0 1.0 0.9 0.75 8.0 8.0 0.4 0.50 0.6 0.6 0.6 0.2 0.25 0.4 scenario 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2000 2010 2020 2030 2040 2020 2030 2040 2030 2040 itn\_change new\_tools Sofala Tete Nassa Sofala Tete vaccine\_scaleup urban rural urban rural urban worst\_case 8.0 0.8 0.75 -0.75 0.8 0.6 0.6 0.50 0.50 0.6 0.4 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

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 Dedza Dowa Kasungu Likoma Lilongwe 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 1500 2000 scenario 600 500 900 1500 itn\_change 400 1000 400 300 600 1000 new\_tools 200 500 vaccine\_scaleup 200 500 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 200 200 200 500 200 200 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 800 500 600 600 600 600 600 400 400 400 400 400 400 300 200 200 200 200 100 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 0.50 0.6 0.50 0.50 0.3 0.3 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 itn\_change 1.5 1.0 0.75 1.5 new\_tools 0.6 1.0 1.0 0.5 vaccine\_scaleup 0.3 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 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 0.5 0.50 0.3 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 Phalombe Ntchisi 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 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 new\_tools Oshikoto Oshana Oshana Oshikoto Otjozondjupa vaccine\_scaleup rural urban rural urban rural 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 Otjozondjupa Zambezi Zambezi urban rural urban

2040 2000 2010

2000 2010 2020 2030 2040 2000 2010 2020 2030

2020 2030 2040

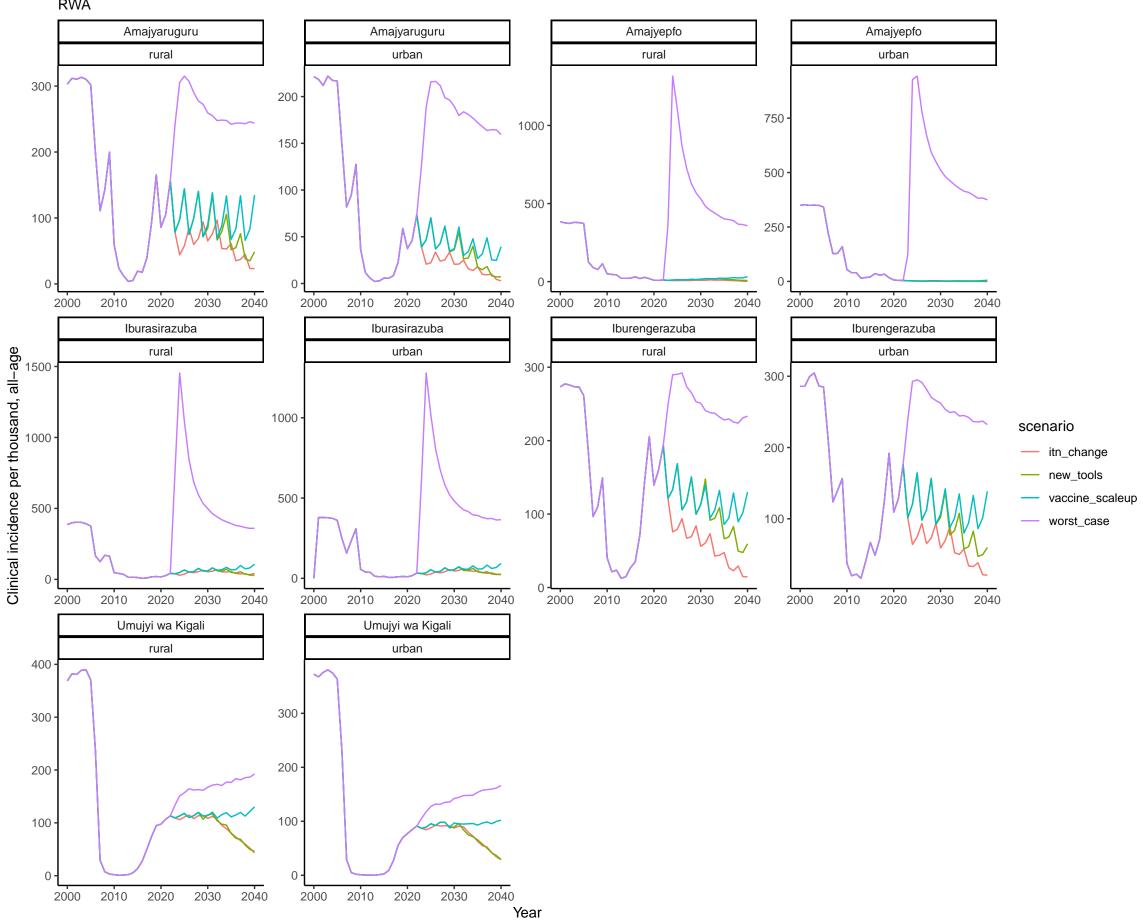
All-age clinical incidence over time by scenario NER Agadez Diffa Dosso rural rural rural Niamey Maradi Tahoua Clinical incidence per thousand, all-age both both both scenario itn\_change new\_tools vaccine\_scaleup worst\_case Zinder Tillabery both both Year

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 2010 2040 2000 2020 2030 2040 2000 2020 2030 2010 2040 2000 2010 2020 2030 Niamey Tahoua Maradi both both both 1.6 1.25 Mortality per thousand, all-age 1.00 scenario 1.2 1.0 itn\_change 0.75 new\_tools 0.8 vaccine\_scaleup 0.50 worst\_case 0.5 0.4 0.25 2010 2020 2040 2000 2010 2020 2030 2040 2000 2030 2040 2000 2010 2020 2030 Tillabery Zinder both both 1.25 1.0 1.00 0.8 0.75 0.6 0.50 0.4 2000 2010 2020 2040 2010 2020 2030 2040 2030 2000 Year

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 500 400 300 Borno Cross River Delta Delta Bayelsa Benue Benue Ebonyi urban rural urban both both rural urban both 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 200@01@02@03@040 Edo Edo Ekiti Ekiti Enugu eral Capital Terr Gombe Enugu rural urban rural urban rural urban both both Imo Jigawa Kaduna Kaduna Kano Katsina Kebbi Kogi scenario both both rural urban both both both both itn\_change new\_tools vaccine\_scaleup worst\_case Nassarawa Kwara Kwara Lagos Niger Niger Ogun Ogun urban both both urban rural urban rural rural Ondo Plateau Plateau Ondo Osun Osun Oyo Oyo urban urban rural rural urban rural rural urban 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 600 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 1.25 1.00 1.00 0.8 1.00 0.75 0.9 0.75 0.75 0.75 0.75 0.6 0.75 0.6 0.50 0.50 0.50 0.50 0.50 0.4 0.50 0.3 0.25 0.25 0.25 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 0.75 0.75 0.75 0.9 1.00 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 0.25 0.3 200201200220320040 2002012022032040 2002012022032040 20020120022032040 200201200220320040 20020120022032040 20020120022032040 2002012022032040 eral Capital Terr Edo Edo Ekiti Ekiti Gombe Enugu Enugu both rural urban rural urban rural urban both 1.00 1.0 1.2 1.0 1.00 1.00 0.75 0.75 8.0 0.75 0.8 0.9 0.75 0.75 0.50 0.6 0.6 0.50 0.50 0.6 0.50 0.50 0.4 0.4 0.25 0.25 0.25 0.3 0.25 0.25 0.2 0.2 all-age 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 Imo Jigawa Kaduna Kaduna Kano Katsina Kebbi Kogi scenario Mortality per thousand, both both rural urban both both both both 1.25 itn\_change 0.75 1.00 0.9 1.2 1.00 1.2 1.0 1.0 0.75 0.75 new\_tools 0.50 0.6 0.8 8.0 0.50 0.5 0.50 0.5 0.3 0.25 0.4 0.25 0.25 vaccine\_scaleup 2002012022032040 20020120022032040 20020120022032040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 20020120022032040 worst\_case Kwara Nassarawa Kwara Lagos Niger Niger Ogun Ogun urban both both urban urban rural rural rural 1.2 1.00 1.00 1.00 0.9 0.75 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 0.25 0.25 0.3 0.25 2002012022032040 20020120022032040 2002012022032040 20020120022032040 200201200220320040 200201200220320040 200201200220320040 20020120022032040 Osun Plateau Plateau Ondo Ondo Osun Oyo Oyo urban urban urban rural rural urban rural rural 1.00 1.0 1.00 1.00 1.0 1.00 8.0 0.8 0.9 0.8 0.75 0.75 0.75 0.75 0.6 0.6 0.6 0.6 0.50 0.50 0.50 0.50 0.4 0.4 0.4 0.3 0.25 0.25 0.25 0.250.2 0.2 200201200220320040 20020120022032040 200201200220320040 20020120022032040 20020120022032040 2002012022032040 20020120022032040 2002012022032040 Rivers Sokoto Taraba Yobe Zamfara both both both both both 1.6 1.25 1.00 1.5 0.9 1.2 1.00 0.75 0.75 1.0 0.6 8.0 0.50 0.50 0.5 0.25 20020120022032040 2002012022032040 2002012022032040 20020120022032040 200201200220320040 Year

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 -2 scenario itn\_change 0.4 0.4 new\_tools vaccine\_scaleup worst\_case 2010 2020 2030 2010 2020 2030 2010 2020 2040 2010 2020 2000 2040 2000 2040 2000 2030 2000 2030 2040 Umujyi wa Kigali Umujyi wa Kigali rural urban 0.8 0.75 0.6 0.50 0.4 0.25 0.2

Year

2020

2010

2030

Mortality per thousand, all-age

0.0

2000

2010

2020

2030

0.00

2000

All-age clinical incidence over time by scenario SDN Al Qadarif Blue Nile Central Darfur Al Jazirah 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 200 300 150 150 150 150 Clinical incidence per thousand, all-age 100 100 100 100 50 50 50 50 scenario 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 new\_tools Red Sea River Nile Northern Red Sea Sennar vaccine\_scaleup rural rural urban rural rural 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 250 250 300 200 150 200 200 200 150 150 100 100 100 100 100 50 50 50

2020

Year

2000 2010 2020 2030

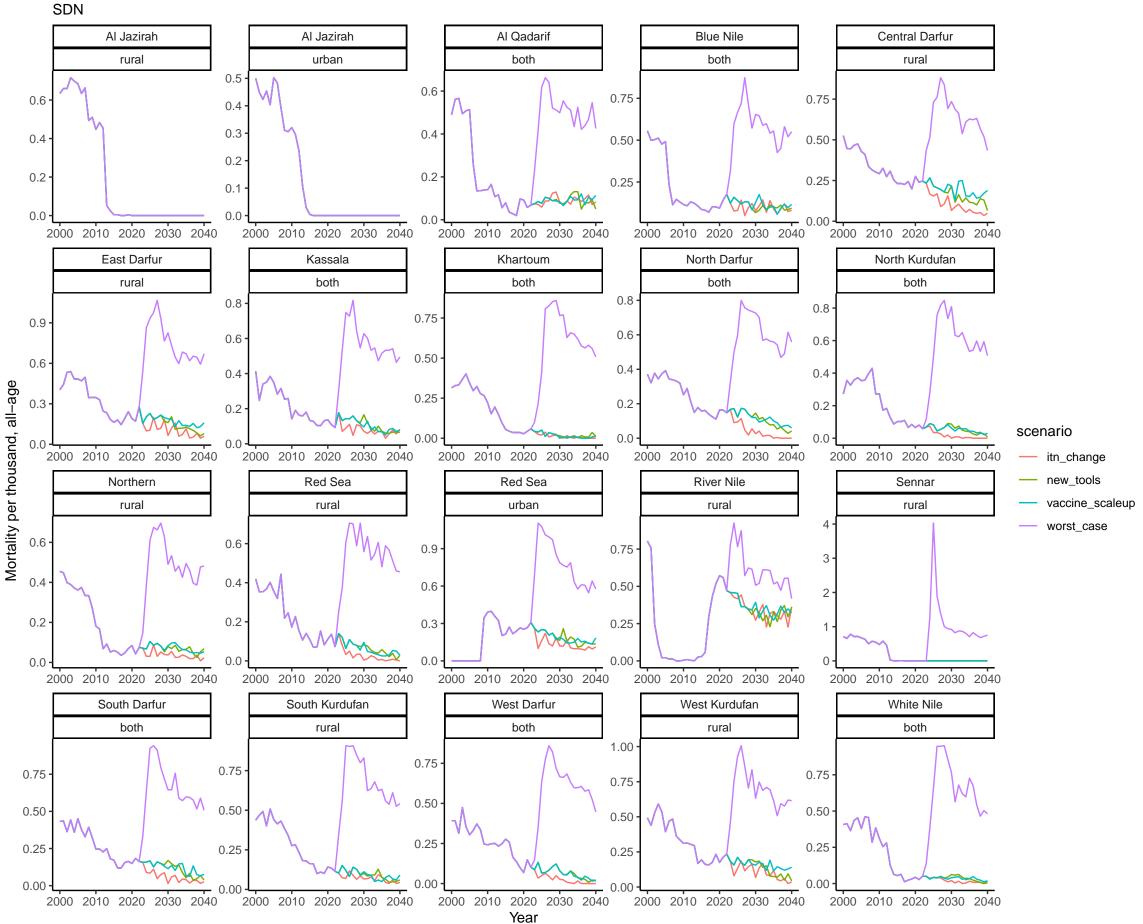
2040

2000 2010 2020 2030 2040

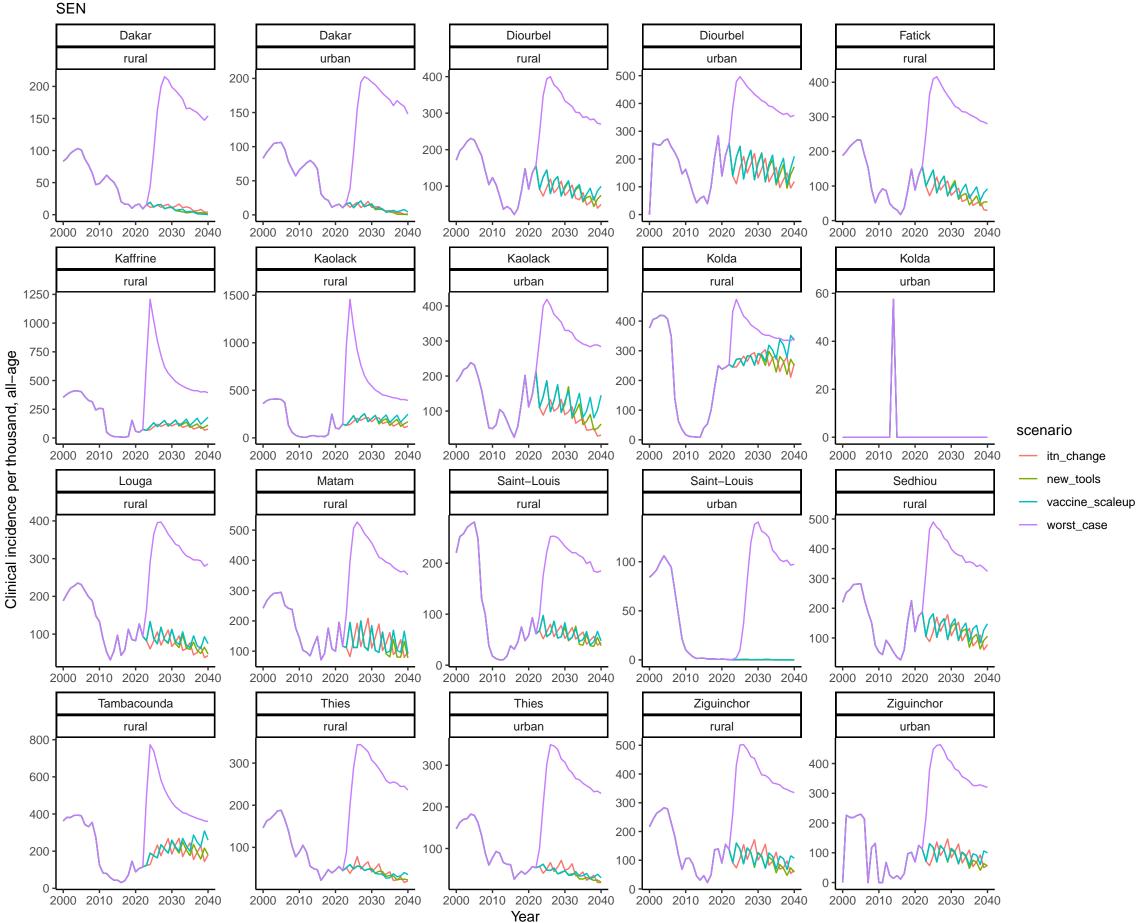
2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

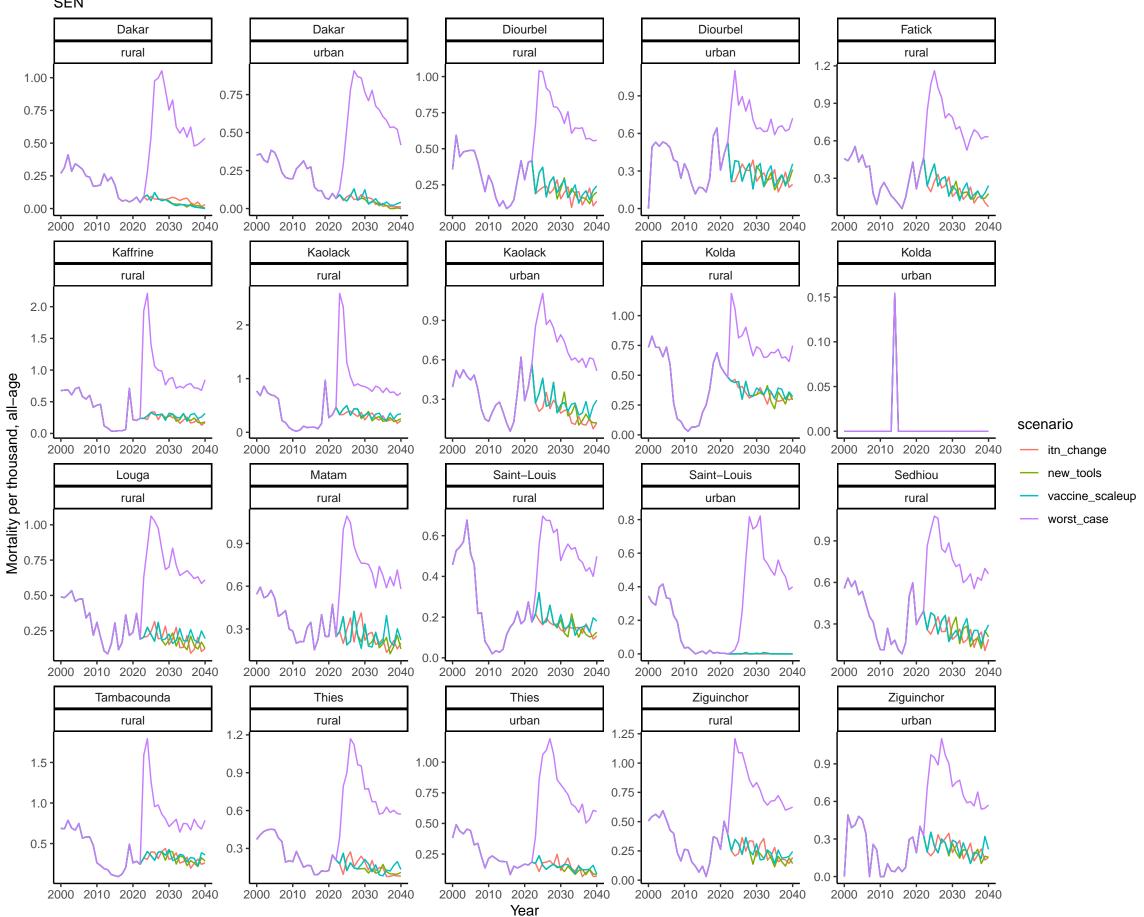
All-age mortality over time by scenario



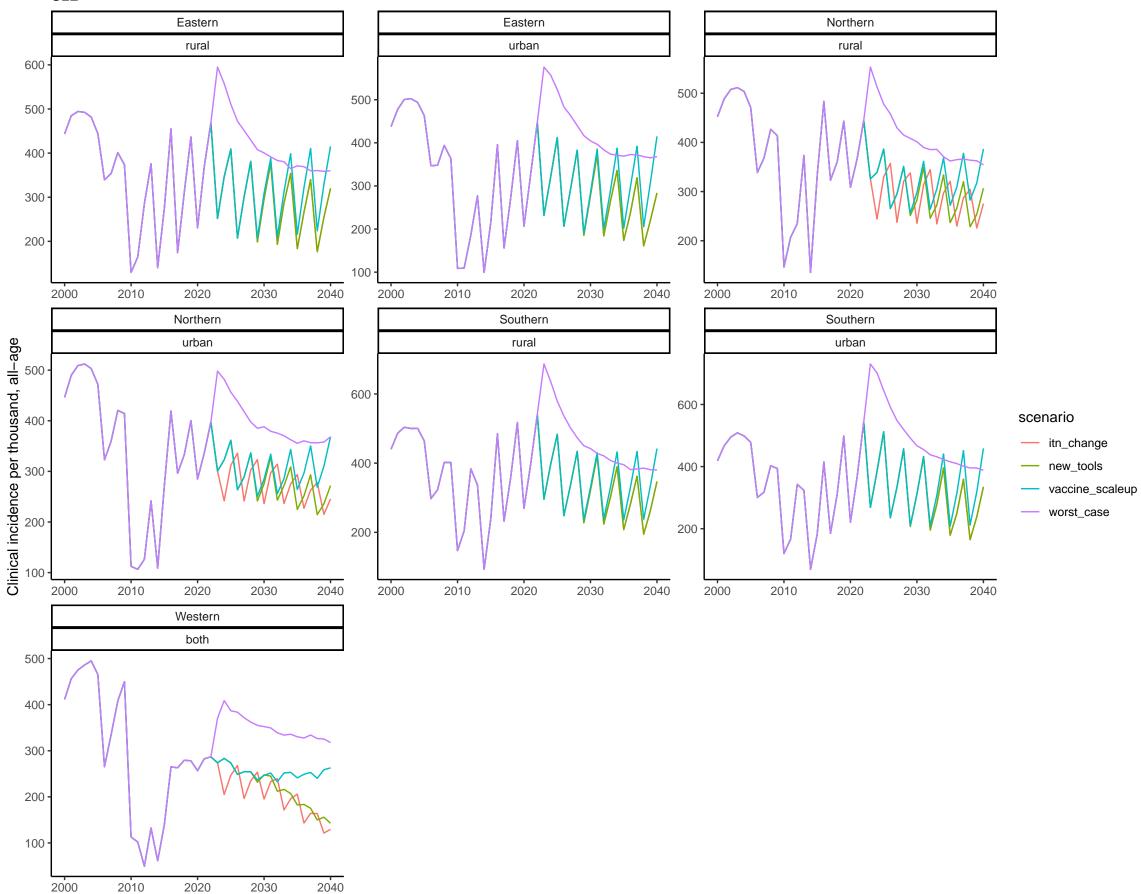
All-age clinical incidence over time by scenario SEN



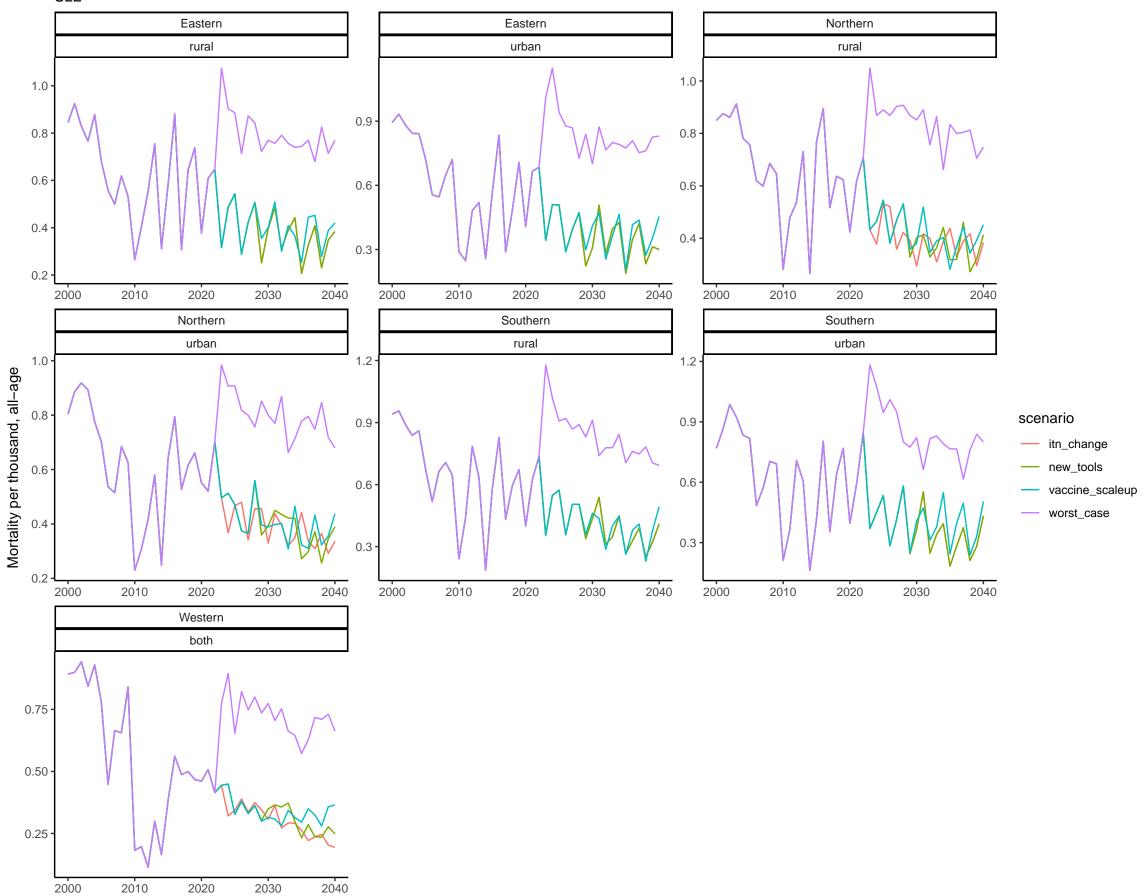
All-age mortality over time by scenario SEN



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 Bay Bakool Bari Awdal Banaadir both rural rural rural rural 300 200 150 150 200 200 200 100 100 100 100 50 50 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 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 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 new\_tools Mudug Shabeellaha Dhexe Nugaal Sanaag Shabeellaha Hoose vaccine\_scaleup rural rural rural both both 250 worst\_case 200 150 200 200 150 150 100 150 100 100 100 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 Sool Togdheer Woqooyi Galbeed 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 Awdal Bakool Banaadir Bari Bay 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 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 0.25 0.25 0.25 0.2 scenario 2000 2010 2020 2000 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 itn\_change new\_tools Sanaag Shabeellaha Dhexe Shabeellaha Hoose Mudug Nugaal vaccine\_scaleup both rural rural rural both worst\_case 0.8 0.6 0.6 0.6 0.6 0.4 0.4 0.4 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 0.6 0.4 0.4 0.2

2020

Year

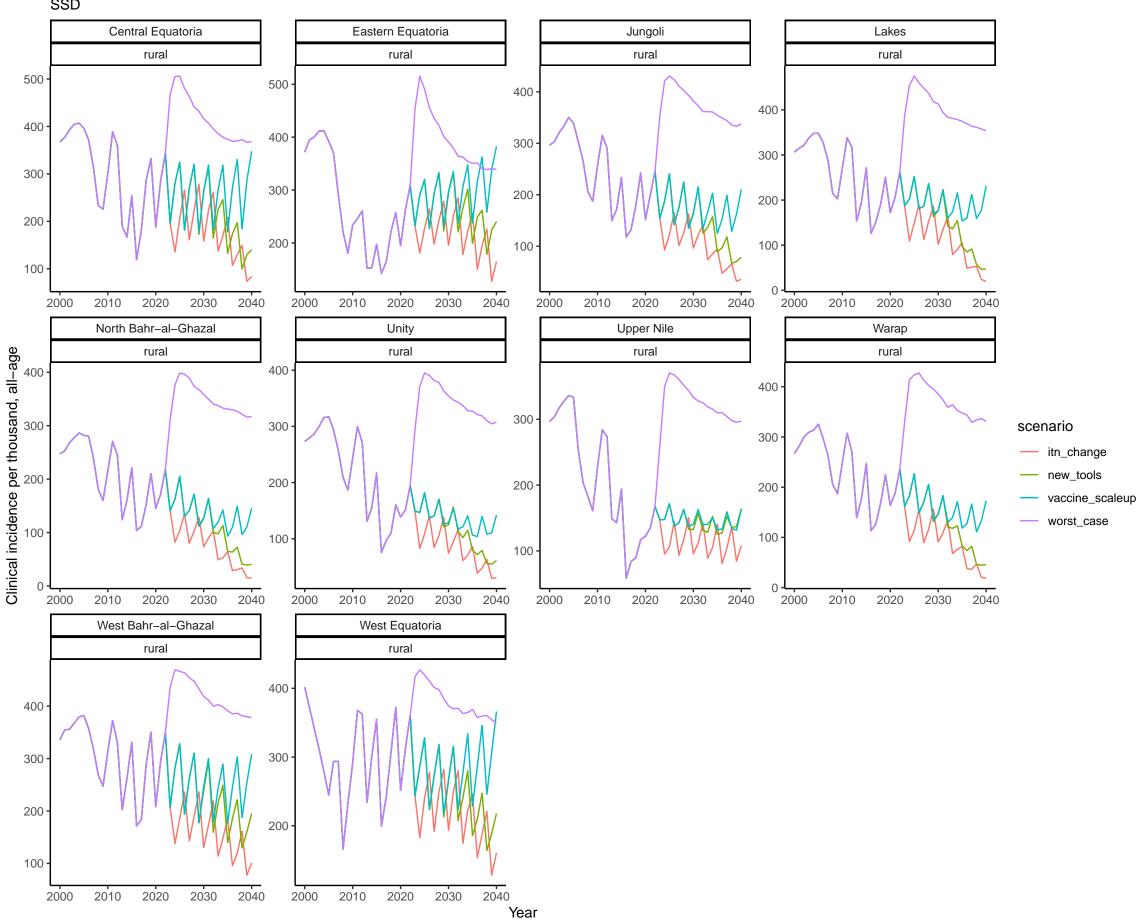
2030 2040

Mortality per thousand, all-age

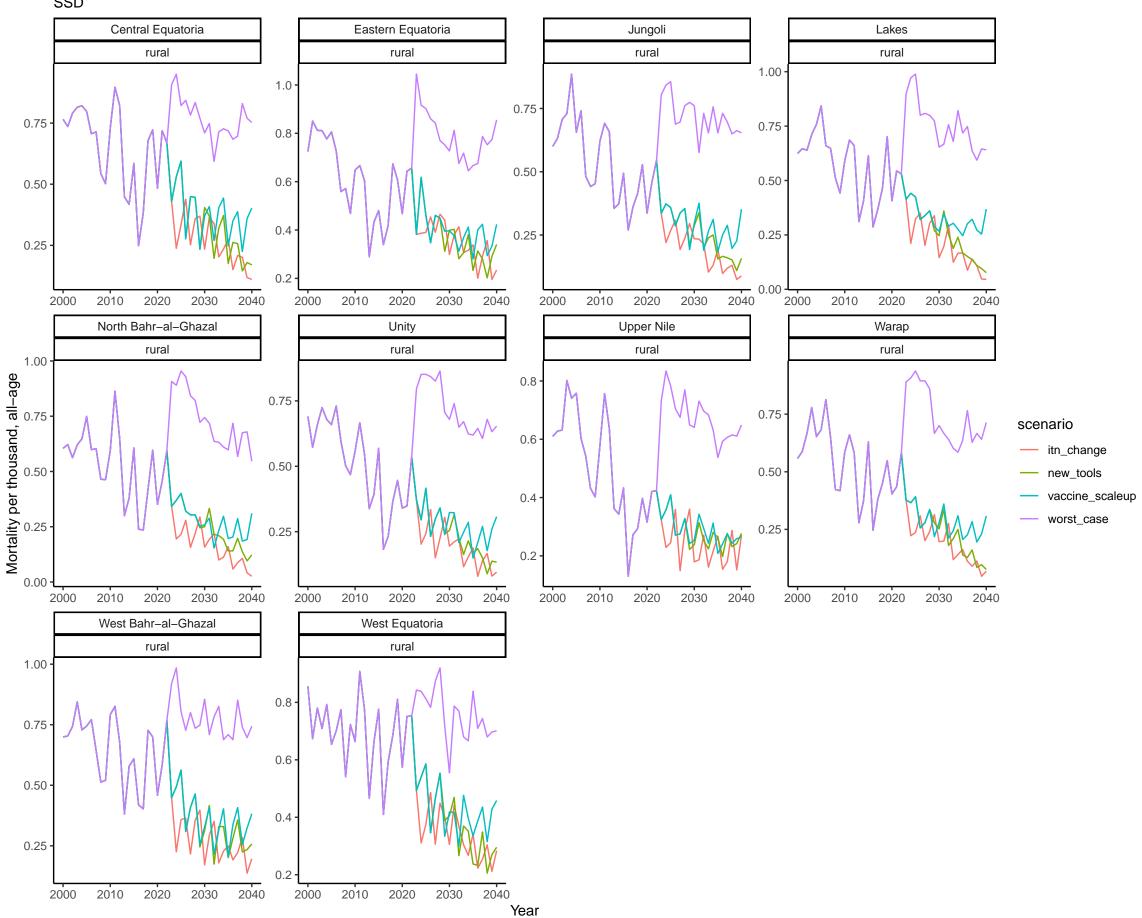
2000 2010 2020 2030 2040

2000 2010 2020

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 2010 2020 2020 2030 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural Clinical incidence per thousand, all-age 2000 2010 2020 2030 2040 2010 2020 Logone Occidental Logone Oriental Mandoul Mayo-Kebbi Est Mayo-Kebbi Ouest rural rural rural rural rural scenario itn\_change new\_tools vaccine\_scaleup worst\_case 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 Moyen-Chari Ouaddai Salamat Sila Tandjile rural rural rural rural rural 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 Ville de N'Djamena Wadi Fira Tibesti rural both rural 2000 2010 2020 2030 2040 2000 2010 2020 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 0.6 0.6 0.75 0.75 0.50 0.50 0.25 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2000 2000 2030 2040 2040 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural 1.00 0.8 1.00 0.6 0.75 0.75 0.6 0.4 0.50 0.50 0.50 0.4 0.2 0.25 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2030 2040 2000 2010 2020 2040 2000 2010 2020 2030 2040 Mortality per thousand, all-age Logone Occidental Logone Oriental Mandoul Mayo-Kebbi Est Mayo-Kebbi Ouest rural rural rural rural rural scenario 0.8 1.00 0.75 0.75 itn\_change 0.75 0.50 0.50 new\_tools 0.50 vaccine\_scaleup 0.25 worst\_case 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 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 1.00 0.8 0.6 0.4 0.75 0.50 0.2

2020

Year

2030 2040

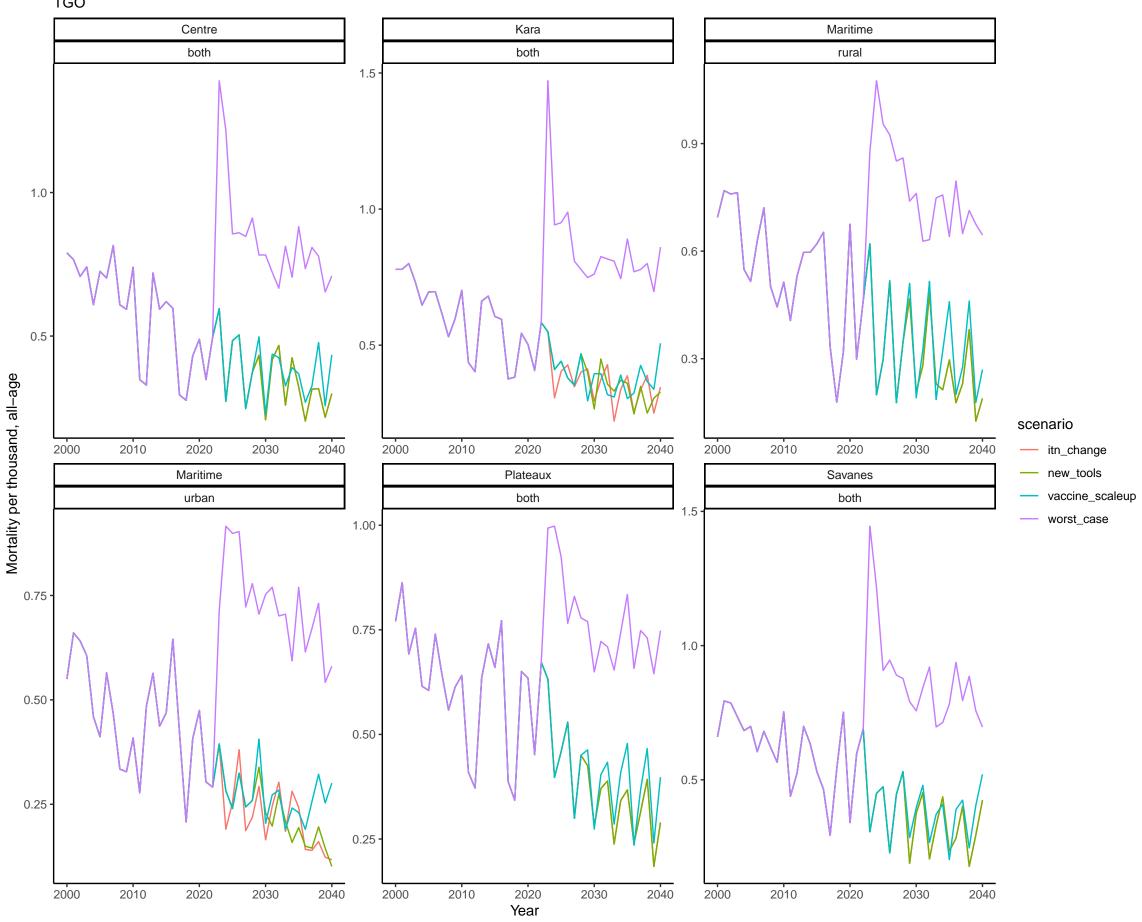
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2010 2020 2030 2040

2000 2010 2020

Year

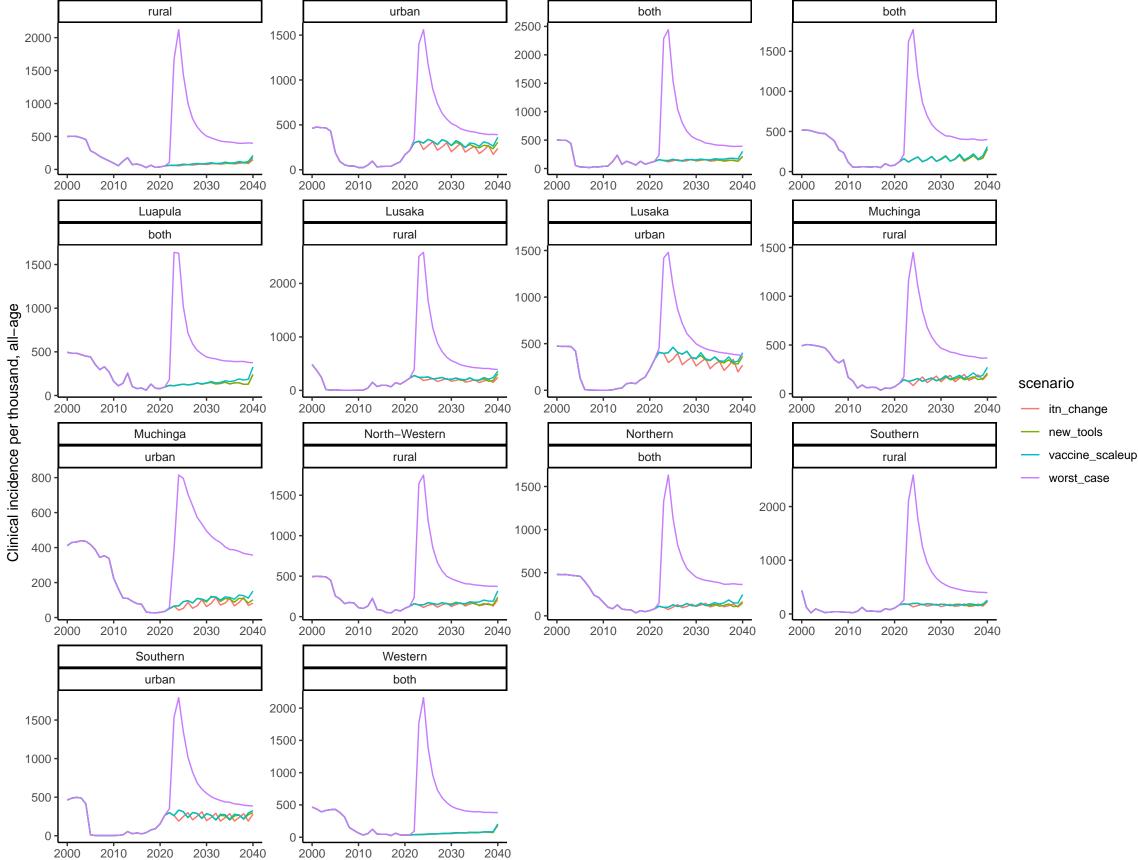
All-age mortality over time by scenario TGO



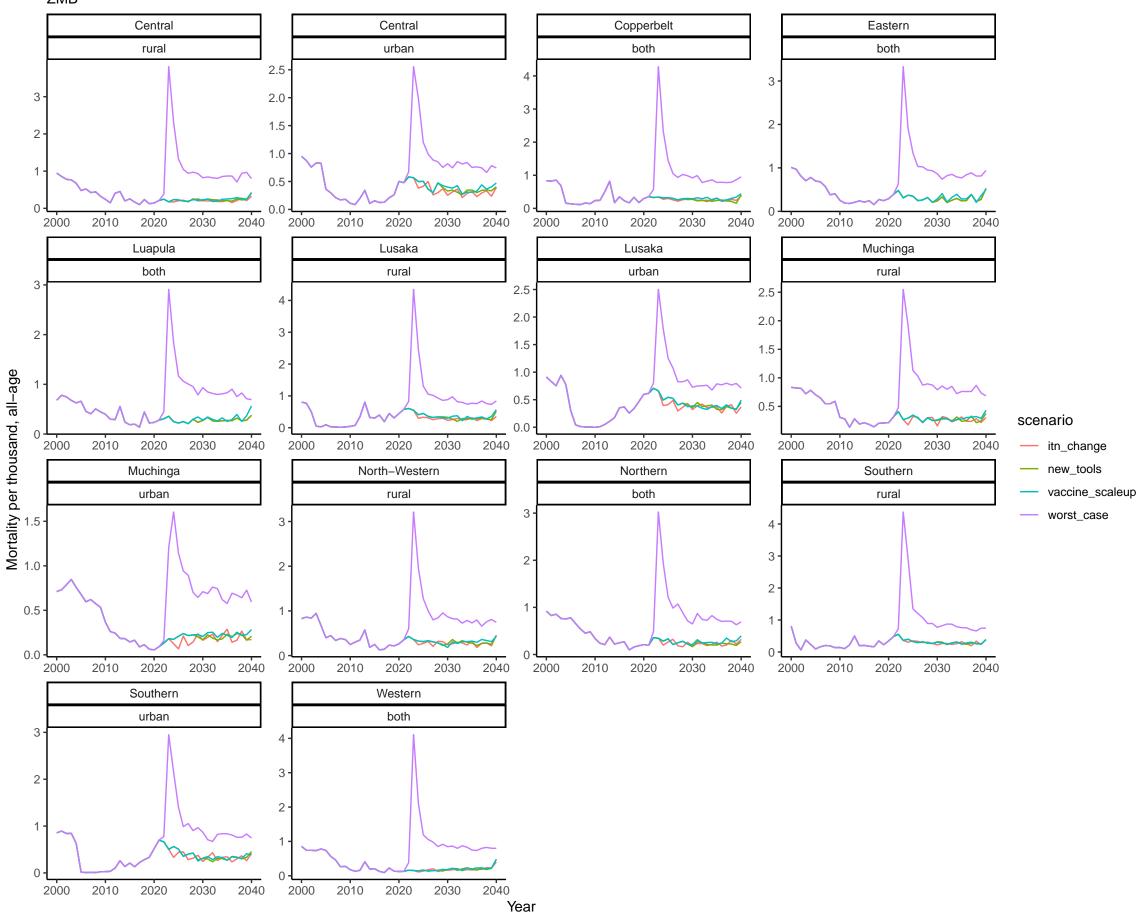
2000 2010 2020 2030 2040

2000 2010 2020 2030 2040

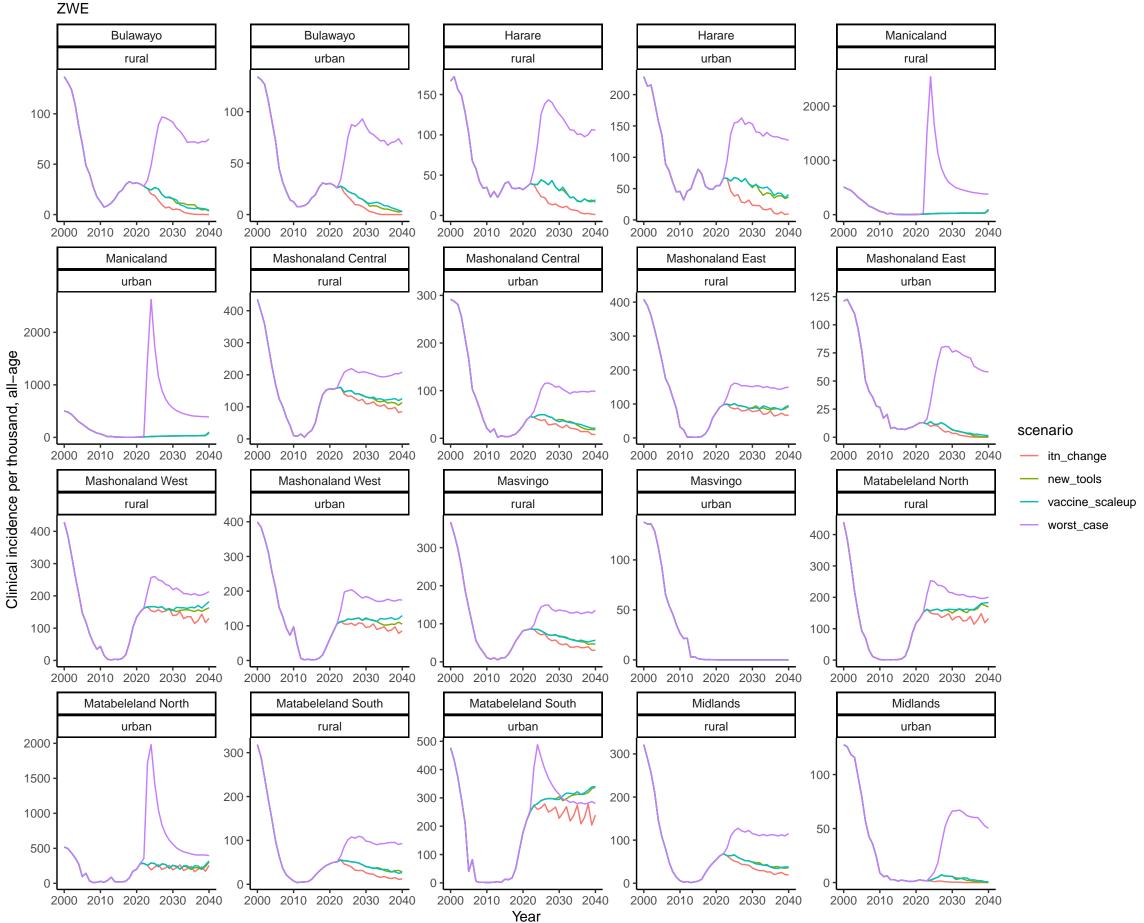
All-age clinical incidence over time by scenario **ZMB** Central Copperbelt Eastern Central urban both both rural 2500 1500 1500 2000 1000 1500 1000 1000 500 500



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

