All-age clinical incidence over time by scenario AGO Bengo Bie Cabinda Cuando Cubango Benguela both both both both both 400 300 300 300 300 200 200 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Cuanza Norte Cuanza Sul Cunene Huambo Huila both both both both both 300 200 300 300 200 150 200 Clinical incidence per thousand, all-age 200 100 100 100 50 scenario 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2040 2000 2030 2040 best_case itn_change Luanda Lunda Norte Lunda Sul Malanje Malanje new_tools both both both urban rural 400 400 vaccine_scaleup 300 300 300 300 200 200 200 100 100 100 100 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 Namibe Zaire Moxico Uige Uige rural both urban both rural 400 300 400 300 200 300 300 200 200 200 200 100 100 100 2000 2010 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2020 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario AGO Bengo Bie Cabinda Cuando Cubango Benguela both both both both both 0.8 0.8 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.4 0.2 0.2 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 Cuanza Norte Cuanza Sul Cunene Huambo Huila both both both both both 0.5 0.6 0.6 0.6 0.4 0.4 0.4 0.3 0.4 Mortality per thousand, all-age 0.2 0.1 scenario 0.0 2010 2020 2000 2010 2000 2010 2000 2010 2020 2030 2040 2000 2030 2040 2000 2010 2020 2030 2040 2020 2030 2040 2020 2030 2040 best_case Lunda Norte Lunda Sul itn_change Luanda Malanje Malanje new_tools both both both rural urban 8.0 vaccine_scaleup 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 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2040 Zaire Moxico Namibe Uige Uige rural both rural urban both 0.8 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.4 0.2 0.2

2000

2030 2040

2000 2010 2020

2030 2040

2000 2010

2030

2040

2000 2010 2020 2030

2040

2000 2010

2020

2030

2020

All-age clinical incidence over time by scenario BDI Bubanza Bujumbura Mairie Bujumbura Rural Cankuzo Bururi both both both both both 400 400 300 300 300 300 300 200 200 200 200 200 100 100 100 100 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 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 400 300 300 400 300 300 Clinical incidence per thousand, all-age 200 200 200 200 100 100 100 scenario 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2040 best_case itn_change Makamba Ngozi Muramvya Muyinga Mwaro new_tools both both both both both 400 400 250 vaccine_scaleup 300 200 300 300 200 150 200 200 100 100 100 50 100 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 400 300 300 200 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario BDI Bujumbura Mairie Bubanza Bujumbura Rural Cankuzo Bururi both both both both both 0.8 8.0 0.6 0.75 0.6 0.6 0.6 0.4 0.50 0.4 0.4 0.4 0.25 0.2 0.2 0.00 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 Cibitoke Gitega Karuzi Kayanza Kirundo both both both both both 0.8 0.8 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.4 Mortality per thousand, all-age 0.2 0.2 0.2 scenario 2000 2010 2020 2000 2010 2020 2000 2010 2010 2020 2030 2040 2030 2040 2000 2010 2020 2030 2040 2030 2020 2000 2030 2040 best_case itn_change Makamba Muramvya Mwaro Ngozi Muyinga new_tools both both both both both 0.8 0.8 vaccine_scaleup 0.6 0.75 0.6 0.6 0.6 0.4 0.50 0.4 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 2010 2020 2030 2000 Rutana Ruyigi both both 8.0 0.6 0.6 0.4 0.2 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Year

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

Year

All-age mortality over time by scenario BEN Alibori Atakora Atlantique Atlantique rural rural rural urban 1.00 0.6 0.6 0.75 0.6 0.4 0.4 0.50 0.4 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 Borgou Borgou Collines Donga rural urban rural rural 8.0 0.6 0.75 0.6 0.6 0.4 0.50 0.4 Mortality per thousand, all-age 0.2 0.25 scenario 0.0 2030 2000 2000 2010 2020 2030 2010 2010 2010 2020 2030 2040 2000 2040 2000 2020 2040 2020 2030 2040 best_case Littoral Kouffo Mono itn_change Oueme new_tools both urban both rural 0.8 vaccine_scaleup 0.6 0.6 0.6 0.4 0.4 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 Plateau Zou Oueme Zou urban both rural urban 8.0 0.8 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 0.2

2000

2020

2030

2040

2010

2000

2020

2030

2040

Year

2010

2000

2020

2030

2040

2000

2010

2020

2030

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

All-age mortality over time by scenario BFA Boucle du Mouhoun Centre-Est Cascades Centre both rural rural both 1.00 0.8 8.0 0.6 0.75 0.6 0.6 0.4 0.50 0.4 0.4 0.2 0.25 0.2 0.2 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 8.0 0.75 0.75 0.75 0.6 0.50 0.50 0.50 Mortality per thousand, all-age 0.4 0.25 0.25 0.25 0.2 scenario 2010 2020 2010 2020 2030 2010 2030 2010 2020 2000 2030 2040 2000 2040 2000 2020 2040 2000 2030 2040 best_case Haut-Bassins Haut-Bassins Nord Plateau-Central itn_change new_tools urban both rural rural 0.8 0.8 vaccine_scaleup 8.0 0.75 0.6 0.6 0.6 0.4 0.50 0.4 0.4 0.2 0.25 0.2 0.2 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Sahel Sud-Ouest rural rural 0.75 0.6 0.50 0.4 0.25 2010 2040 2010 2020 2030 2040 2000 2020 2030 2000 Year

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

All-age mortality over time by scenario **BWA** Central Chobe Francistown Francistown rural rural rural urban 0.20 0.8 0.6 0.3 0.15 0.6 0.2 0.4 0.10 0.4 0.1 -0.2 0.05 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Ghanzi Kgalagadi Kgatleng Kweneng rural rural rural rural 0.5 0.4 0.6 0.4 0.4 0.3 0.4 0.3 0.2 Mortality per thousand, all-age 0.2 0.2 0.1 0.1 scenario 0.0 2030 2030 2040 2010 2020 2040 2010 2020 2030 2010 2020 2030 2040 2000 2010 2020 2000 2000 2000 2040 best_case North-East North-West Selibe Phikwe Selibe Phikwe — itn_change new_tools rural rural urban rural 0.5 vaccine_scaleup 0.4 -0.4 0.75 0.3 0.3 0.50 0.2 -0.2 0.2 0.25 0.1 0.1 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2040 2000 2030 Sowa rural 0.4 0.2

0.0

2000

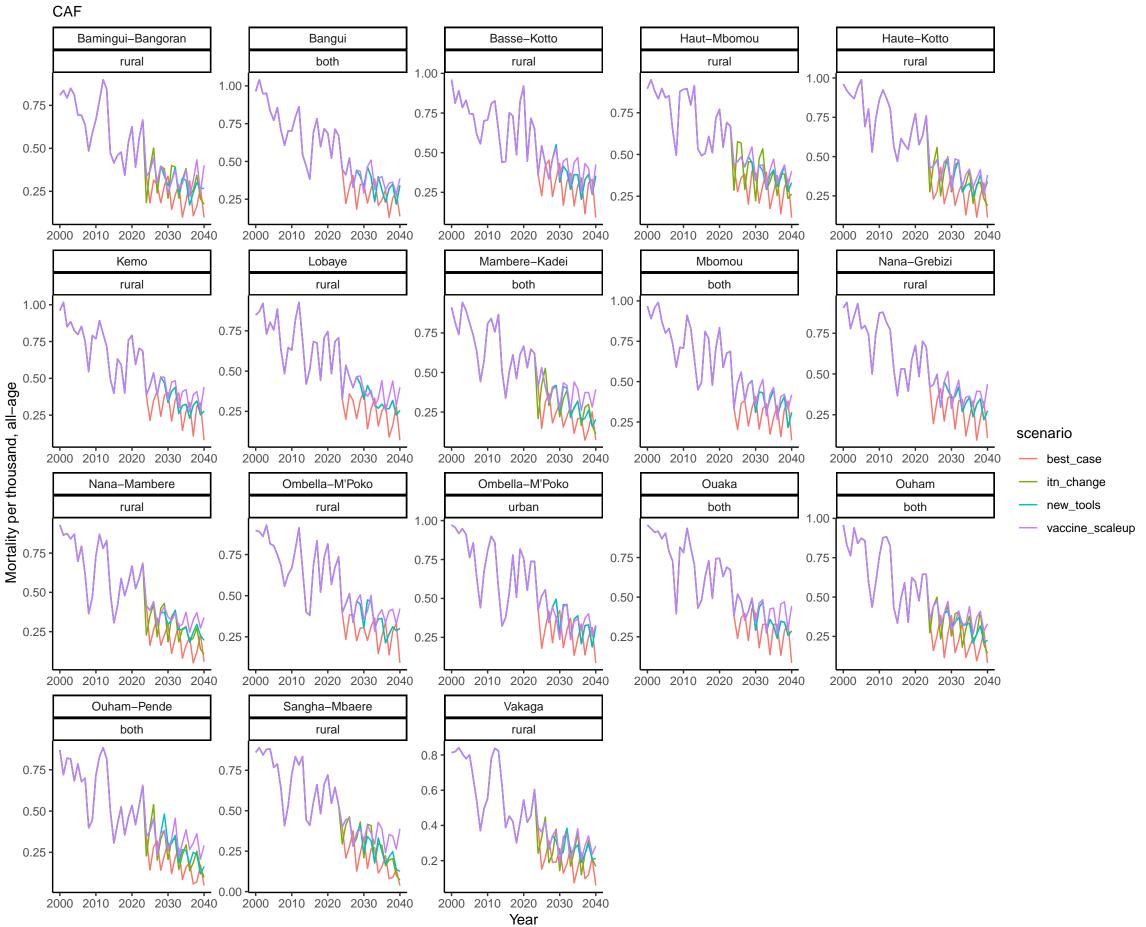
2010

2020

2040

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

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 2000 2010 2020 2030 2040 Denguele Goh-Djiboua Goh-Djiboua Lacs Lagunes both rural urban both rural Clinical incidence per thousand, all-age 2000 2010 2020 2030 2040 Lagunes Montagnes Montagnes Sassandra-Marahoue Sassandra-Marahoue urban urban urban rural rural scenario best_case itn_change new_tools vaccine_scaleup 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2030 2040 Vallee du Bandama Savanes Savanes Vallee du Bandama Woroba rural urban rural urban both 2010 2020 2030 2040 2010 2020 2010 2020 2030 2040 2000 2010 2030 2040 Yamoussoukro Yamoussoukro Zanzan Zanzan rural urban urban rural 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Year

All-age mortality over time by scenario CIV Bas-Sassandra Bas-Sassandra Abidjan Comoe Comoe both rural urban rural urban 8.0 0.8 8.0 0.6 0.75 0.6 0.6 0.6 0.4 0.50 0.4 0.4 0.2 0.25 0.2 2000 2010 2020 2030 2000 2010 2020 2030 2000 2010 2020 2000 2010 2020 2000 2010 2020 2030 2040 2040 2030 2040 2030 2040 2040 Denguele Goh-Djiboua Goh-Djiboua Lacs Lagunes both rural urban both rural 0.8 0.75 0.75 0.6 0.6 0.6 0.50 0.50 0.25 0.25 2010 2020 2000 2010 2020 2030 2010 2020 2000 2010 2000 2010 2020 2000 2030 2040 2040 2000 2030 2040 2020 2030 2040 2030 Mortality per thousand, all-age Lagunes Montagnes Montagnes Sassandra-Marahoue Sassandra-Marahoue urban urban urban rural rural scenario 0.8 8.0 8.0 8.0 0.6 best_case 0.6 0.6 0.6 0.6 itn_change 0.4 0.4 0.4 new_tools 0.2 vaccine_scaleup 2000 2010 2020 2010 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2020 2030 2040 Vallee du Bandama Savanes Savanes Vallee du Bandama Woroba both rural urban rural urban 0.8 0.8 8.0 0.75 0.75 0.6 0.6 0.50 0.50 0.25 0.25 2010 2020 2030 2040 2000 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Zanzan Yamoussoukro Yamoussoukro Zanzan urban urban rural rural 0.8 8.0 0.8 0.7 0.6 0.6 0.6 0.5 0.4 0.4 0.4 0.2 2010 2000 2010 2020 2030 2040 2020 2030 2010 2020 2030 2000 2010 2020 2030 2040 2000 2040 2000 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 Nord-Ouest Nord-Ouest itn_change Ouest Sud new_tools urban rural both rural vaccine_scaleup Sud-Ouest both

All-age mortality over time by scenario CMR Adamaoua Centre Centre Est rural rural urban rural 0.8 0.6 0.6 0.6 0.6 0.4 0.2 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Extreme-Nord Littoral Littoral Nord both rural urban both 0.8 0.6 0.6 0.6 0.6 0.4 0.4 Mortality per thousand, all-age 0.2 scenario 2000 2010 2020 2010 2020 2030 2000 2010 2020 2040 2000 2010 2020 2030 2040 2000 2040 2030 2030 2040 best_case Nord-Ouest Nord-Ouest Ouest Sud itn_change new_tools rural urban both rural 0.8 vaccine_scaleup 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 Sud-Ouest both 8.0 0.6 0.4

0.2 -

2000

2010

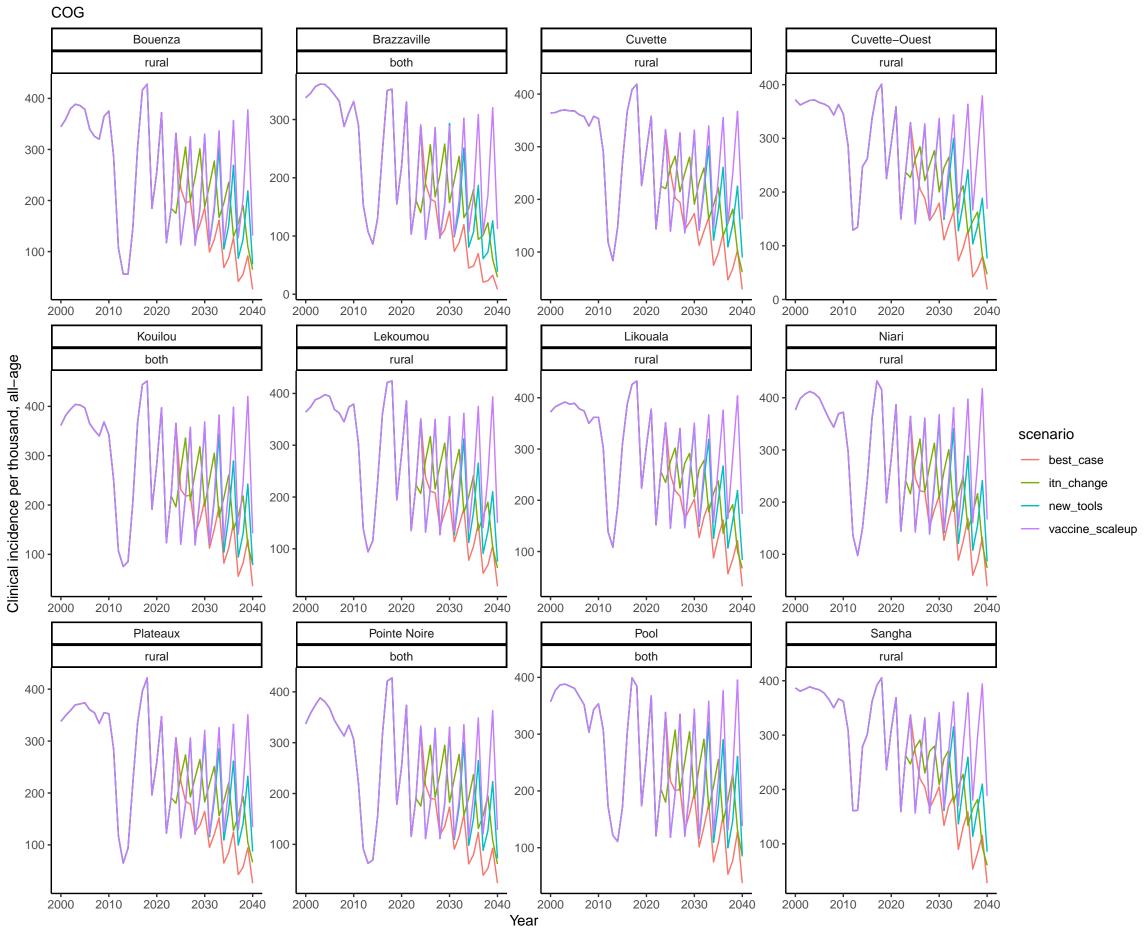
2030

2020

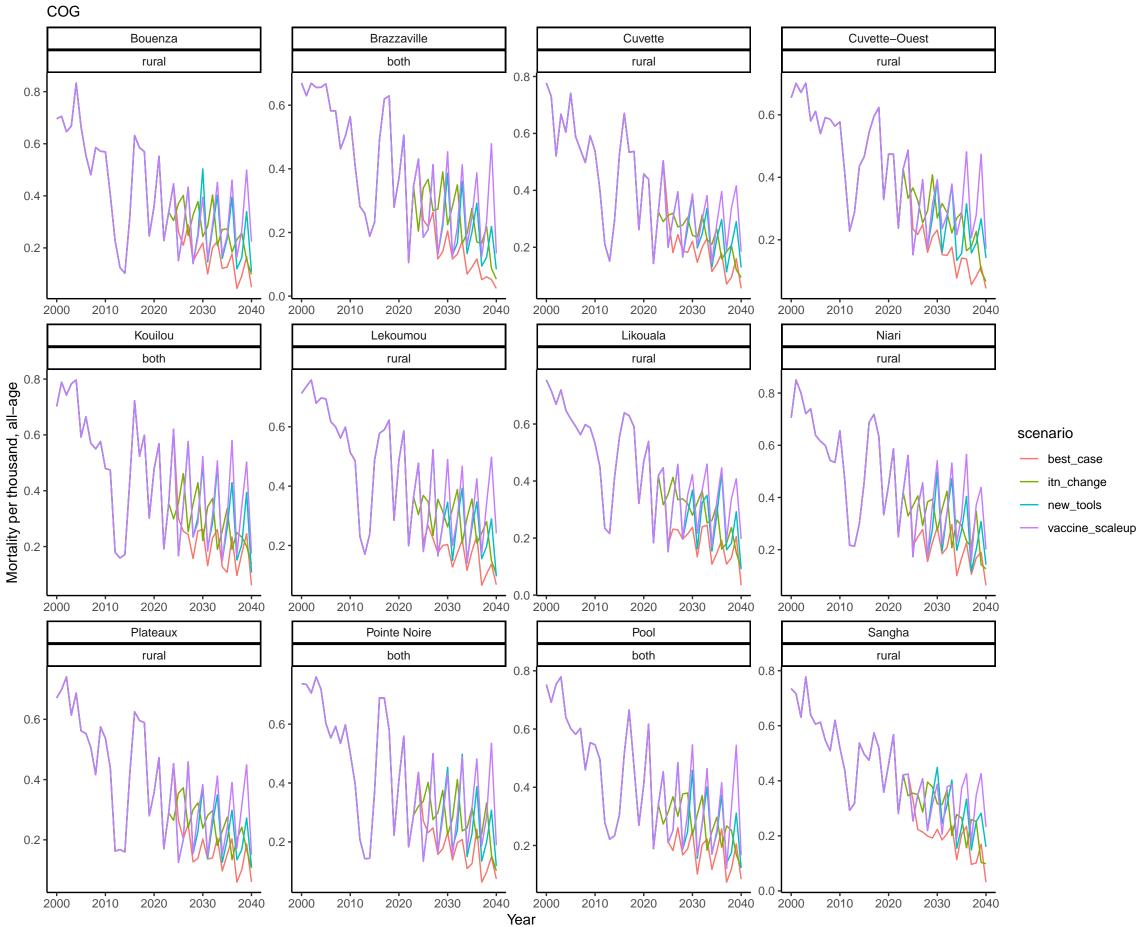
All-age clinical incidence over time by scenario COD Bas-Uele Haut-Katanga Equateur Equateur Haut-Katanga Haut-Lomami rural urban rural urban both rural 400 400 300 300 300 300 300 300 200 200 200 200 200 200 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010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

All-age mortality over time by scenario COD Bas-Uele Equateur Haut-Katanga Haut-Katanga Equateur Haut-Lomami rural rural urban rural urban both 0.8 0.8 0.75 0.6 0.75 0.6 0.6 0.6 0.50 0.4 0.4 0.50 0.4 0.2 0.2 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 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kasai-Central Haut-Uele Kasai Kasai-Oriental Kasai-Oriental Ituri both both both both urban rural 0.8 0.8 0.8 0.75 0.75 0.75 0.6 0.6 0.6 0.50 0.50 0.50 0.4 0.4 0.25 0.25 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 2000 2010 2020 2030 2040 Kongo-Central Kongo-Central Kwilu Kwilu Kinshasa Kwango both rural urban rural rural urban 0.8 0.8 0.8 0.8 Mortality per thousand, all-age 0.75 0.50 0.25 0.50 0.50 0.50 0.25 0.75 0.6 0.6 0.6 0.6 0.50 0.4 0.4 0.4 0.4 0.2 0.2 scenario 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 best_case itn_change Lomami Lualaba Mai-Ndombe Maniema Maniema Mongala new_tools both both rural rural rural urban 0.8 0.8 0.8 0.8 0.8 vaccine_scaleup 0.6 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 2000 2010 2020 2030 2040 Nord-Kivu Nord-Ubangi Sankuru Sud-Kivu Sud-Kivu Sud-Ubangi both both rural rural urban both 0.8 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.4 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 2000 2010 2020 2030 2040 Tshopo Tanganyika Tshopo Tshuapa both rural urban rural 0.8 0.8 0.75 0.6 0.6 0.6 0.50 0.4 0.4 0.4 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** Anseba Debub Debub Anseba rural urban rural urban 25 -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 Maekel Semenawi Keyih Bahri Semenawi Keyih Bahri urban urban rural 150 -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 best_case itn_change new_tools vaccine_scaleup uthern Nations, Nationalities and Peopl Somali Tigray both both both Year

2000

Year

2010

2020

2010

2020

2030

2000

2040

2010

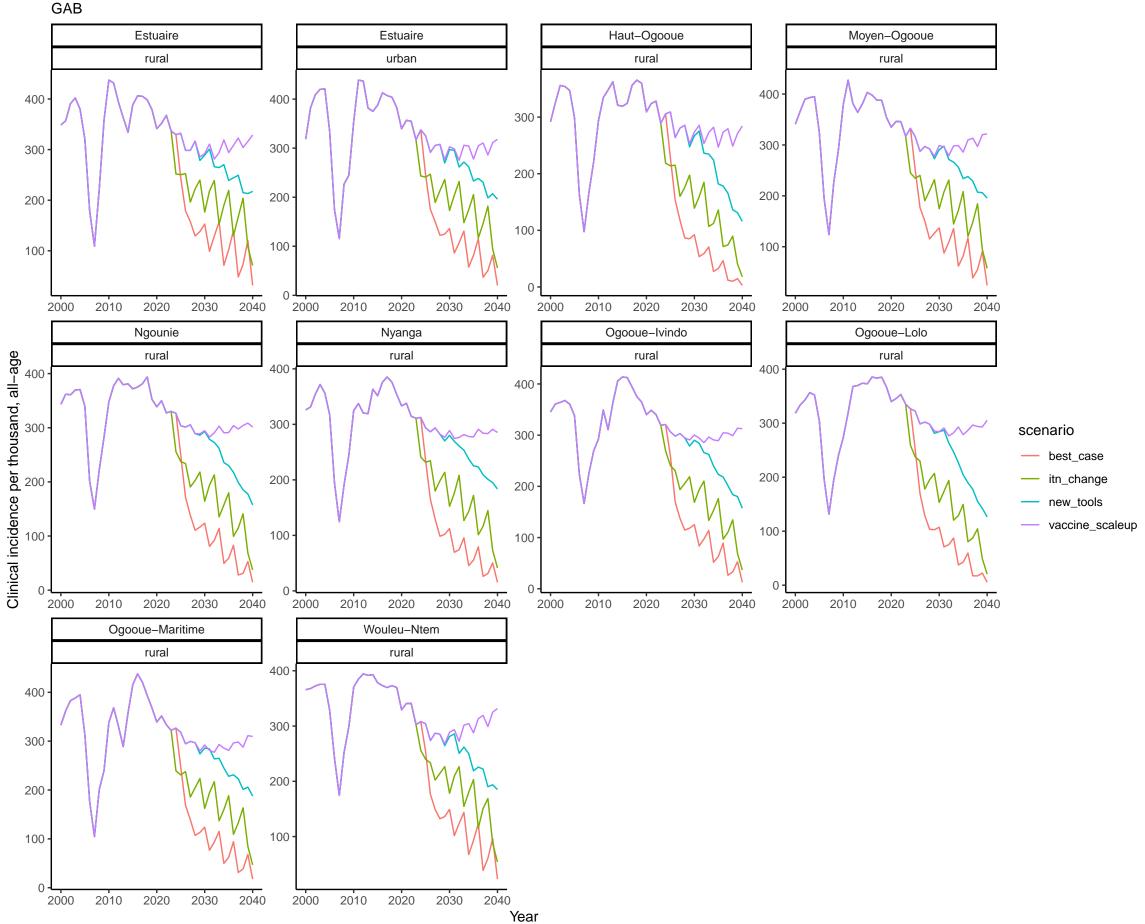
2000

2020

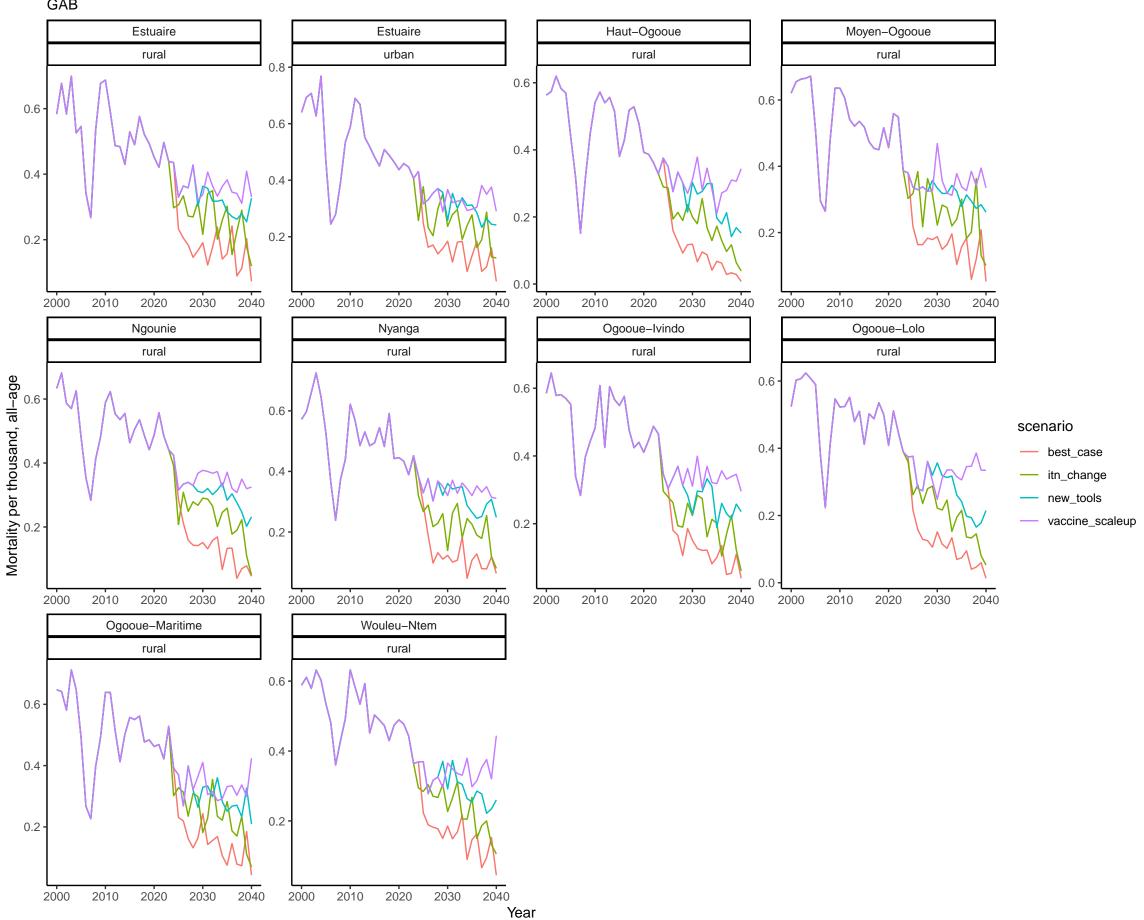
2030

2040

All-age clinical incidence over time by scenario GAB Estuaire



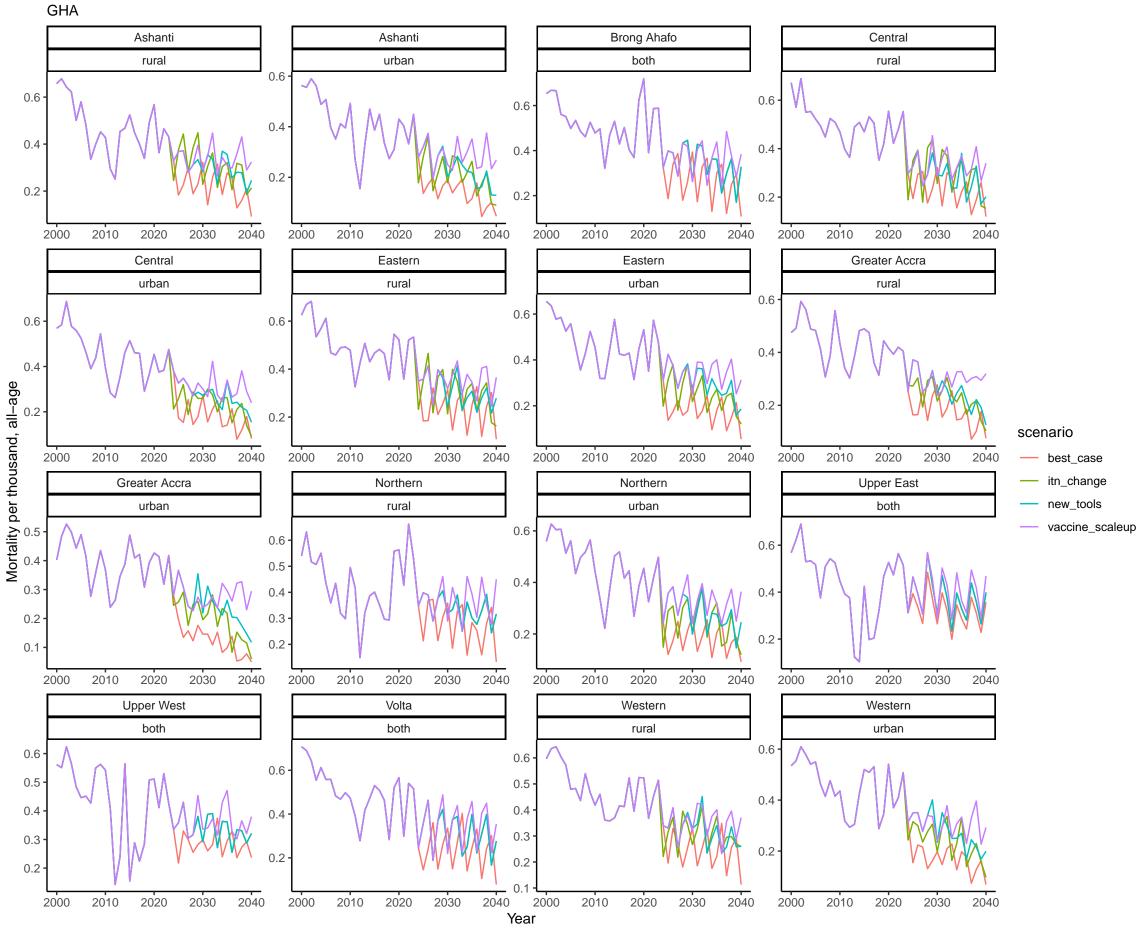
All-age mortality over time by scenario GAB



All-age clinical incidence over time by scenario GHA Ashanti Ashanti Brong Ahafo Central urban both rural rural Central Eastern Eastern Greater Accra urban rural urban rural Clinical incidence per thousand, all-age scenario best_case Upper East itn_change Greater Accra Northern Northern new_tools both urban rural urban vaccine_scaleup **Upper West** Volta Western Western both both rural urban

Year

All-age mortality over time by scenario GHA



All-age clinical incidence over time by scenario GIN Conakry Boke Faranah Kankan both both both both Kindia Kindia Labe Mamou Clinical incidence per thousand, all-age urban both both rural scenario best_case itn_change new_tools vaccine_scaleup Nzerekore Nzerekore urban rural

All-age mortality over time by scenario GIN Conakry Faranah Boke Kankan both both both both 0.8 0.8 0.6 0.75 0.6 0.6 0.4 0.50 0.25 0.2 2020 2010 2020 2010 2020 2010 2010 2000 2030 2040 2000 2030 2040 2000 2020 2030 2040 2000 2030 2040 Kindia Kindia Labe Mamou urban both both rural 8.0 0.8 0.8 scenario 0.6 0.6 0.6 0.6 best_case itn_change 0.4 0.4 0.4 new_tools vaccine_scaleup 0.2 0.2 2040 2040 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 Nzerekore Nzerekore rural urban 0.8 0.8 0.6 0.6 0.4 0.4 0.2 0.2

Year

2020

2010

2030

Mortality per thousand, all-age

2000

2020

2010

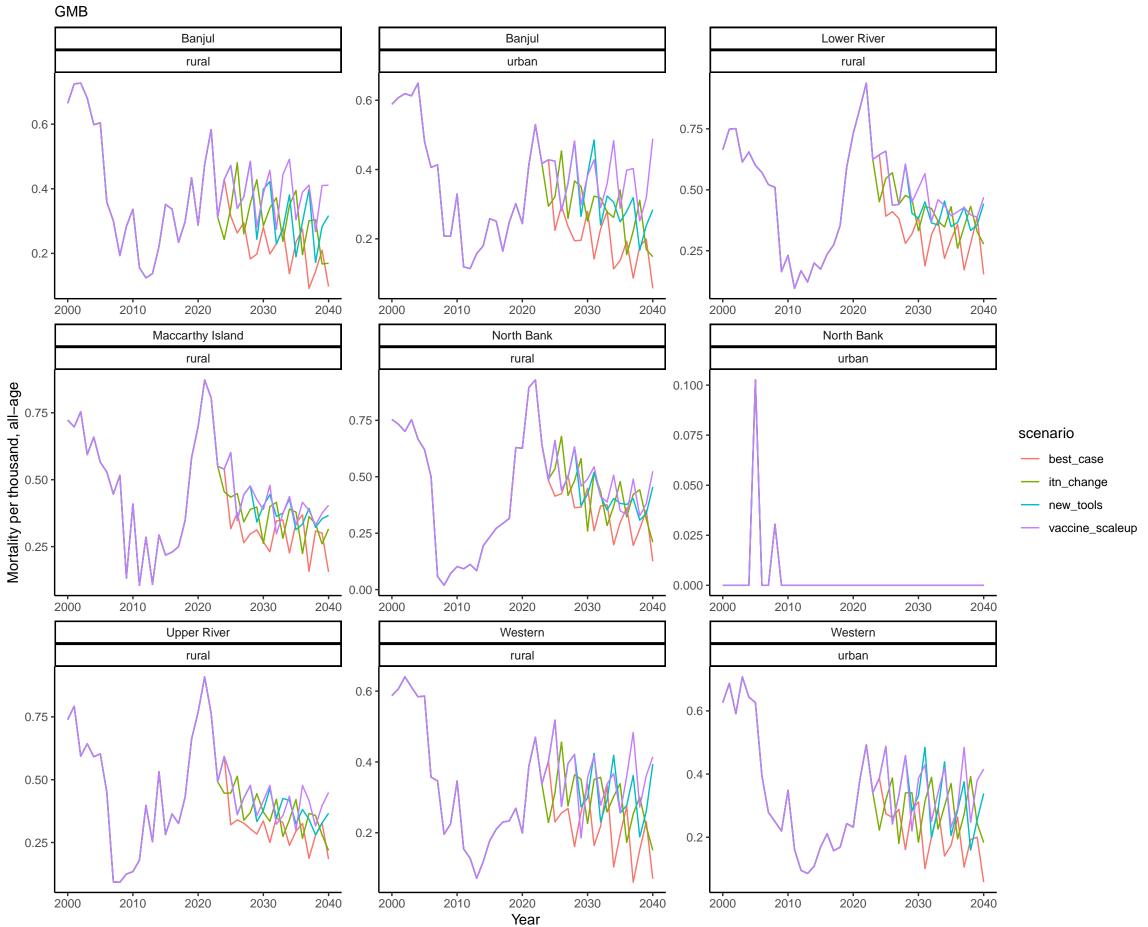
2030

2040

All-age clinical incidence over time by scenario **GMB** Banjul Banjul Lower River rural urban rural Maccarthy Island North Bank North Bank Clinical incidence per thousand, all-age urban rural rural scenario best_case itn_change new_tools vaccine_scaleup Upper River Western Western urban rural rural

Year

All-age mortality over time by scenario GMB



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

Year

All-age mortality over time by scenario GNB Bafata Biombo Bissau both rural both 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 0.2 0.0 2040 2000 2010 2010 2030 2040 2010 2030 2020 2020 2020 2030 2000 2000 2040 Bolama Cacheu Gabu rural rural rural Mortality per thousand, all-age 0.6 0.6 scenario best_case 0.4 0.4 itn_change new_tools vaccine_scaleup 0.2 0.2 2040 2030 2040 2030 2000 2010 2020 2030 2000 2010 2020 2000 2010 2020 2040 Tombali Oio Quinara rural rural rural 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 0.2

2010

2020

2030

2040

2000

2010

2020

Year

2030

2040

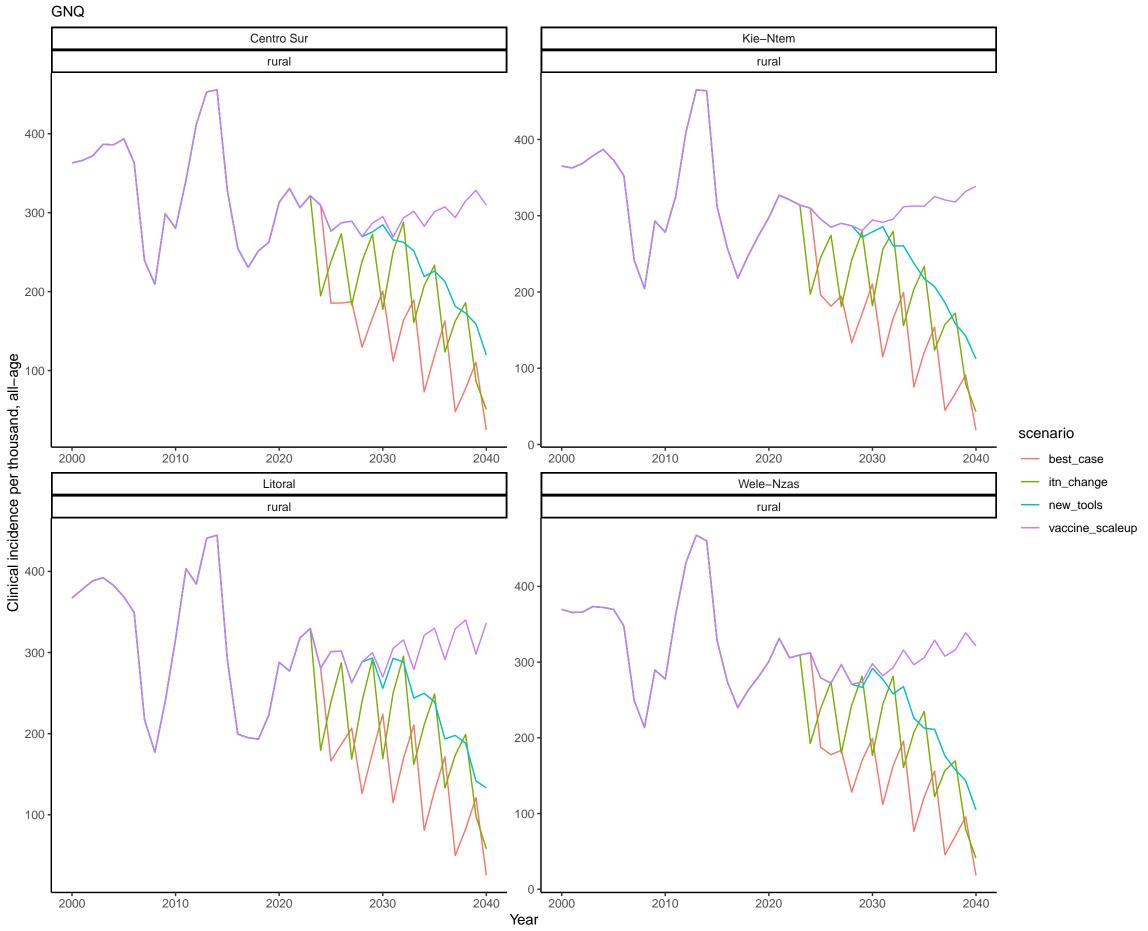
2000

2010

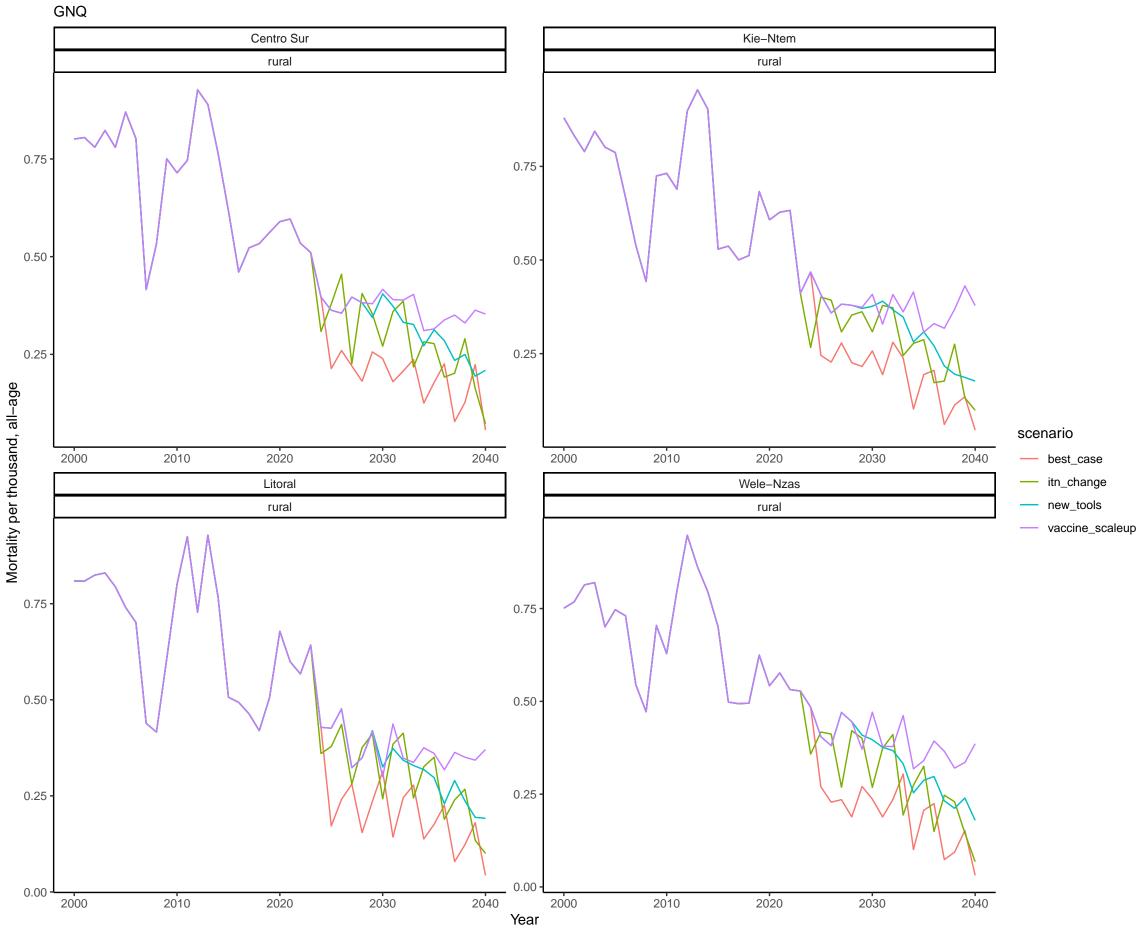
2020

2030

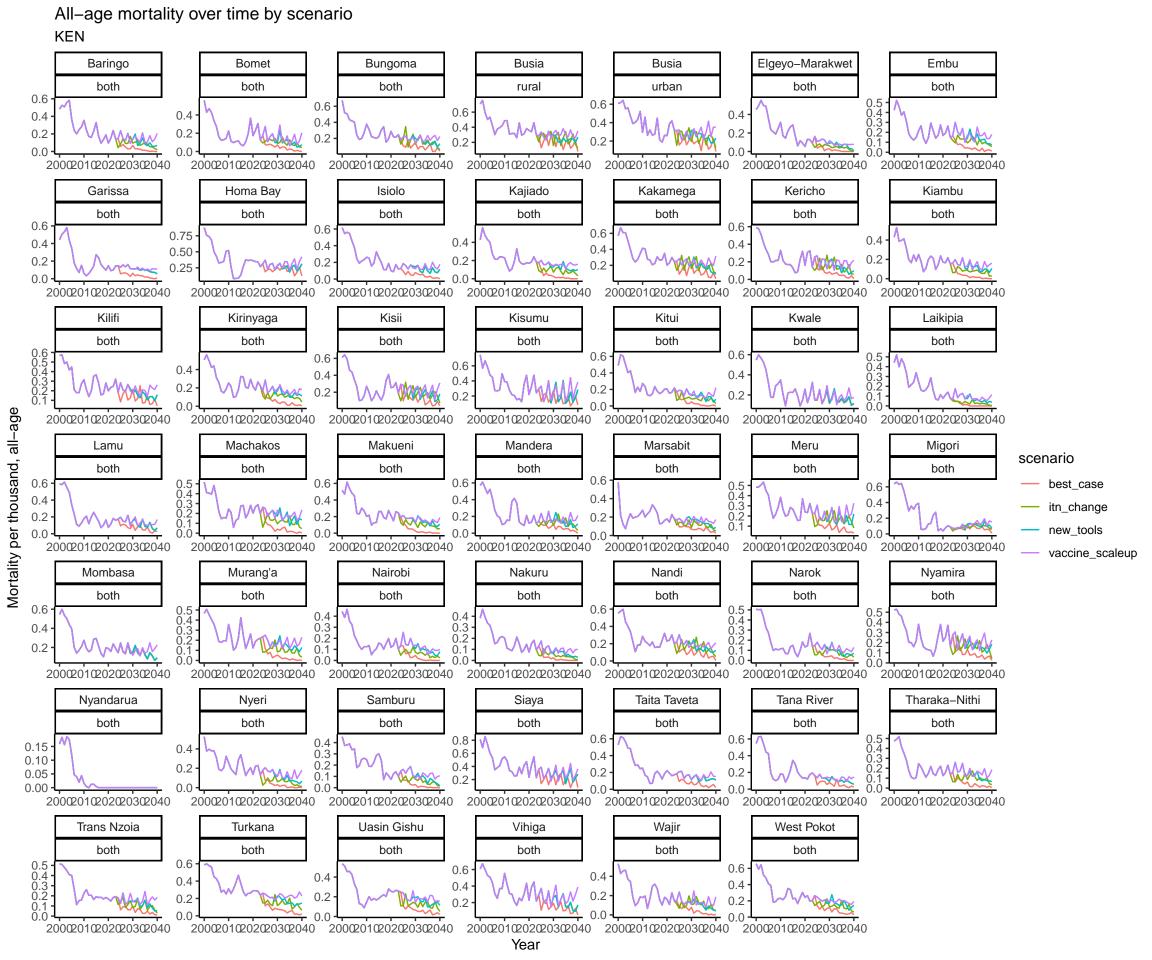
All-age clinical incidence over time by scenario GNQ



All-age mortality over time by scenario GNQ



All-age clinical incidence over time by scenario **KEN** Elgeyo-Marakwet Baringo Busia **Bomet** Bungoma Busia Embu both both both urban both both rural 400 400 200 150 100 50 300 200 150 200 300 300 150 200 100 200 200 100 100 50 100 100 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 Kakamega Kiambu Garissa Homa Bay Isiolo Kajiado Kericho both both both both both both both 250 200 150 100 50 200 300 400 200 150 300 150 150 300 200 200 100 100 200 100 50 100 50 100 200@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 20002010202020302040 Kilifi Kisii Kisumu Kitui Kwale Kirinyaga Laikipia both both both both both both both 150 200 300 300 300 300 150 100 150 100 200 200 200 200 100 Clinical incidence per thousand, all-age 50 50 100 200@01@02@03@040 20002010202020302040 200@01@02@03@040 20002010202020302040 200@01@02@03@040 200@01@02@03@040 20002010202020302040 Machakos Mandera Lamu Makueni Marsabit Meru Migori scenario both both both both both both both 300 400 300 200 200 best_case 200 300 150 200 150 200 200 itn_change 100 100 200 100 100 100 100 100 new_tools 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 vaccine_scaleup Nairobi Nakuru Nandi Narok Nyamira Mombasa Murang'a both both both both both both both 300 200 150 300 300 150 200 150 150 100 100 200 100 200 200 100 50 100 50 20002010202020302040 20002010202020302040 20002010202020302040 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 200 400 200 150 150 20 200 300 200 150 100 100 100 200 10 100 50 50 50 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 Trans Nzoia Turkana Uasin Gishu West Pokot Vihiga Wajir both both both both both both 400 300 300 200 300 300 150 200 200 200 200 200 100 100 100 100 100 200@01@02@03@040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 20002010202020302040 Year



All-age clinical incidence over time by scenario LBR Bomi Bong Gbapolu **Grand Bassa Grand Bassa** urban both rural rural rural 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 400 400 400 400 400 300 300 300 300 Clinical incidence per thousand, all-age 200 200 200 200 100 100 100 scenario 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 best_case itn_change Maryland River Gee Margibi Montserrado Nimba new_tools urban rural both rural rural vaccine_scaleup 400 400 400 400 300 300 300 300 200 200 200 200 100 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 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 Grand Bassa** Bomi Bong Gbapolu **Grand Bassa** both rural urban rural rural 8.0 0.6 0.6 0.6 0.6 0.5 0.6 0.4 0.4 0.3 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 **Grand Cape Mount** Grand Kru **Grand Gedeh** Lofa Margibi rural rural rural rural rural 0.6 0.6 0.6 0.6 0.6 0.5 0.4 0.4 Mortality per thousand, all-age 0.2 scenario 2010 2020 2010 2020 2000 2010 2010 2020 2000 2010 2020 2030 2040 2000 2030 2040 2000 2030 2020 2030 2040 2000 2040 2030 2040 best_case itn_change Margibi Maryland Montserrado Nimba River Gee new_tools urban rural both rural rural vaccine_scaleup 0.6 0.6 0.6 0.6 0.5 0.5 0.4 0.4 0.4 0.3 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 Rivercess Sinoe rural rural 0.6 0.6 0.4 0.2 2010 2020 2000 2010 2020 2030 2040 2000 2030 2040 Year

All-age clinical incidence over time by scenario MDG Antananarivo Antsiranana Fianarantsoa both both both Mahajanga Toamasina Toamasina Clinical incidence per thousand, all-age both urban rural scenario best_case itn_change new_tools vaccine_scaleup Toliary both Year

All-age mortality over time by scenario MDG Antananarivo Antsiranana Fianarantsoa both both both 0.6 0.6 0.6 0.4 0.4 0.4 0.2 0.2 0.2 0.0 2020 2010 2040 2020 2000 2010 2030 2000 2030 2040 2000 2010 2020 2030 2040 Mahajanga Toamasina Toamasina both urban rural 8.0 0.8 Mortality per thousand, all-age 0.6 0.6 scenario best_case itn_change 0.4 0.4 new_tools vaccine_scaleup 0.2 0.2 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Toliary both 0.8 0.6 0.4 0.2

0.0

2000

2010

2020

2030

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

All-age mortality over time by scenario MLI Bamako Kayes Gao Kidal both both both rural 0.9 0.6 8.0 0.6 0.7 0.6 0.4 0.4 0.5 0.4 0.2 0.2 0.3 0.2 2010 2010 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2020 2030 2040 2000 2020 2030 2040 Koulikoro Koulikoro Mopti Mopti urban urban rural rural 1.00 1.00 Mortality per thousand, all-age 0.8 0.6 scenario 0.75 best_case 0.6 itn_change 0.4 0.50 new_tools vaccine_scaleup 0.25 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2040 2000 Sikasso Timbuktu Segou both both both 0.8 0.8 0.75 0.6 0.6 0.50 0.4 0.4 0.2 0.25 2040 2040 2000 2010 2030 2040 2030 2000 2010 2020 2020 2000 2010 2020 2030 Year

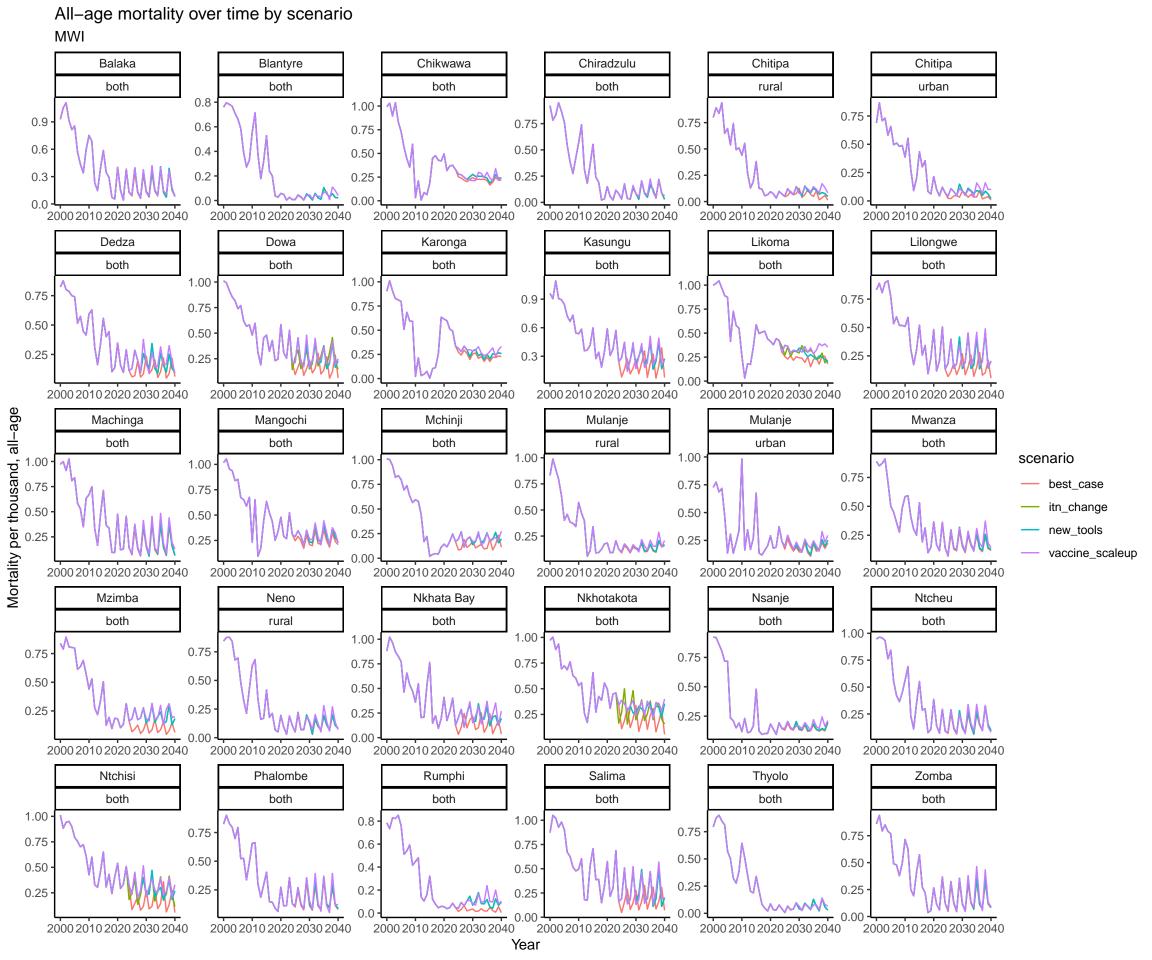
All-age clinical incidence over time by scenario MOZ Cabo Delgado Cabo Delgado Gaza Inhambane Manica urban both both both rural 400 400 400 400 400 300 300 300 300 300 200 200 200 200 100 100 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 Maputo Maputo City Nampula Nassa Nampula both both rural urban rural 400 400 400 300 300 300 Clinical incidence per thousand, all-age 300 200 300 200 100 200 100 scenario 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2000 2020 2030 2040 best_case itn_change Sofala Tete Nassa Sofala Tete new_tools urban rural urban rural urban 400 400 vaccine_scaleup 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 2010 2020 2030 2040 2040 2000 Zambezia Zambezia rural urban 400 400 300 300 200 200 100 100 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 both rural 1.00 0.8 0.75 0.75 -8.0 0.75 0.6 0.50 0.6 0.50 0.50 0.4 0.4 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 Maputo City Maputo Nampula Nampula Nassa both both rural urban rural 1.00 8.0 0.6 8.0 0.75 0.75 0.6 0.6 0.4 0.50 0.50 Mortality per thousand, all-age 0.4 0.4 0.25 0.25 0.2 scenario 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2000 2010 2020 2030 2040 2020 2030 2040 2000 2010 2020 2030 2040 best_case itn_change Sofala Tete Nassa Sofala Tete new_tools urban rural urban rural urban vaccine_scaleup 8.0 8.0 0.8 0.75 0.6 0.6 0.6 0.50 0.50 0.4 0.4 0.4 0.25 0.2 0.25 0.2 0.00 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2040 Zambezia Zambezia rural urban 0.8 0.6 0.6 0.4 0.4 0.2

Year

2000 2010 2020 2030 2040

All-age clinical incidence over time by scenario MWI Chitipa Balaka Blantyre Chikwawa Chiradzulu Chitipa both both both both rural urban 500 400 500 400 400 300 400 400 300 300 300 300 300 200 200 200 200 200 200 100 100 100 100 100 100 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 2000 2010 2020 2030 2040 Lilongwe Dedza Dowa Karonga Kasungu Likoma both both both both both both 500 500 500 400 400 400 400 400 400 300 300 300 300 300 300 200 200 200 200 200 200 100 100 100 100 100 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 Mulanje Mwanza both both both rural urban both 500 scenario 500 500 400 400 400 400 400 400 best_case 300 300 300 300 300 300 itn_change 200 200 200 200 200 200 new_tools 100 100 100 100 vaccine_scaleup 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 Ntcheu Nsanje both both both both both rural 500 500 400 400 400 400 400 400 300 300 300 300 300 300 200 200 200 200 200 200 100 100 100 100 100 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 2000 2010 2020 2030 2040 Ntchisi Phalombe Rumphi Salima Thyolo Zomba both both both both both both 500 500 400 500 400 400 400 400 400 300 300 300 300 300 300 200 200 200 200 200 200 100 100 100 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 Year



All-age clinical incidence over time by scenario NAM Khomas Erongo Kavango Kavango Kunene rural rural urban rural rural 400 300 400 400 100 300 300 300 200 200 200 200 50 100 100 100 100 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 Ohangwena Omaheke Omusati Kunene Ohangwena urban rural urban rural rural 400 300 400 400 400 300 300 300 300 200 Clinical incidence per thousand, all-age 200 200 200 100 100 100 100 scenario 2010 2020 2030 2040 2000 2010 2020 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2030 2040 2000 2000 best_case itn_change Oshana Oshana Oshikoto Oshikoto Otjozondjupa new_tools rural urban rural urban rural vaccine_scaleup 400 400 400 300 300 300 300 200 200 200 200 100 100 100 100 100 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 Zambezi Zambezi Otjozondjupa urban rural urban 400 400 300 300 300 200 200 200 100 100 100 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2030 2040 2020 Year

All-age mortality over time by scenario NAM Kavango Khomas Kunene Erongo Kavango urban rural rural rural rural 0.5 1.00 0.6 0.6 0.4 0.75 1.0 0.3 0.4 0.4 0.50 0.2 0.5 0.2 0.2 0.25 0.1 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 Kunene Ohangwena Ohangwena Omaheke Omusati urban rural urban rural rural 0.6 0.6 0.75 0.6 1.0 0.4 0.50 0.4 0.4 Mortality per thousand, all-age 0.5 0.2 0.25 0.2 scenario 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2030 2040 2030 2040 2000 best_case itn_change Oshana Oshana Oshikoto Oshikoto Otjozondjupa new_tools rural urban rural urban rural 0.8 1.5 vaccine_scaleup 8.0 0.9 0.6 0.6 1.0 0.6 0.6 0.4 -0.4 0.5 0.3 0.3 0.2 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2040 Otjozondjupa Zambezi Zambezi urban rural urban 0.8 0.6 0.6 1.0 0.4 0.4 0.5 0.2 0.2

2020

Year

2000 2010

2040

2010 2020 2030

2000

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 Zinder Tillabery both both Year

All-age mortality over time by scenario NER Agadez Diffa Dosso rural rural rural 0.6 0.6 0.8 0.4 0.6 0.4 0.2 0.4 0.2 0.2 2040 2010 2020 2030 2010 2020 2000 2040 2040 2020 2000 2000 2030 2010 2030 Niamey Maradi Tahoua both both both Mortality per thousand, all-age 0.8 8.0 scenario 0.6 0.6 best_case itn_change 0.4 0.4 new_tools vaccine_scaleup 0.2 0.2 2040 2030 2000 2010 2020 2030 2040 2000 2010 2020 2040 2000 2010 2020 2030 Tillabery Zinder both both 0.8 0.6 0.6 0.4 0.4 0.2 0.2 2040 2000 2010 2020 2030 2040 2010 2020 2000 2030 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 urban rural 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 Edo Edo Ekiti Ekiti Enugu eral Capital Terri Gombe Enugu rural urban rural urban rural urban both both all age 200 all ag Clinical incidence per thousand, Imo Jigawa Kaduna Kaduna Kano Katsina Kebbi Kogi scenario both both rural urban both both both both best_case itn_change new_tools 200@01@02@03@040 vaccine_scaleup Nassarawa Kwara Kwara Lagos Niger Niger Ogun Ogun urban both both urban rural urban rural rural 200@01@02@03@040 Ondo Plateau Plateau Ondo Osun Osun Oyo Oyo urban rural urban 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 Sokoto Taraba Yobe Zamfara Rivers both both both both both 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 0.8 8.0 0.8 0.6 0.75 0.6 0.6 0.6 0.6 0.6 0.6 0.4 0.50 0.4 0.4 0.4 0.4 0.4 0.4 0.25 0.2 0.2 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 Cross River Benue Borno Delta Bayelsa Benue Delta Ebonyi urban rural urban both both rural urban both 0.8 0.6 8.0 0.8 0.75 0.75 0.6 0.6 0.6 0.6 0.6 0.4 0.50 0.50 0.4 0.4 0.4 0.4 0.2 0.25 0.2 0.00 2002012022032040 2000010020030040 20020120022032040 200201200220320040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 Edo Edo Ekiti Ekiti Enugu Enugu eral Capital Terr Gombe urban rural rural urban rural urban both both 0.8 0.8 0.8 0.6 0.75 0.75 0.75 0.6 0.6 0.6 0.6 0.4 0.50 0.50 0.50 0.4 0.4 0.4 0.4 0.2 0.2 0.25 0.25 0.25 0.0 0.0 0.0 Mortality per thousand, all-age 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2000010020030040 2002012022032040 2002012022032040 2002012022032040 Kaduna Imo Jigawa Kaduna Kano Katsina Kebbi Kogi scenario both both rural urban both both both both 0.8 0.8 0.8 0.8 best_case 0.75 0.75 0.6 0.6 0.6 0.6 0.6 0.6 0.50 0.50 0.4 itn_change 0.4 0.25 0.2 0.25 new_tools 2002012022032040 2002012022032040 20020120022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 2002012022032040 vaccine_scaleup Kwara Kwara Lagos Nassarawa Niger Niger Ogun Ogun urban both both rural urban rural urban rural 0.6 0.8 0.8 0.8 0.8 0.8 0.75 0.75 0.6 0.6 0.6 0.6 0.6 0.4 0.50 0.50 0.4 0.4 0.4 0.4 0.2 0.25 0.25 0.2 0.2 0.0 0.0 2002012022032040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 Plateau Ondo Ondo Osun Osun Oyo Oyo Plateau urban urban rural rural urban rural rural urban 0.8 0.8 0.8 8.0 0.6 0.6 0.75 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.50 0.4 0.4 0.4 0.2 0.2 0.25 0.0 20020120020032040 2002012022032040 200201200220320040 200201200220320040 2002012022032040 2002012022032040 20020120022032040 2002012022032040 Sokoto Taraba Yobe Zamfara Rivers both both both both both 0.8 8.0 8.0 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.2 2002012022032040 200201200220320040 2002012022032040 2002012022032040 2002012022032040 Year

All-age clinical incidence over time by scenario RWA Amajyepfo Amajyepfo Amajyaruguru Amajyaruguru rural urban rural urban Iburasirazuba Iburasirazuba Iburengerazuba Iburengerazuba Clinical incidence per thousand, all-age urban urban rural rural scenario best_case itn_change new_tools vaccine_scaleup Umujyi wa Kigali Umujyi wa Kigali urban rural

Year

All-age mortality over time by scenario **RWA** Amajyaruguru Amajyaruguru Amajyepfo Amajyepfo rural urban rural urban 0.8 0.5 0.6 0.6 0.4 0.6 0.4 0.3 0.4 0.4 0.2 0.2 0.2 0.2 0.1 0.0 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 Mortality per thousand, all-age 0.6 -8.0 0.6 scenario 0.6 0.4 best_case 0.4 itn_change 0.4 new_tools 0.2 vaccine_scaleup 0.2 0.0 2010 2020 2030 2040 2010 2020 2030 2010 2020 2040 2010 2020 2040 2000 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

Year

0.0

2000

2010

2020

2030

0.00

2000

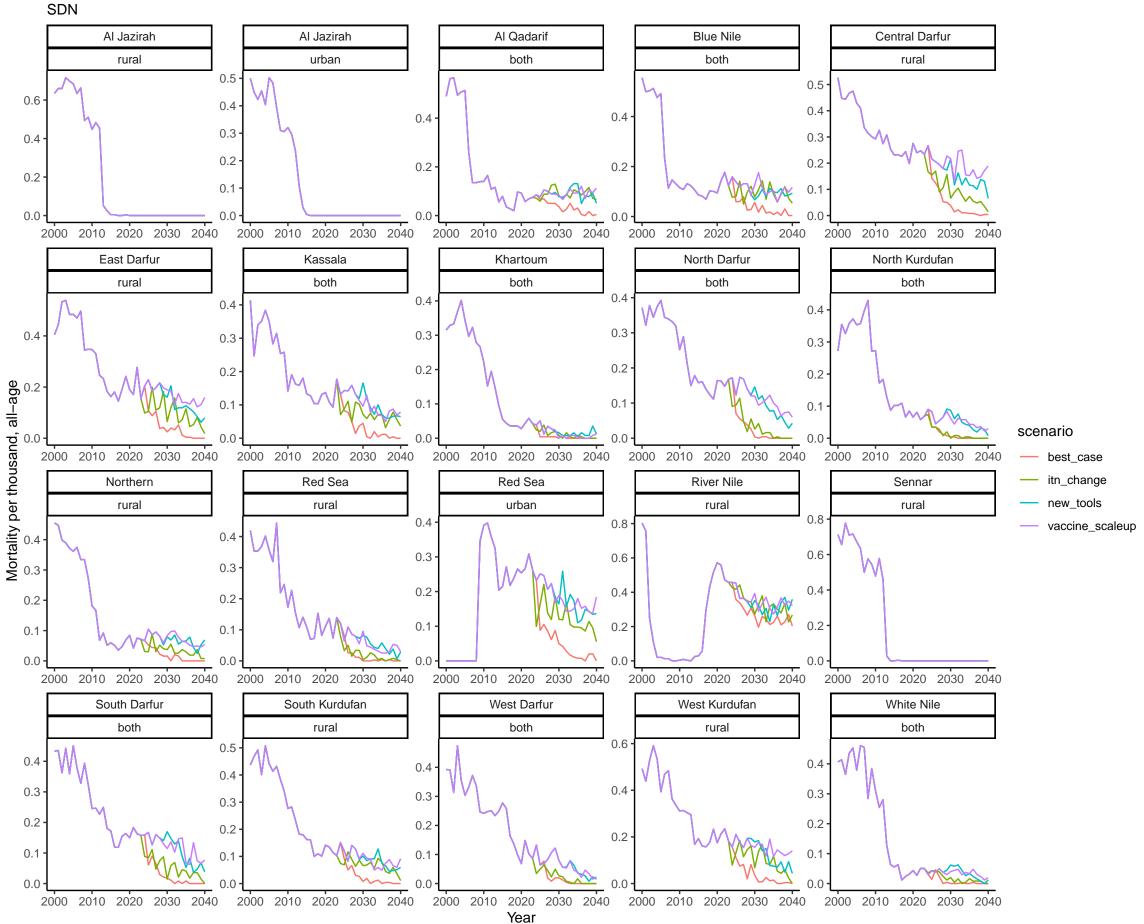
2010

2020

2030

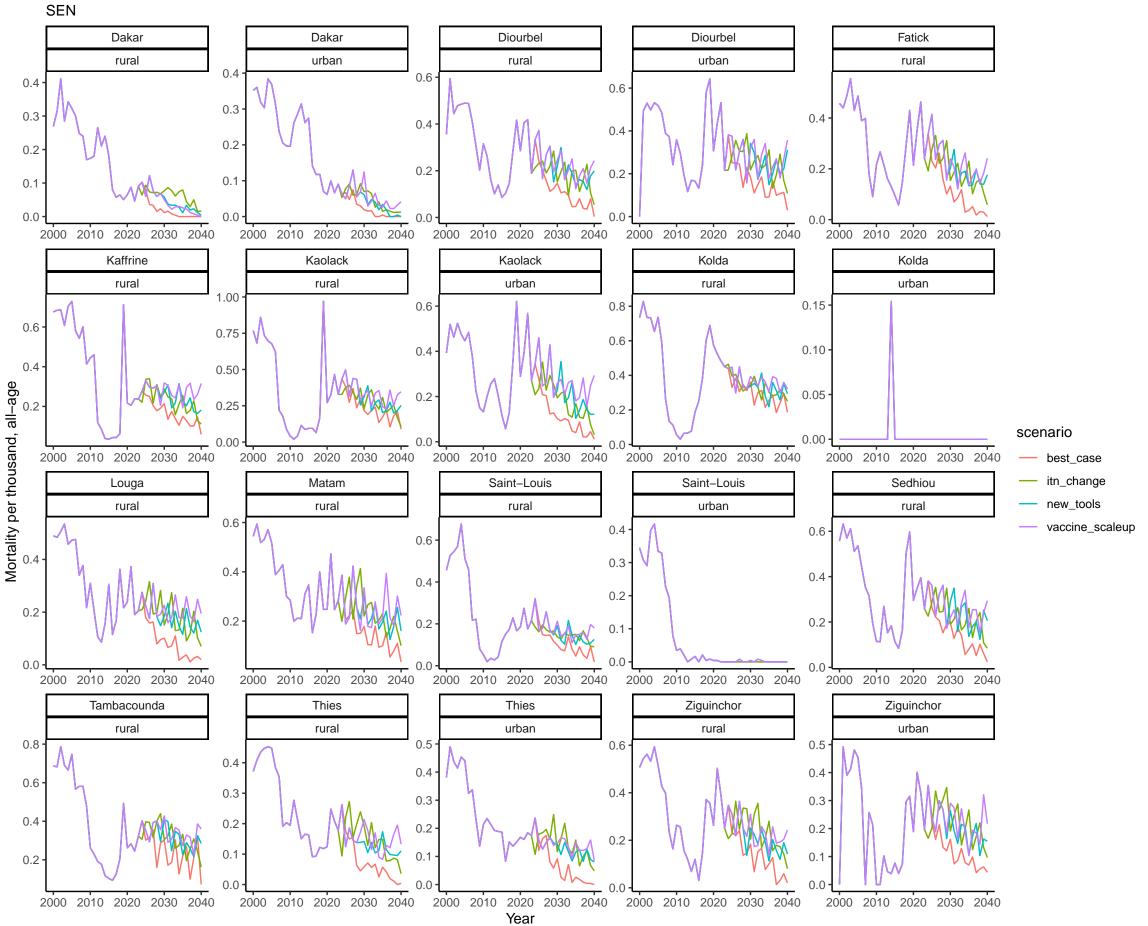
All-age clinical incidence over time by scenario SDN Al Qadarif Blue Nile Central Darfur Al Jazirah Al Jazirah both rural urban both rural 200 300 200 150 150 150 150 200 100 100 100 100 100 50 50 50 50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2000 2010 2040 2040 2020 2030 East Darfur Khartoum North Darfur North Kurdufan Kassala rural both both both both 200 100 125 100 150 100 150 75 75 75 Clinical incidence per thousand, all-age 100 100 50 50 50 50 50 25 25 25 scenario 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 best_case itn_change Red Sea Red Sea River Nile Northern Sennar new_tools rural rural urban rural rural vaccine_scaleup 150 300 300 90 100 100 200 200 60 50 50 100 100 30 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 South Darfur South Kurdufan West Darfur West Kurdufan White Nile both rural both rural both 200 150 150 150 90 150 100 100 100 60 100 50 50 50 30 50 2000 2010 2020 2030 2040 2000 2010 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2020 2000 2010 2020 2030 2040

All-age mortality over time by scenario

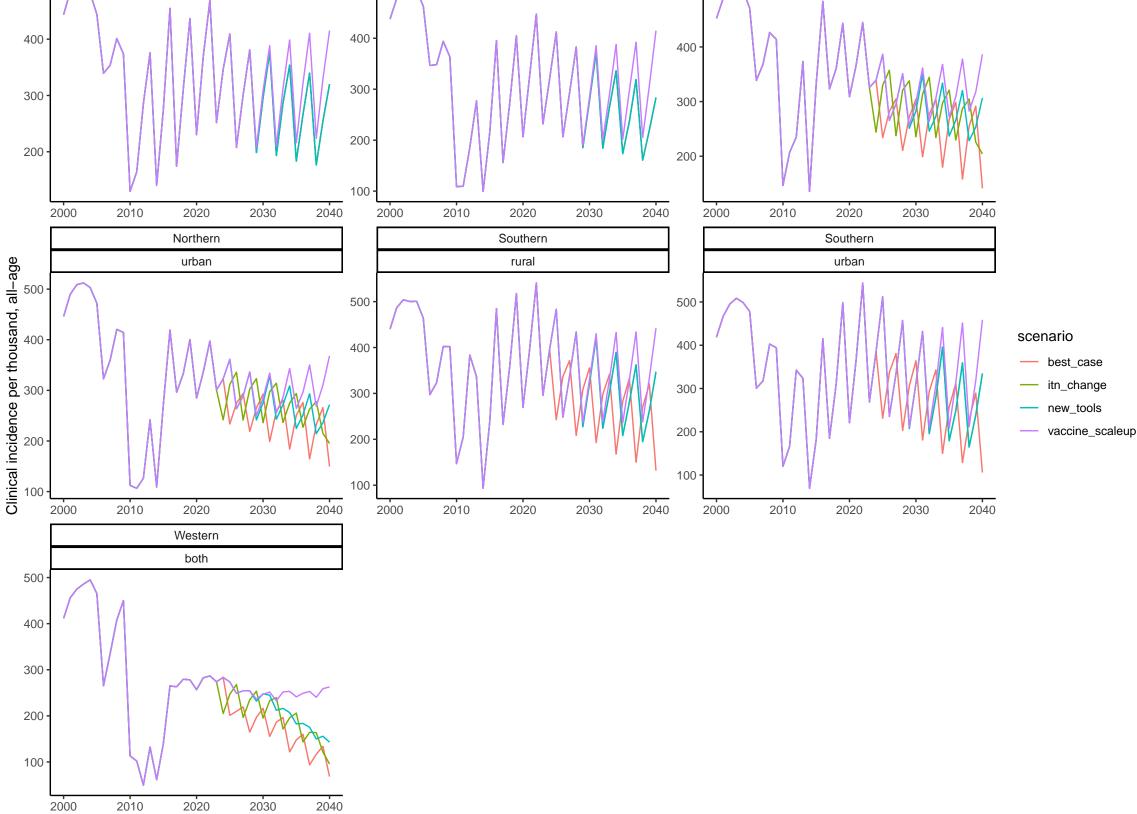


All-age clinical incidence over time by scenario SEN Diourbel Fatick Dakar Dakar Diourbel rural urban rural urban rural 100 200 90 200 75 200 150 150 60 50 100 100 100 30 25 50 50 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Kaffrine Kaolack Kaolack Kolda Kolda rural rural urban urban rural 250 60 400 400 400 200 300 300 300 40 150 Clinical incidence per thousand, all-age 200 200 20 100 100 scenario 2010 2020 2030 2040 2010 2020 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2000 2030 2040 2000 best_case itn_change Saint-Louis Saint-Louis Sedhiou Louga Matam new_tools rural rural rural urban rural 300 vaccine_scaleup 90 200 200 200 60 100 30 50 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 Thies Thies Ziguinchor Ziguinchor Tambacounda rural rural urban rural urban 400 200 150 150 300 200 150 100 100 200 100 100 50 100 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2010 2020 2040 2030 2000 Year

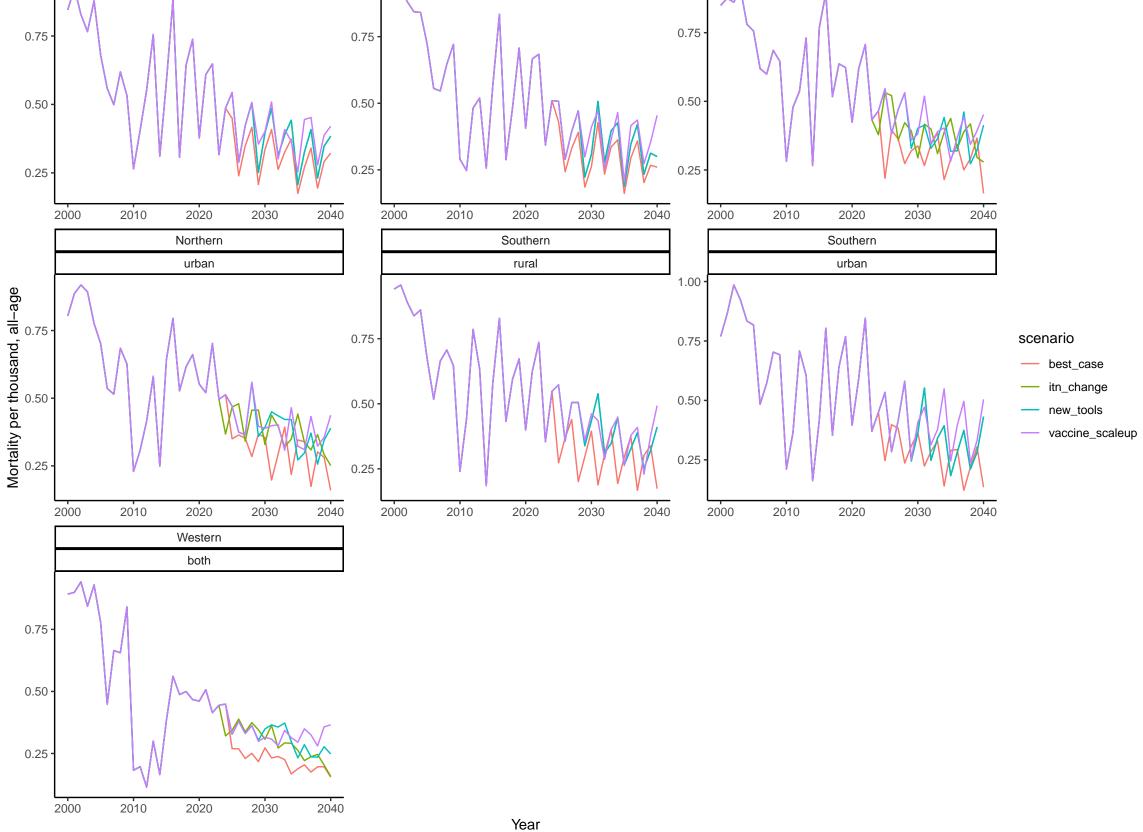
All-age mortality over time by scenario SEN Dakar



All-age clinical incidence over time by scenario SLE Eastern Eastern Northern rural urban rural Southern Northern Southern urban urban rural scenario best_case itn_change new_tools vaccine_scaleup Western



All-age mortality over time by scenario SLE Eastern Eastern Northern urban rural rural 0.75 0.75 0.50 0.50 0.25 0.25 2010 2000 2010 2040 2010 2020 2030 2040 2020 2030 2040 2020 2030 2000 2000 Southern Northern Southern urban urban rural 1.00 scenario 0.75 0.75 best_case itn_change 0.50 0.50 new_tools vaccine_scaleup 0.25 0.25 2040 2010 2040 2010 2020 2040 2000 2020 2030 2000 2030 2000 2010 2020 2030 Western both



All-age clinical incidence over time by scenario SOM Bay Bakool Bari Awdal Banaadir both rural rural rural rural 150 150 200 200 150 100 200 150 100 100 100 50 100 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 2040 Galguduud Gedo Hiiraan Jubbada Dhexe Jubbada Hoose rural both rural rural rural 250 150 200 150 150 100 150 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 2000 2010 2020 2030 2040 best_case itn_change Shabeellaha Dhexe Shabeellaha Hoose Mudug Nugaal Sanaag new_tools both rural rural rural both vaccine_scaleup 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 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 Year

All-age mortality over time by scenario SOM Awdal Bakool Banaadir Bari Bay rural both rural rural rural 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 Galguduud Gedo Hiiraan Jubbada Dhexe Jubbada Hoose rural both rural rural rural 0.6 0.5 0.5 0.6 0.4 0.4 0.4 0.4 0.4 0.3 0.3 Mortality per thousand, all-age 0.2 0.2 0.2 scenario 0. 2000 2010 2000 2010 2010 2020 2000 2010 2020 2030 2040 2000 2030 2040 2020 2030 2040 2020 2030 2040 2000 2010 2020 2030 2040 best_case itn_change Mudug Shabeellaha Dhexe Nugaal Shabeellaha Hoose Sanaag new_tools both both rural rural rural 0.5 0.5 vaccine_scaleup 0.4 0.4 0.4 0.4 0.3 0.3 0.2 0.2 0.2 0.2 0.1 0.1 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 Woqooyi Galbeed Sool Togdheer rural rural rural 0.4 0.2

2000 2010 2020 2030 2040

2000 2010 2020

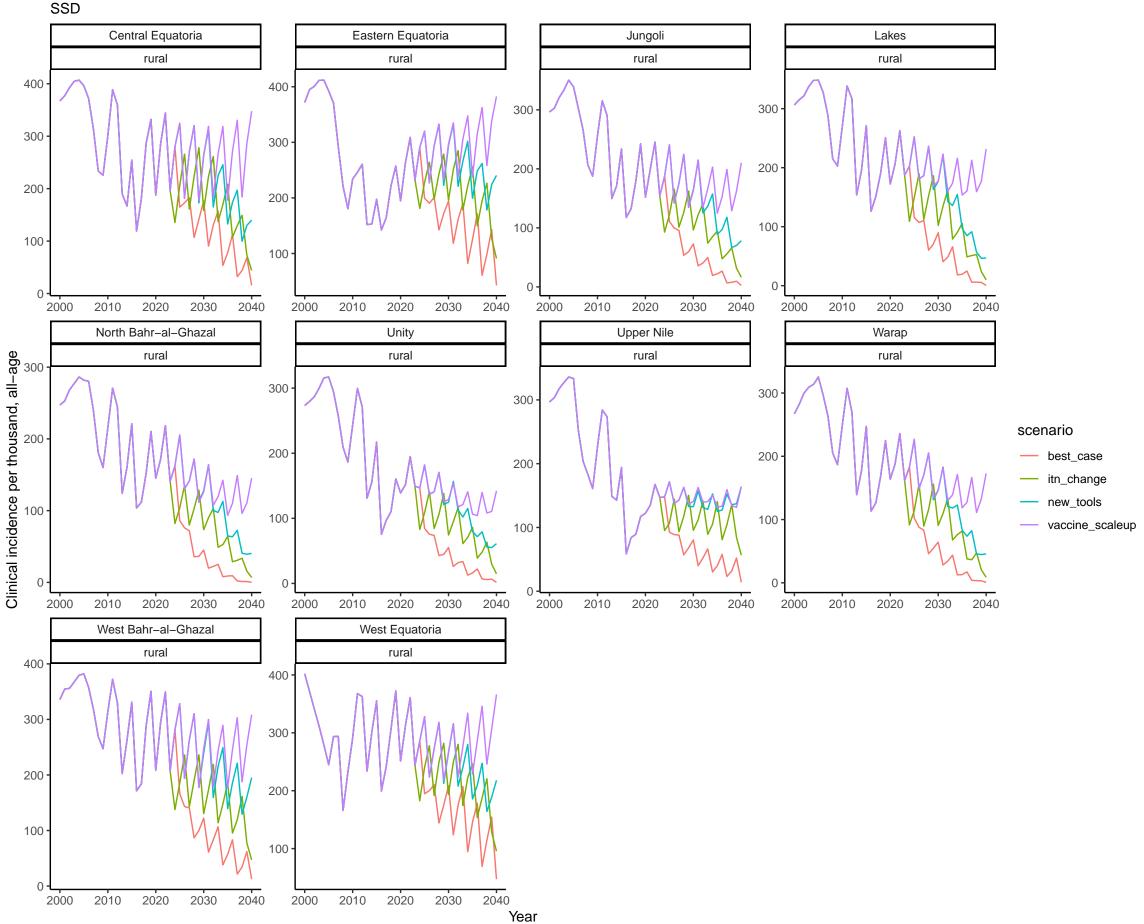
2030 2040

2000 2010

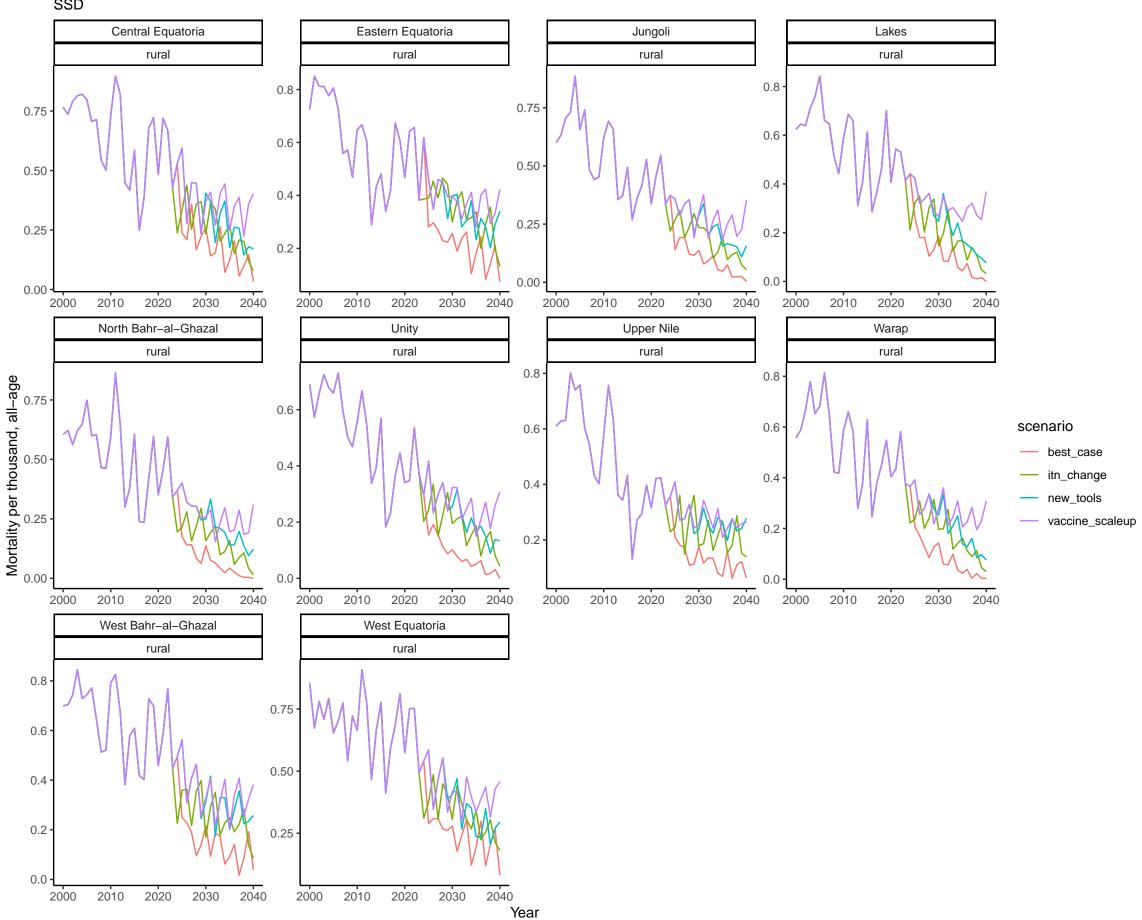
2020

Year

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 Batha Chari-Baguirmi Ennedi Est Borkou rural rural rural both rural 250 120 300 200 200 100 200 100 100 50 2010 2020 2030 2040 2010 2020 2000 2010 2020 2030 2040 2000 2010 2020 2040 2000 2010 2020 2030 2040 2000 2030 2040 2030 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural 300 400 300 100 200 300 200 200 50 100 100 100 Clinical incidence per thousand, all-age 2000 2010 2020 2030 2040 2010 2020 2030 2040 2010 2020 2010 2020 2000 2010 2000 2000 2030 2040 2000 2030 2040 2020 2030 Logone Occidental Logone Oriental Mandoul Mayo-Kebbi Est Mayo-Kebbi Ouest rural rural rural rural rural 400 scenario 300 300 300 300 best_case 200 200 itn_change 200 200 100 100 new_tools 100 vaccine_scaleup 2010 2020 2030 2040 2000 2010 2000 2010 2020 2030 2040 2000 2000 2010 2020 2030 2040 2020 2030 2040 2000 2010 2020 2030 2040 Moyen-Chari Sila Ouaddai Salamat Tandjile rural rural rural rural rural 400 400 300 200 200 300 300 150 150 200 200 100 100 100 100 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 Tibesti Ville de N'Djamena Wadi Fira rural both rural 80 300 60 200 40 100 20 2000 2010 2020 2030 2040 2000 2010 2020 2030 2000 2010 2020 2030 2040 Year

All-age mortality over time by scenario TCD Barh el Ghazel Batha Borkou Chari-Baguirmi Ennedi Est both rural rural rural rural 0.8 0.6 0.5 0.6 0.4 0.6 0.3 0.4 0.4 0.4 0.2 0.2 2010 2020 2030 2040 2000 2010 2020 2010 2020 2030 2040 2000 2010 2020 2000 2010 2020 2000 2030 2040 2000 2030 2040 2030 2040 Ennedi Ouest Guera Hadjer-Lamis Kanem Lac rural rural rural rural rural 0.5 0.6 8.0 1.00 0.4 0.6 0.6 0.75 0.4 0.3 0.50 0.4 0.2 0.1 0.25 2010 2020 2030 2010 2020 2030 2040 2010 2020 2010 2020 2010 2000 2030 2040 2000 2030 2040 2000 2040 2000 2020 2030 Mortality per thousand, all-age Logone Oriental Mandoul Mayo-Kebbi Est Logone Occidental Mayo-Kebbi Ouest rural rural rural rural rural 8.0 scenario 0.8 0.75 0.6 0.6 best_case 0.6 0.4 0.50 itn_change 0.4 0.4 0.2 new_tools 0.25 vaccine_scaleup 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2000 2010 2020 2000 2010 2020 2030 2040 2000 2020 2030 2040 2030 2040 Ouaddai Sila Moyen-Chari Salamat Tandjile rural rural rural rural rural 0.8 0.6 0.75 0.6 0.75 0.6 0.4 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 Tibesti Ville de N'Djamena Wadi Fira rural both rural 0.4 0.5 0.6 0.3 0.4 0.2 0.1 0.2 0.0 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 2010 2020 Year

Year

All-age mortality over time by scenario TGO Centre Kara Maritime both both rural 0.8 0.8 0.8 0.6 0.6 0.6 0.4 0.4 0.4 0.2 Mortality per thousand, all-age 0.2 scenario 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 best_case Maritime Plateaux Savanes itn_change new_tools urban both both vaccine_scaleup 0.8 0.75 0.6 0.4 0.50 0.4 0.2 0.25 0.2 2040 2040 2040 2000 2010 2020 2030 2000 2010 2020 2030 2000 2010 2020 2030

2000 2010 2020 2030 2040

All-age mortality over time by scenario **TZA** Geita Dar es Salaam Arusha Dodoma Iringa Kagera both both both both both rural 0.6 0.6 0.5 0.4 0.6 0.6 0.4 0.4 0.4 0.3 0.4 0.4 0.2 0.2 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 2000 2010 2020 2030 2040 Katavi Kilimanjaro Lindi Kagera Kigoma Manyara urban both both both both both 0.5 0.4 0.6 0.6 0.6 0.4 0.3 0.4 0.4 0.3 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 2000 2010 2020 2030 2040 Mara Mtwara Mwanza Mbeya Morogoro Njombe both both both both both both 0.6 0.5 0.6 0.6 0.6 0.4 0.4 0.4 0.3 0.4 0.4 0.2 0.2 0.2 0.2 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 best_case itn_change Pemba North Pwani Pemba South Rukwa Ruvuma Shinyanga new_tools both both both both both both 0.6 0.6 0.6 vaccine_scaleup 0.75 -0.6 0.4 0.4 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 Singida Simiyu Songwe Tabora Tanga Zanzibar North both both both both both both 0.6 0.6 8.0 0.6 0.5 0.6 0.4 0.6 0.4 0.4 0.3 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 2000 2010 2020 2030 2040 Zanzibar West anzibar South and Centr rural both 0.8 0.8 -0.6 0.6 0.4 0.4 0.2 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 Luapula Lusaka Lusaka Muchinga both rural urban rural Clinical incidence per thousand, all-age scenario best_case North-Western itn_change Northern Southern Muchinga new_tools both urban rural rural vaccine_scaleup Southern Western urban both

Year

All-age mortality over time by scenario ZMB Central Central Copperbelt Eastern rural urban both both 1.00 8.0 0.75 0.75 0.75 0.6 0.50 0.50 0.50 0.4 0.25 0.25 0.2 0.25 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Luapula Lusaka Lusaka Muchinga both rural urban rural 0.8 0.8 8.0 0.75 0.6 0.6 0.6 0.50 0.4 0.4 Mortality per thousand, all-age 0.4 0.25 0.2 0.2 0.2 scenario 0.00 0. 2010 2010 2020 2010 2020 2030 2020 2030 2000 2030 2000 2040 2000 2010 2000 2040 2040 2020 2030 2040 best_case Muchinga North-Western itn_change Northern Southern new_tools urban rural both rural 8.0 vaccine_scaleup 0.8 0.75 0.75 0.6 0.6 0.50 0.50 0.4 0.4 0.2 0.25 0.25 -0.2 0.0 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2000 Western Southern urban both 0.8 -0.75 0.6 0.50 0.4 0.25 0.00 2010 2040 2040 2020 2030 2000 2010 2020 2000 2030

All-age clinical incidence over time by scenario **ZWE** Manicaland Bulawayo Bulawayo Harare Harare rural urban rural urban rural 500 150 200 400 100 100 150 300 100 100 200 50 50 50 50 100 2010 2020 2030 2040 2000 2030 2000 2010 2020 2030 2000 2010 2020 2030 2040 2000 2010 2020 2040 2000 2010 2020 2030 2040 Mashonaland Central Mashonaland Central Mashonaland East Manicaland Mashonaland East urban rural urban rural urban 300 125 500 400 400 100 400 300 200 300 Clinical incidence per thousand, all-age 75 200 200 50 100 100 100 100 25 scenario 2000 2010 2020 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2010 2020 2030 2040 2030 2040 2000 2000 best_case — itn_change Mashonaland West Mashonaland West Masvingo Masvingo Matabeleland North new_tools urban rural urban rural rural 400 vaccine_scaleup 400 400 300 300 100 300 300 200 200 200 50 100 100 100 100 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 2000 2000 2010 2020 2030 2040 2000 2010 2020 2030 2040 Matabeleland North Matabeleland South Matabeleland South Midlands Midlands urban rural urban rural urban 500 500 300 300 400 100 400 200 300 200 300 200 50 200 100 100 100

2000 2010 2020 2030

2040

2000 2010 2020 2030 2040

2020

Year

2000 2010

2000 2010 2020 2030 2040

All-age mortality over time by scenario 7WF

