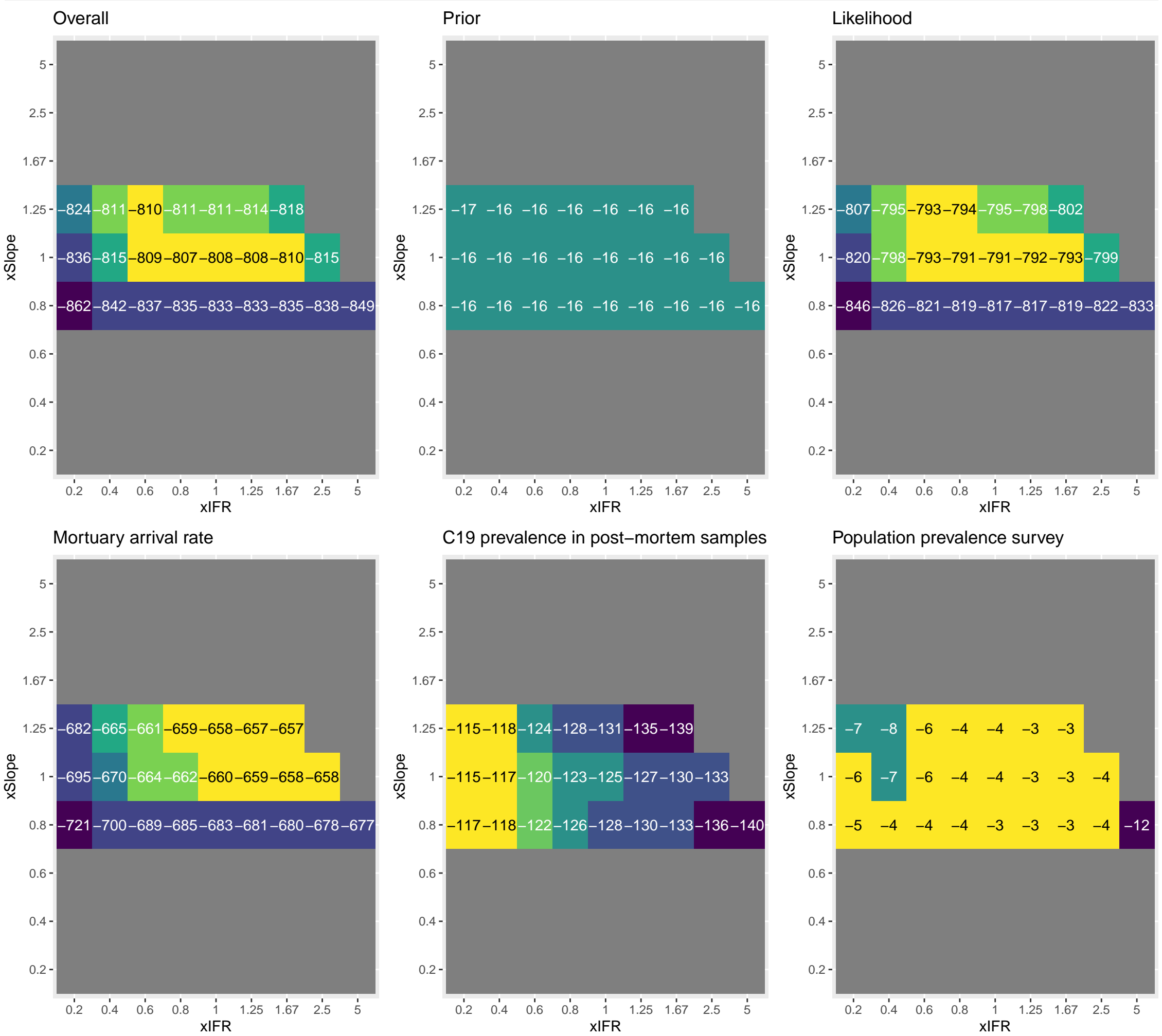
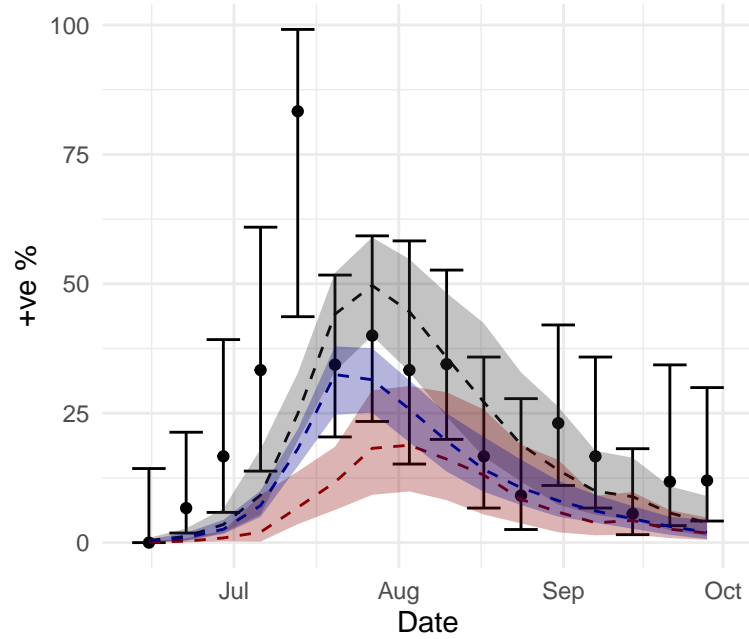


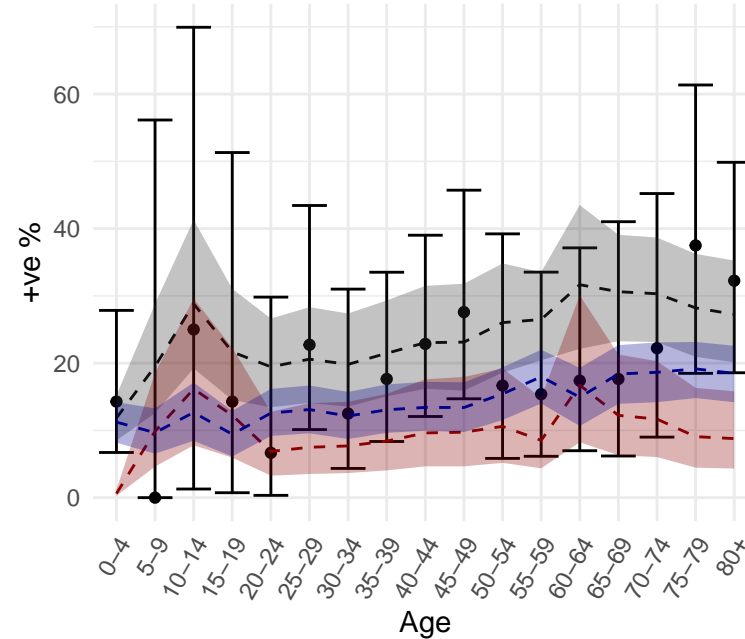
Remove weeks 4–5 (Rt_rw prior unif(−1,1))



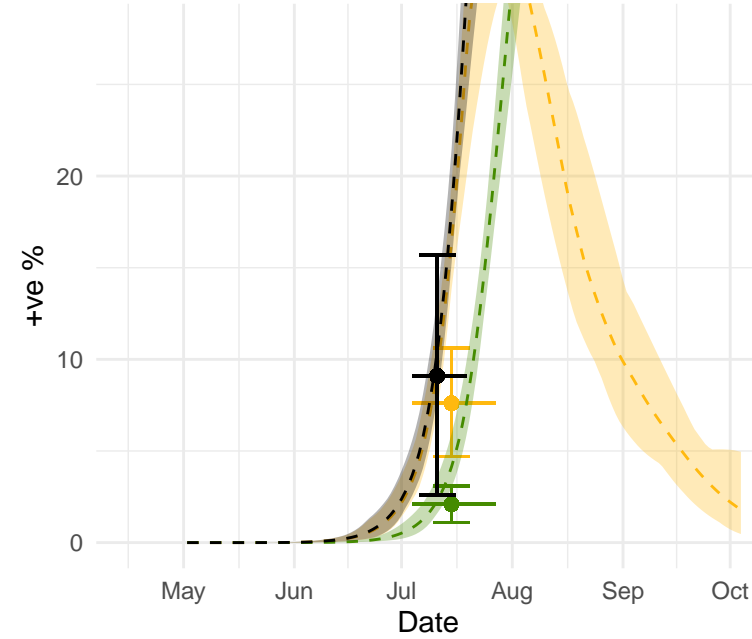
IFR x 0.2, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

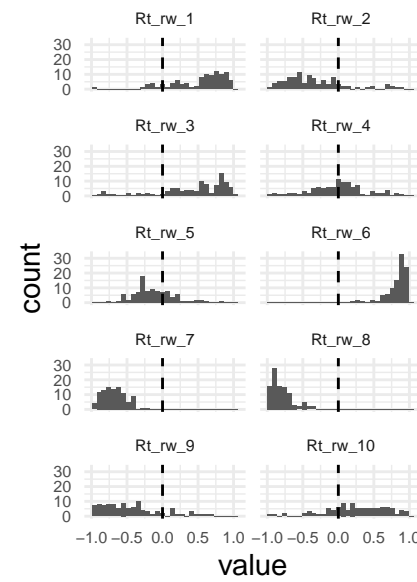
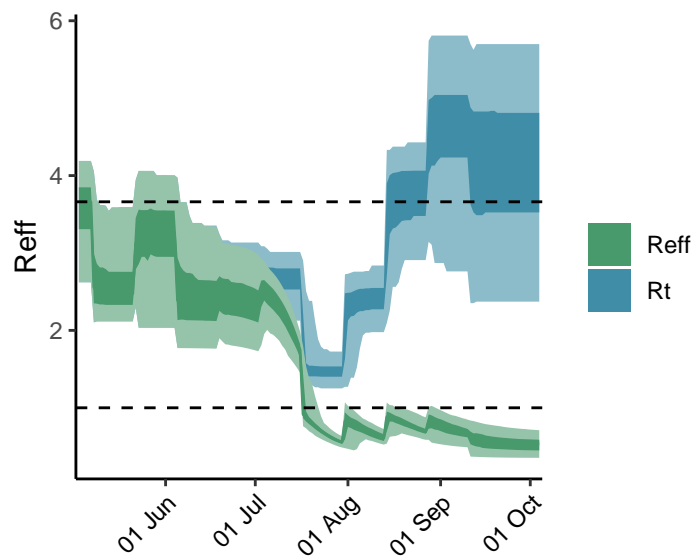


COVID-19 prevalence
Lusaka/Zambia

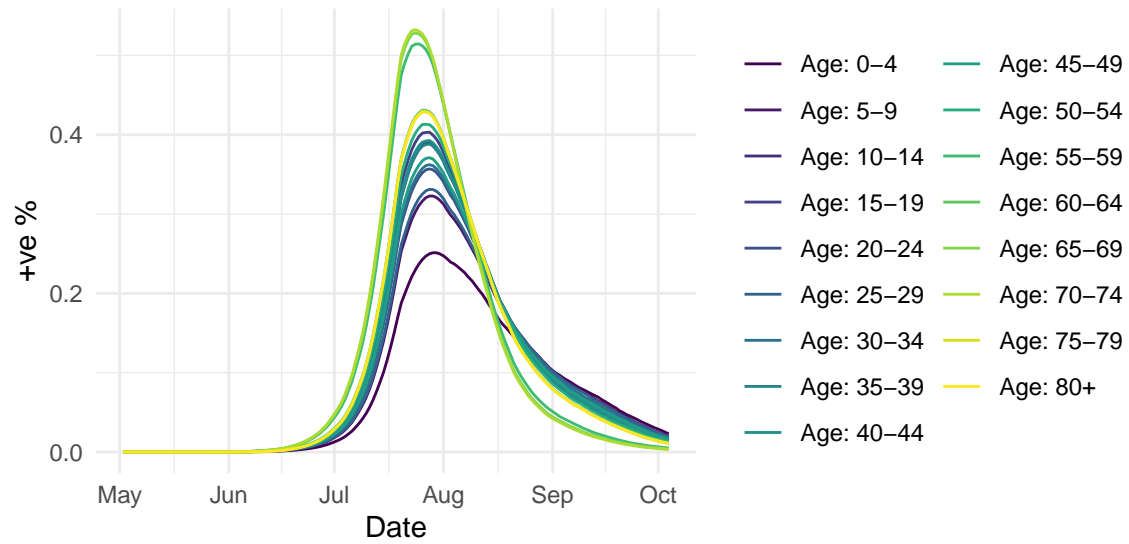


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

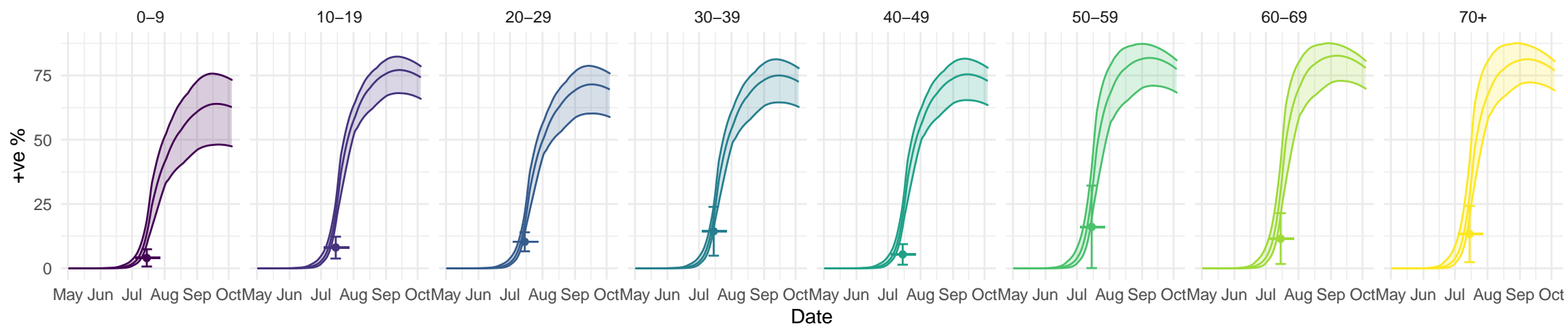
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

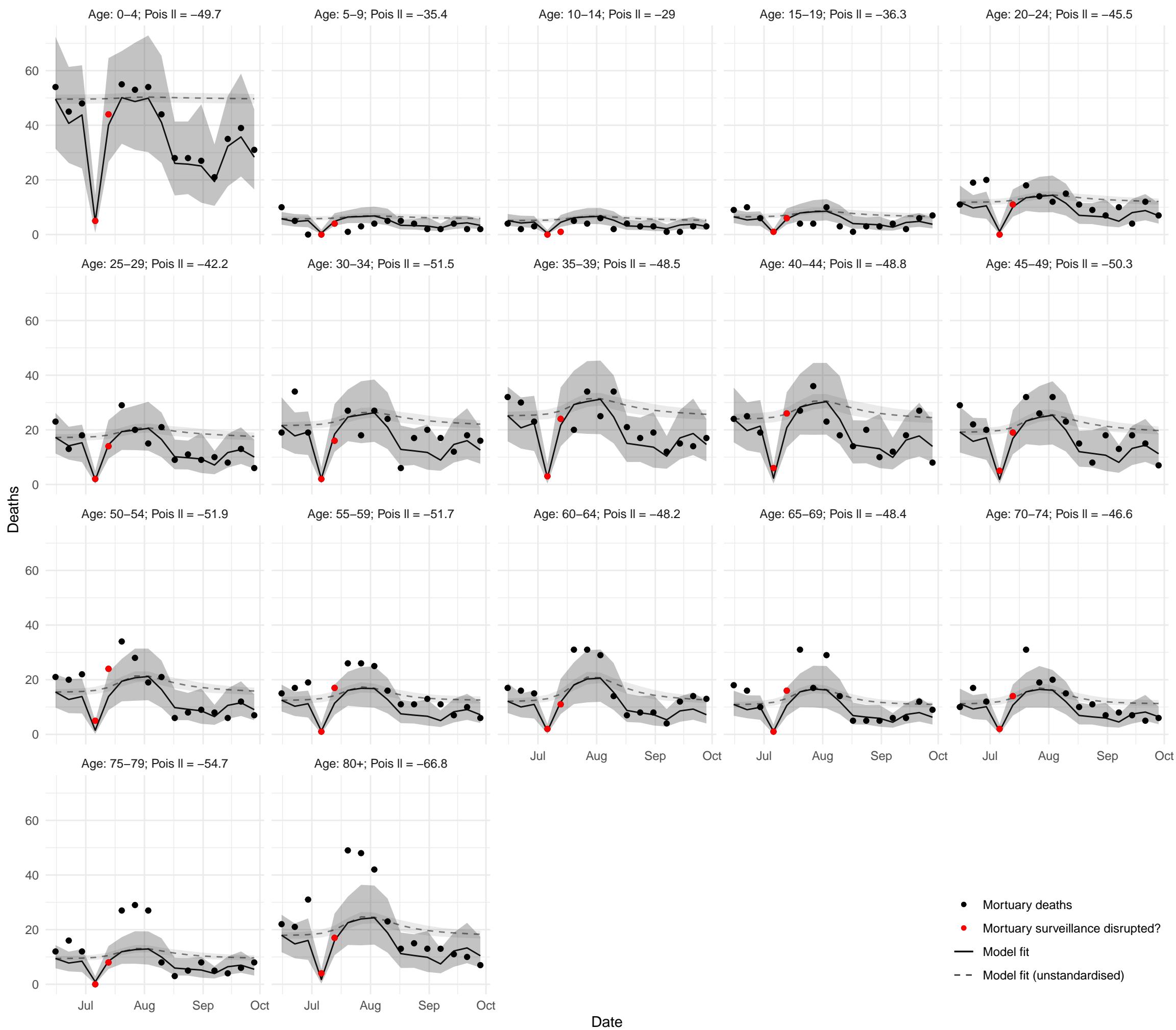


Modelled PCR %

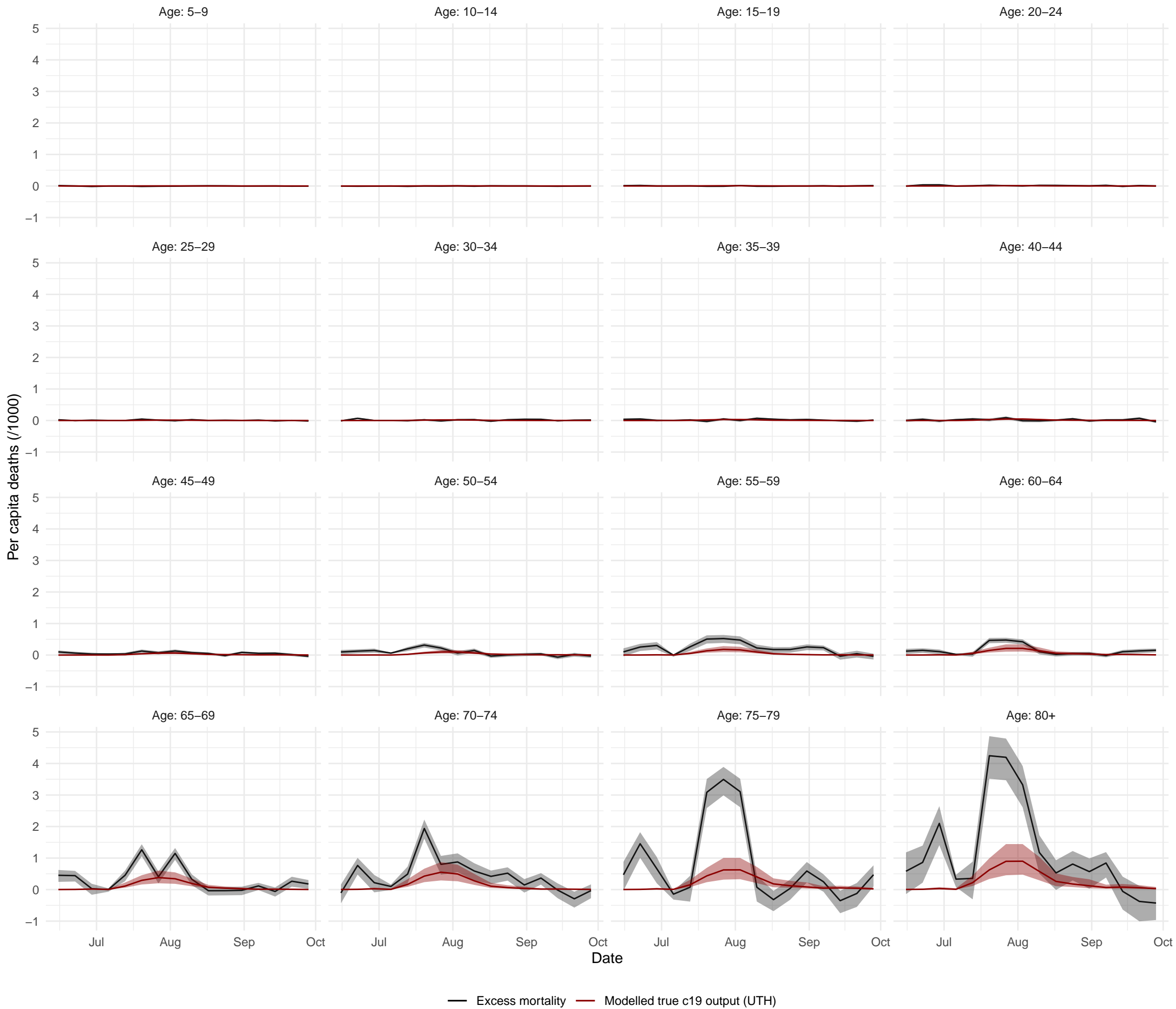


Modelled combined prevalence, Lusaka/Zambia

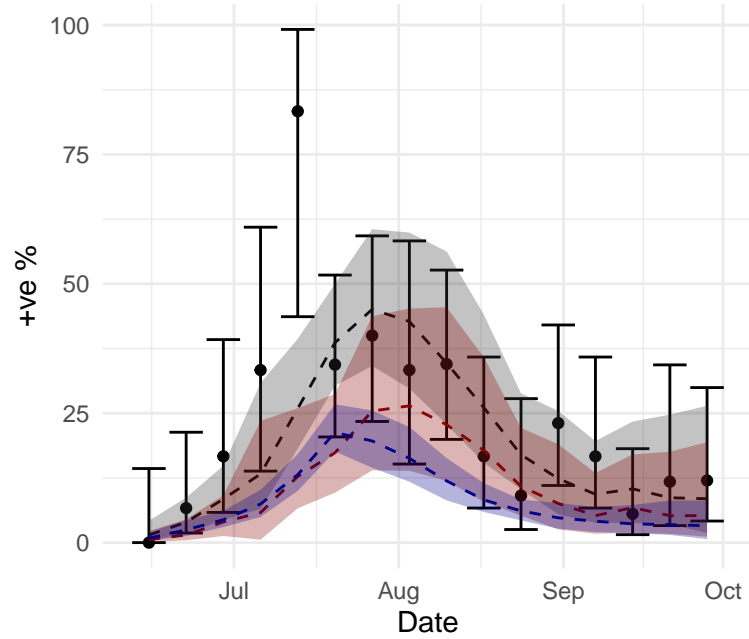




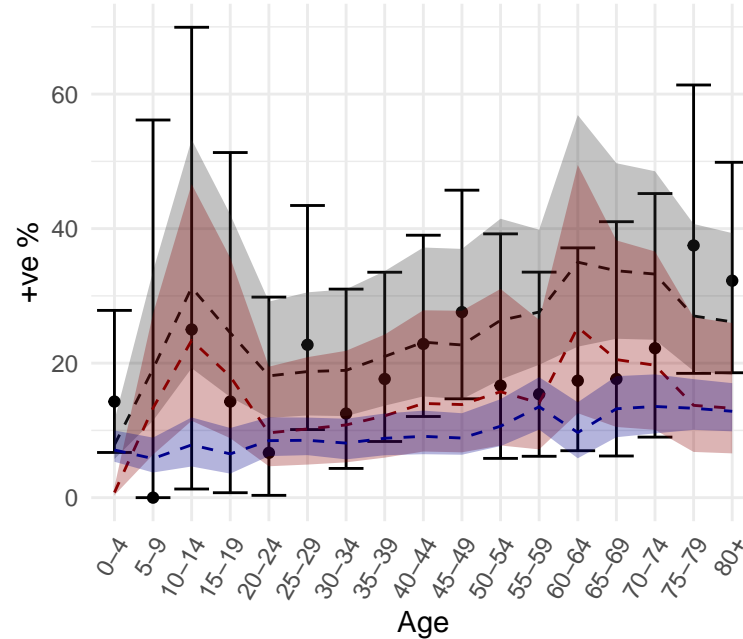
IFR x 0.2, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



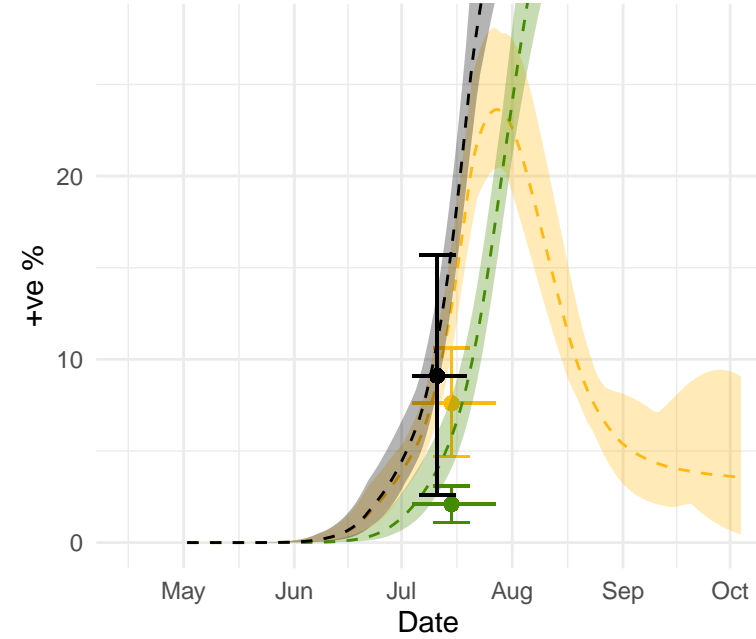
IFR x 0.4, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

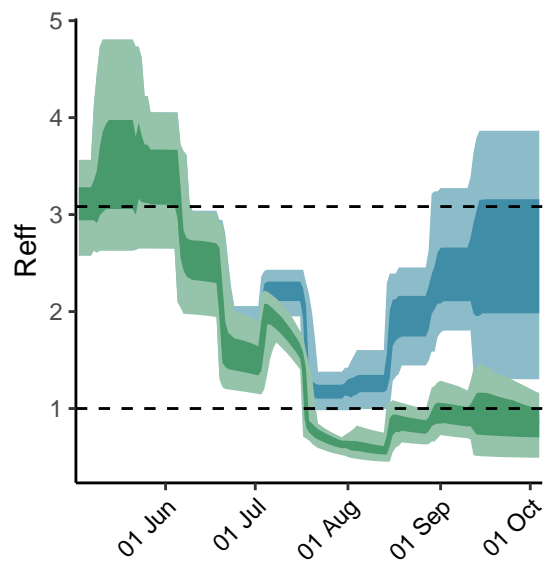


COVID-19 prevalence
Lusaka/Zambia

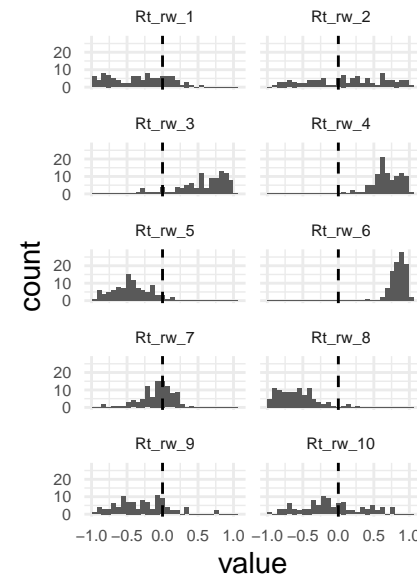


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

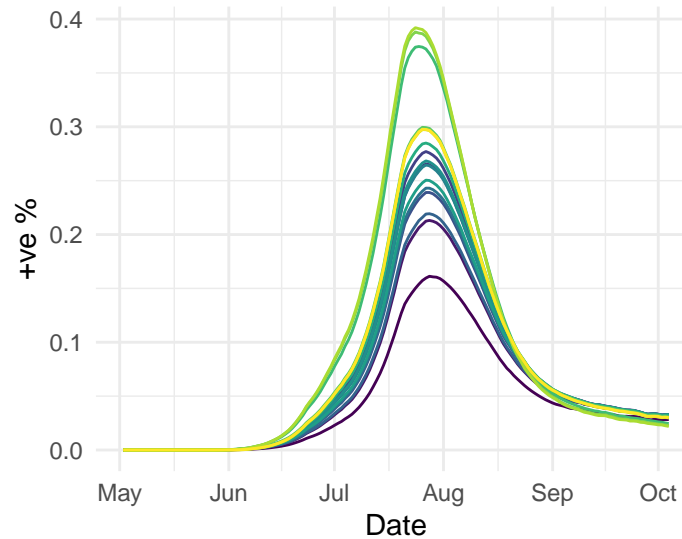
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

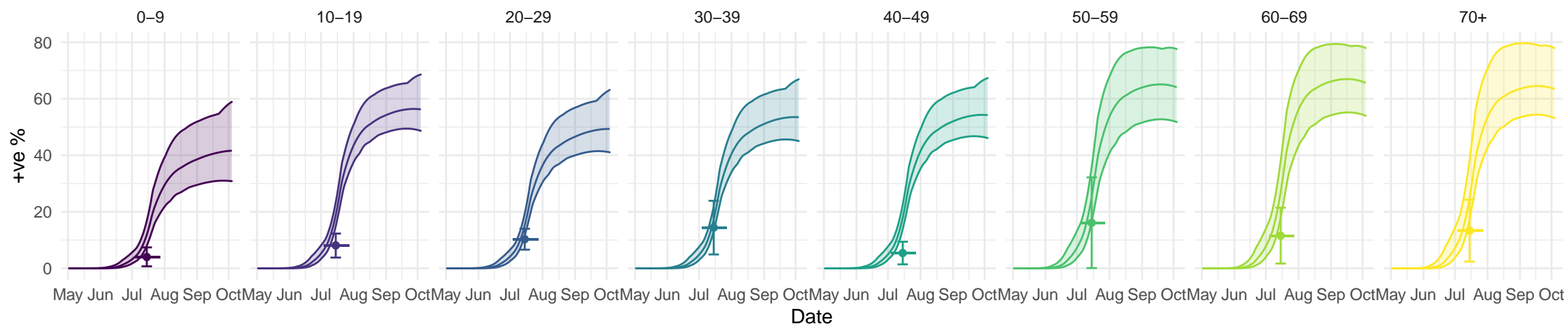


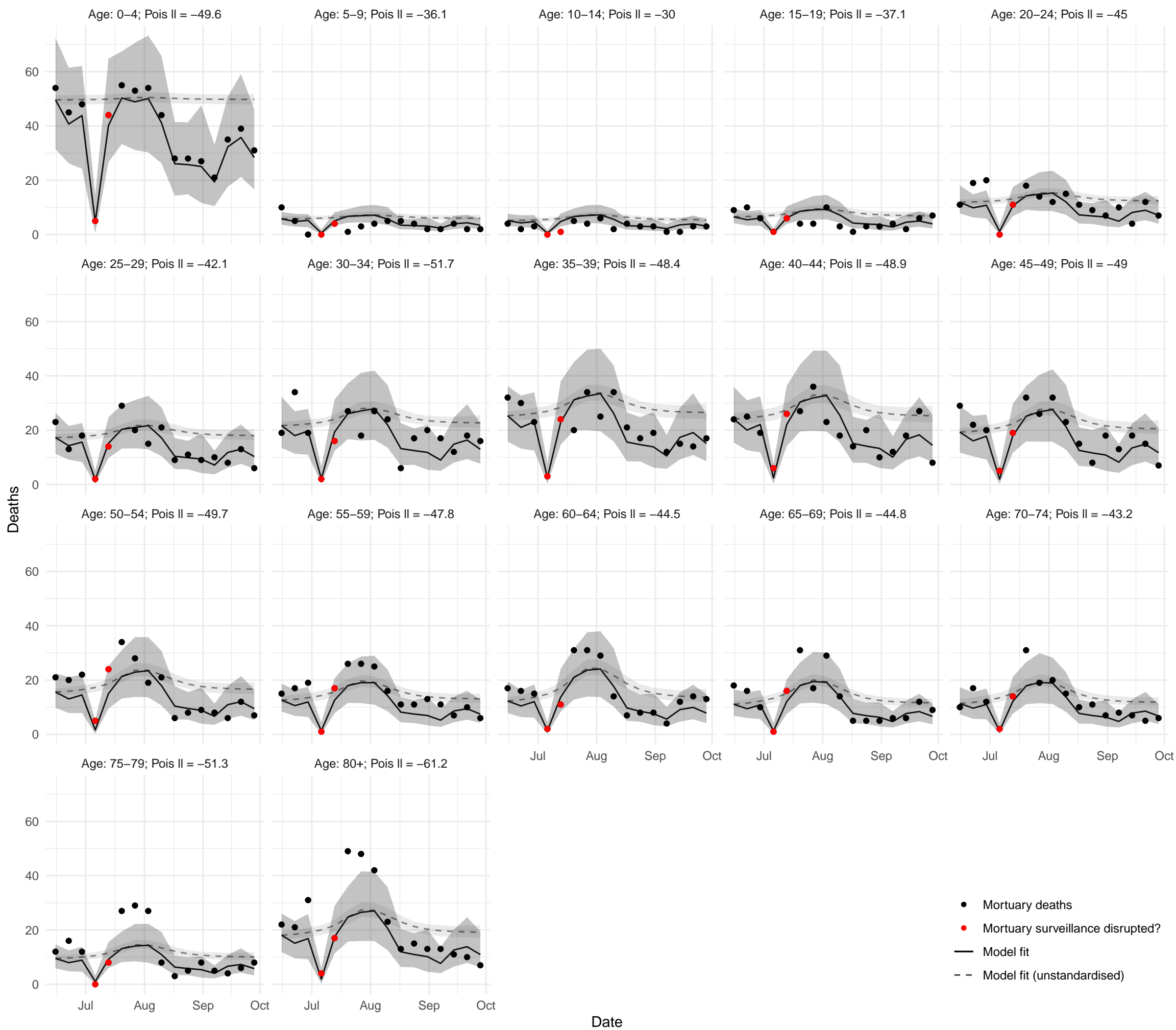
Modelled PCR %



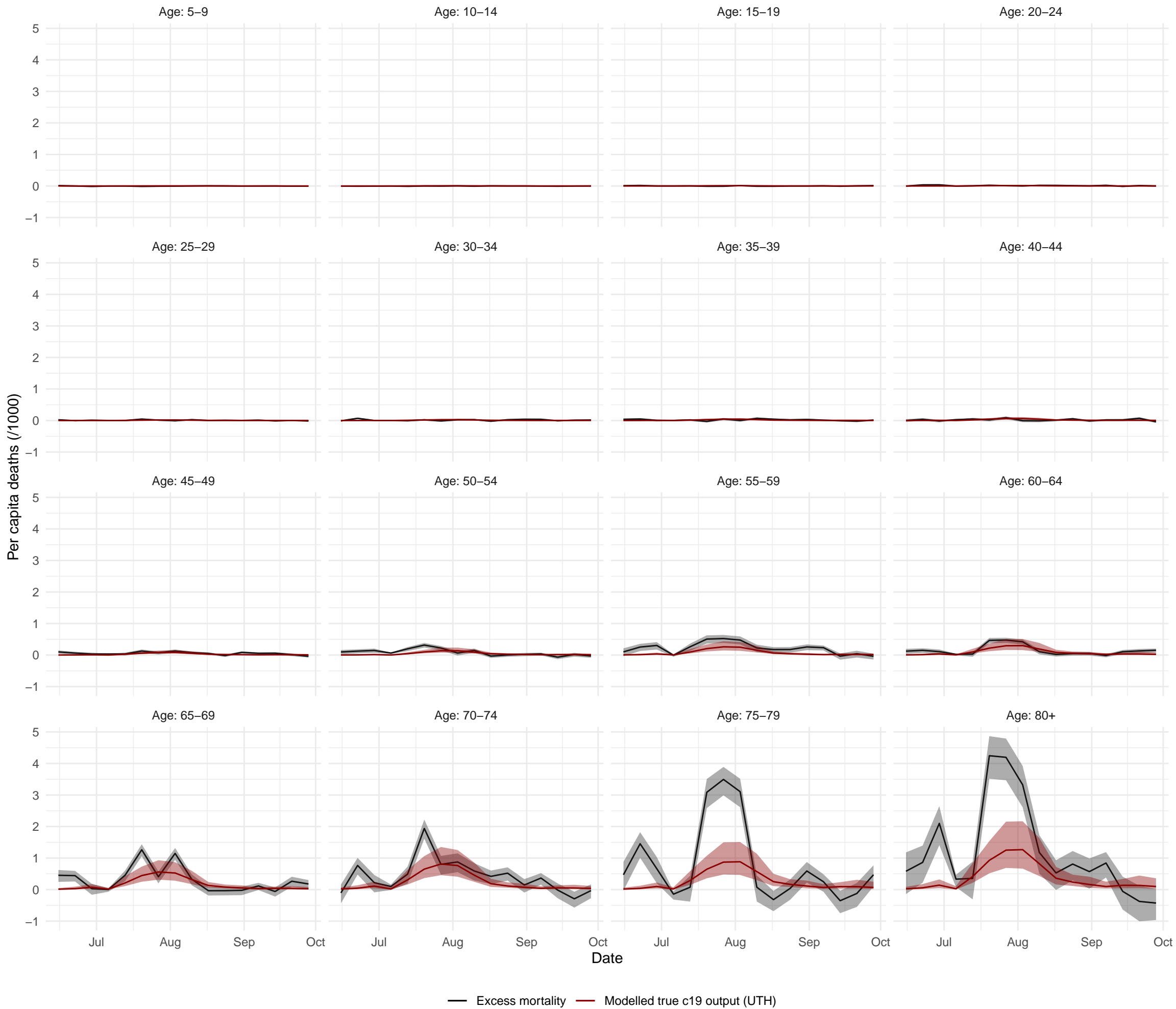
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

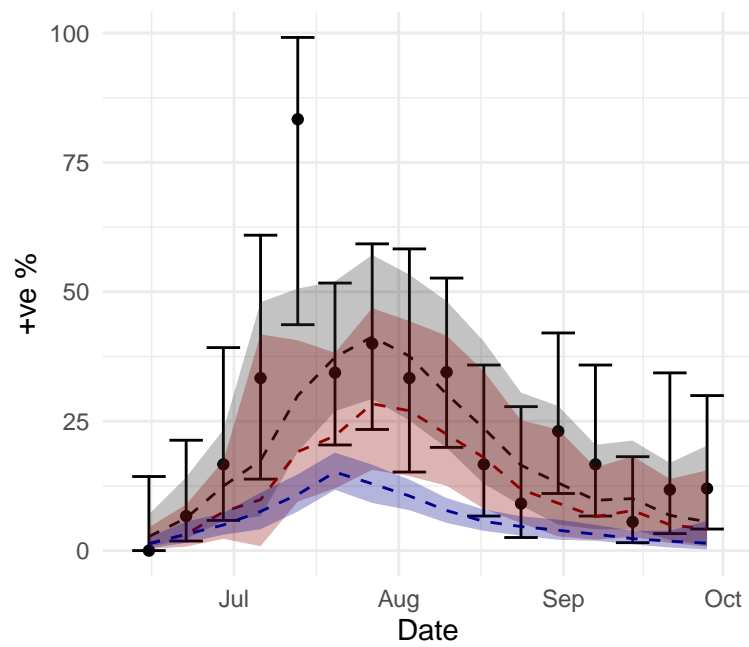




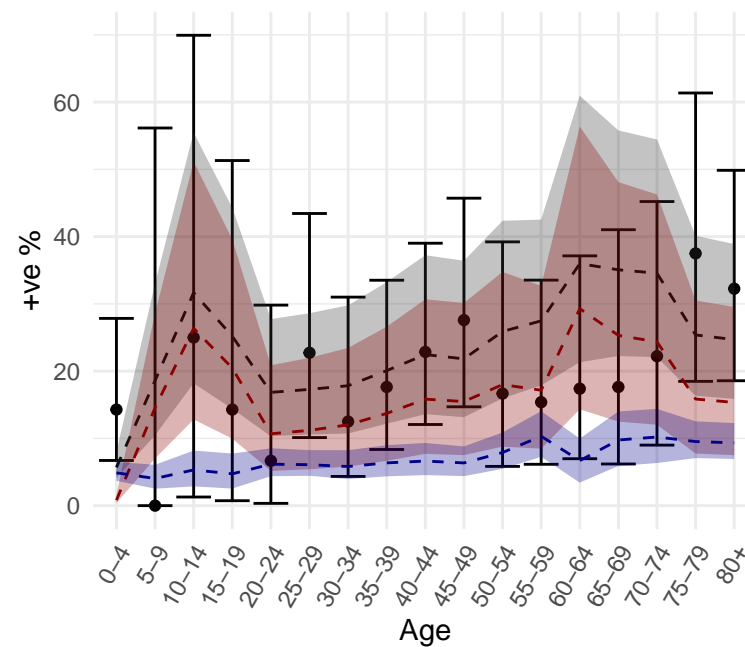
IFR x 0.4, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



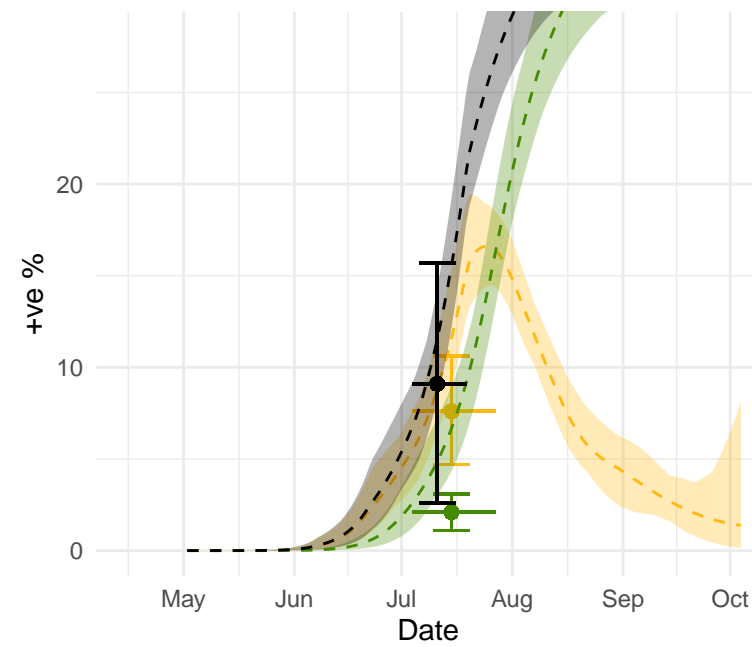
IFR x 0.6, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

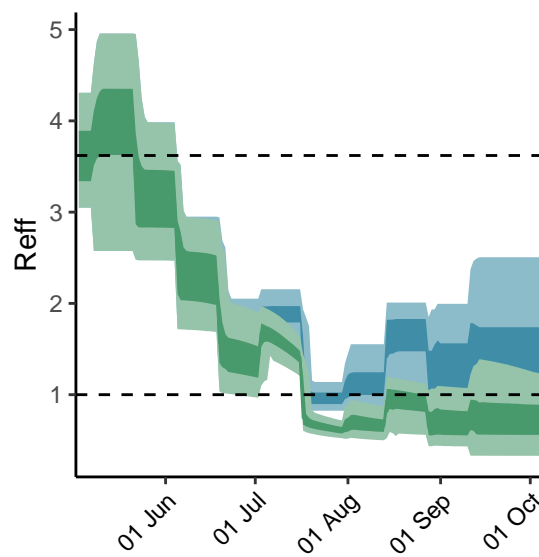


COVID-19 prevalence
Lusaka/Zambia

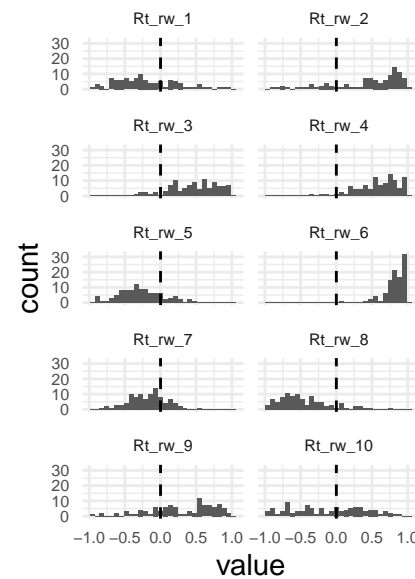


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

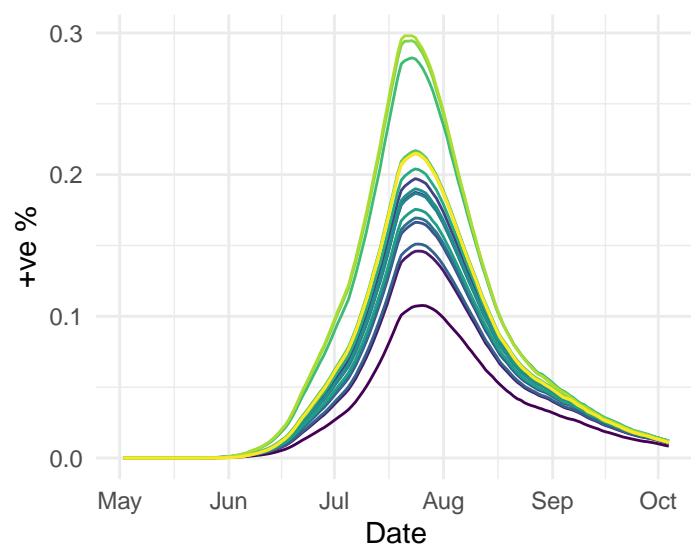
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

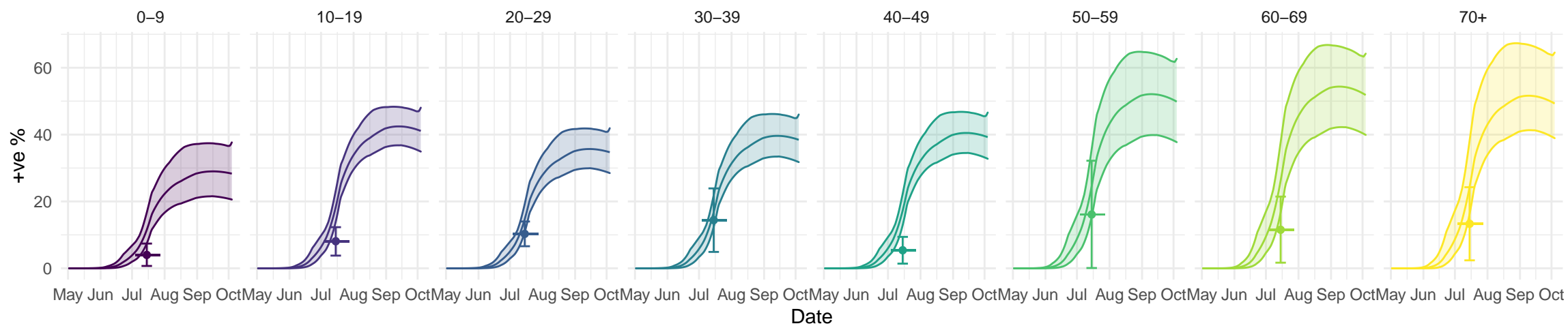


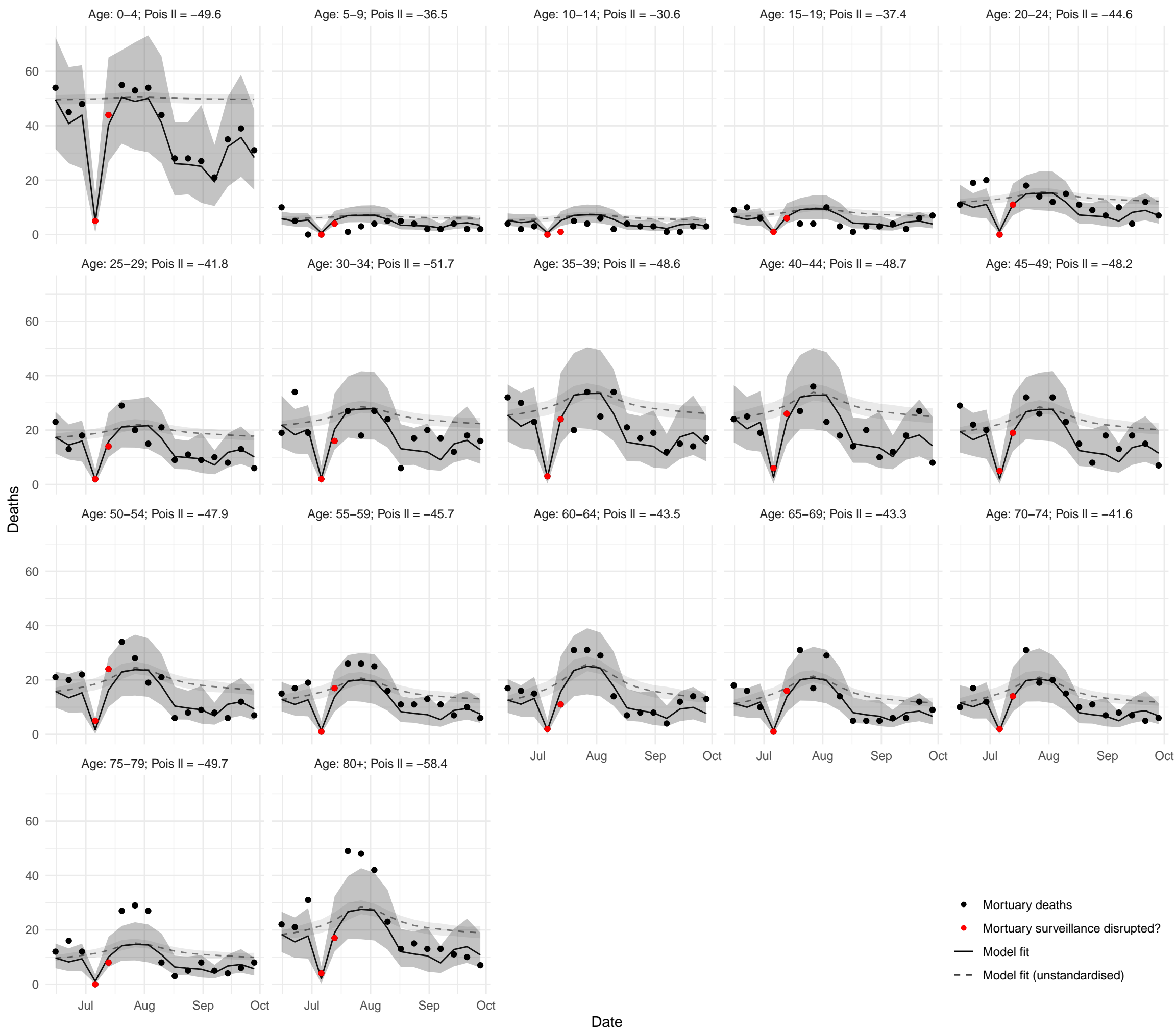
Modelled PCR %



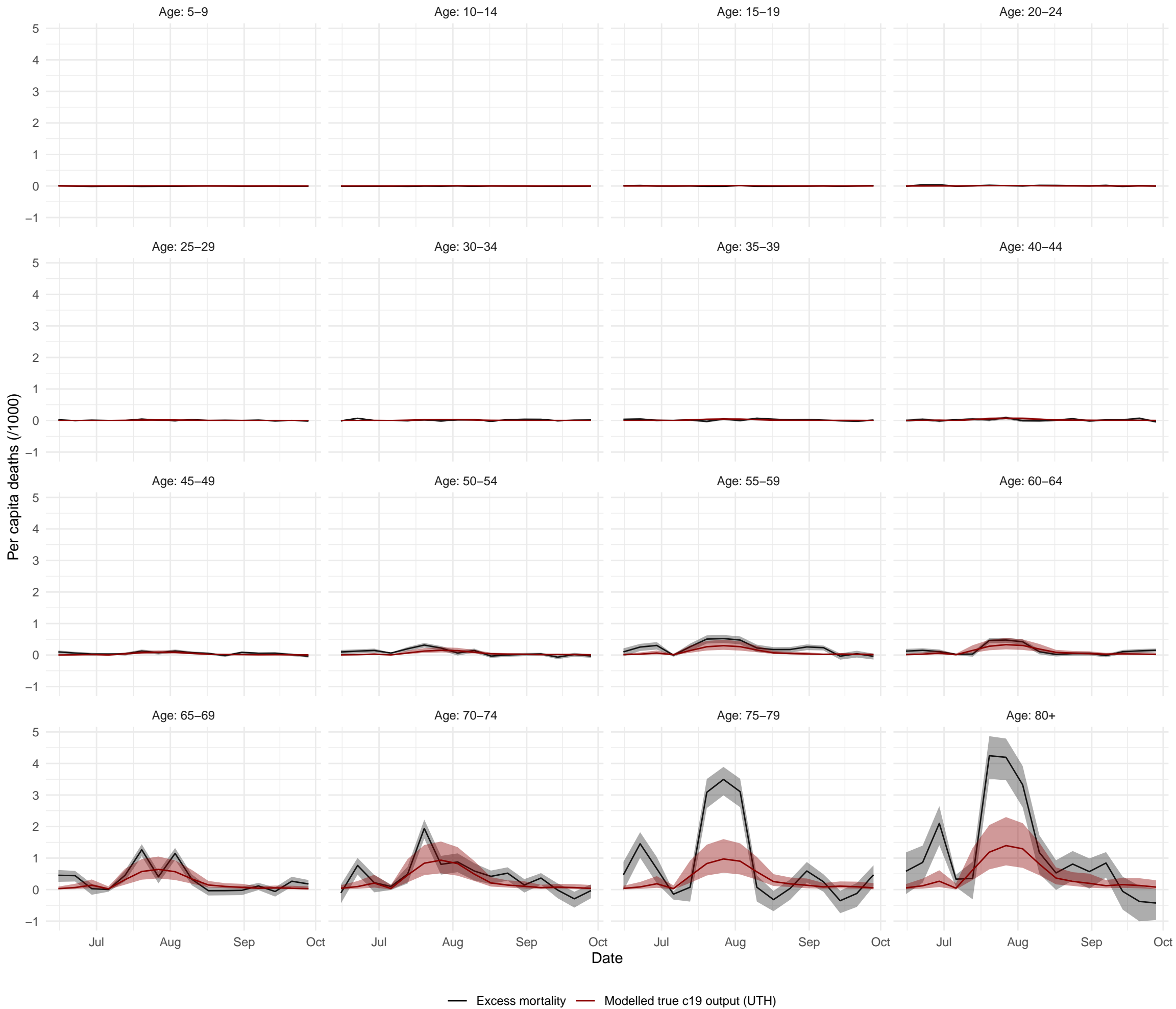
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

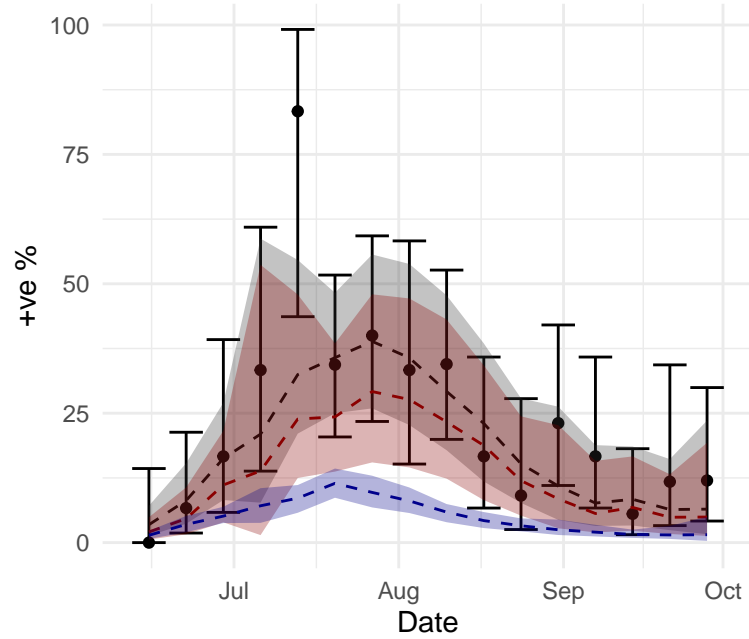




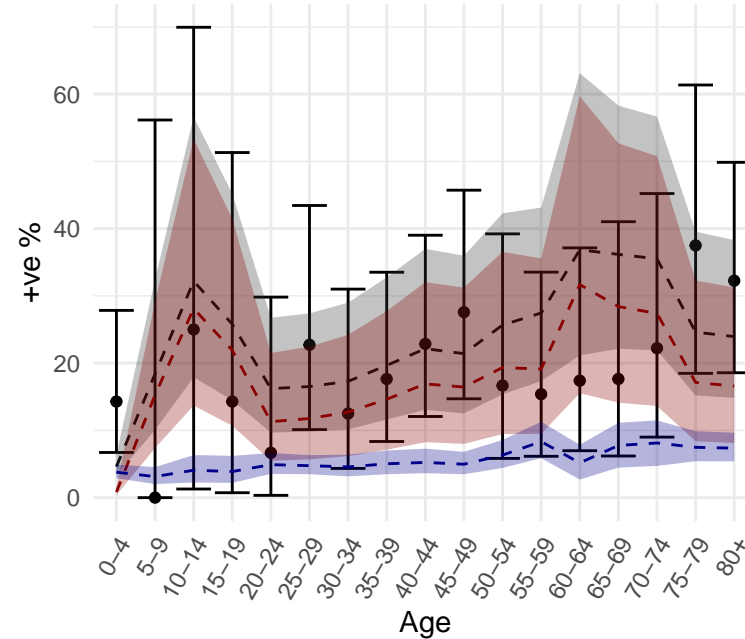
IFR x 0.6, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



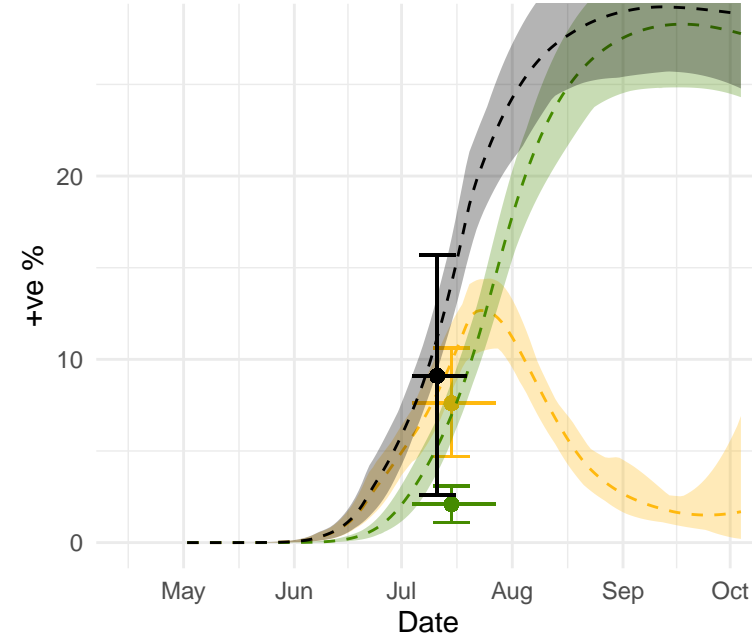
IFR x 0.8, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

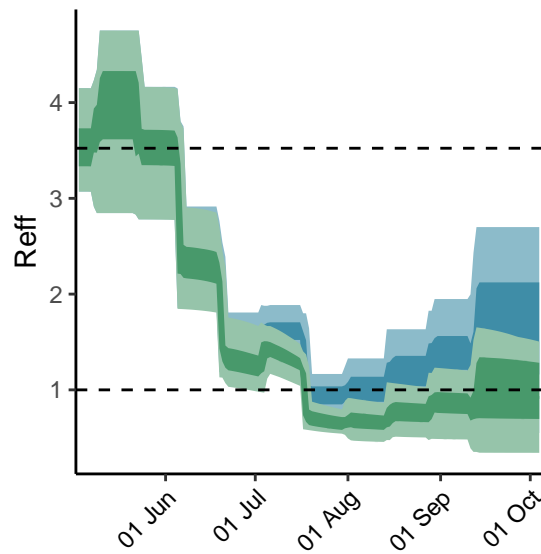


COVID-19 prevalence
Lusaka/Zambia

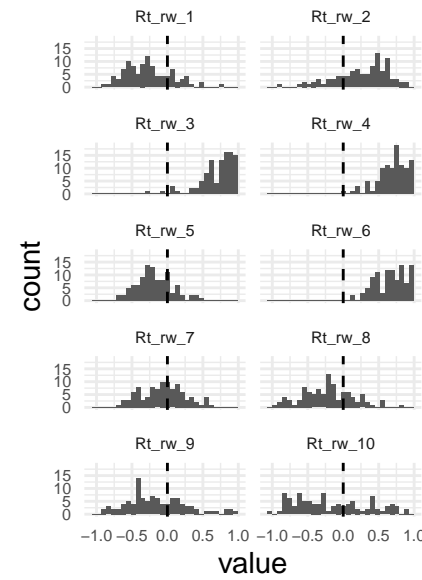


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

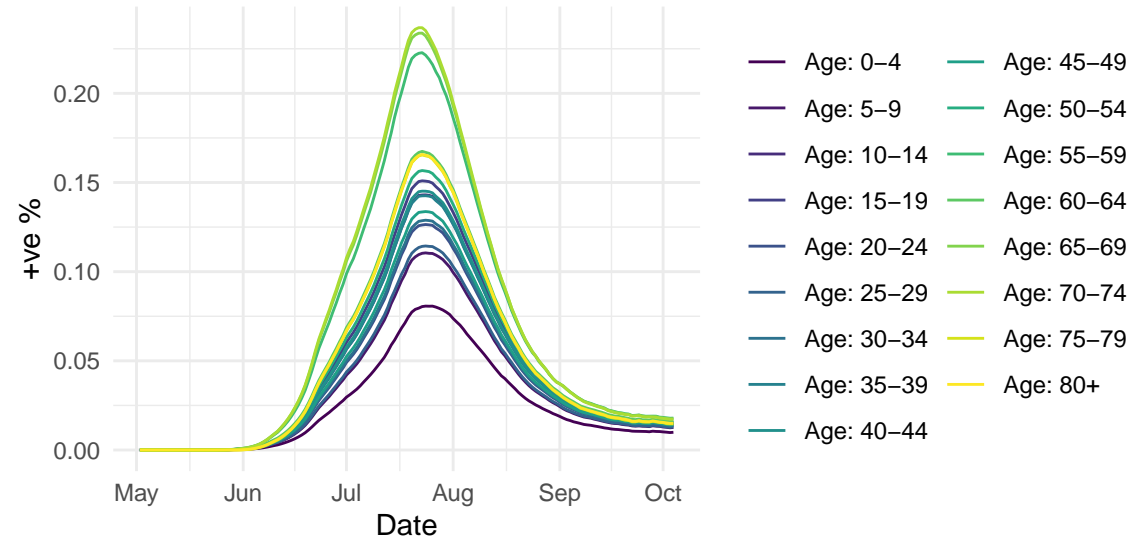
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



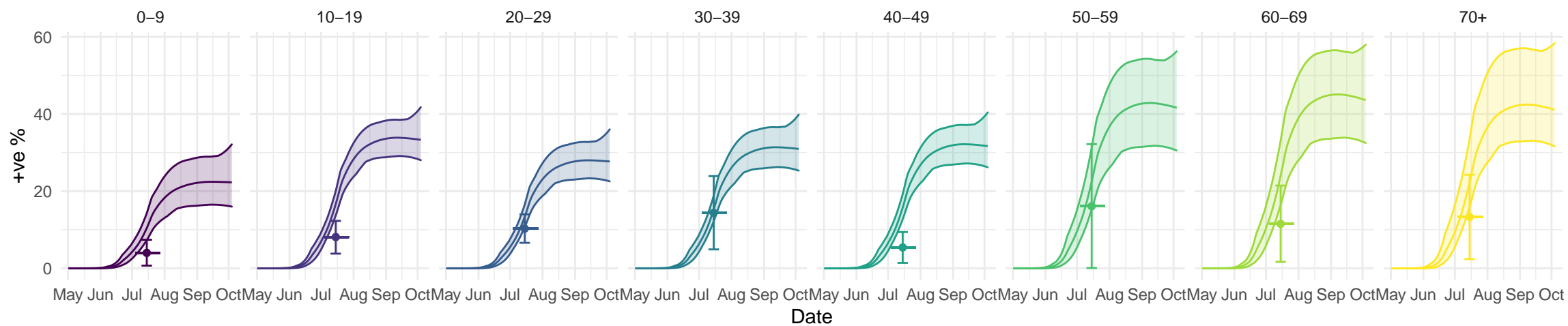
Reff
Rt

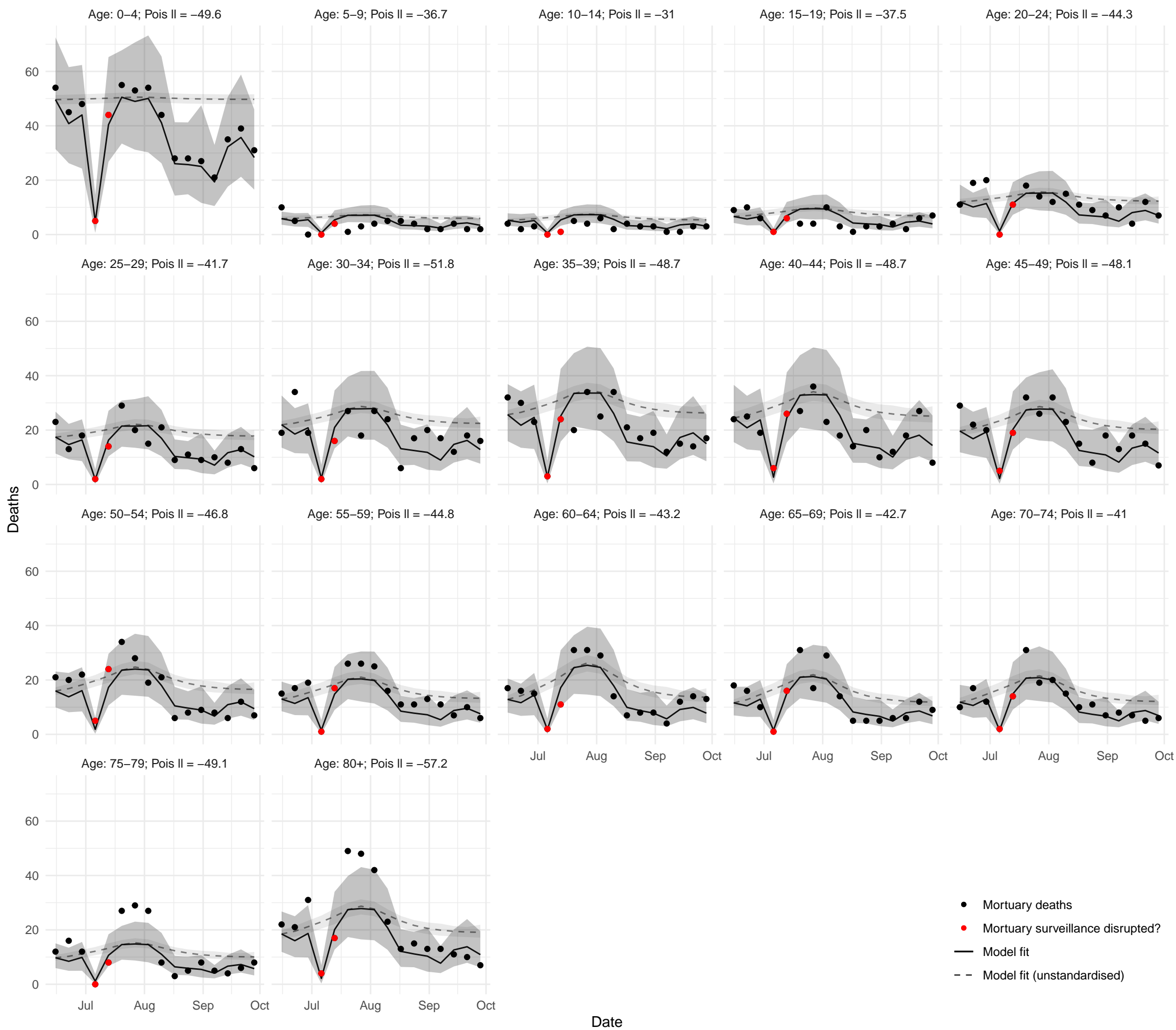


Modelled PCR %

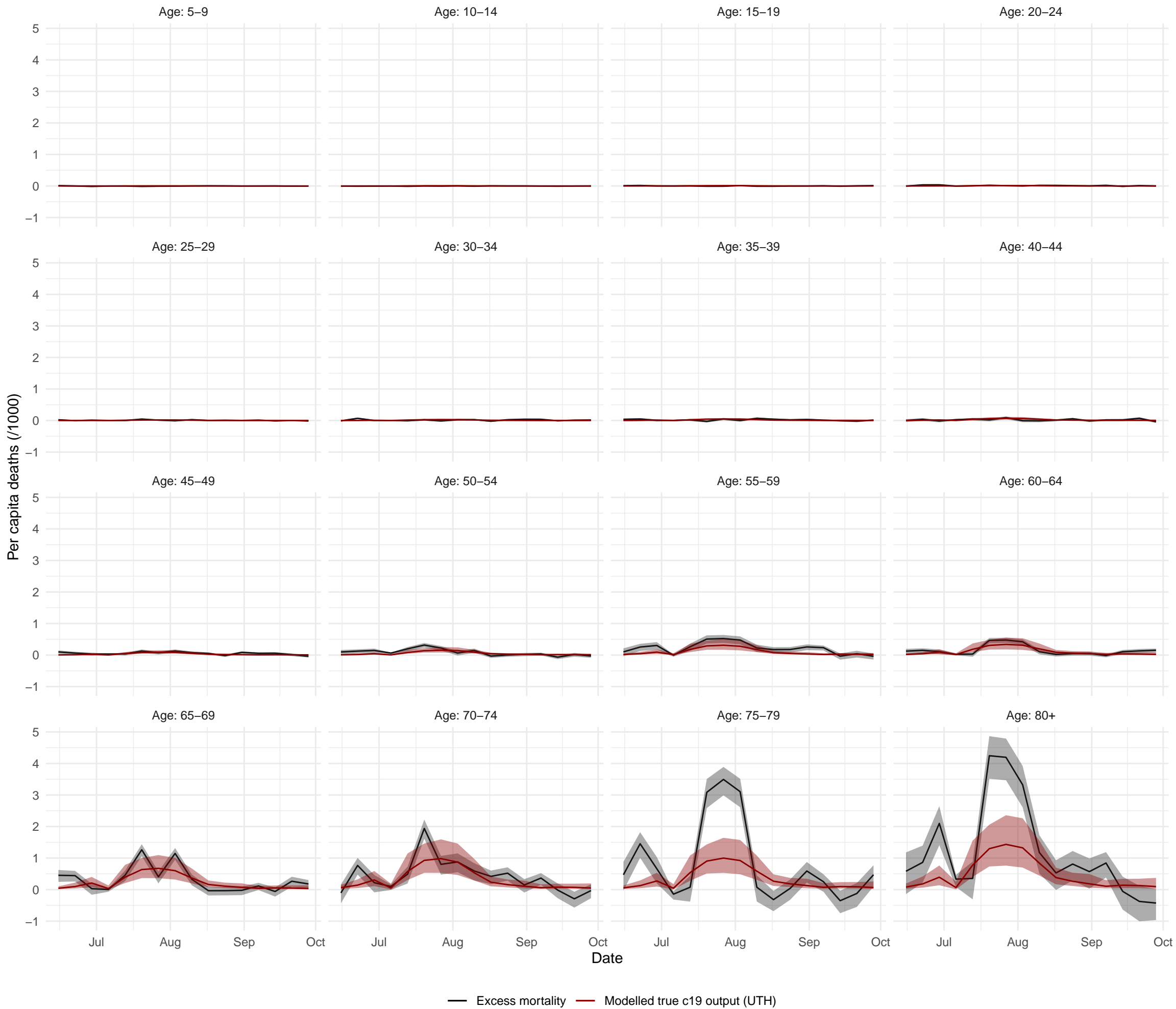


Modelled combined prevalence, Lusaka/Zambia

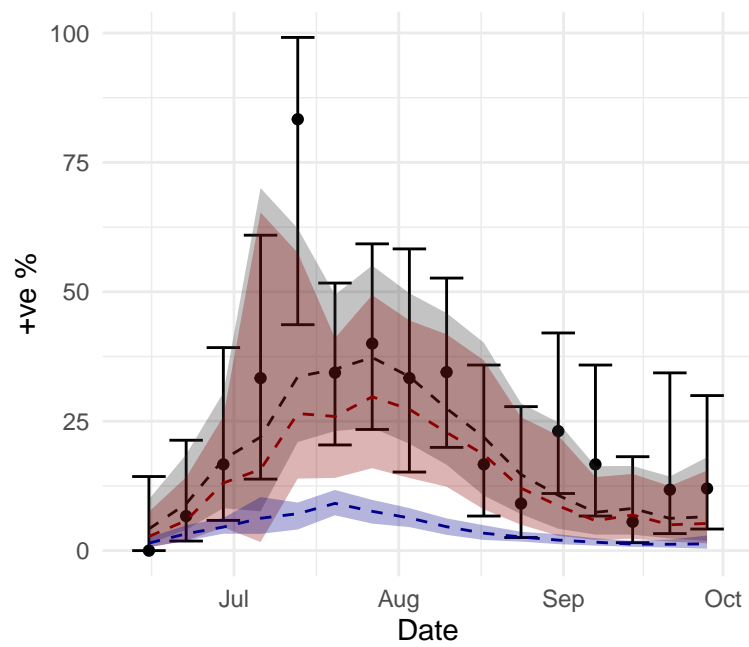




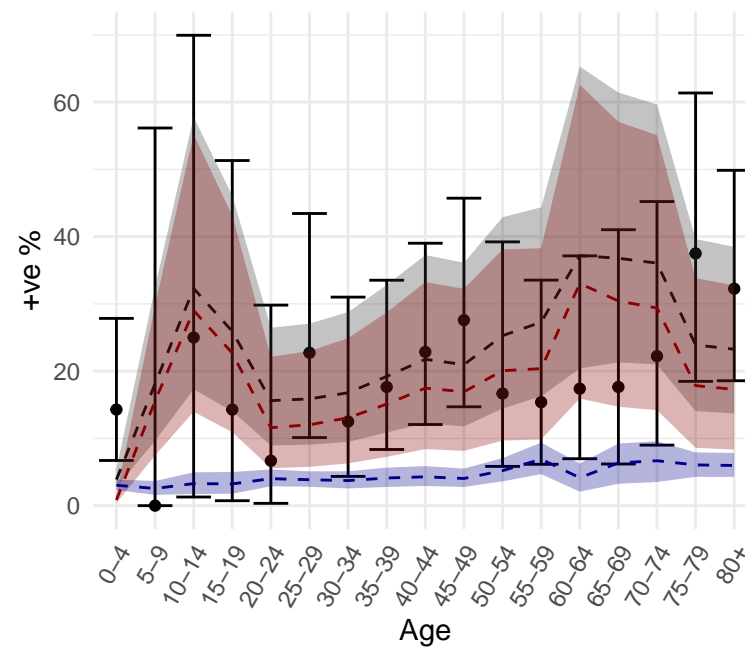
IFR x 0.8, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



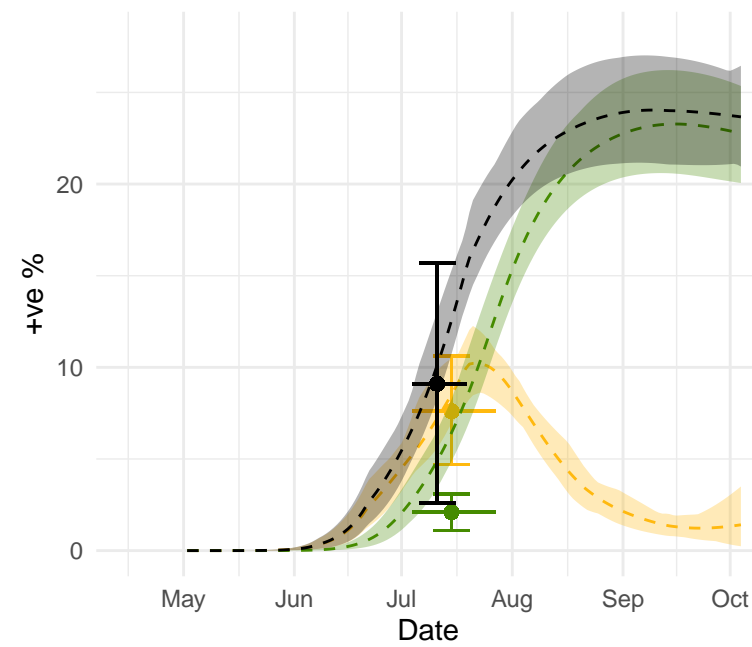
IFR x 1, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

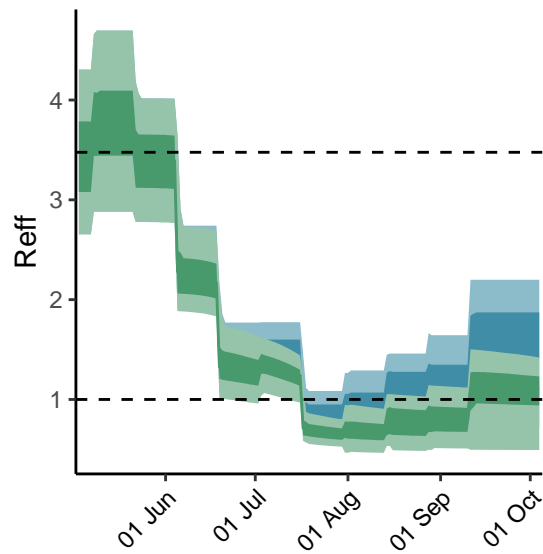


COVID-19 prevalence
Lusaka/Zambia

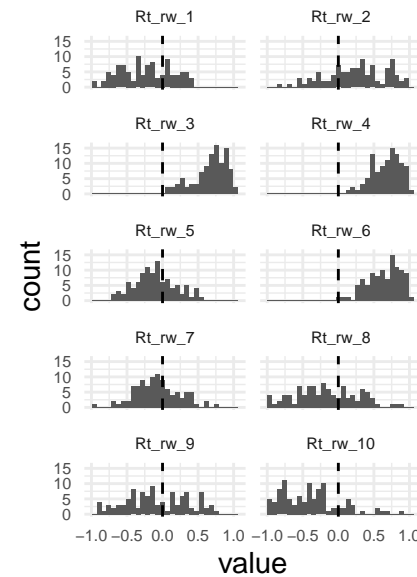


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

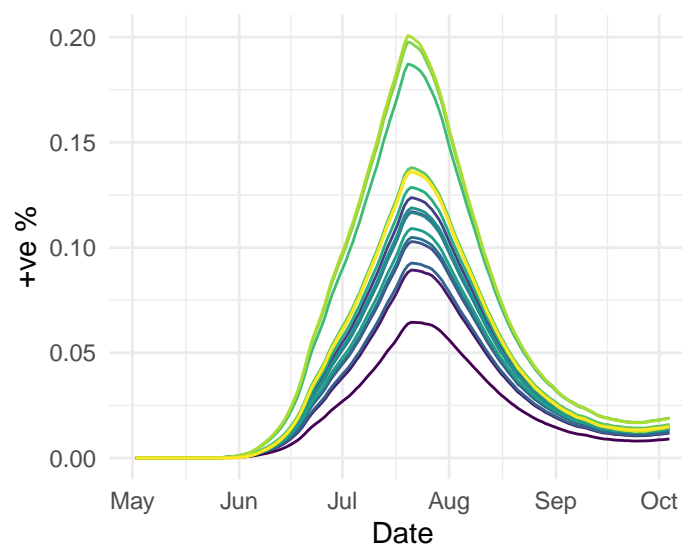
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

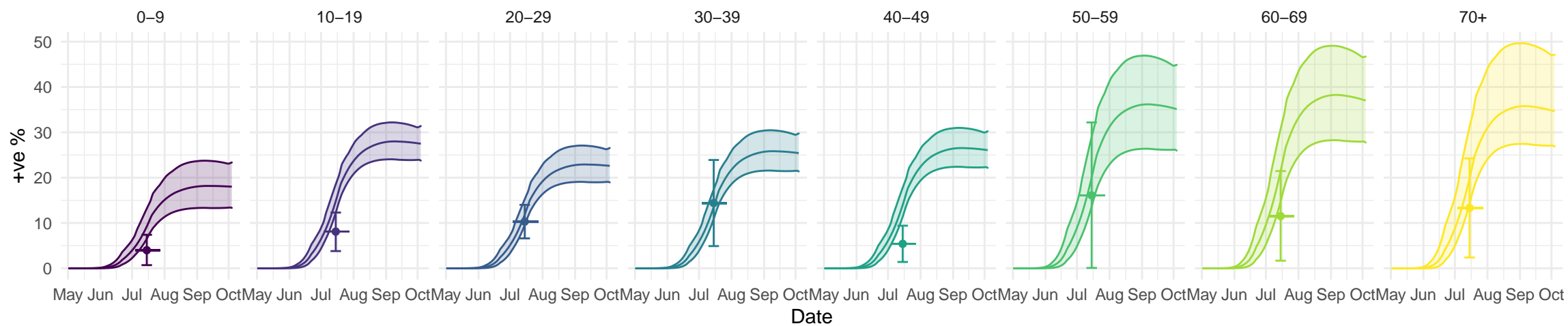


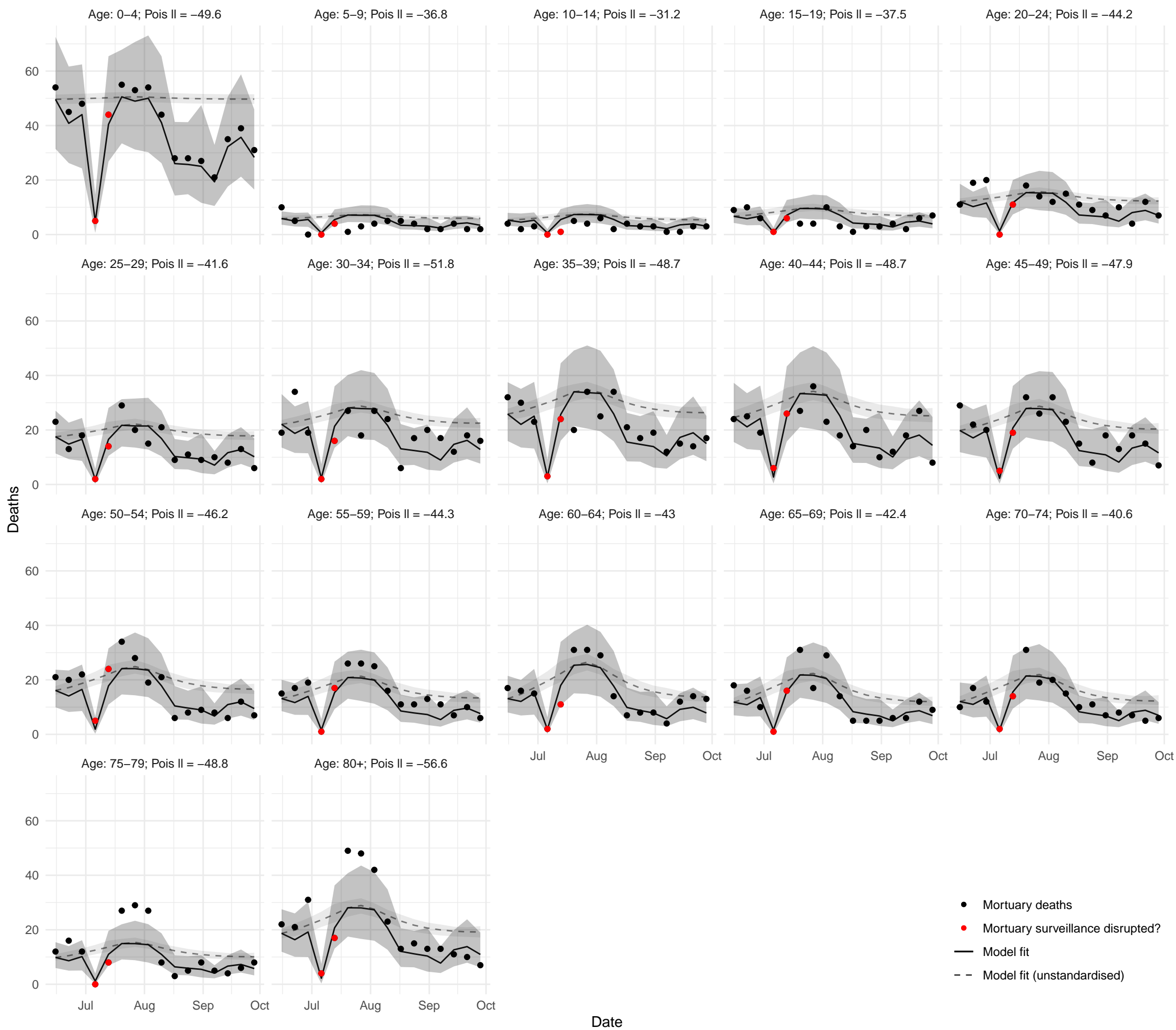
Modelled PCR %



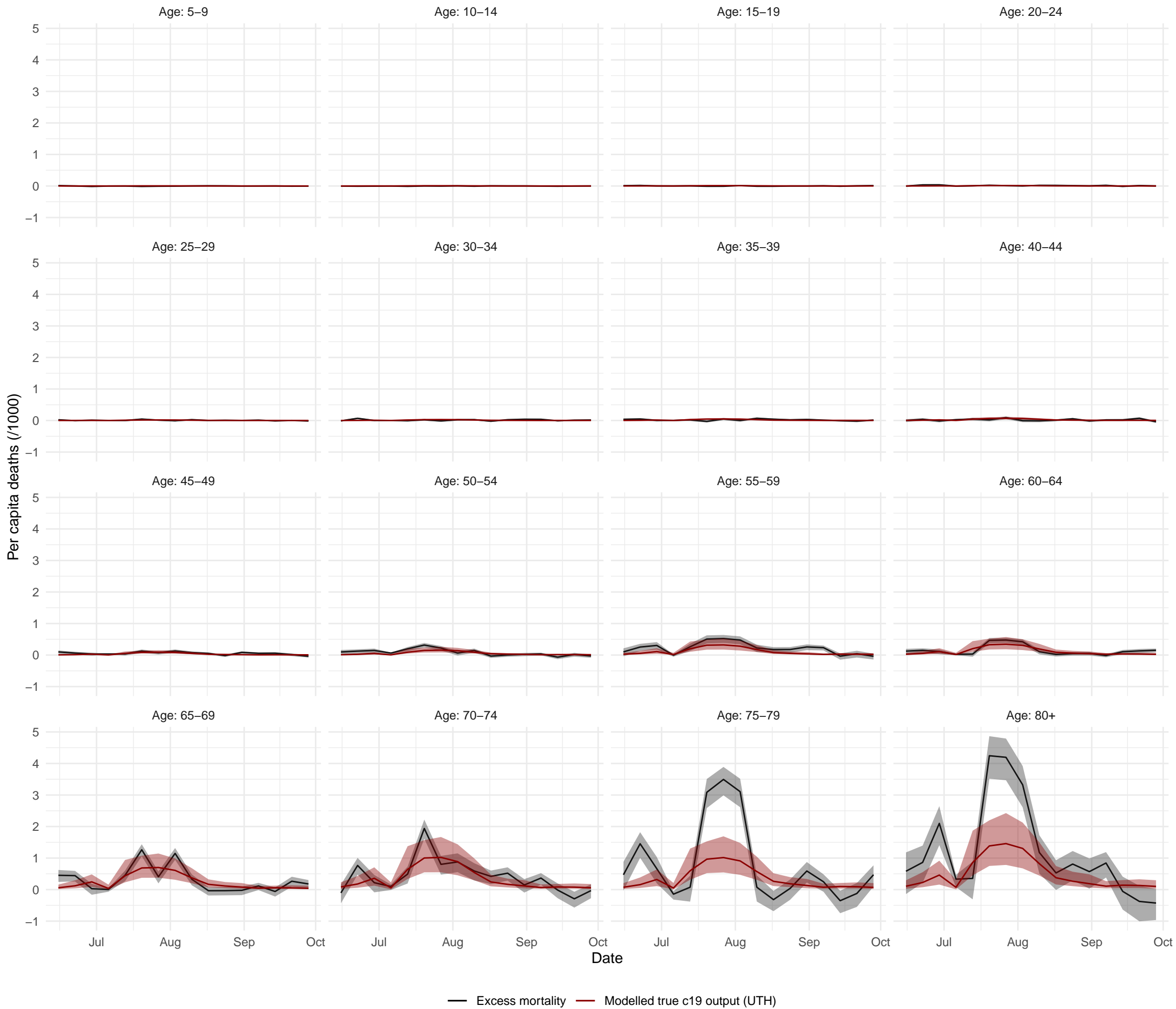
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

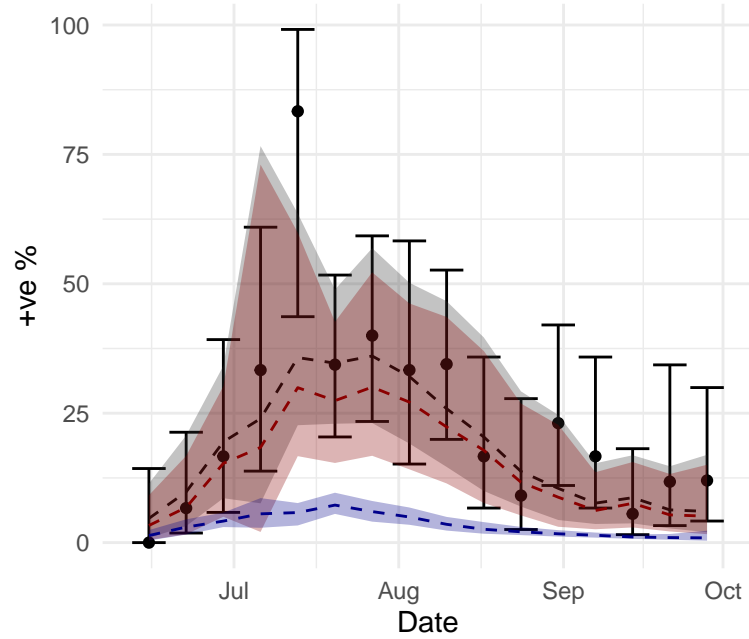




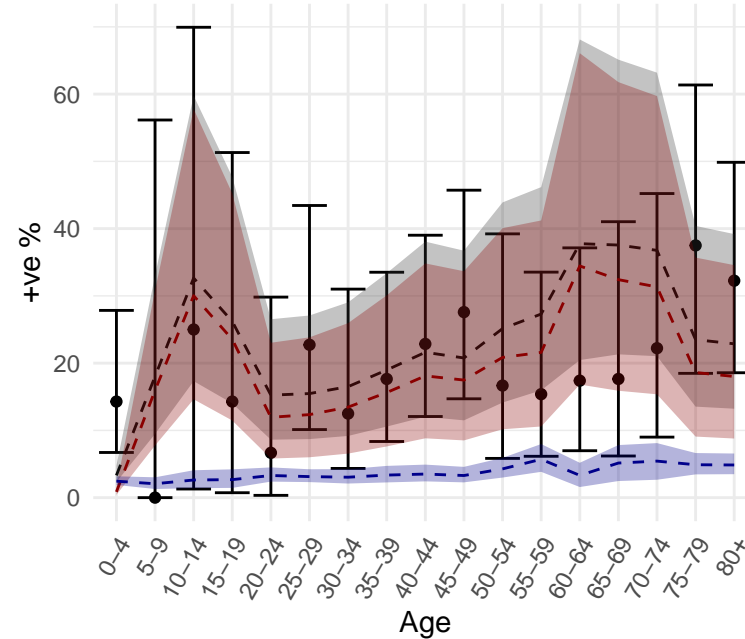
IFR x 1, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



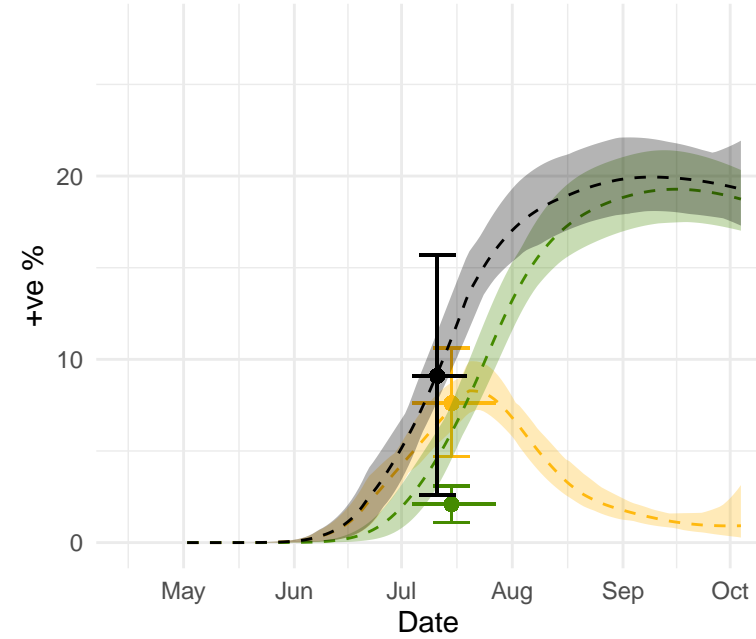
IFR x 1.25, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

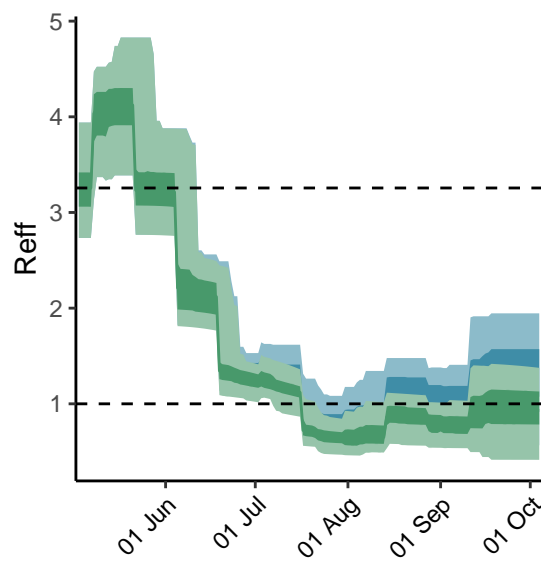


COVID-19 prevalence
Lusaka/Zambia

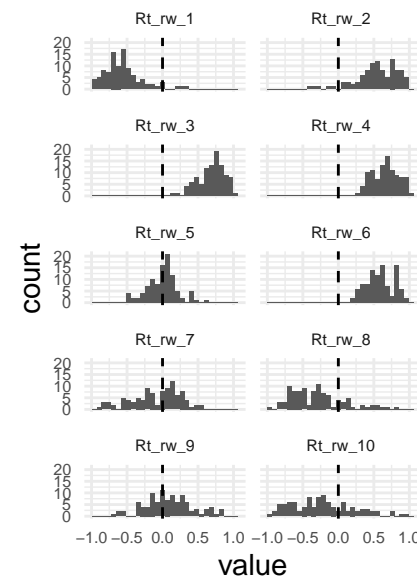


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

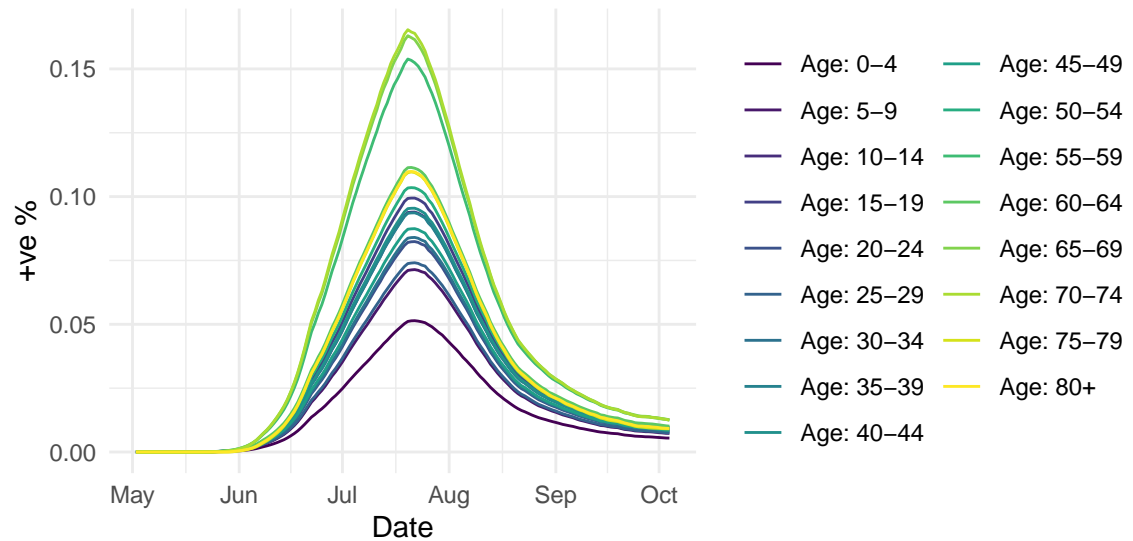
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



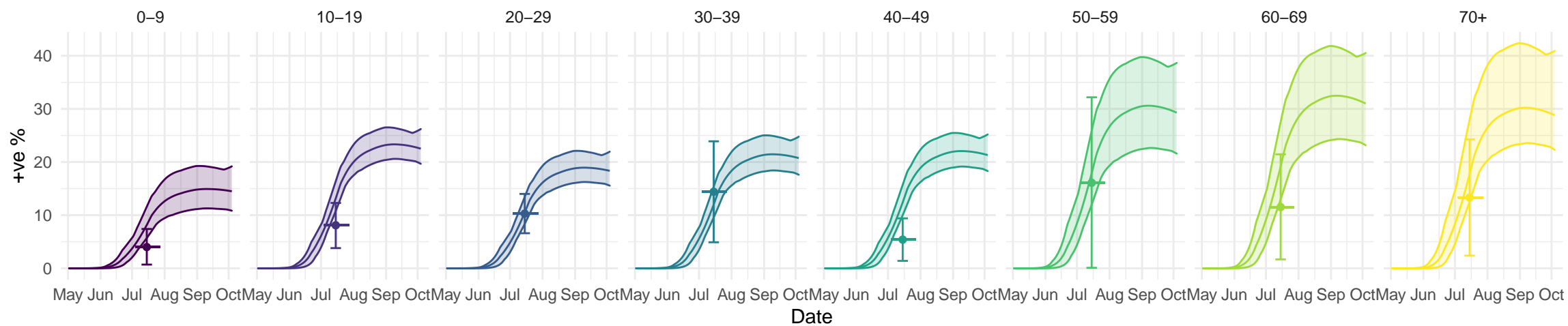
Reff
Rt

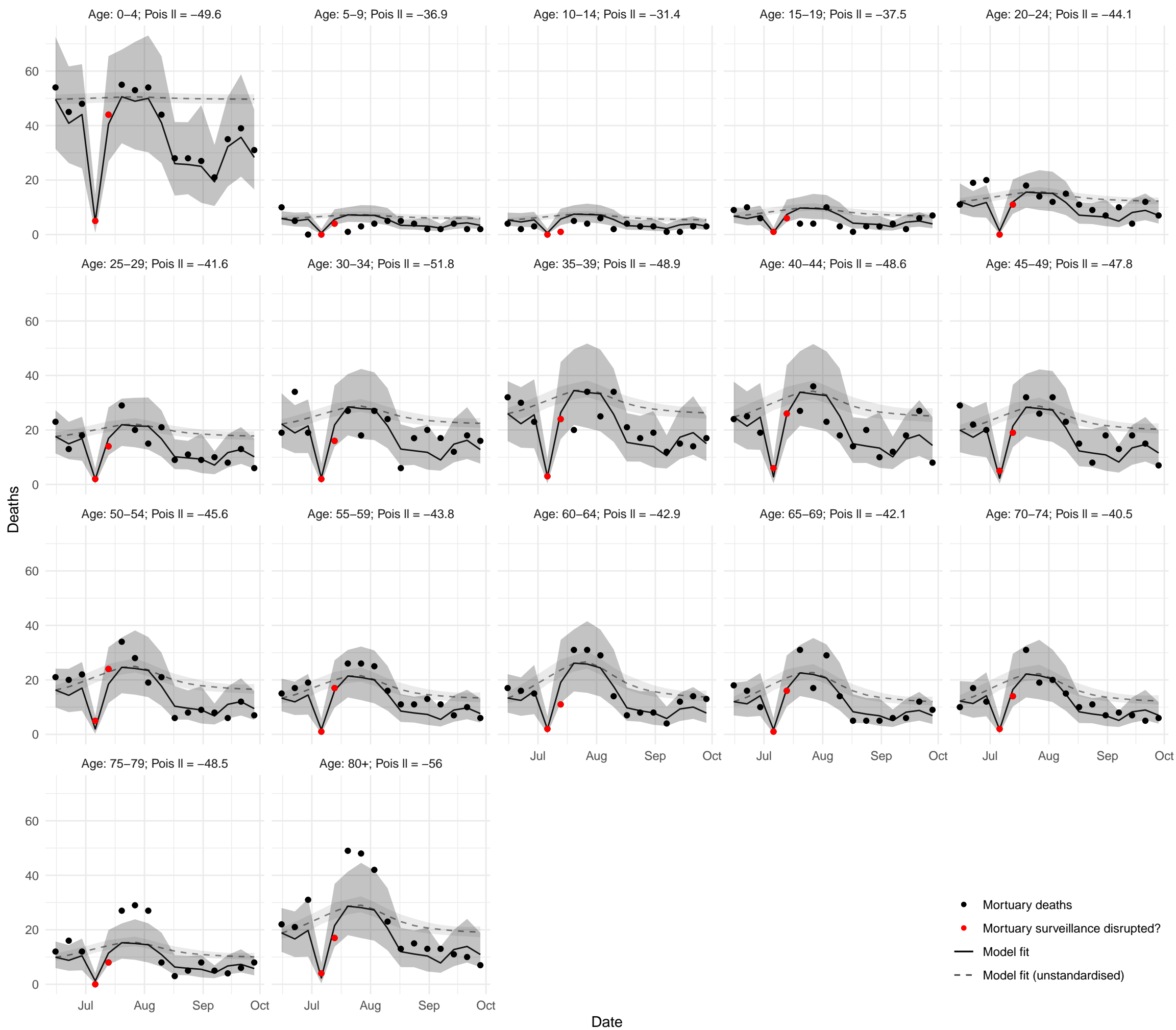


Modelled PCR %

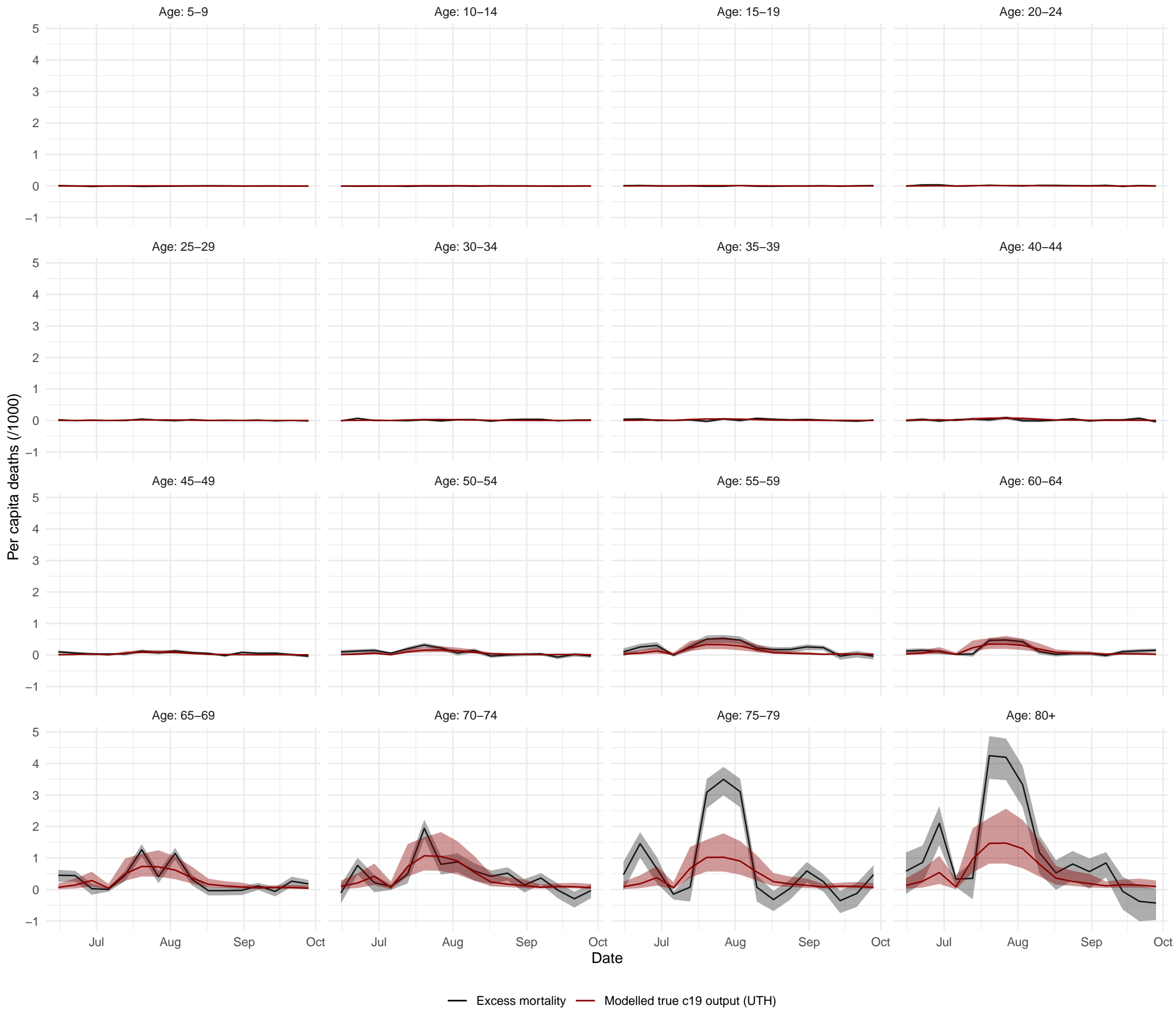


Modelled combined prevalence, Lusaka/Zambia

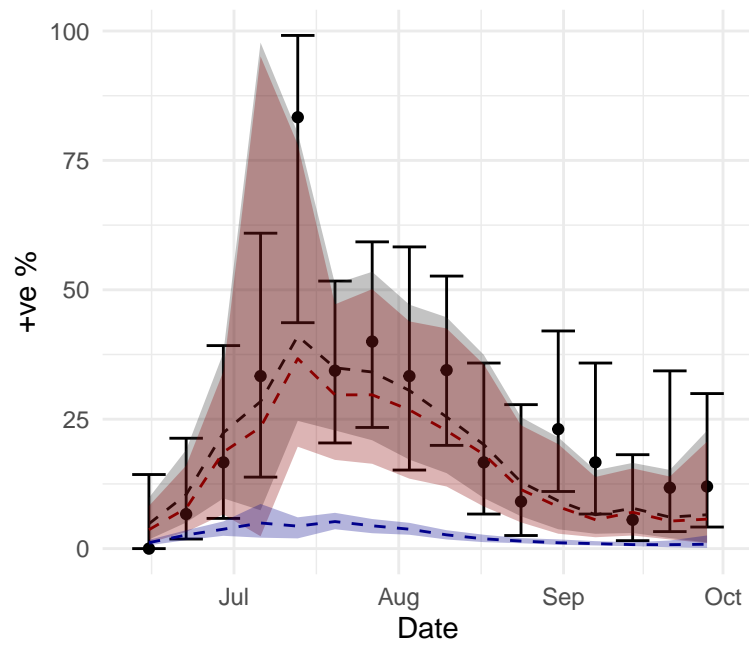




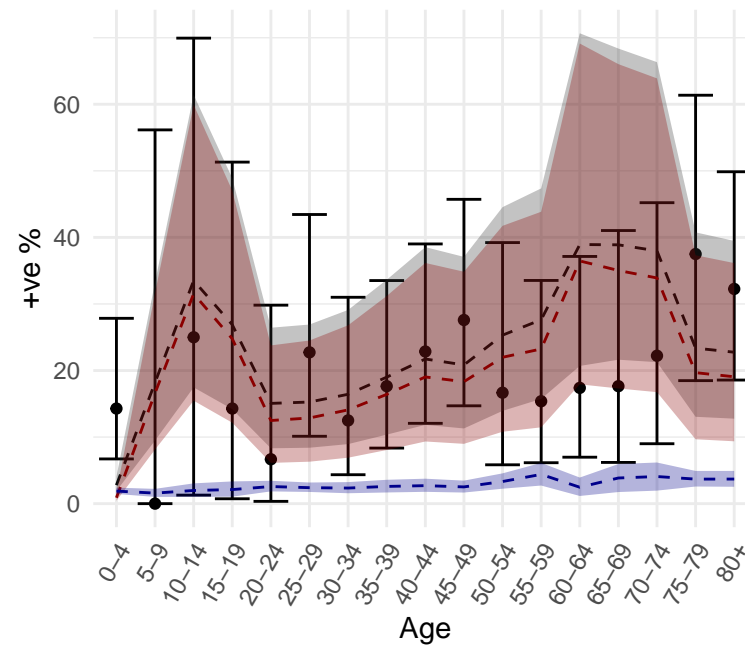
IFR x 1.25, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



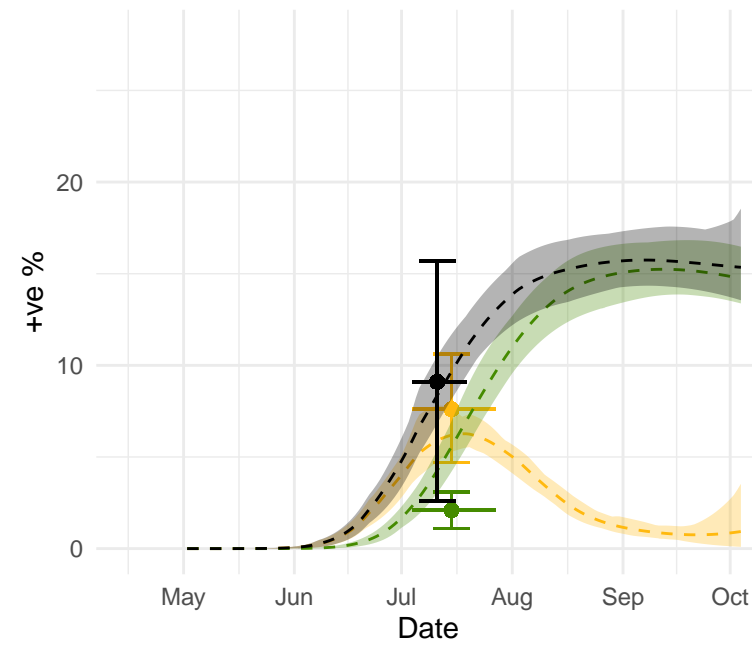
IFR x 1.67, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

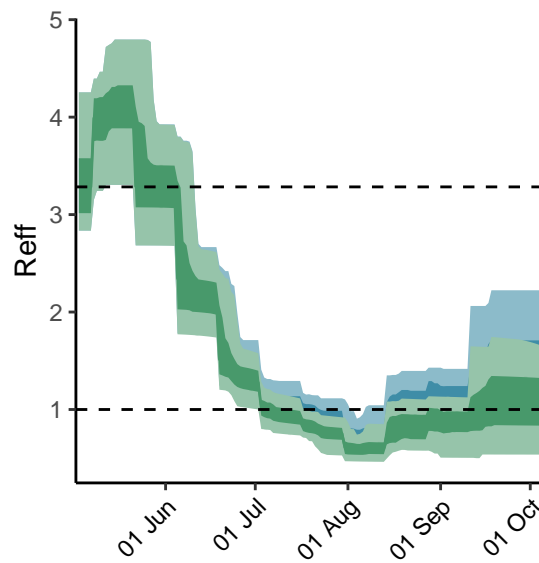


COVID-19 prevalence
Lusaka/Zambia

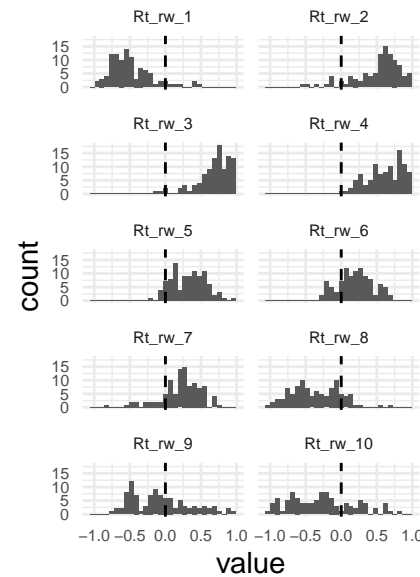


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

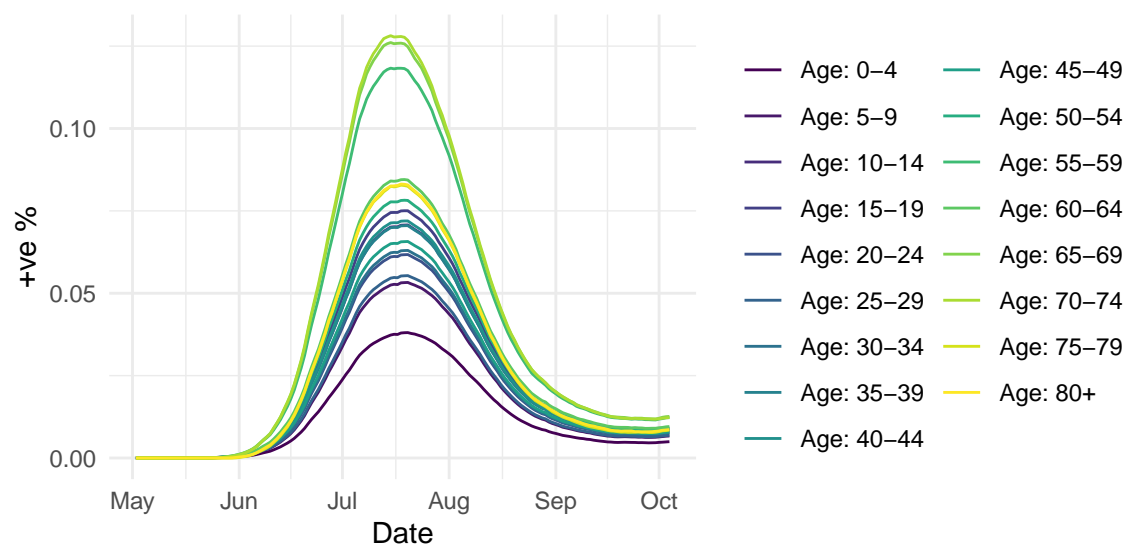
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



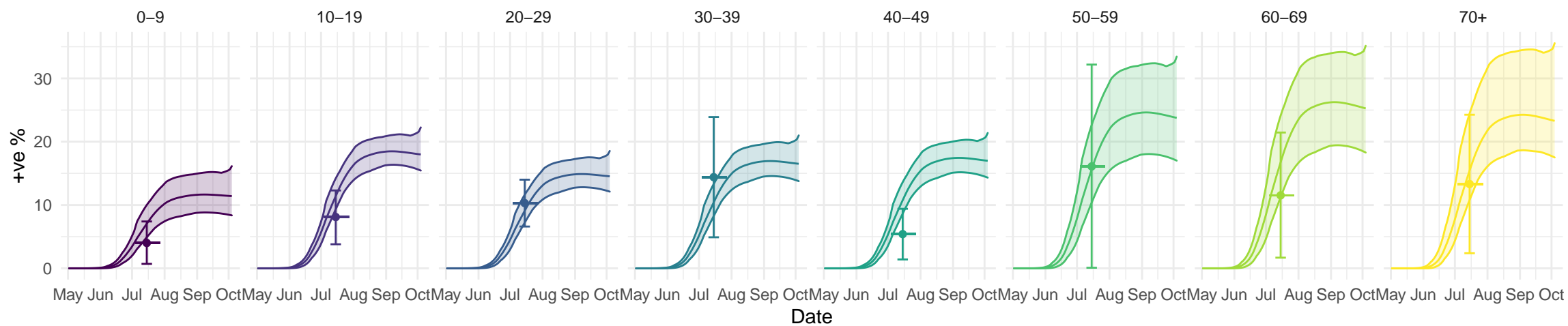
Reff
Rt

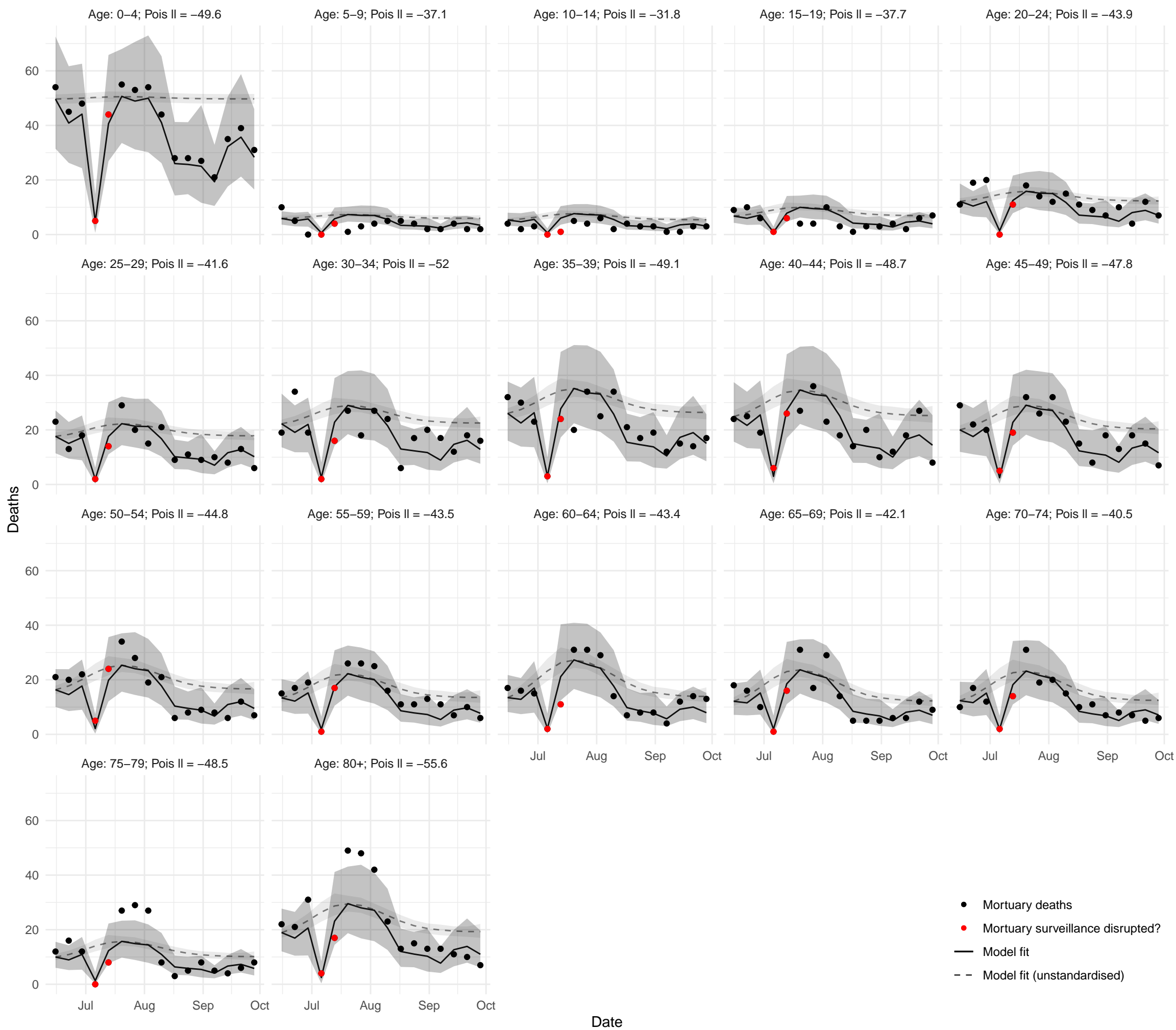


Modelled PCR %

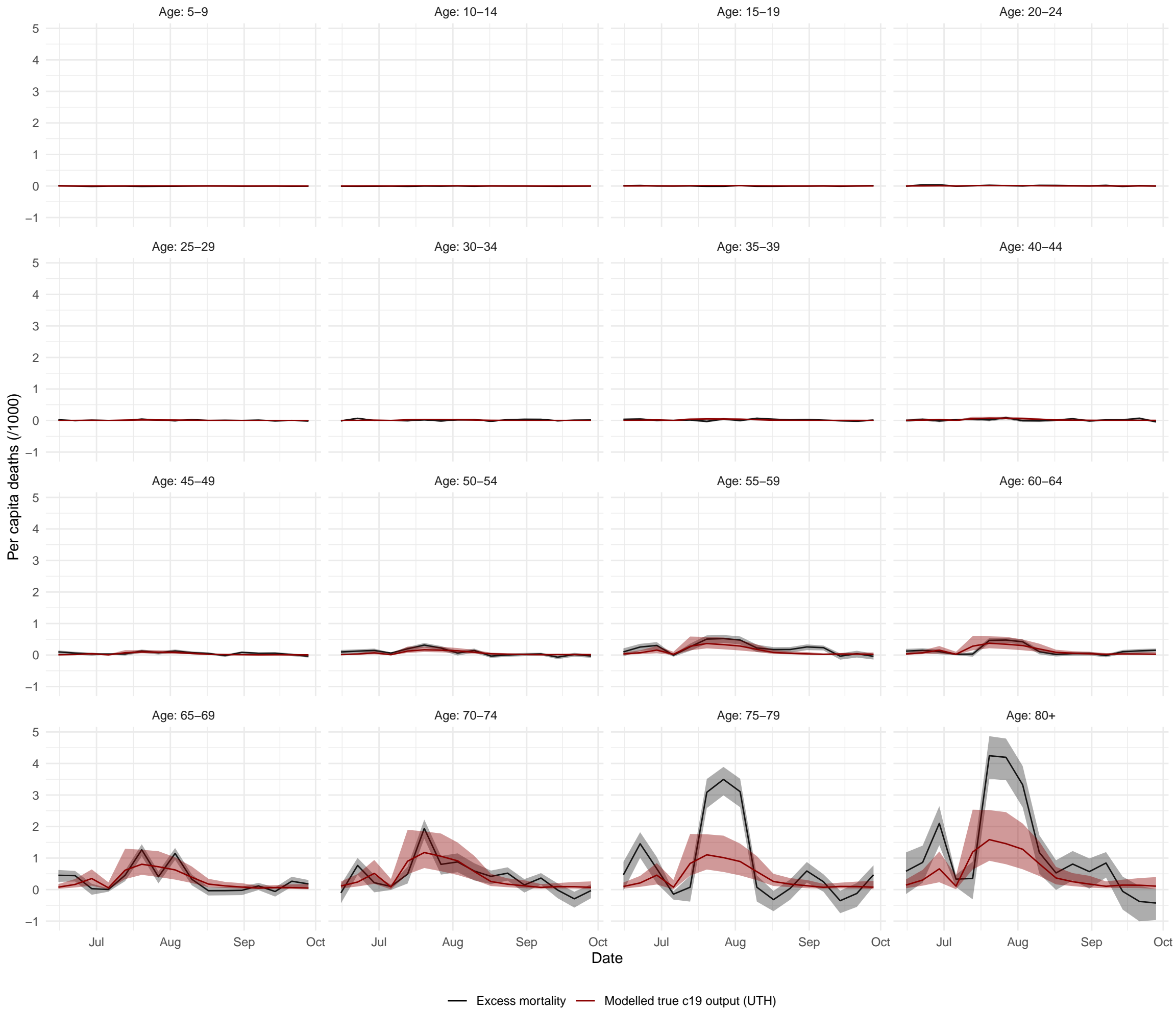


Modelled combined prevalence, Lusaka/Zambia

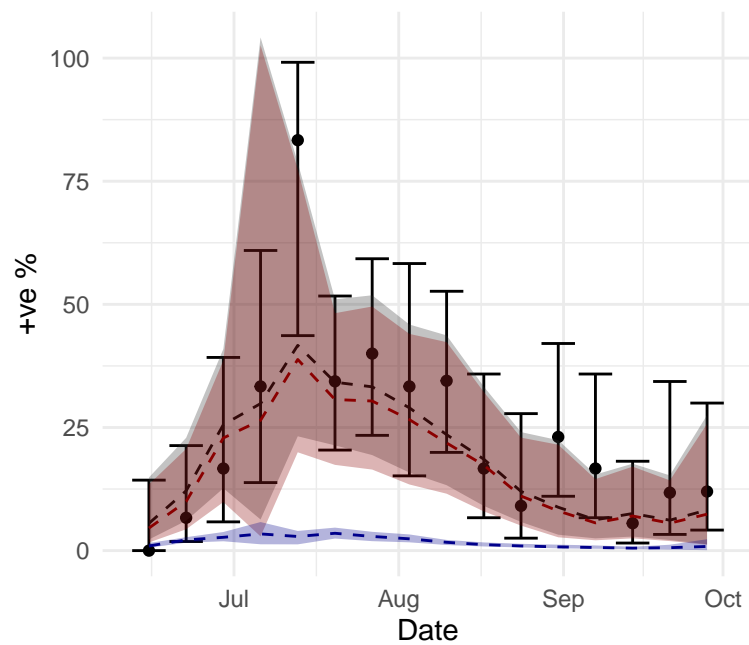




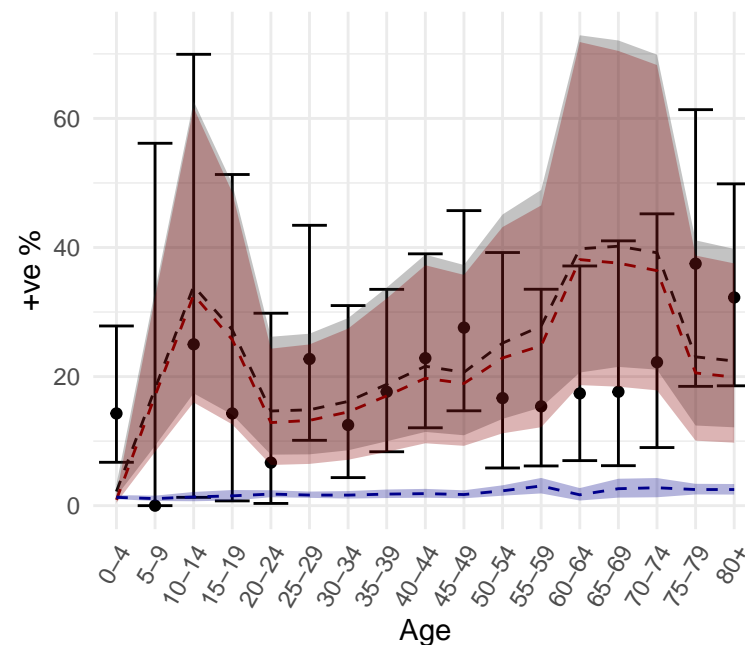
IFR x 1.67, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



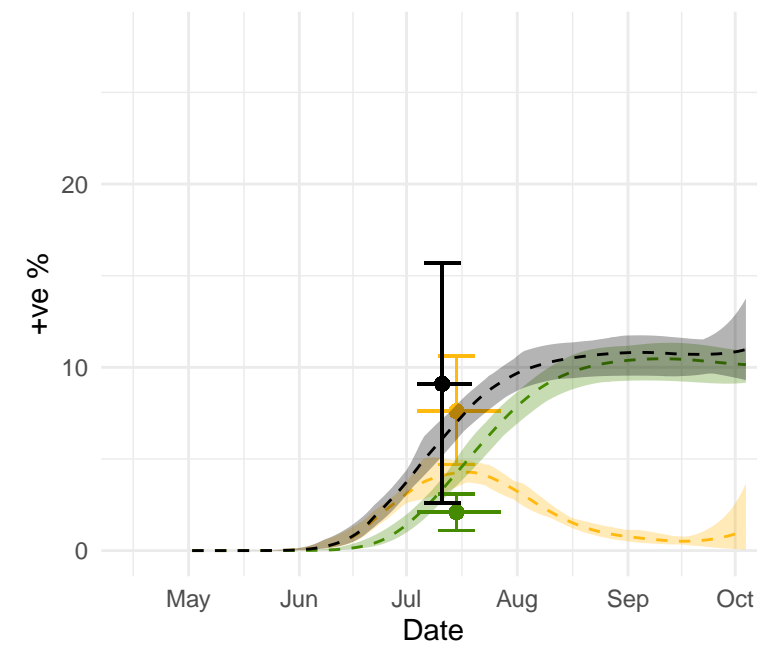
IFR x 2.5, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

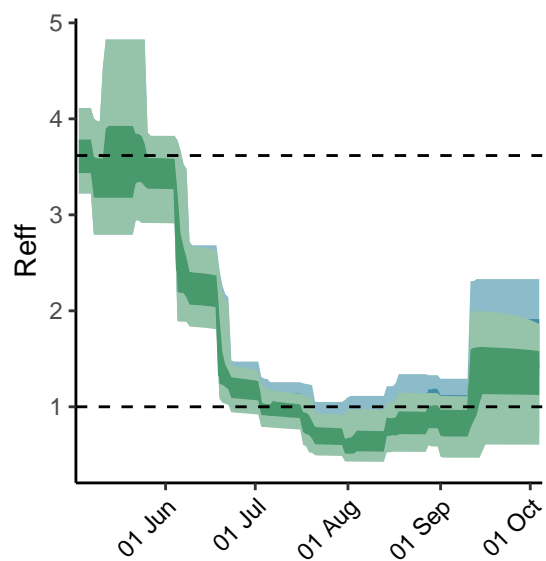


COVID-19 prevalence
Lusaka/Zambia

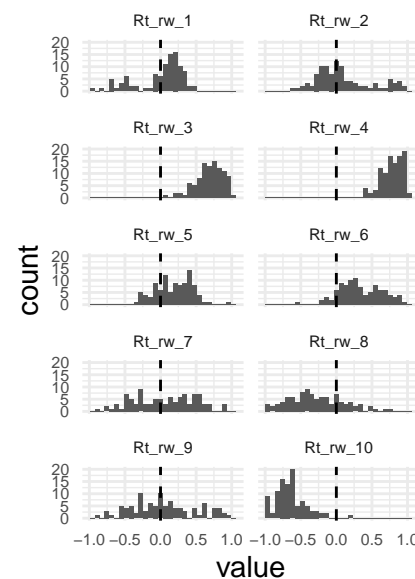


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

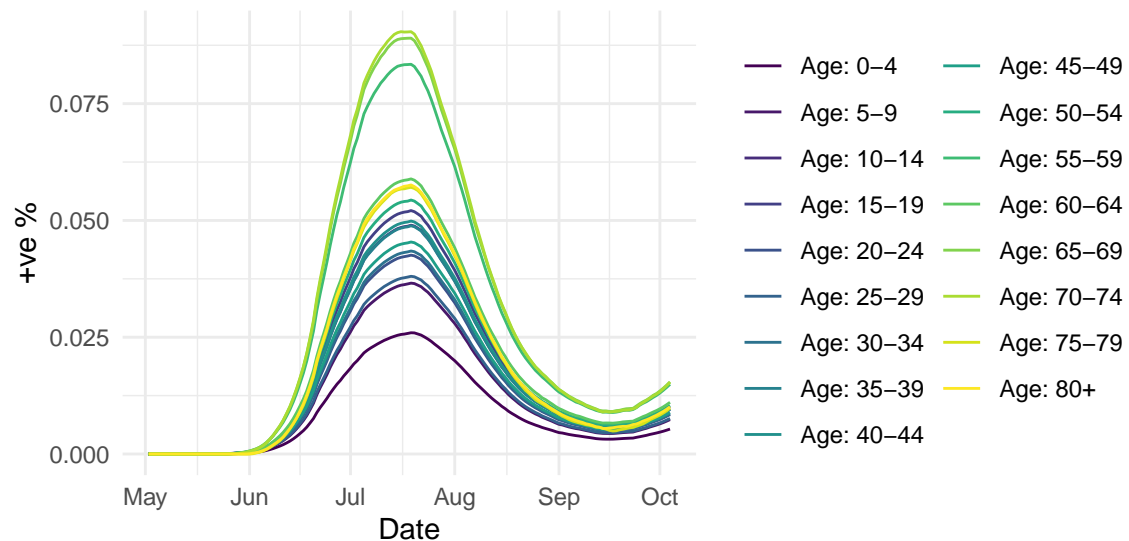
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



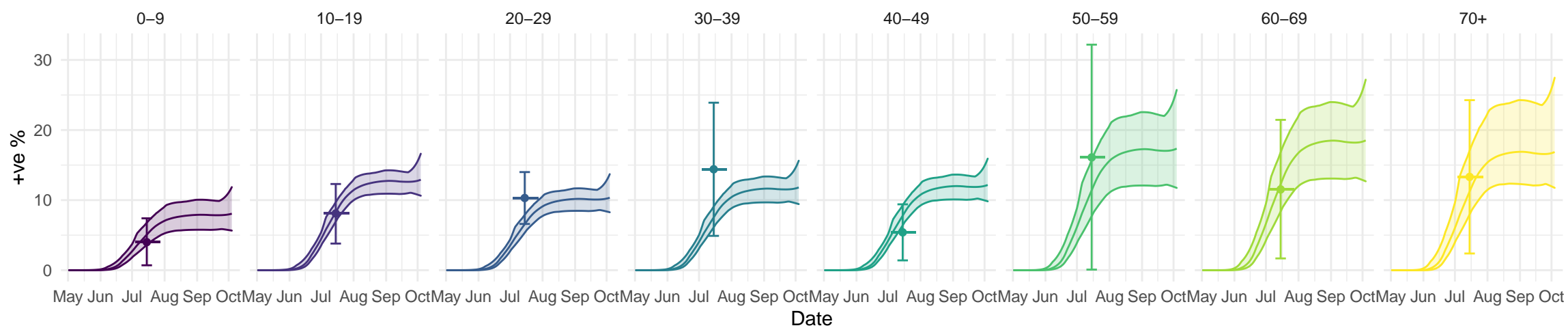
Reff
Rt

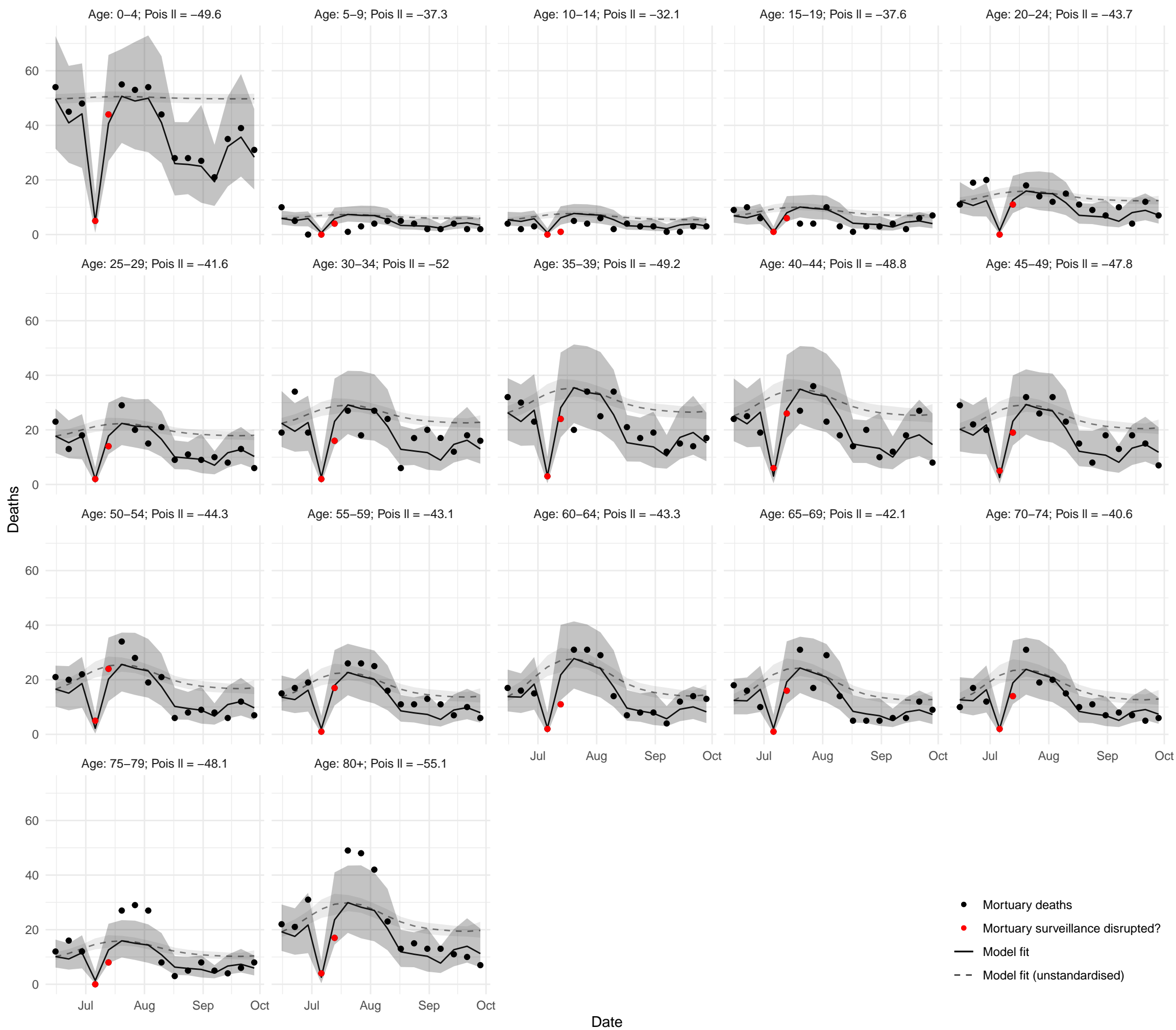


Modelled PCR %

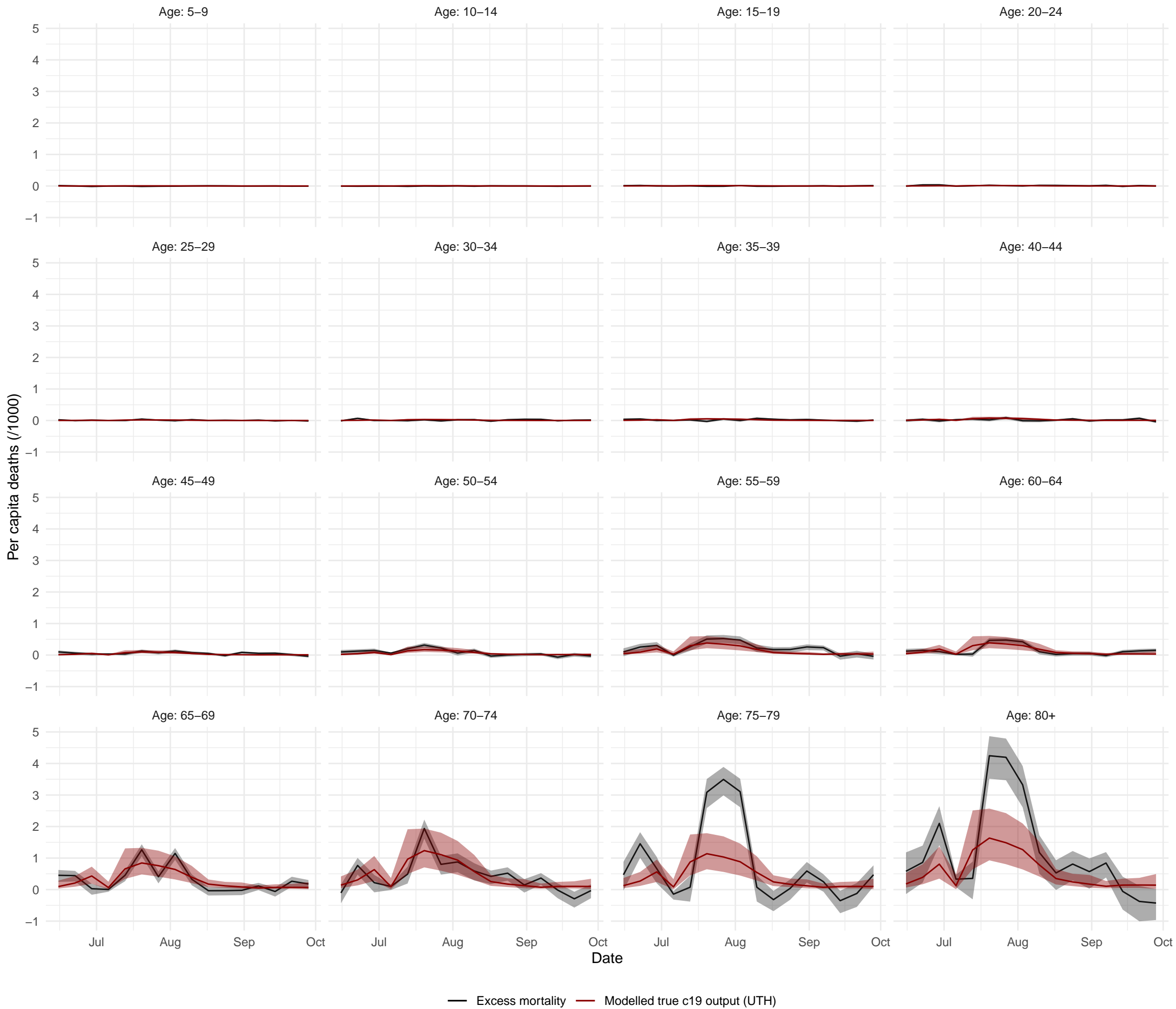


Modelled combined prevalence, Lusaka/Zambia

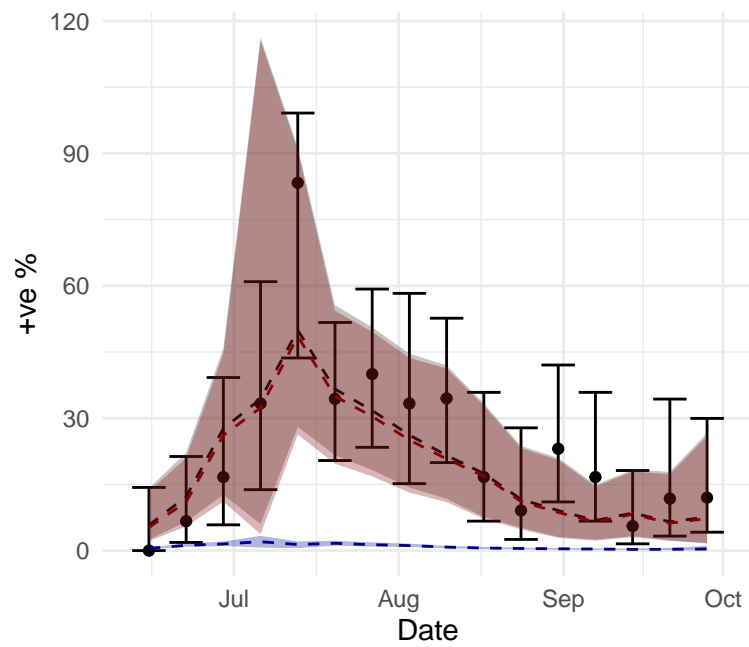




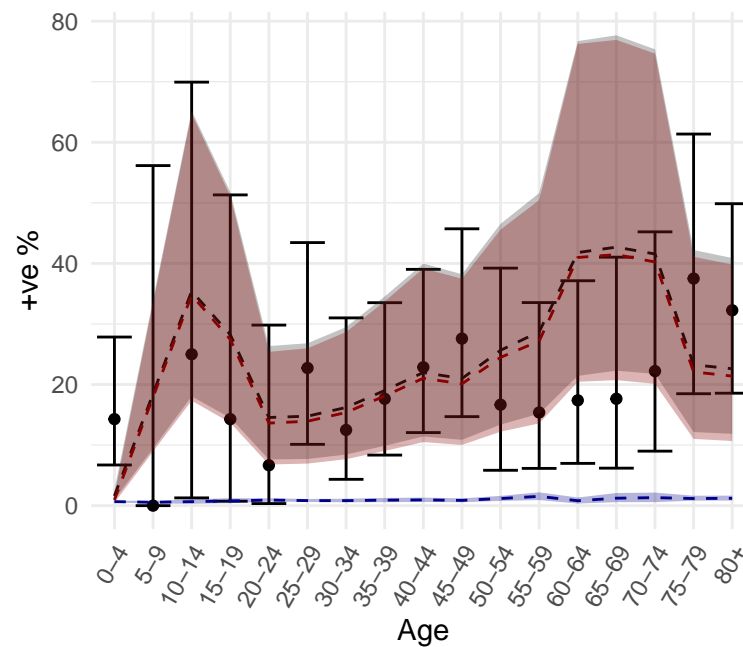
IFR x 2.5, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



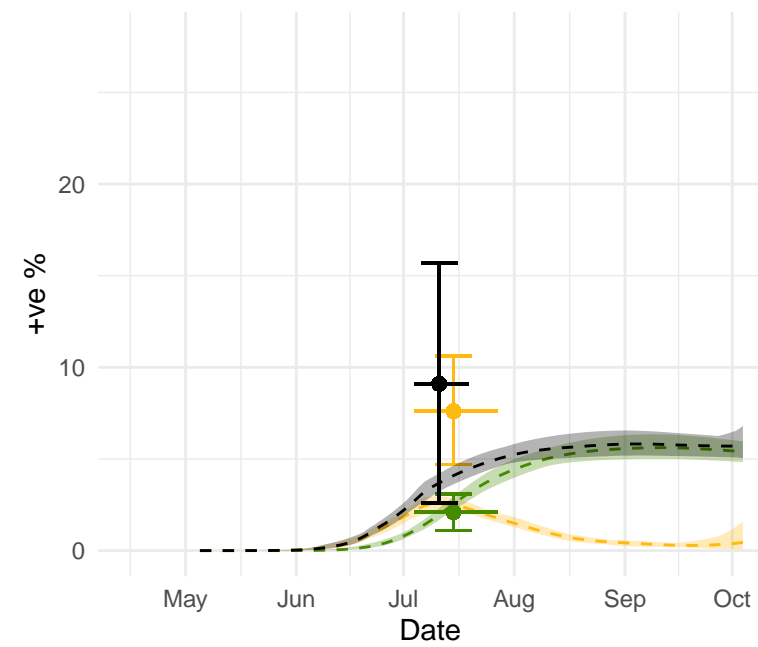
IFR x 5, Slope x 0.8
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

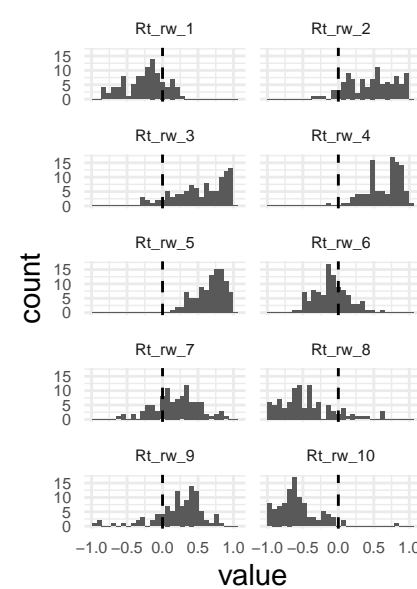
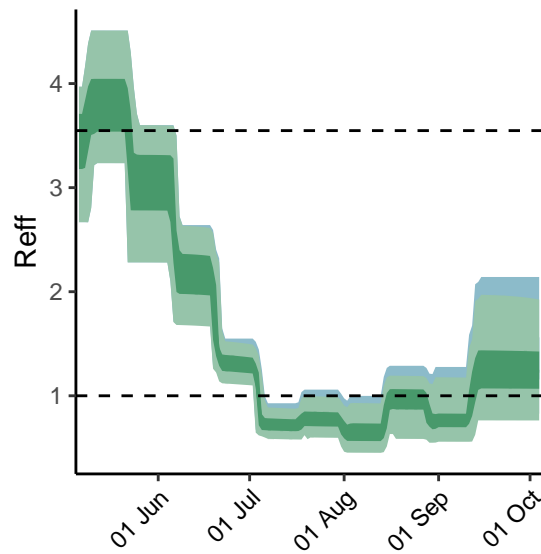


COVID-19 prevalence
Lusaka/Zambia

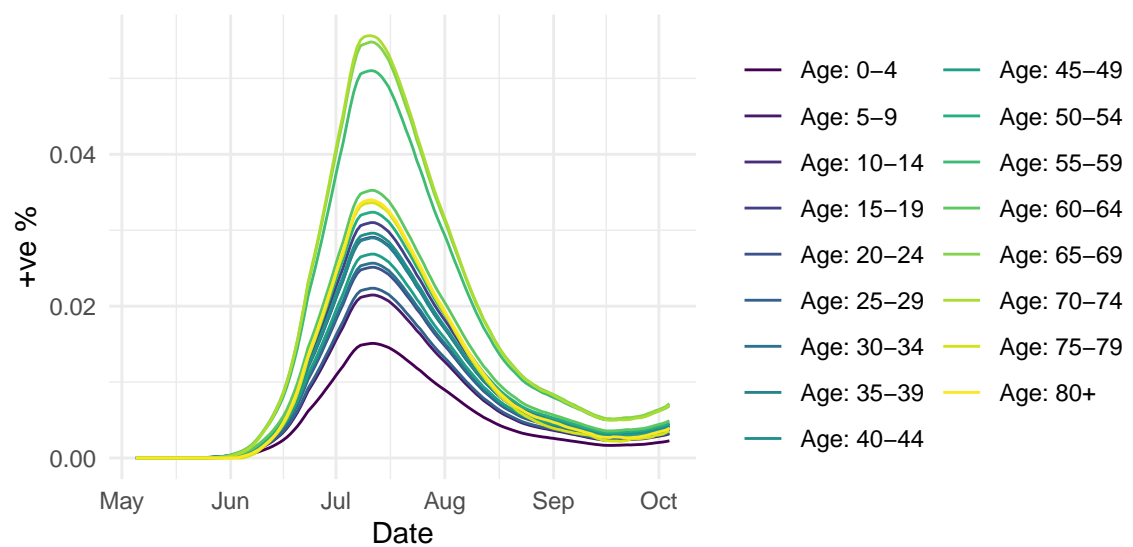


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

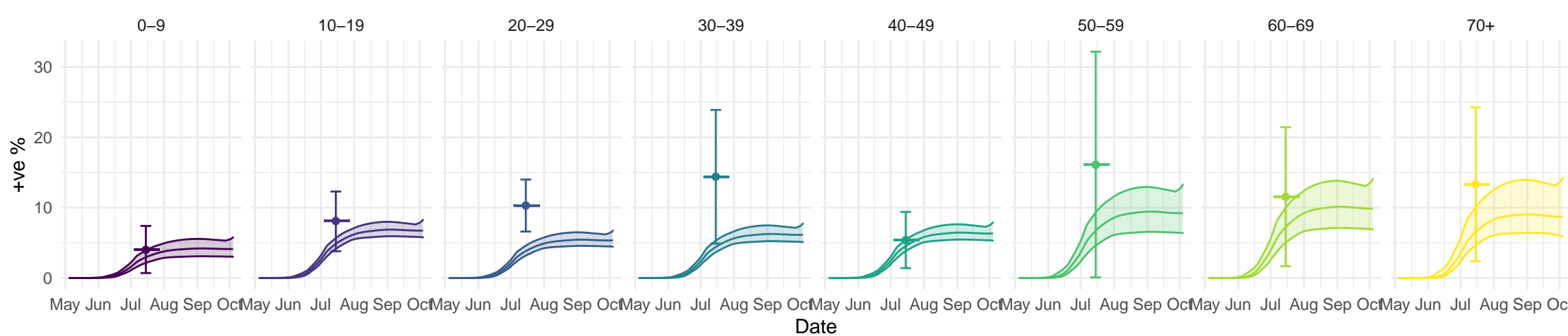
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

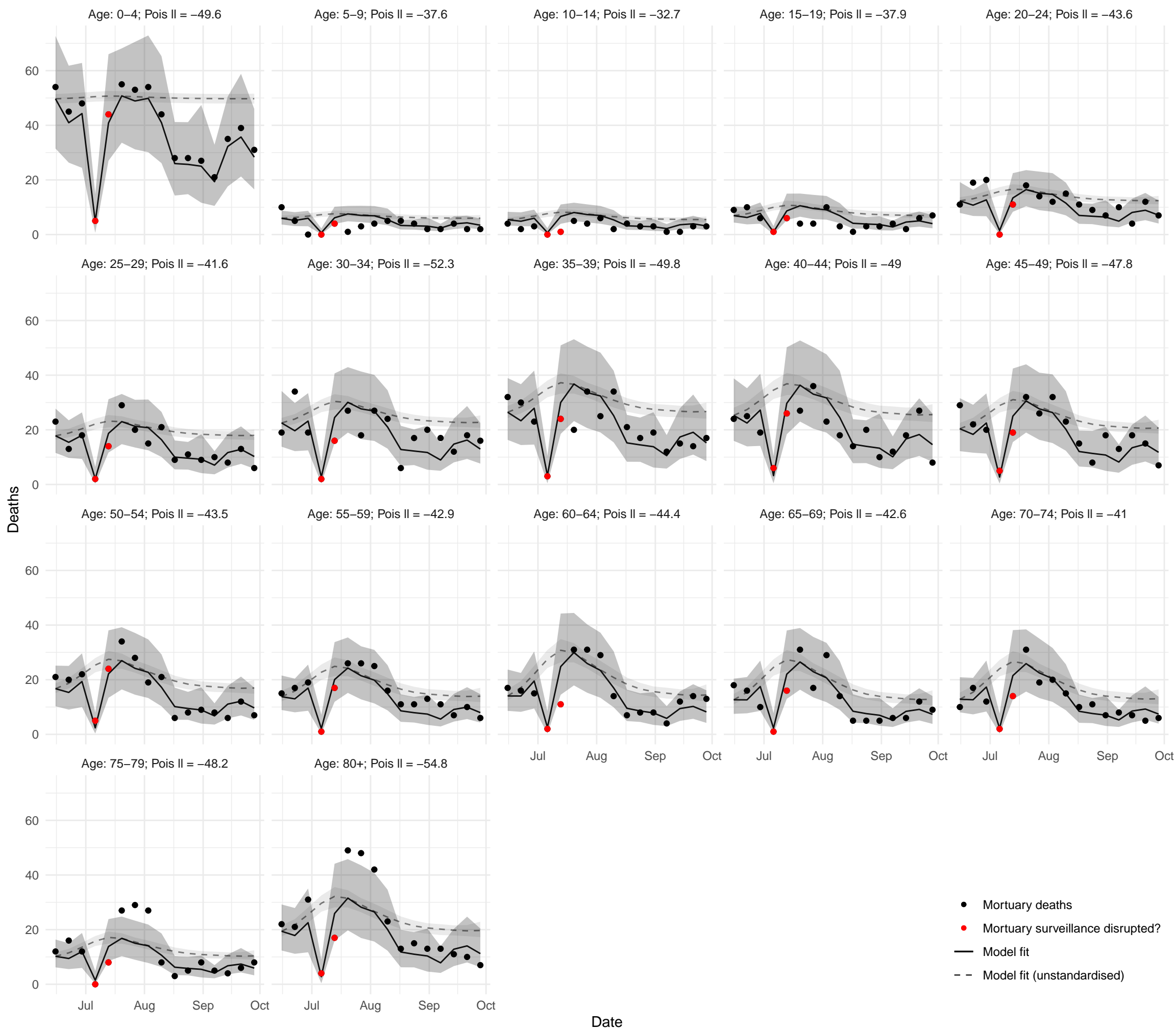


Modelled PCR %

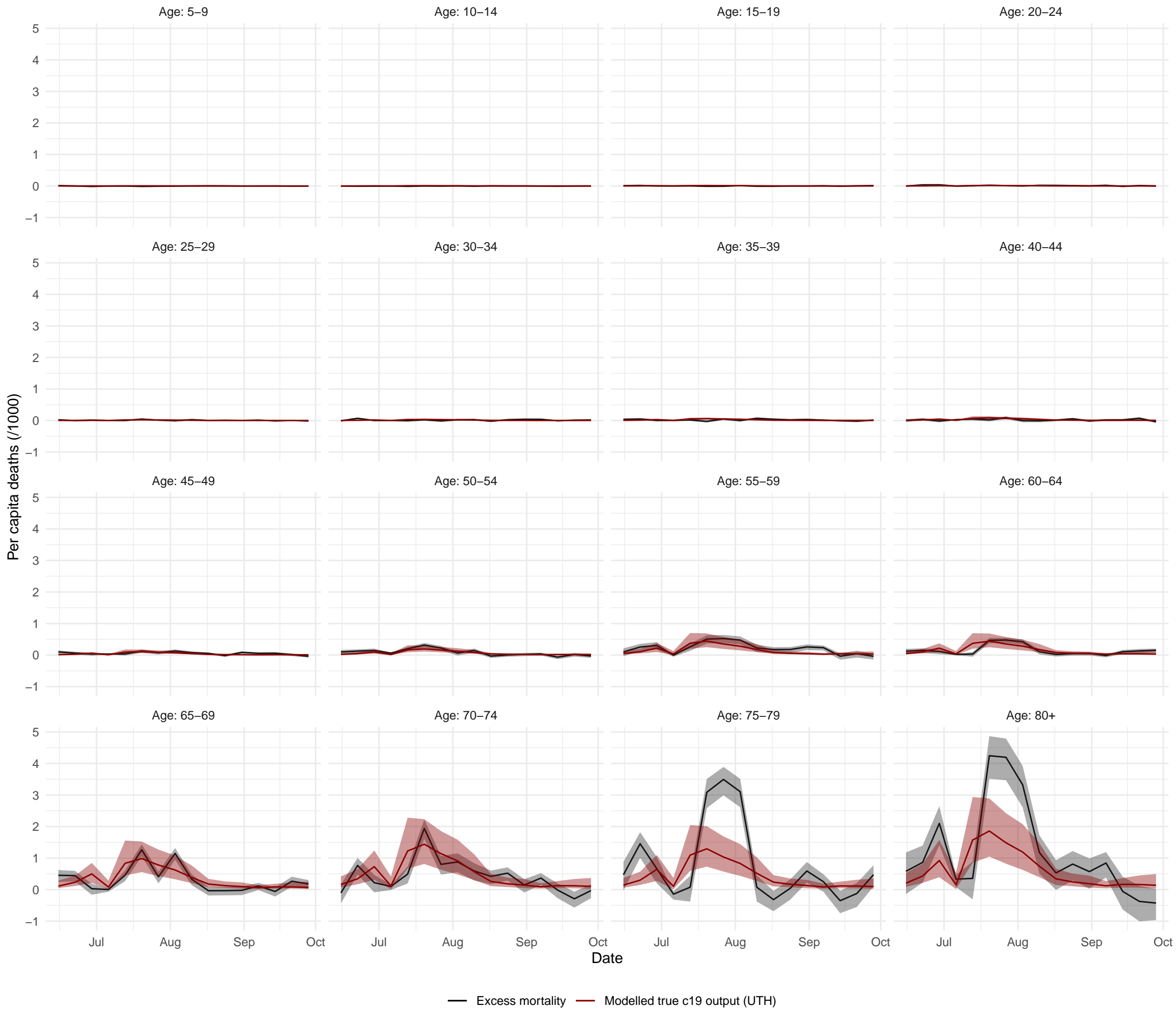


Modelled combined prevalence, Lusaka/Zambia

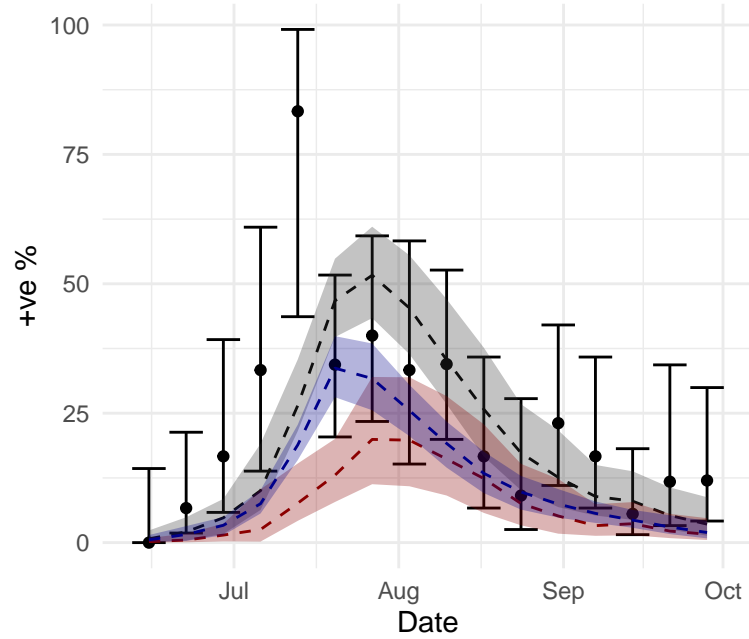




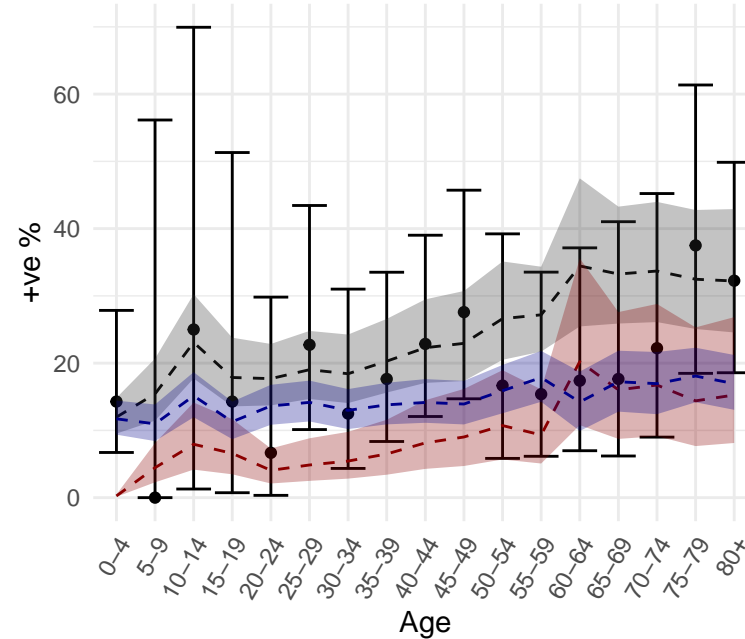
IFR x 5, Slope x 0.8
COVID-19 excess mortality: Comparison of MCMC results with squire results



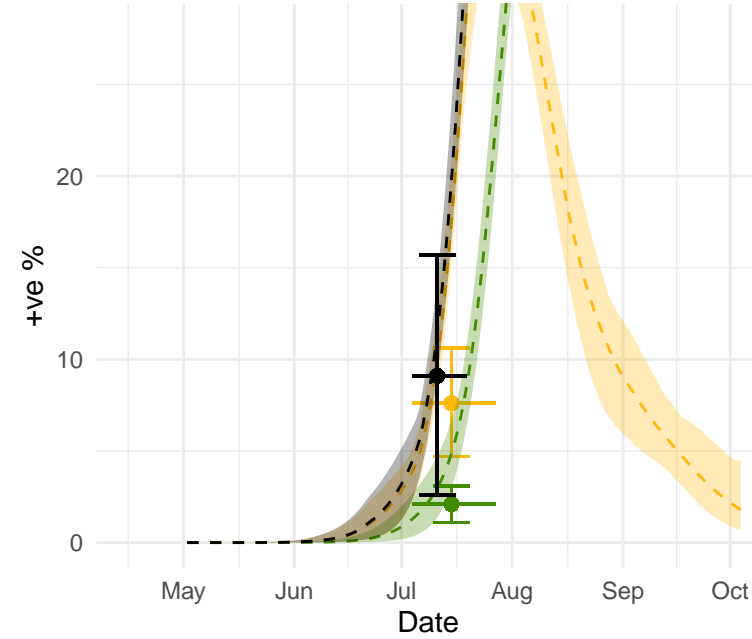
IFR x 0.2, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

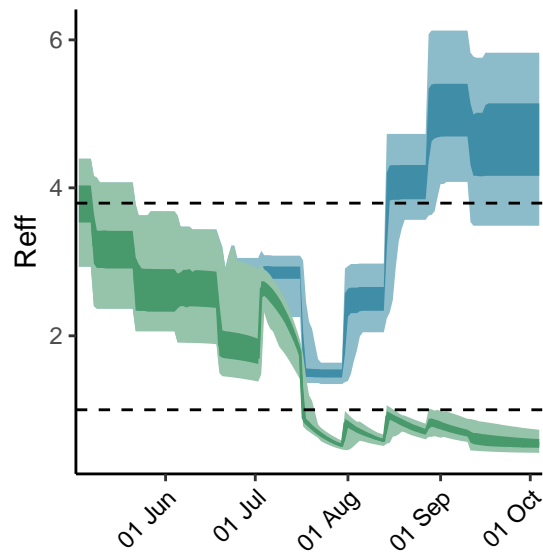


COVID-19 prevalence
Lusaka/Zambia

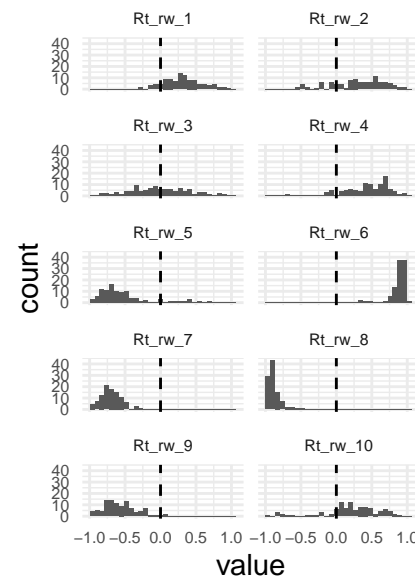


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

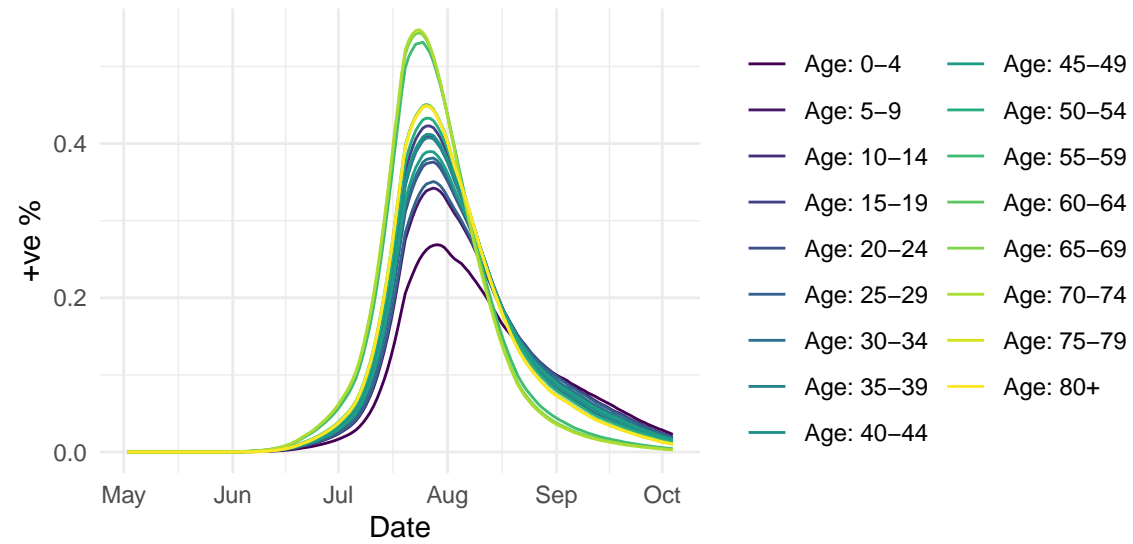
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



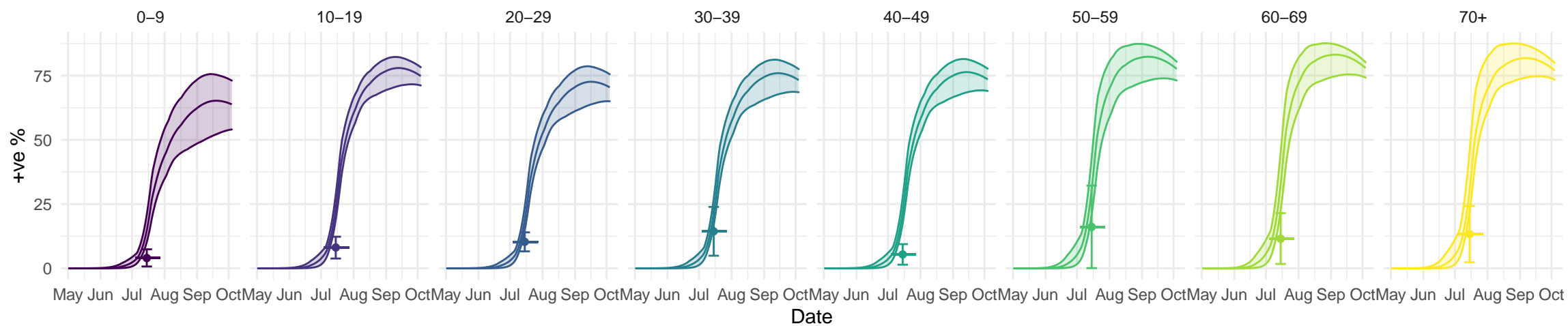
Reff
Rt

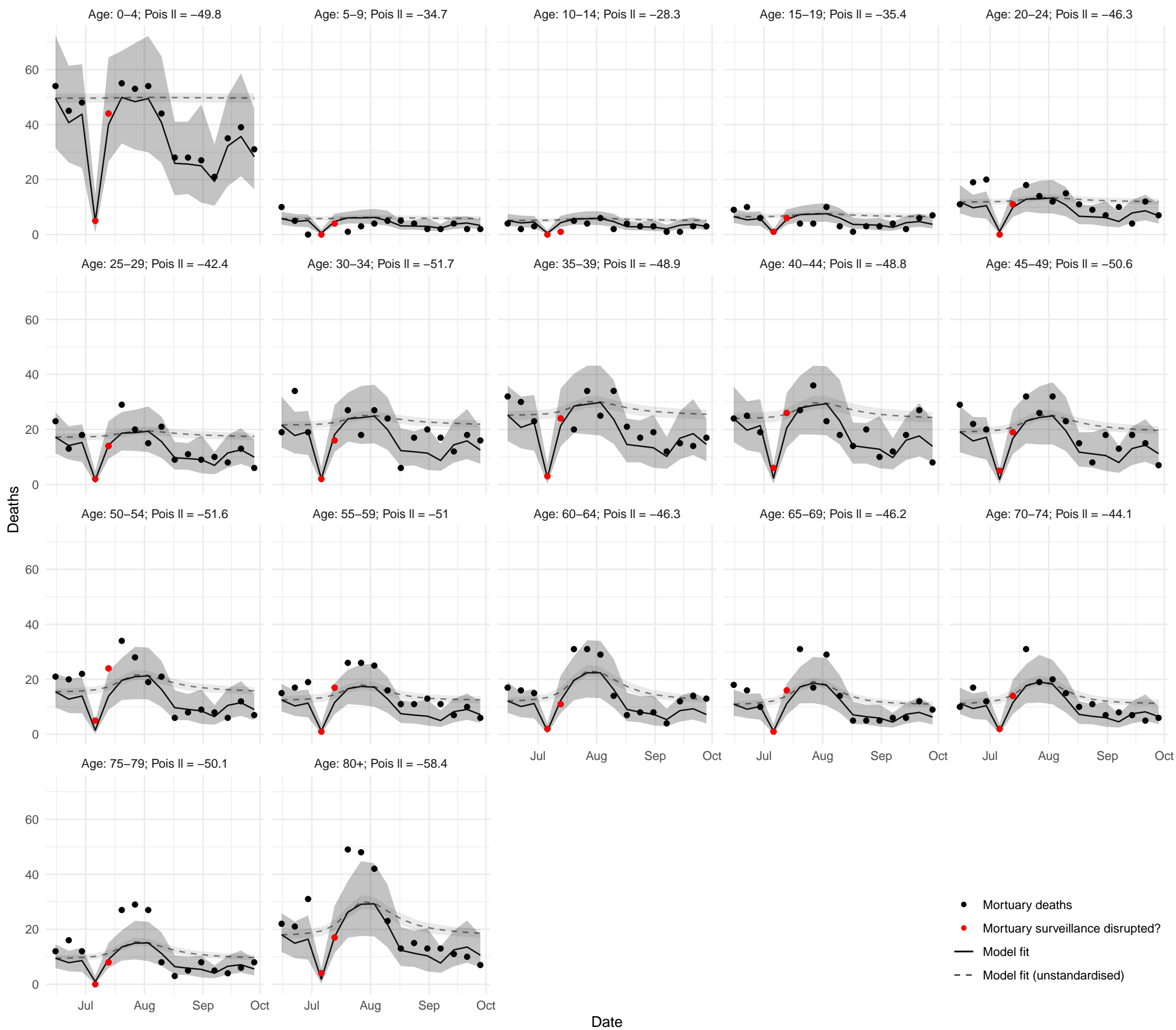


Modelled PCR %

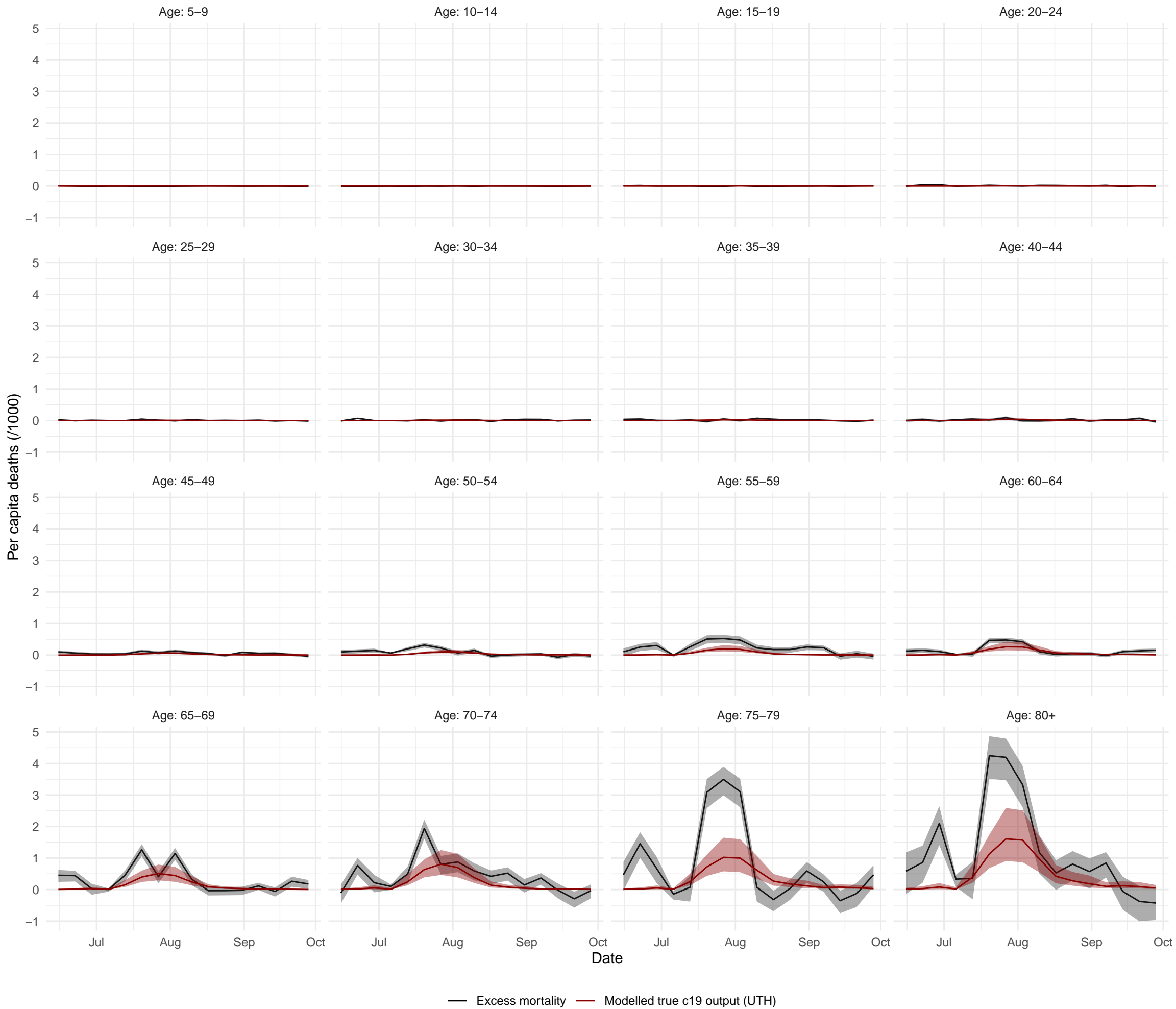


Modelled combined prevalence, Lusaka/Zambia

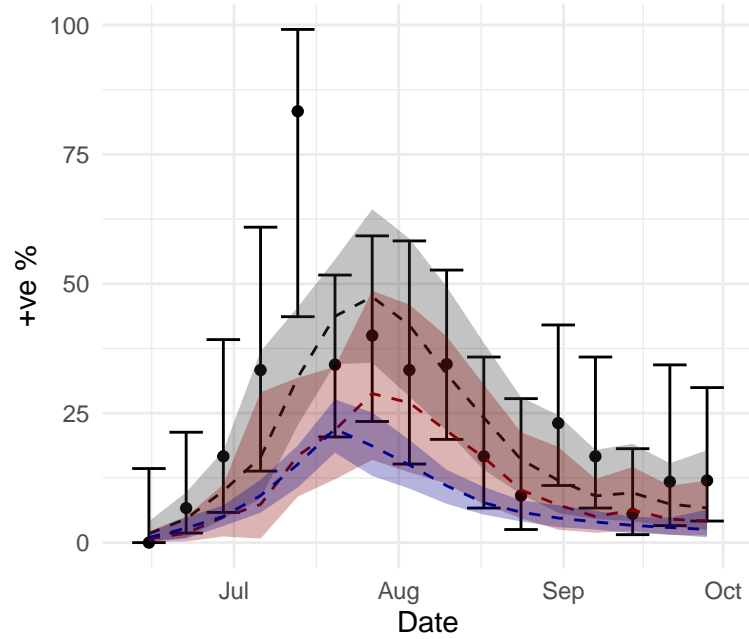




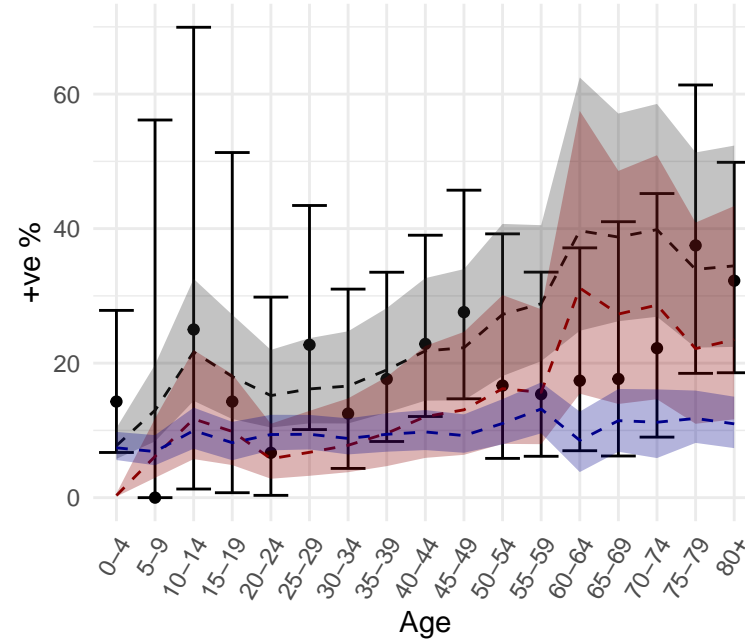
IFR x 0.2, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



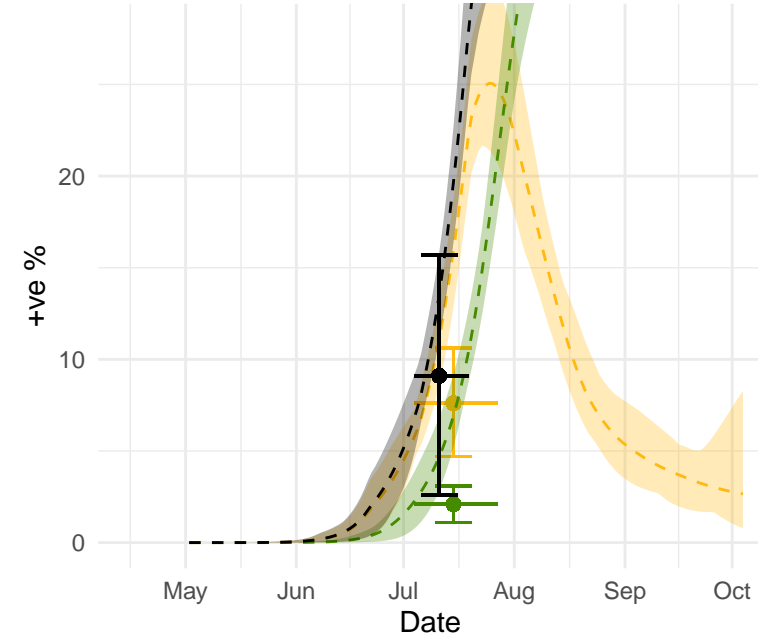
IFR x 0.4, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

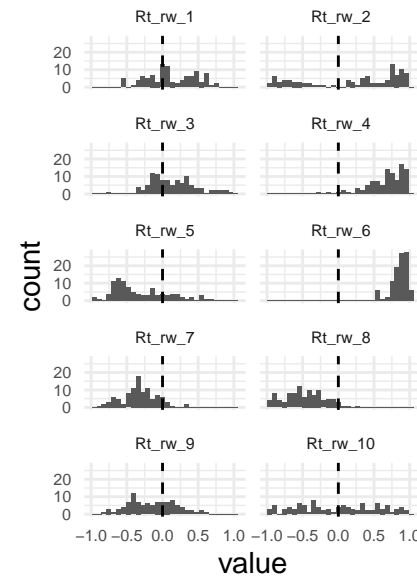
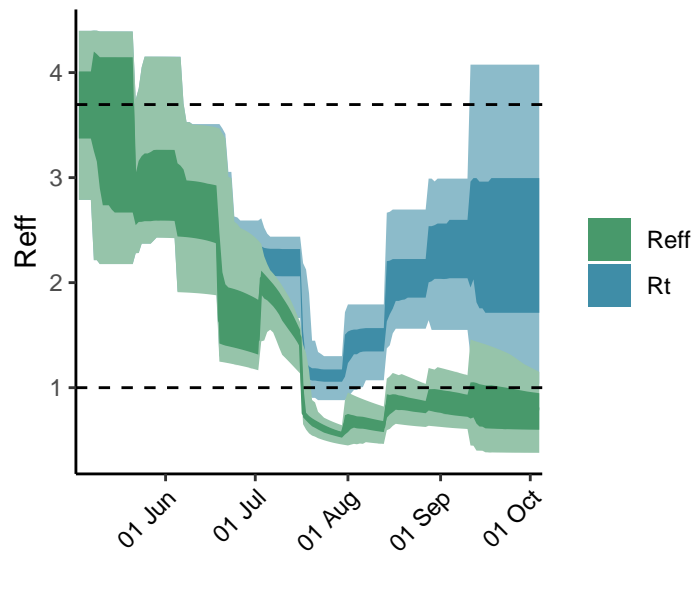


COVID-19 prevalence
Lusaka/Zambia

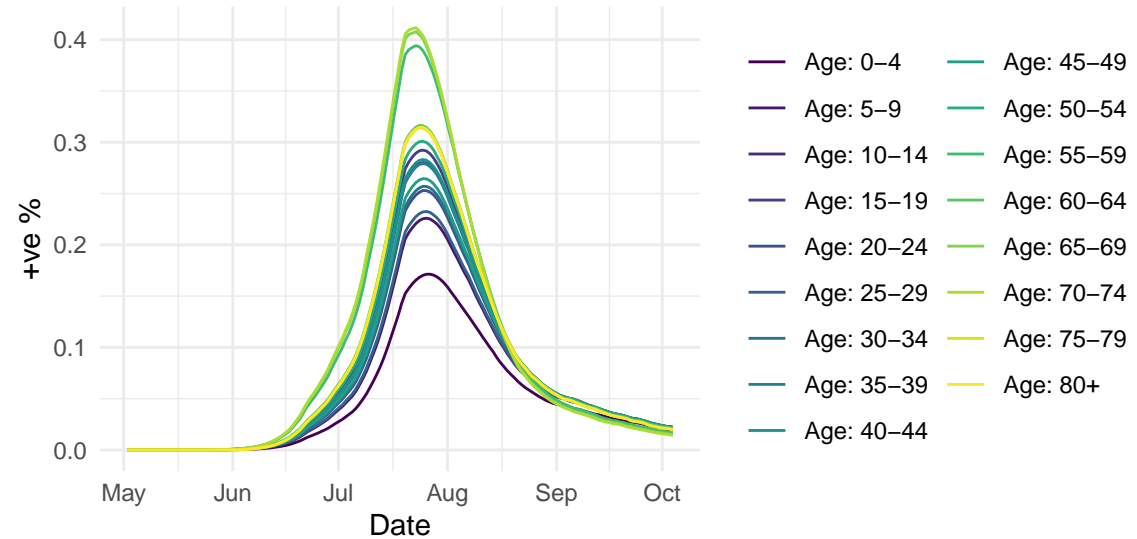


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

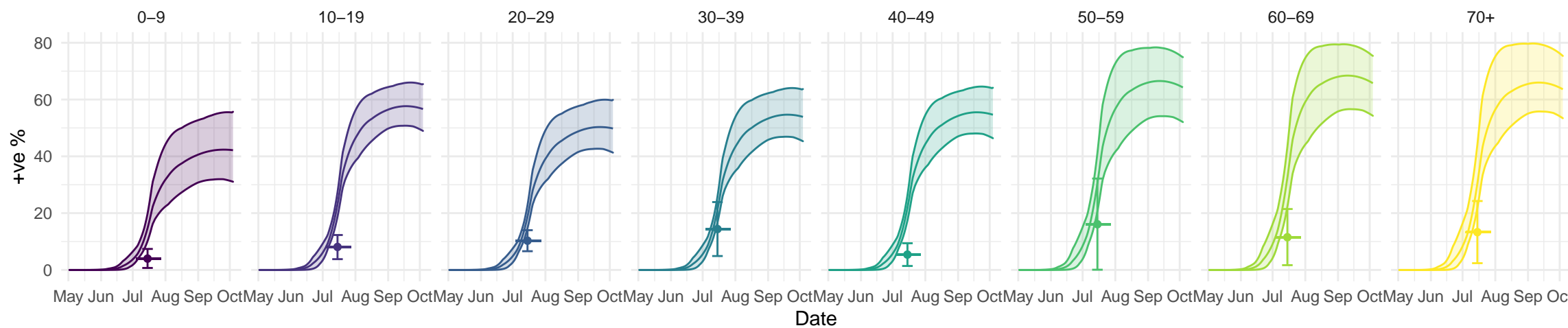
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

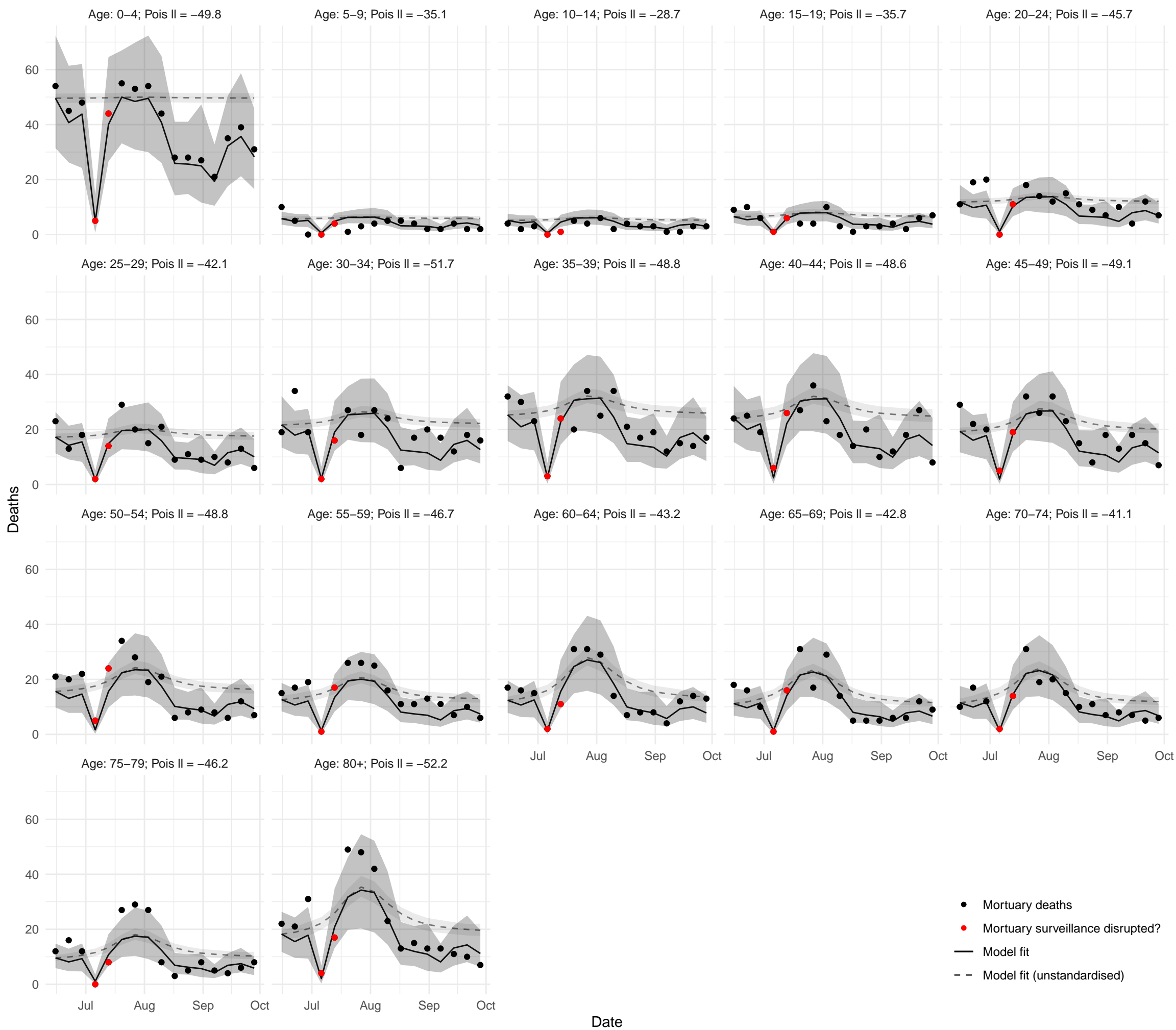


Modelled PCR %

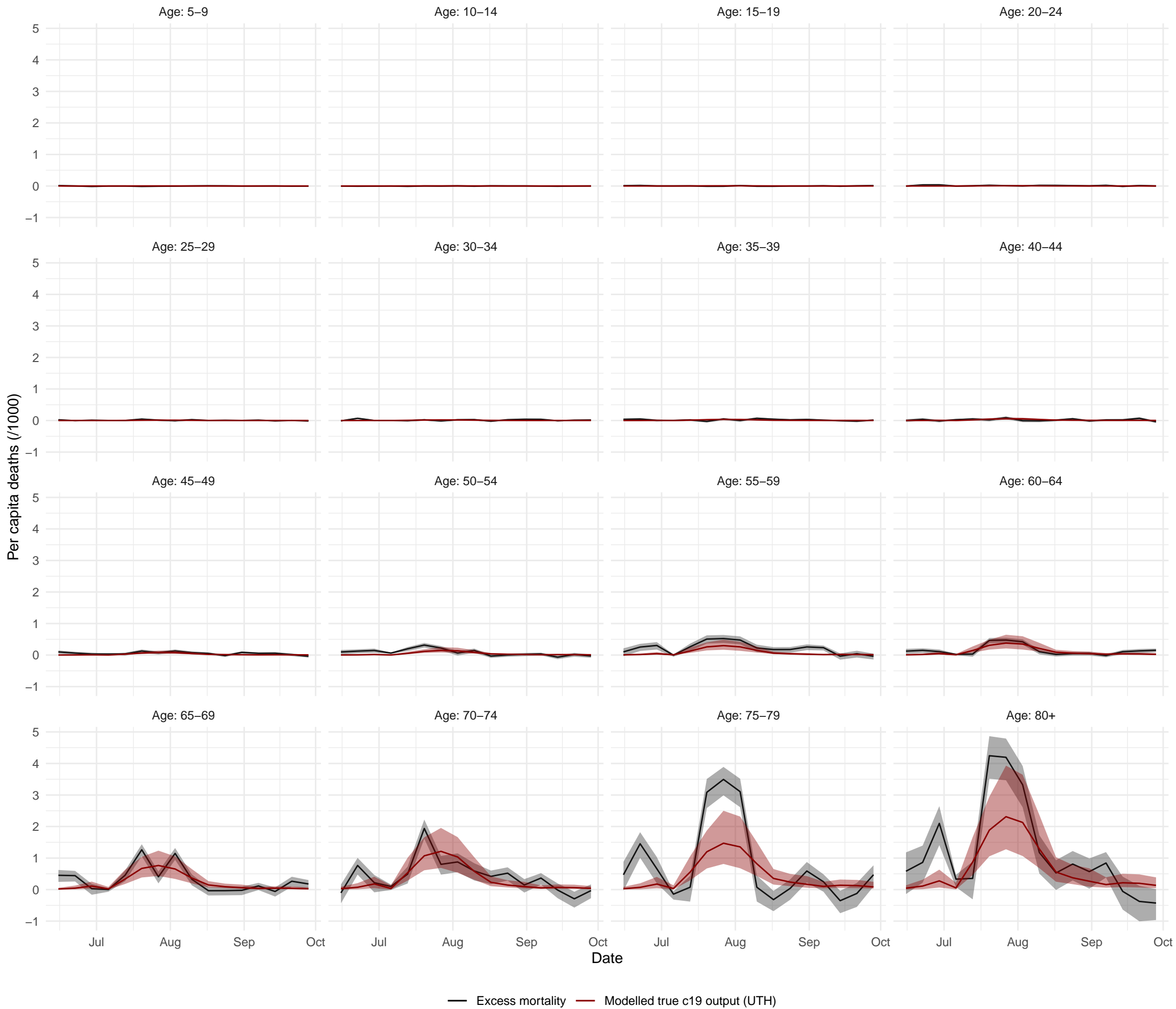


Modelled combined prevalence, Lusaka/Zambia

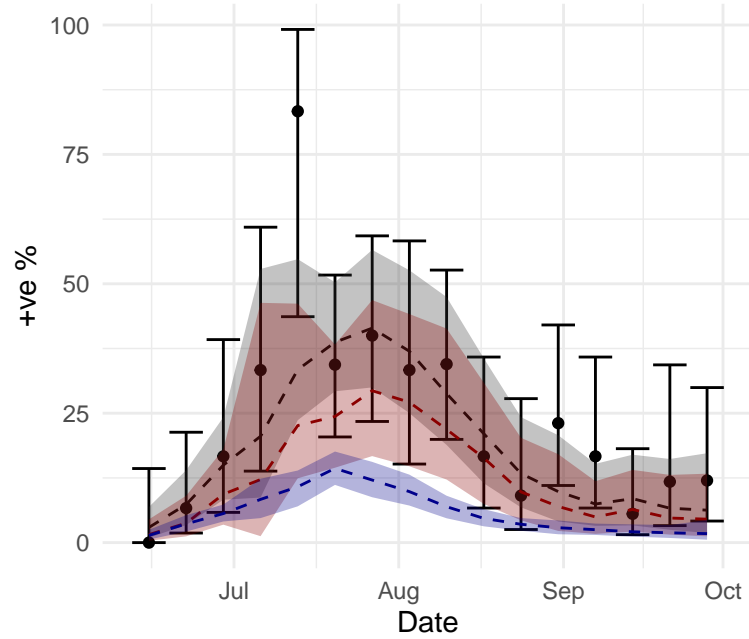




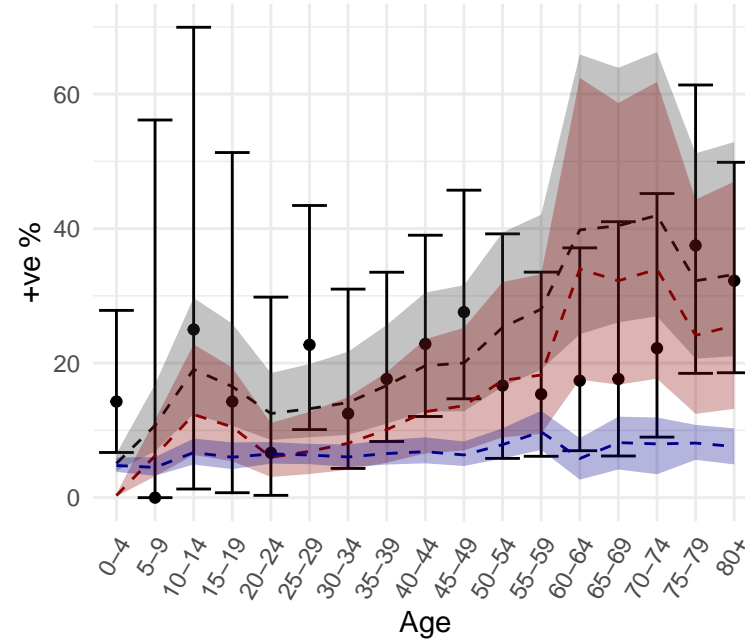
IFR x 0.4, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



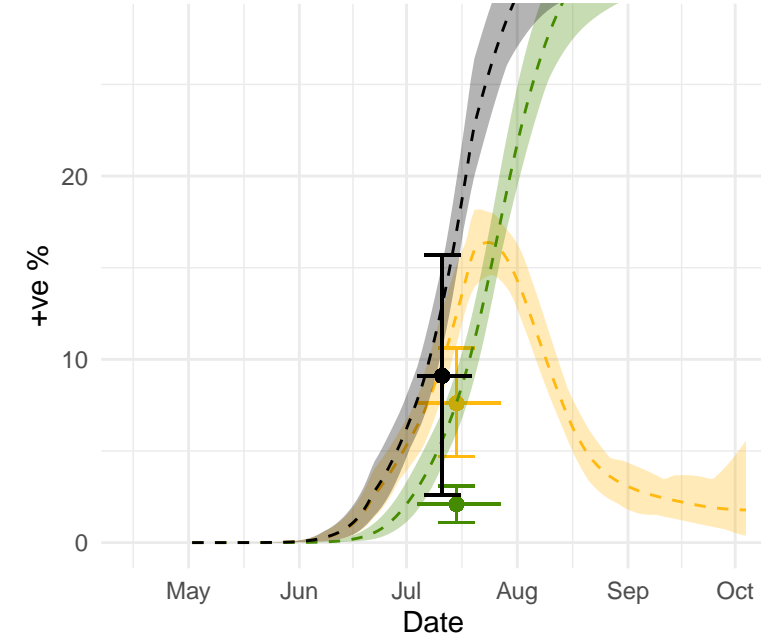
IFR x 0.6, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

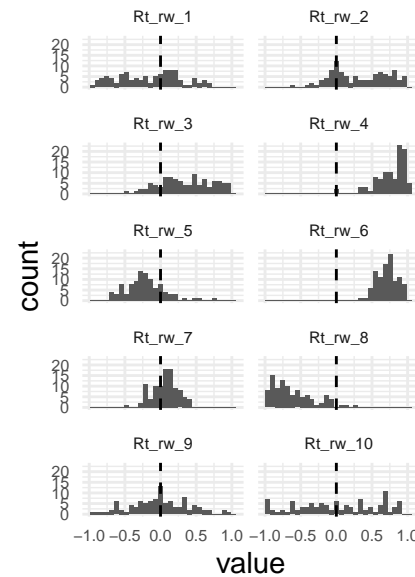
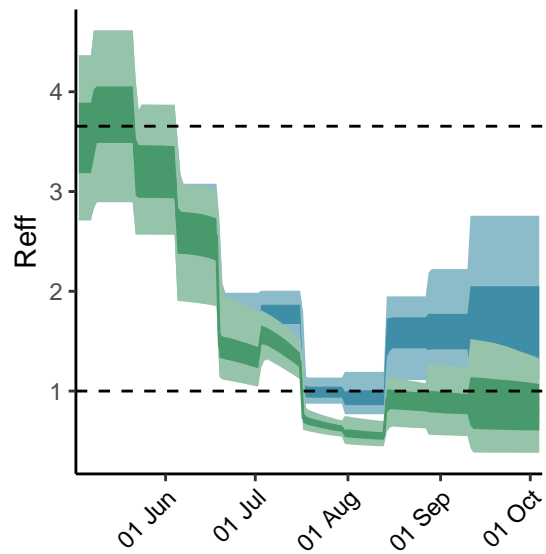


COVID-19 prevalence
Lusaka/Zambia

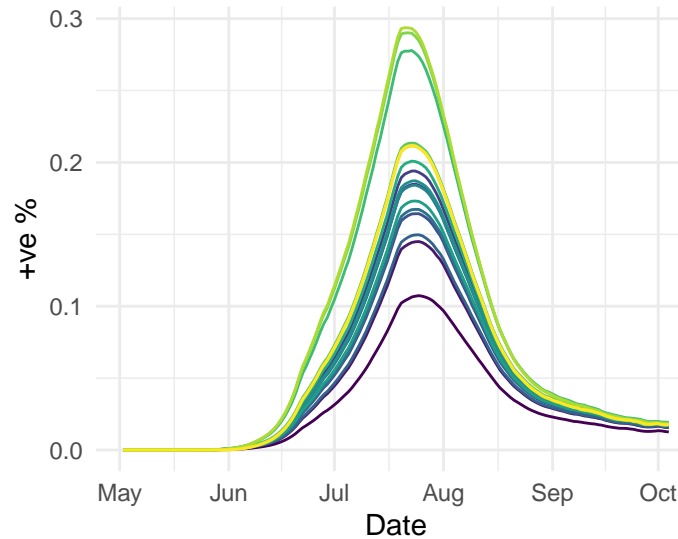


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

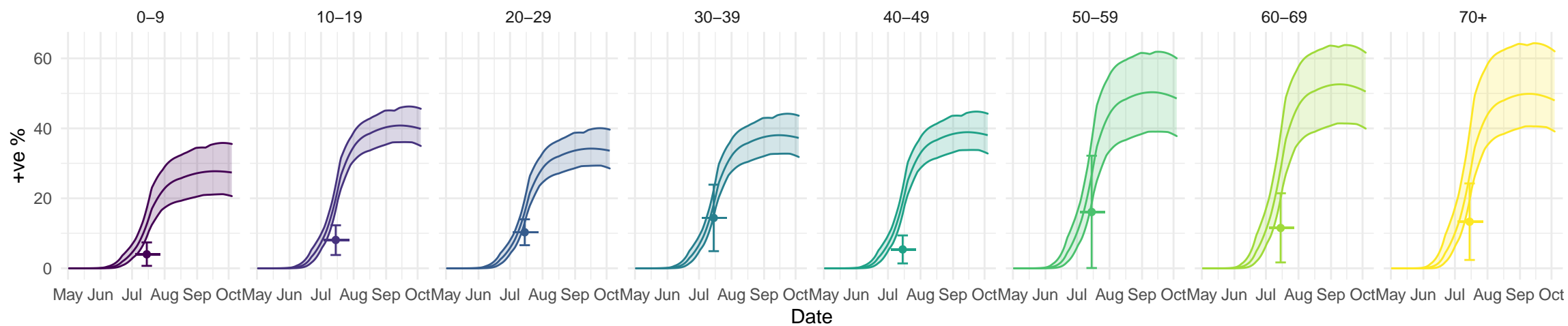


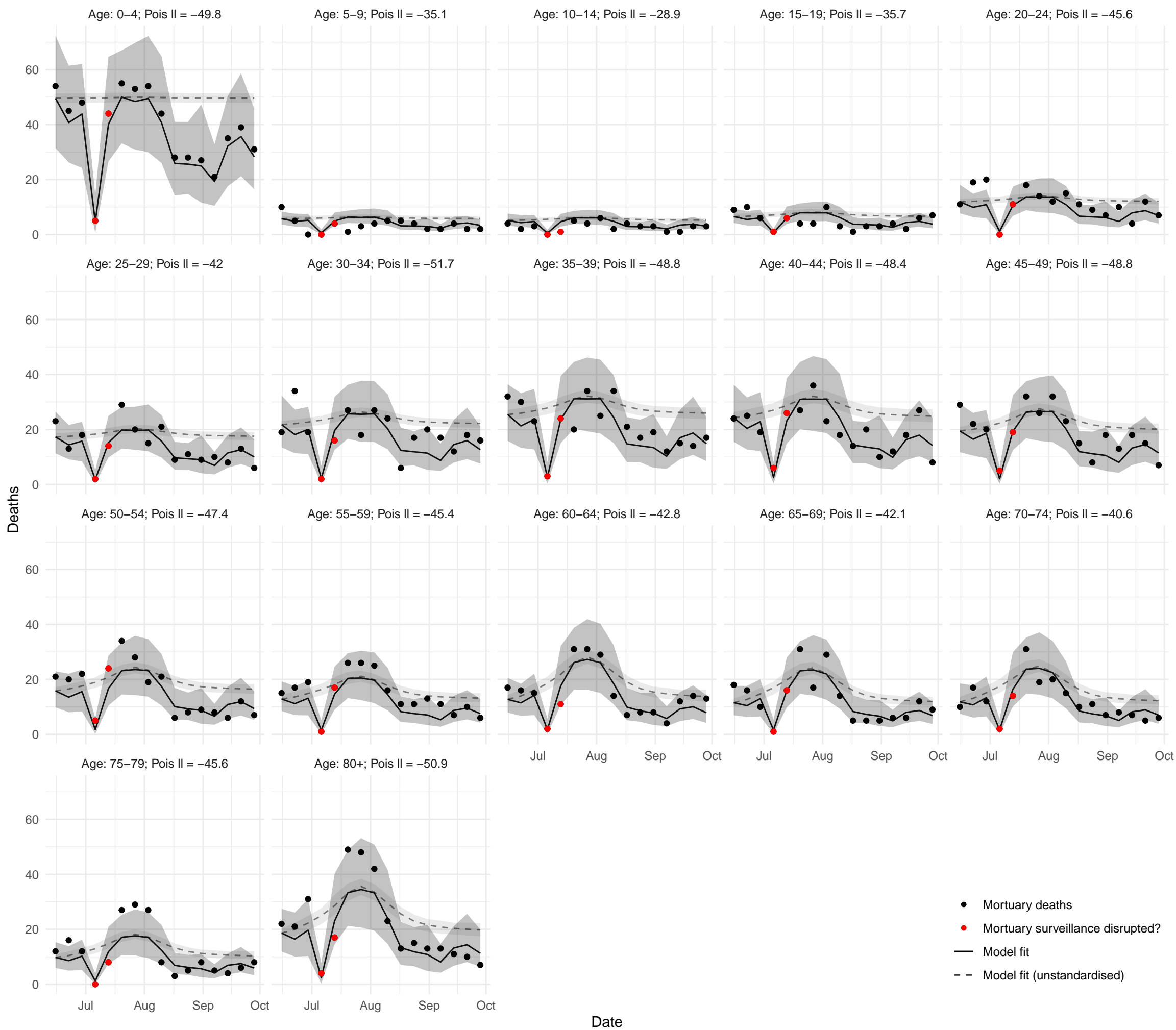
Modelled PCR %



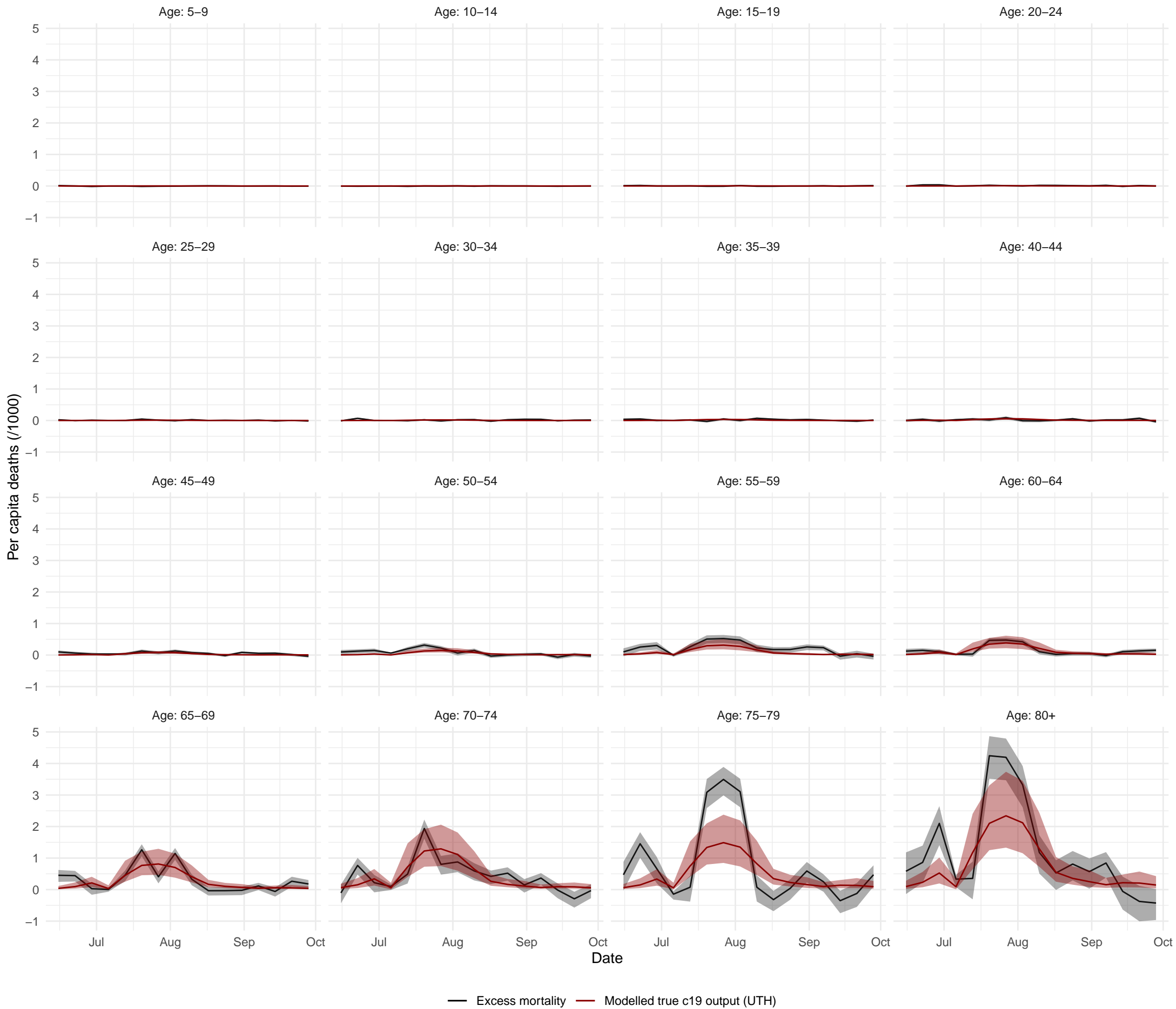
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

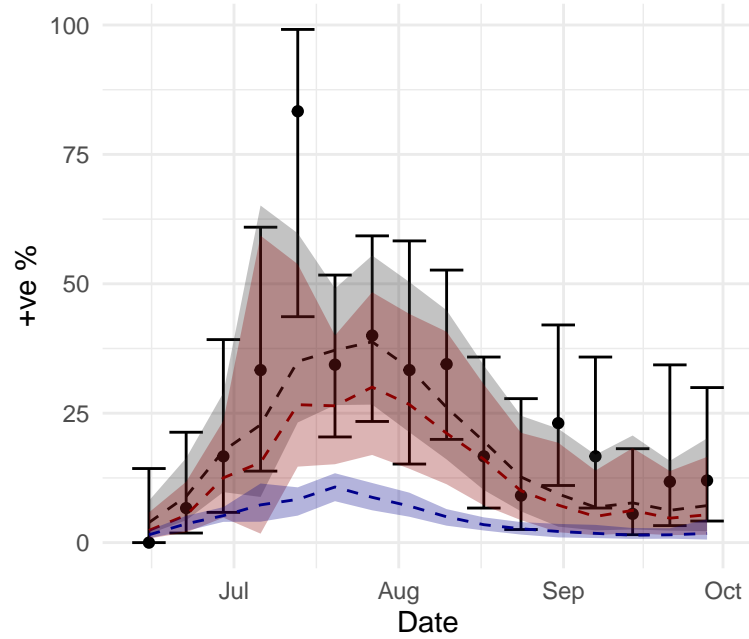




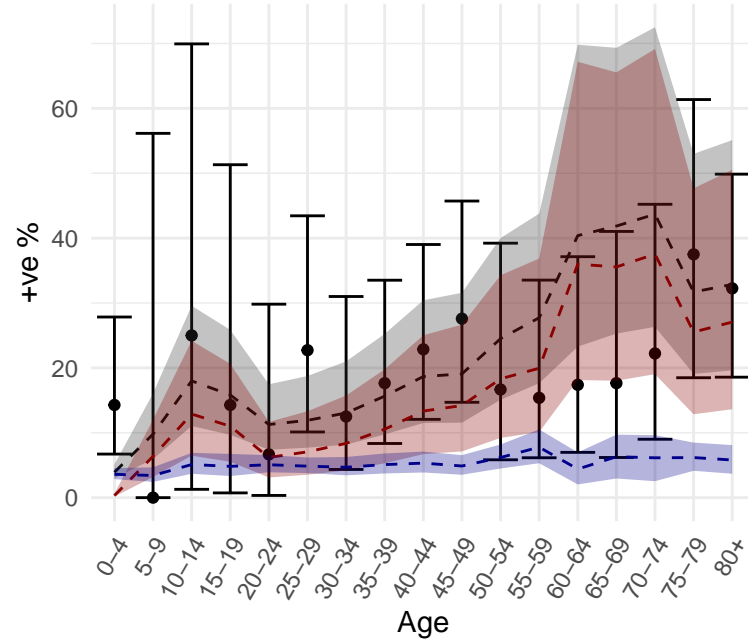
IFR x 0.6, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



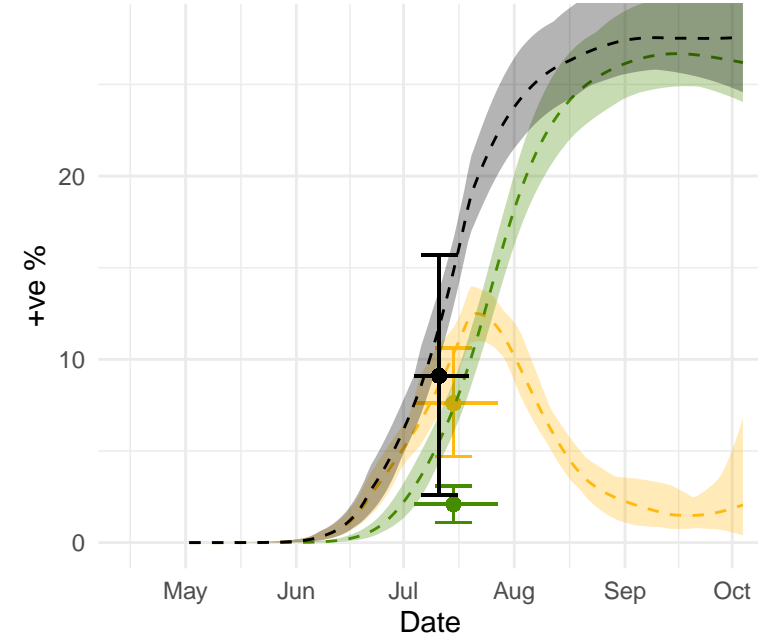
IFR x 0.8, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

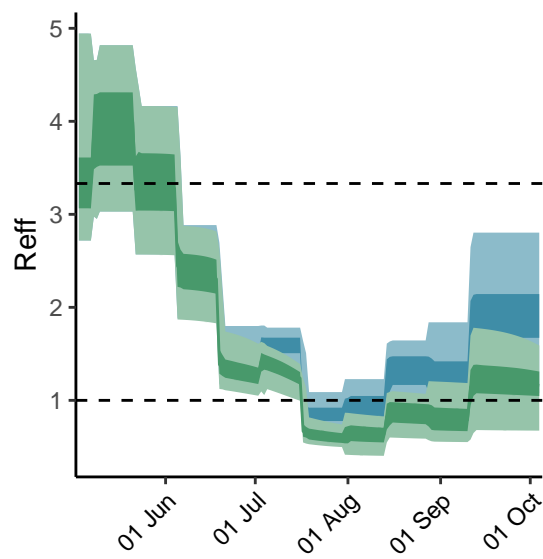


COVID-19 prevalence
Lusaka/Zambia

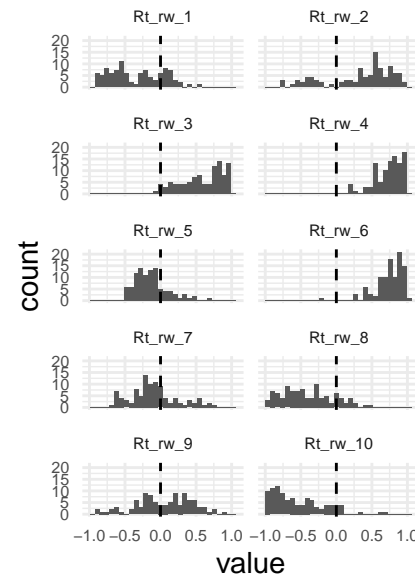


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

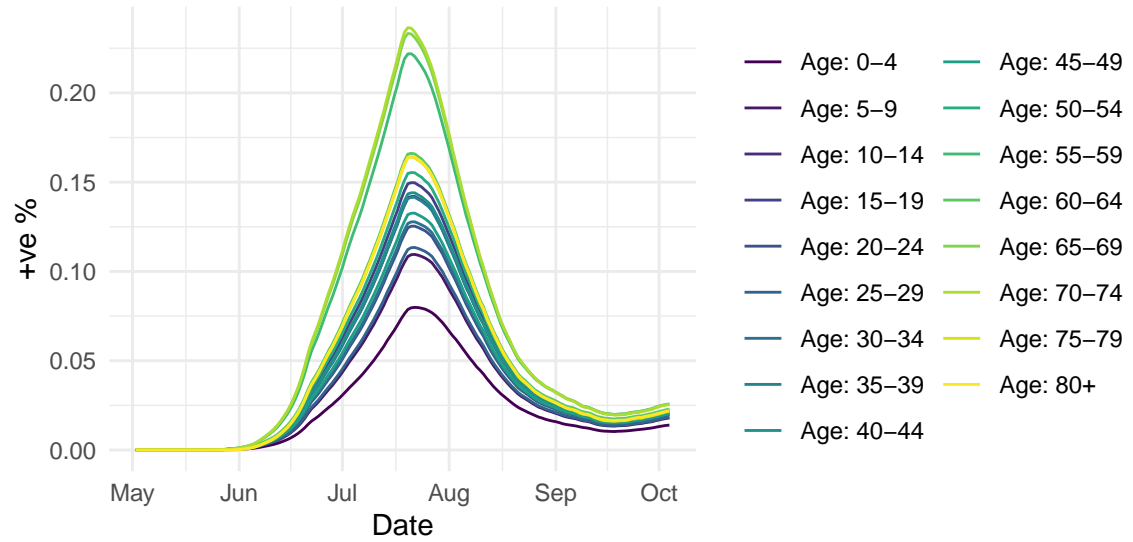
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



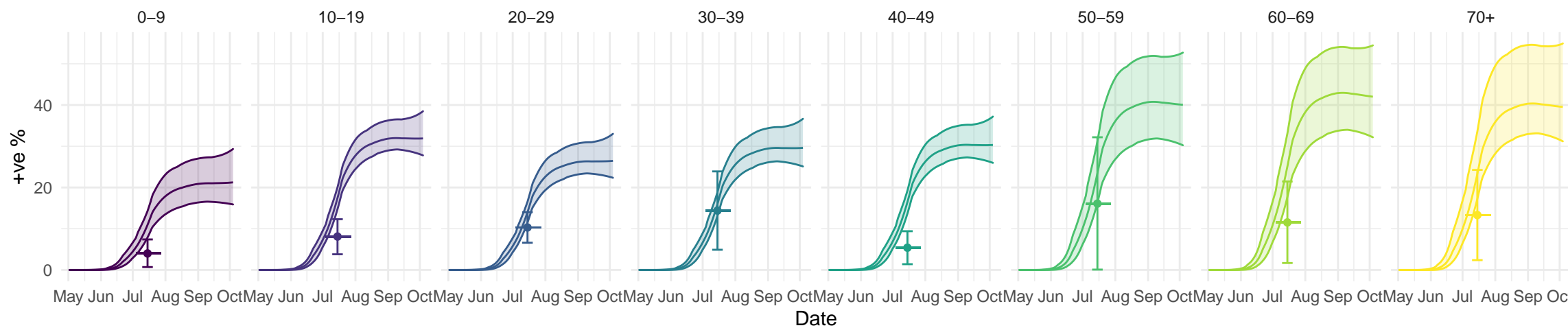
Reff
Rt

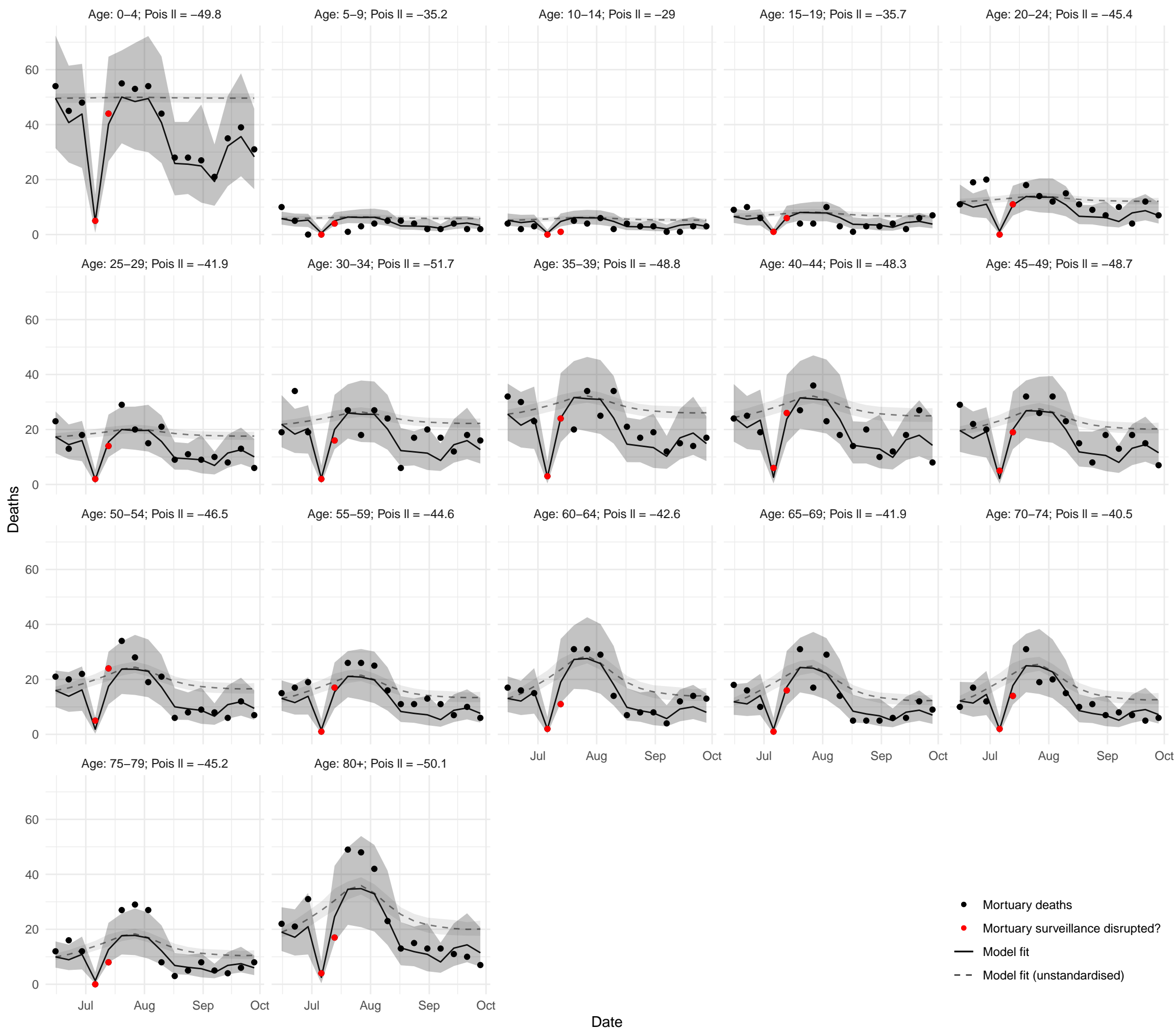


Modelled PCR %

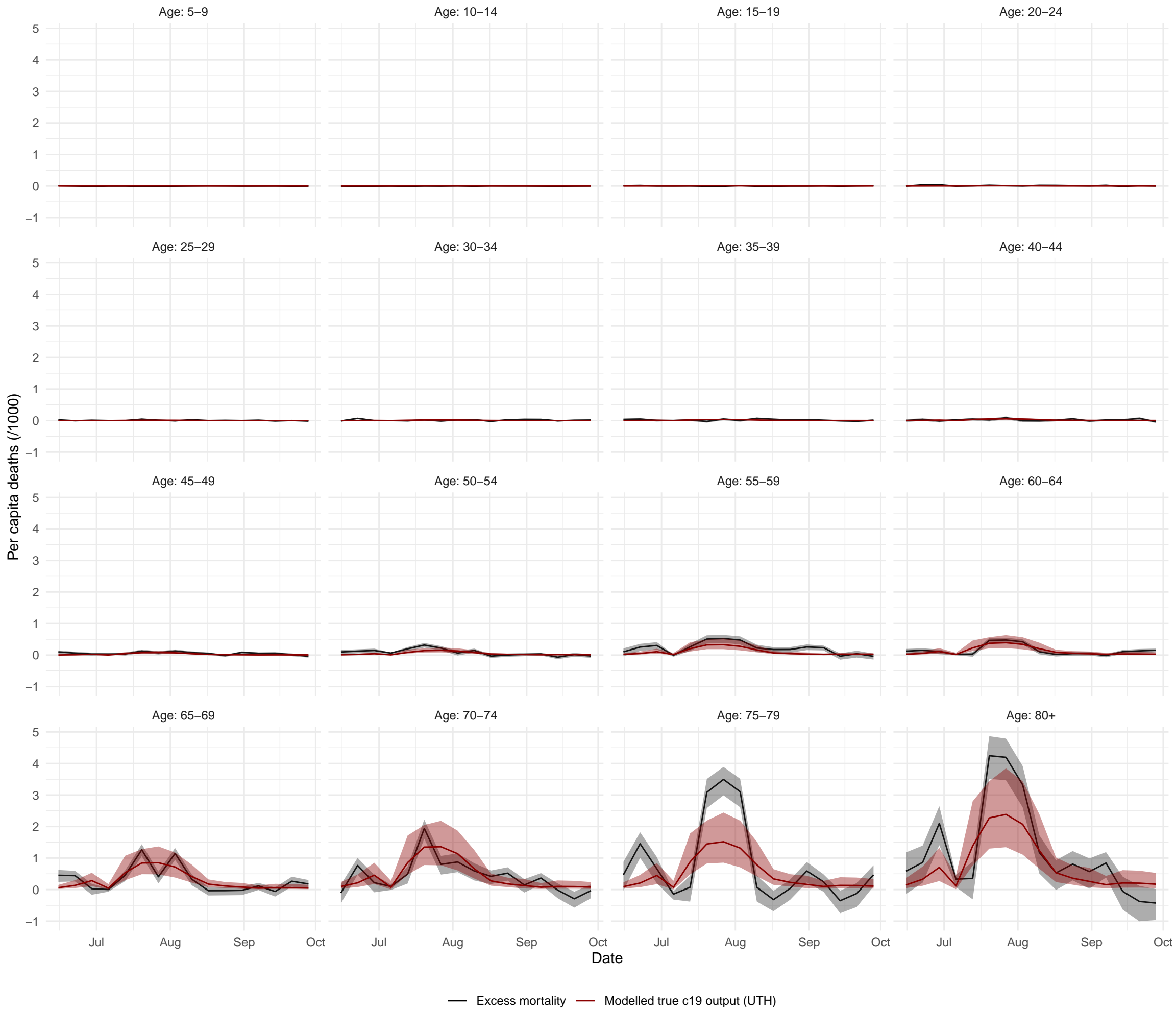


Modelled combined prevalence, Lusaka/Zambia

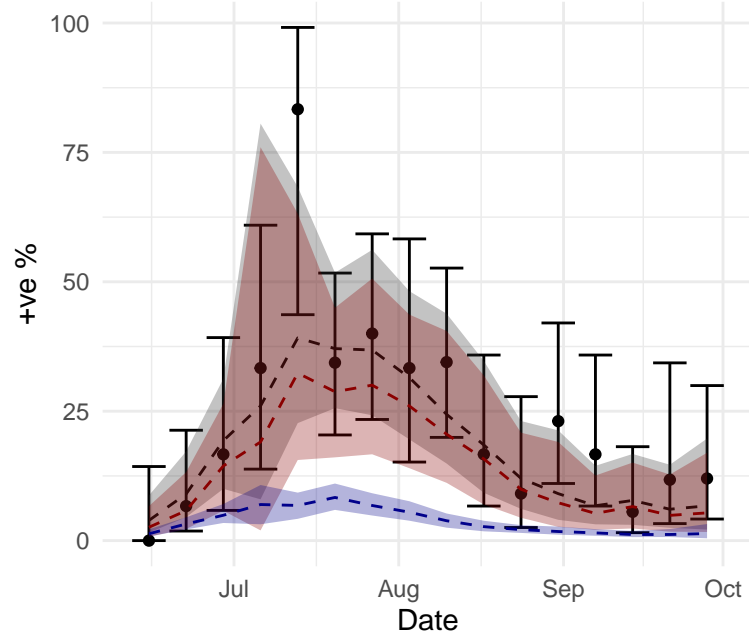




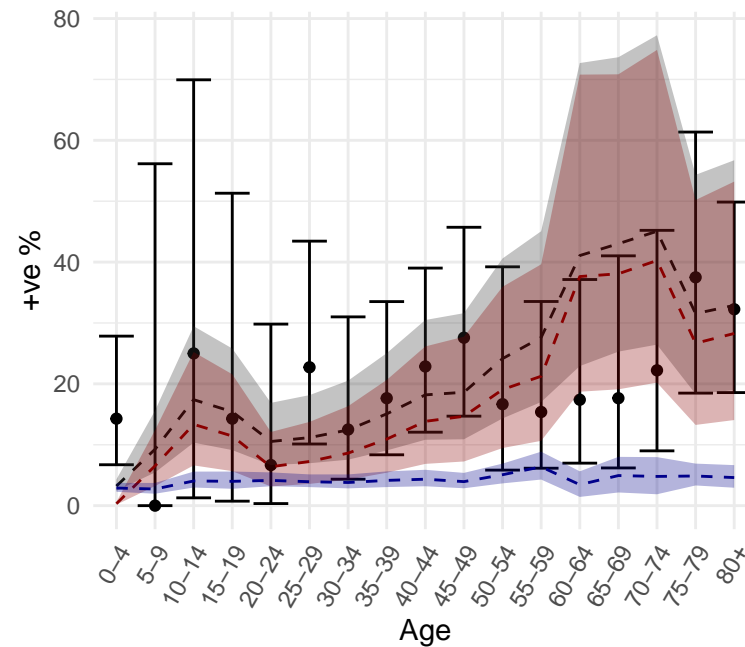
IFR x 0.8, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



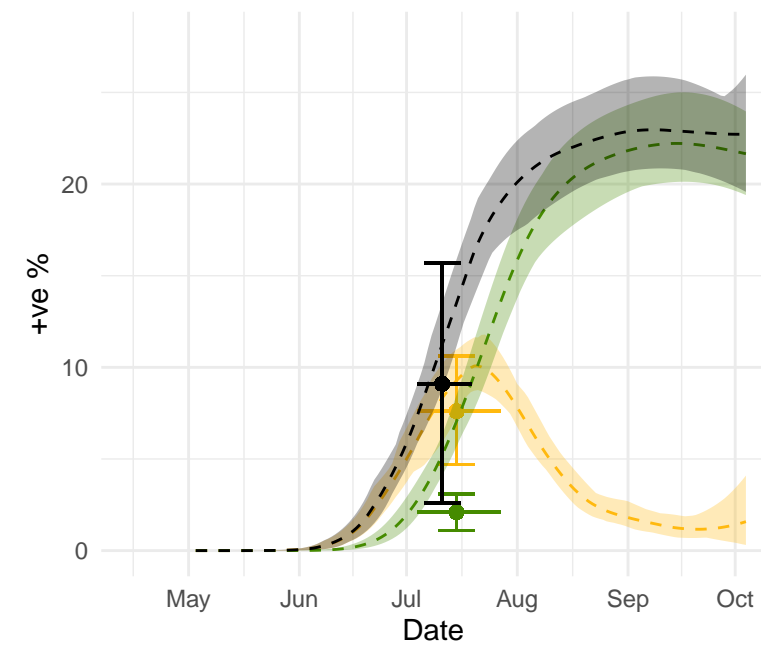
IFR x 1, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

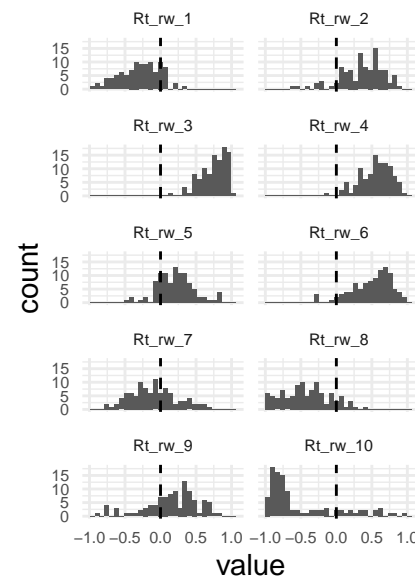
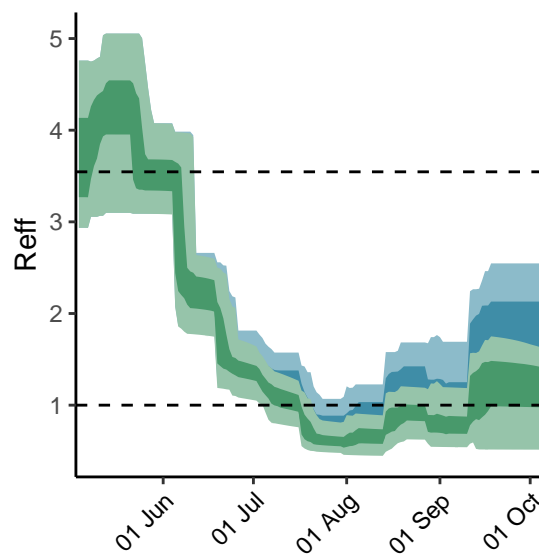


COVID-19 prevalence
Lusaka/Zambia

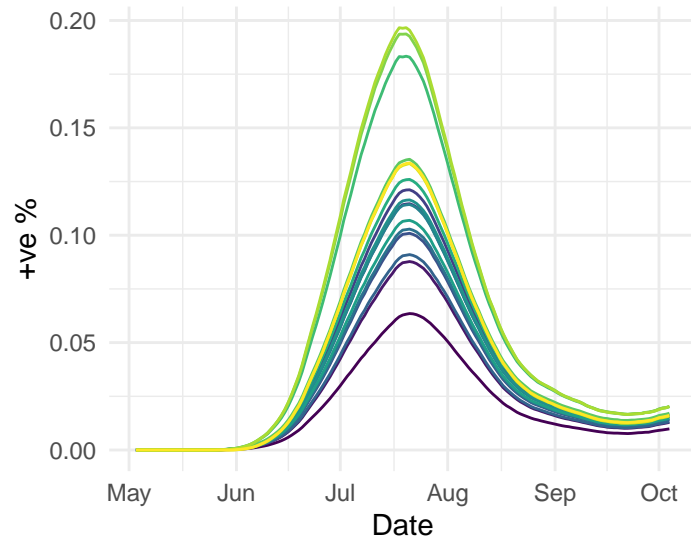


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

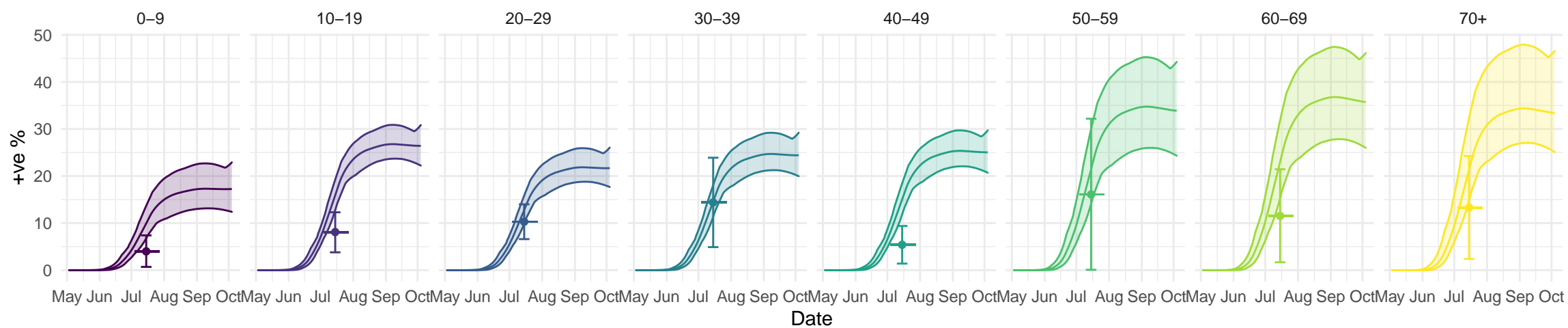


Modelled PCR %

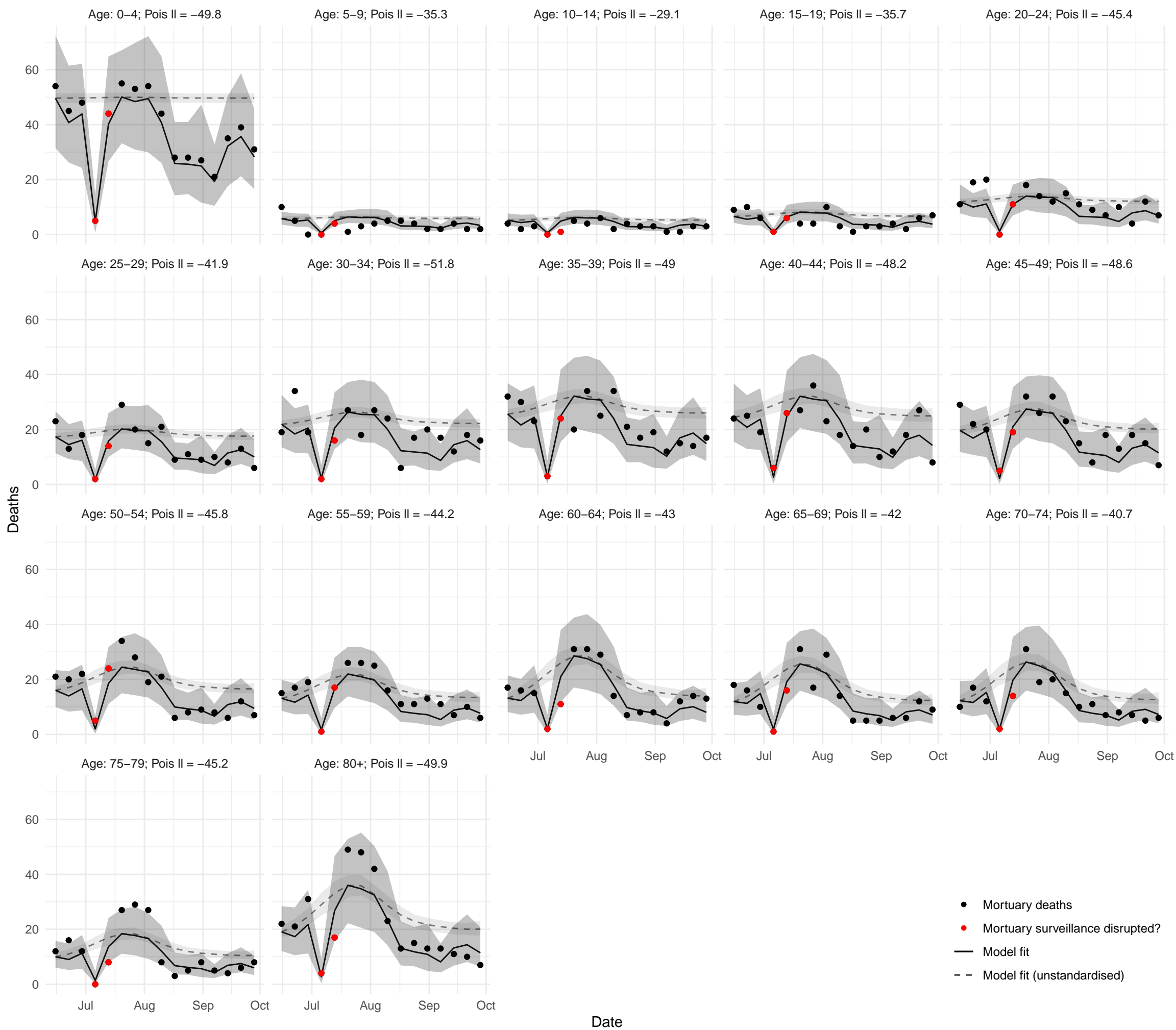


Age: 0-4 Age: 45-49
Age: 5-9 Age: 50-54
Age: 10-14 Age: 55-59
Age: 15-19 Age: 60-64
Age: 20-24 Age: 65-69
Age: 25-29 Age: 70-74
Age: 30-34 Age: 75-79
Age: 35-39 Age: 80+
Age: 40-44

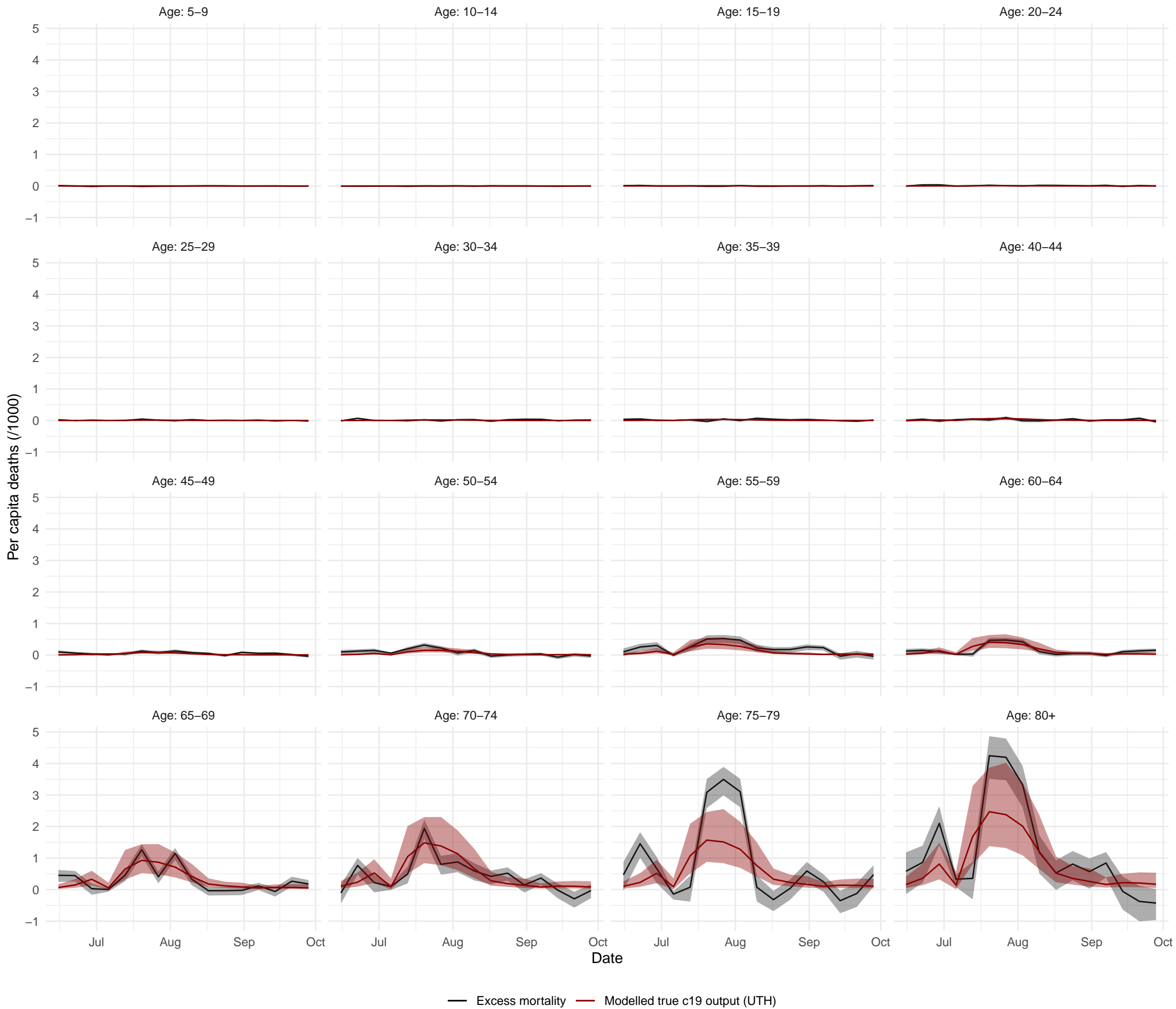
Modelled combined prevalence, Lusaka/Zambia



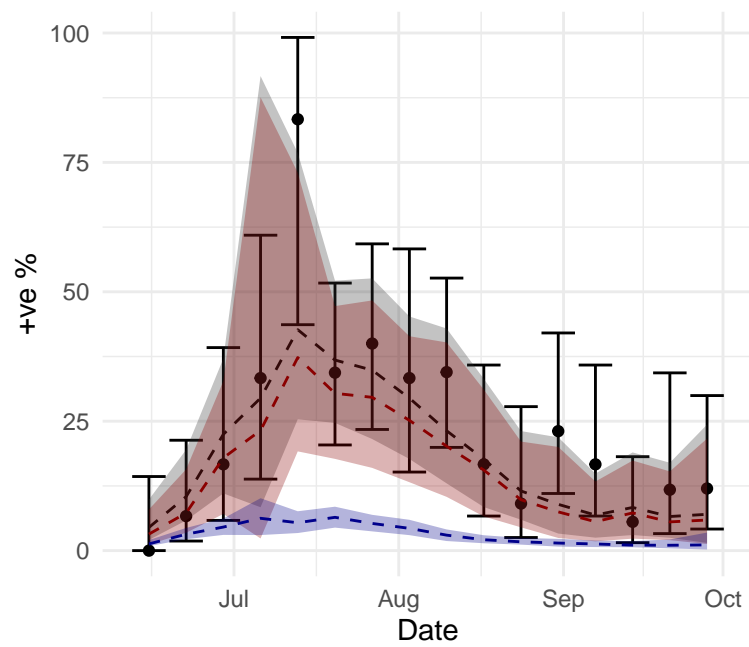
IFR x 1, Slope x 1
COVID-19 weekly deaths (Mortuary)



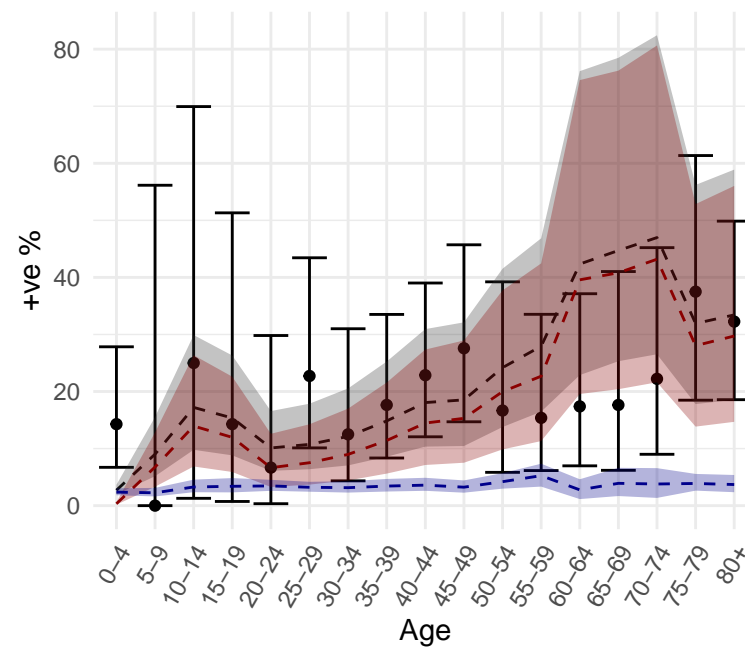
IFR x 1, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



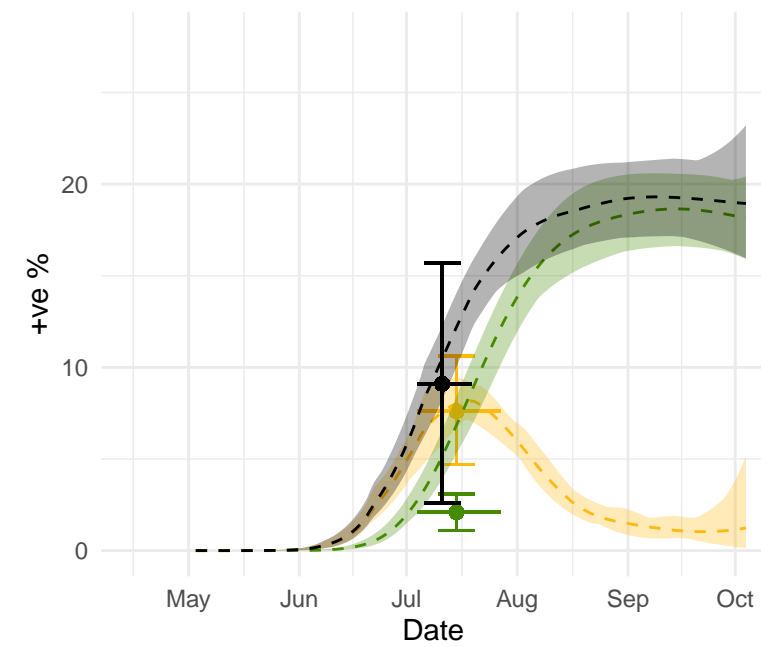
IFR x 1.25, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

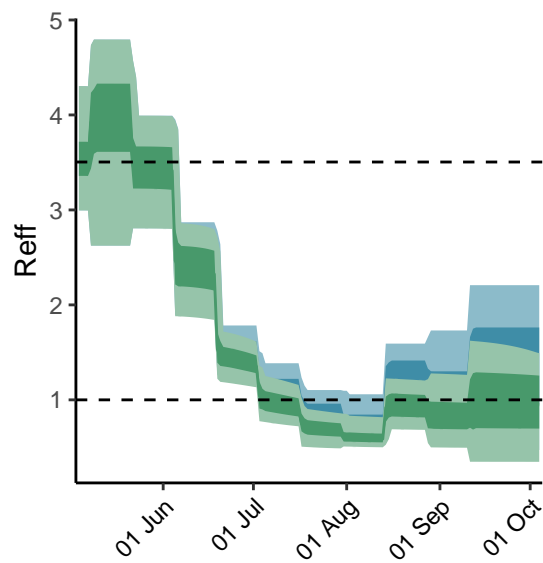


COVID-19 prevalence
Lusaka/Zambia

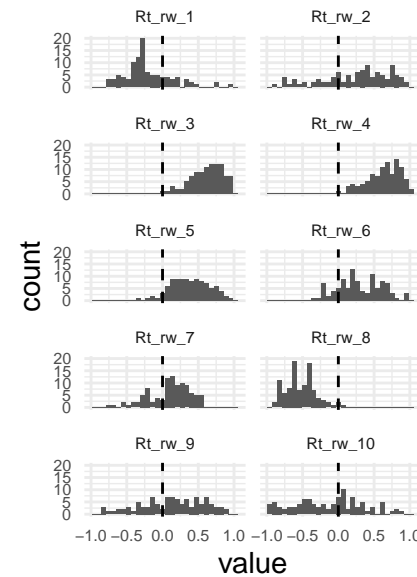


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

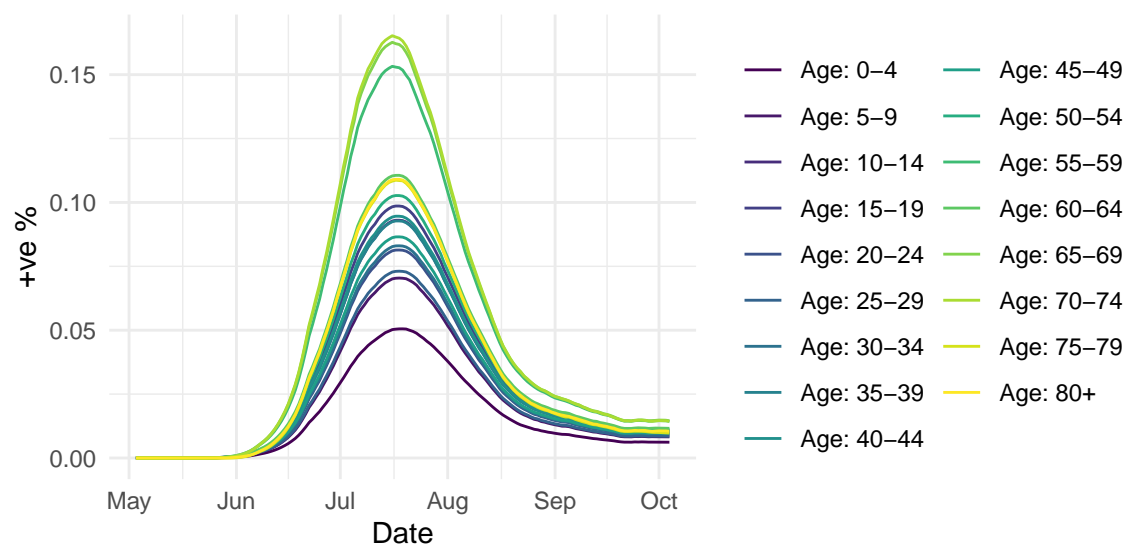
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



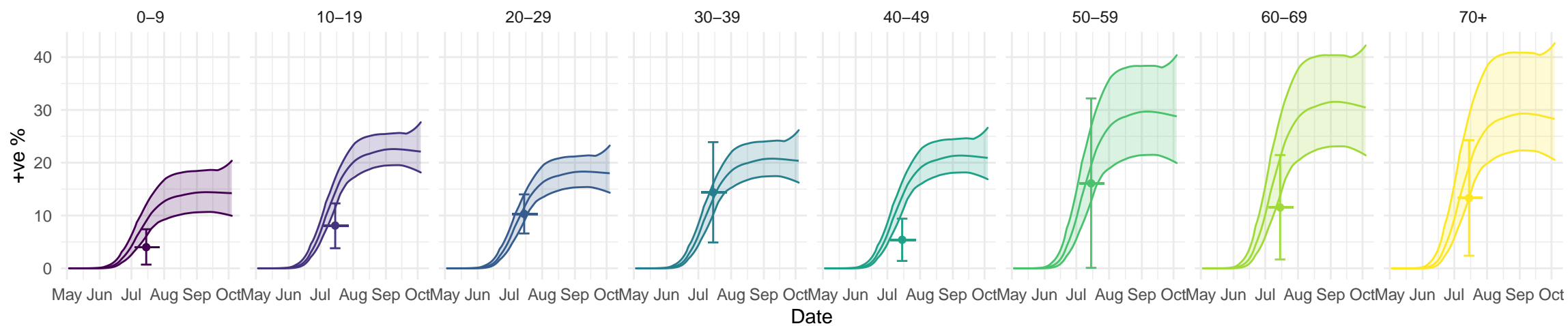
Reff
Rt

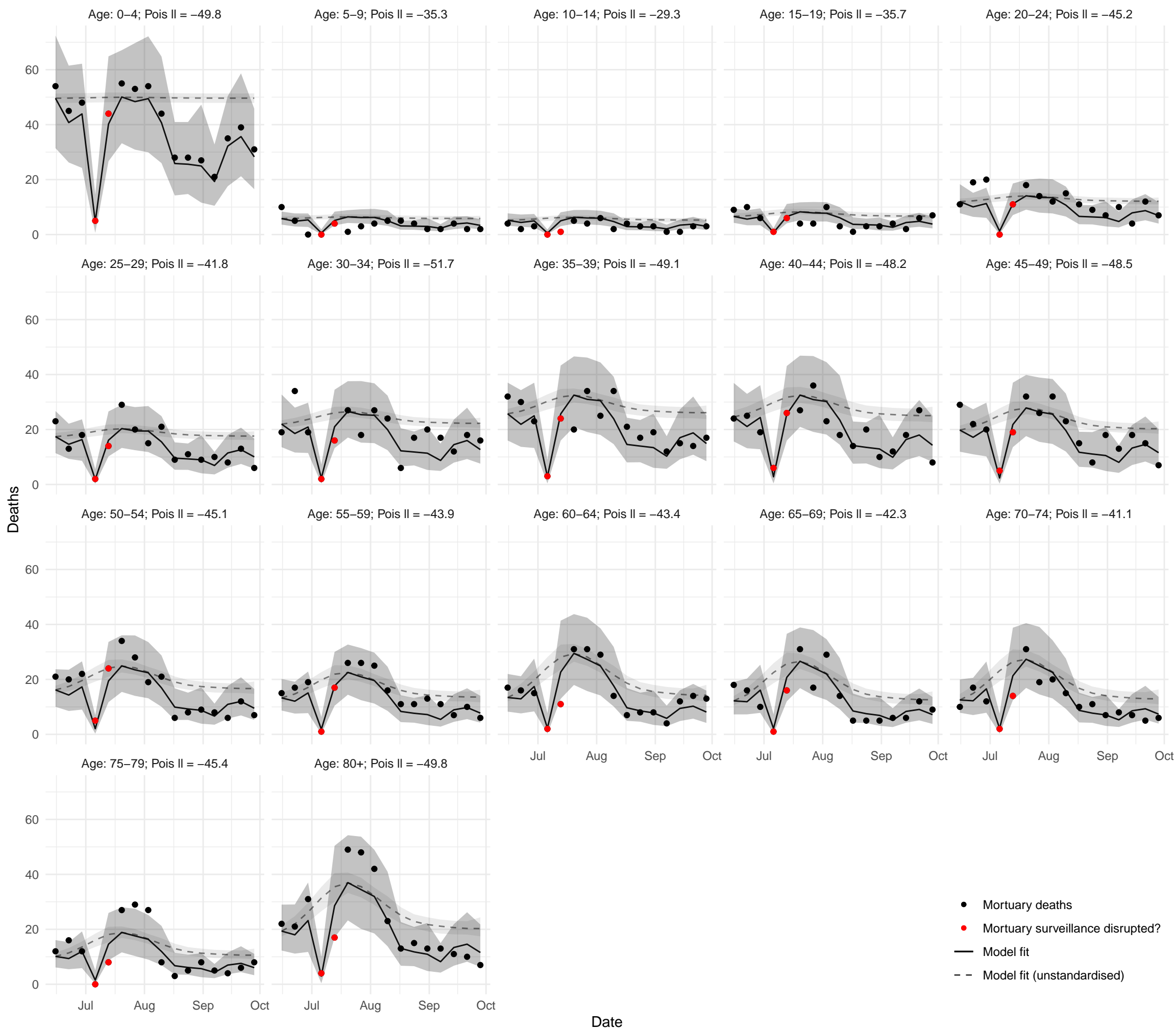


Modelled PCR %

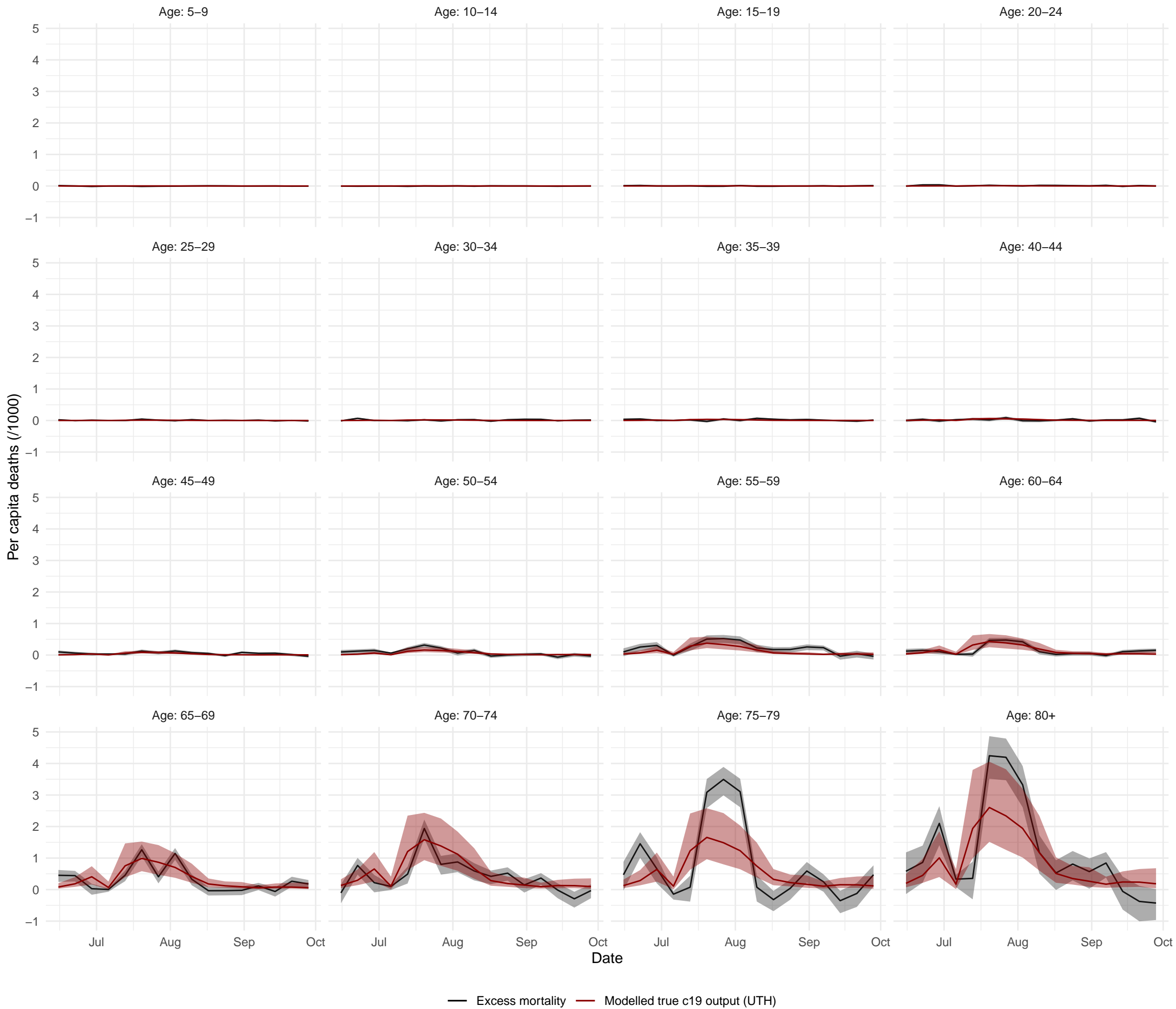


Modelled combined prevalence, Lusaka/Zambia

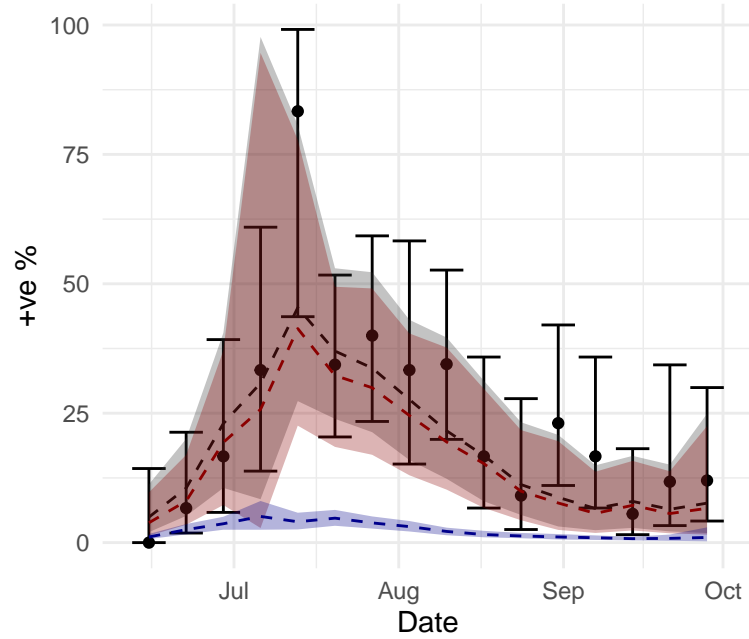




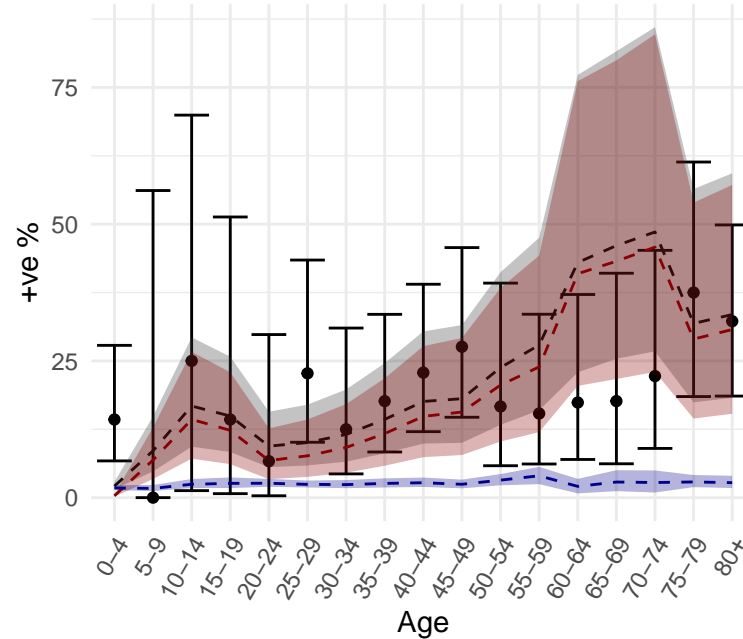
IFR x 1.25, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



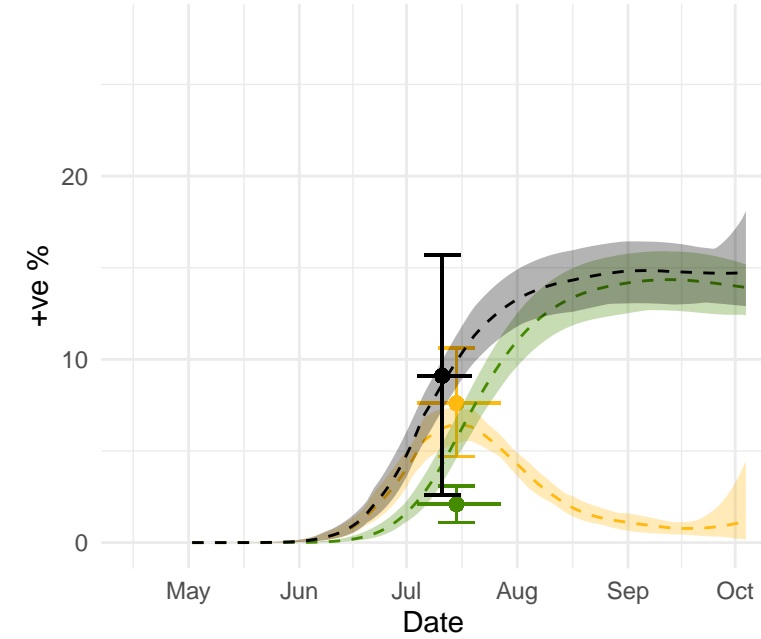
IFR x 1.67, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

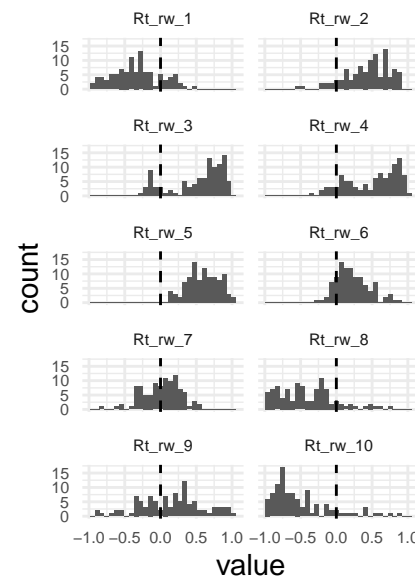
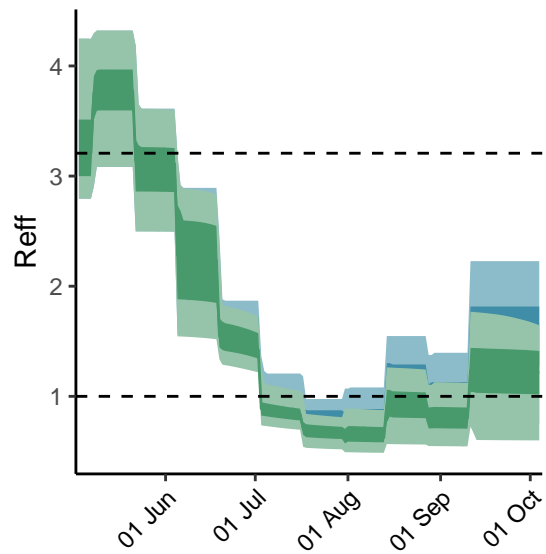


COVID-19 prevalence
Lusaka/Zambia

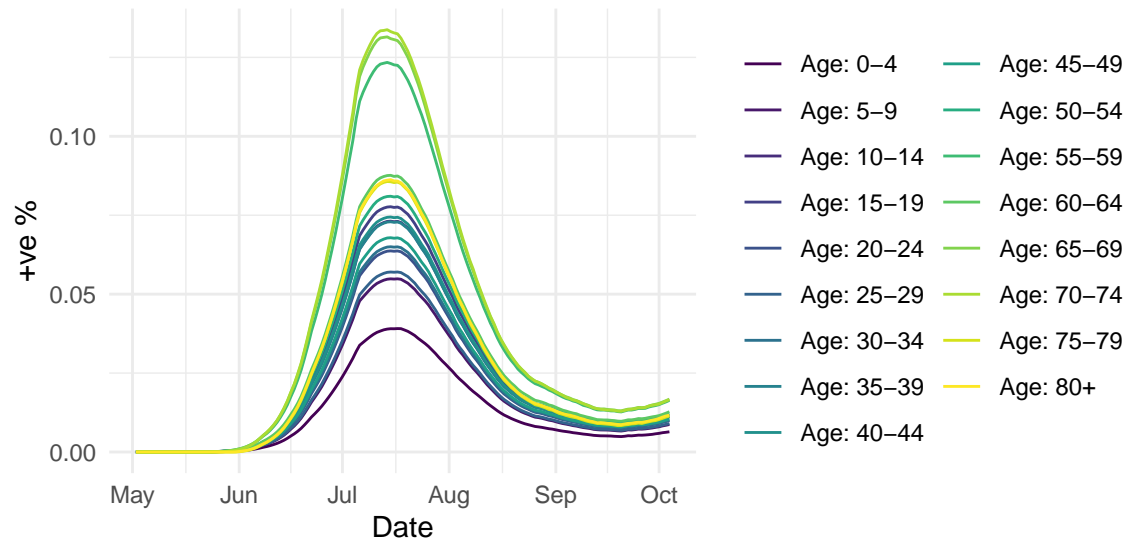


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

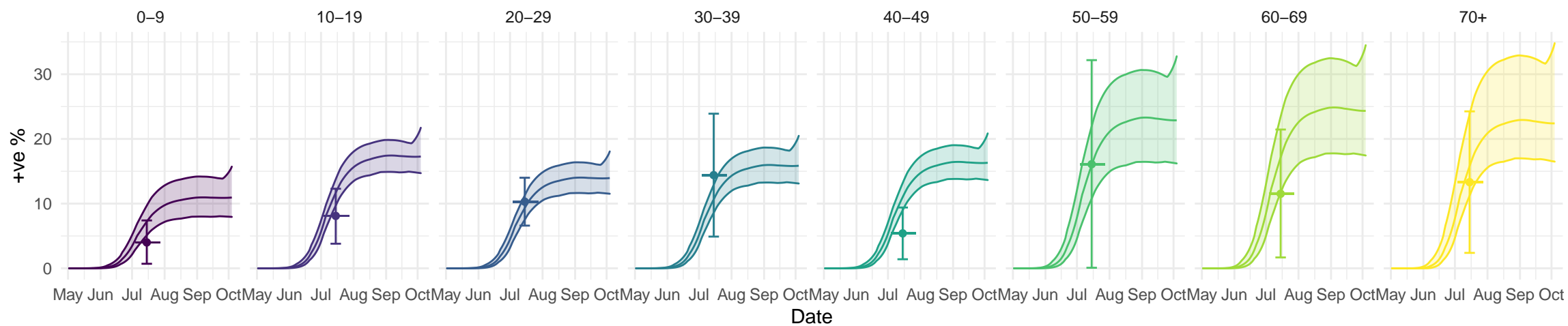
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

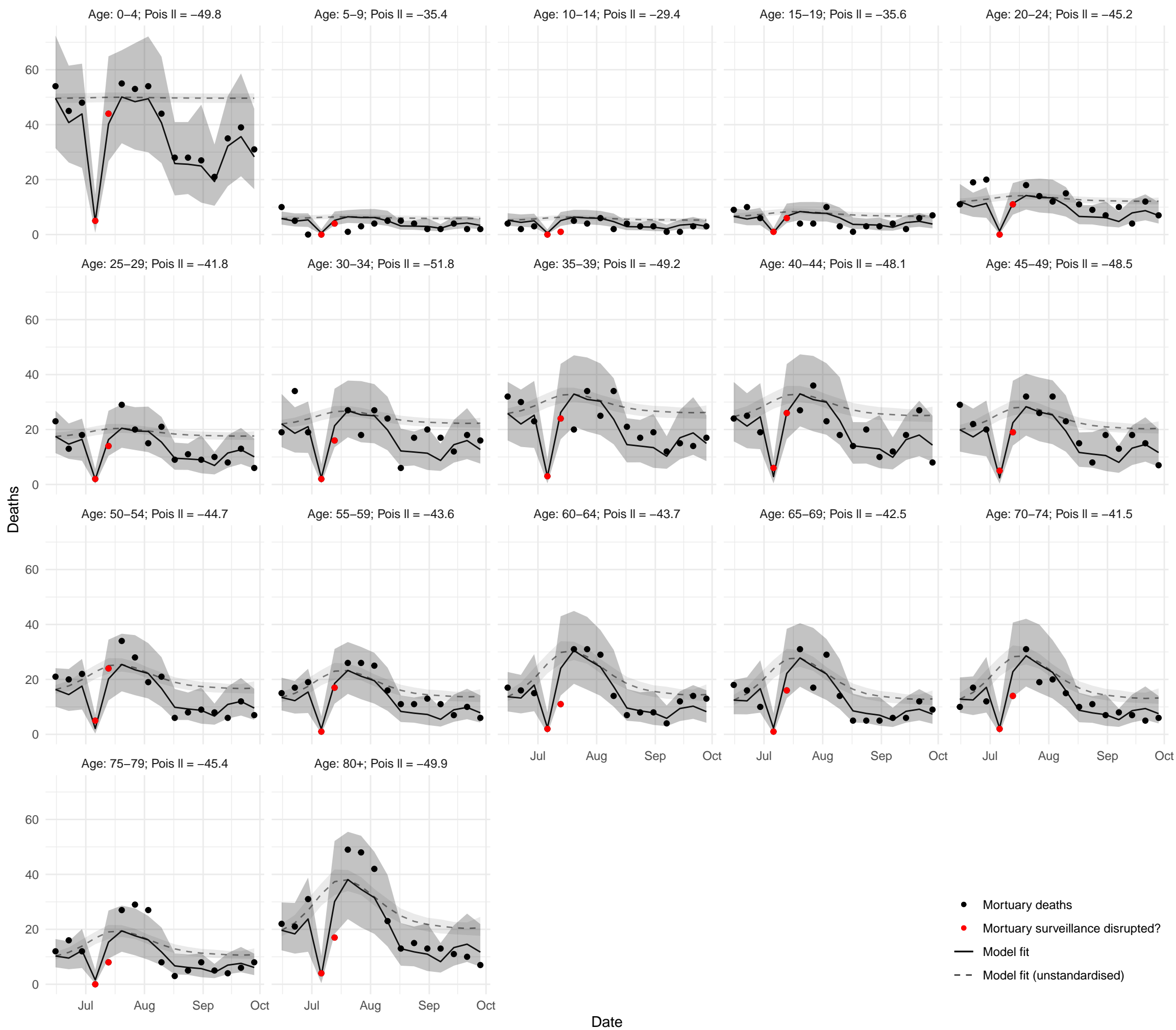


Modelled PCR %

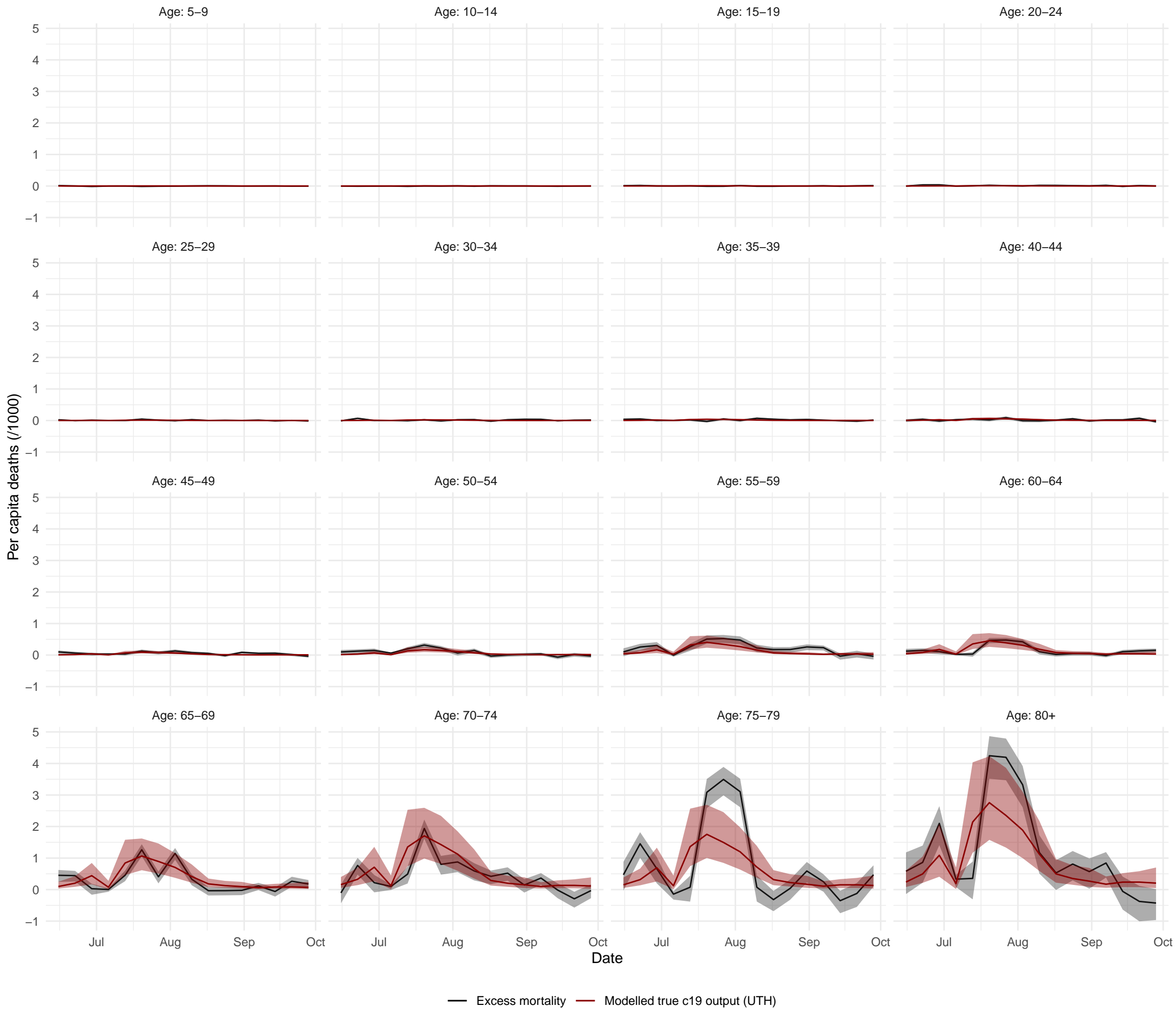


Modelled combined prevalence, Lusaka/Zambia

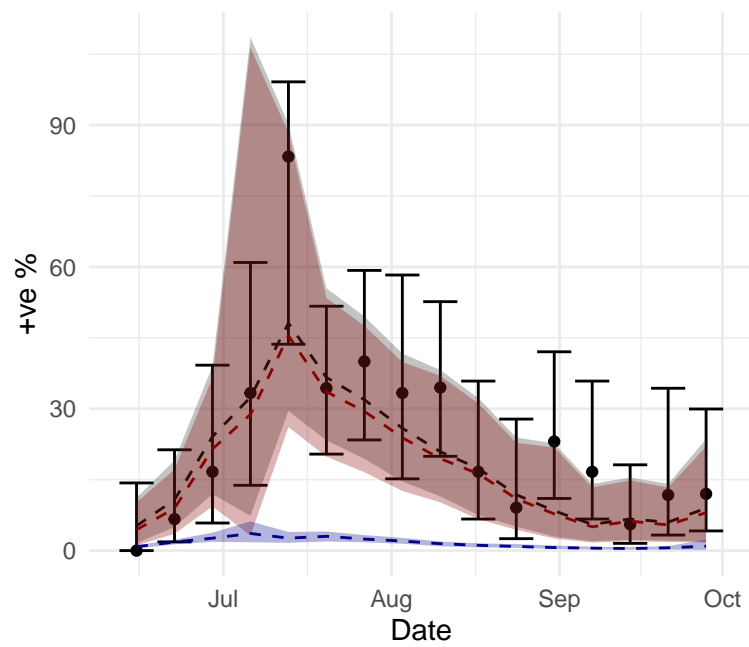




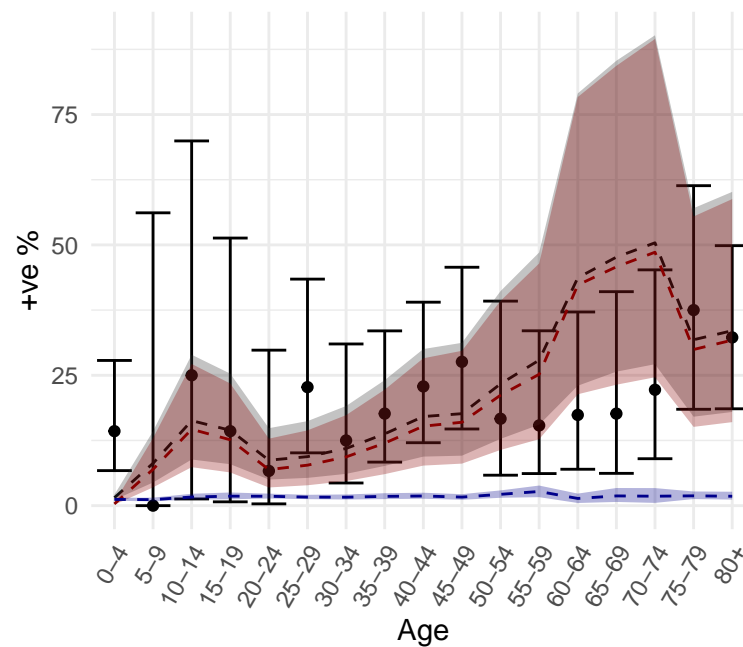
IFR x 1.67, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



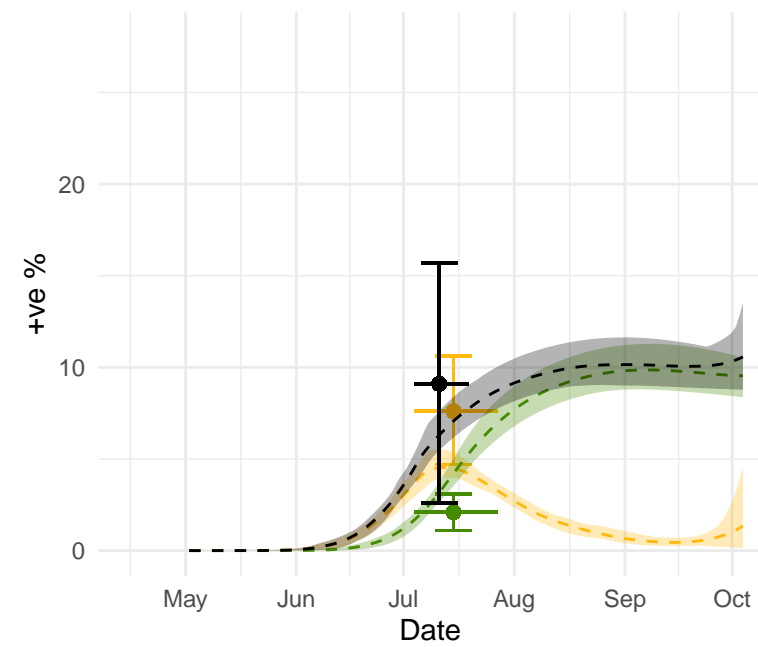
IFR x 2.5, Slope x 1
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

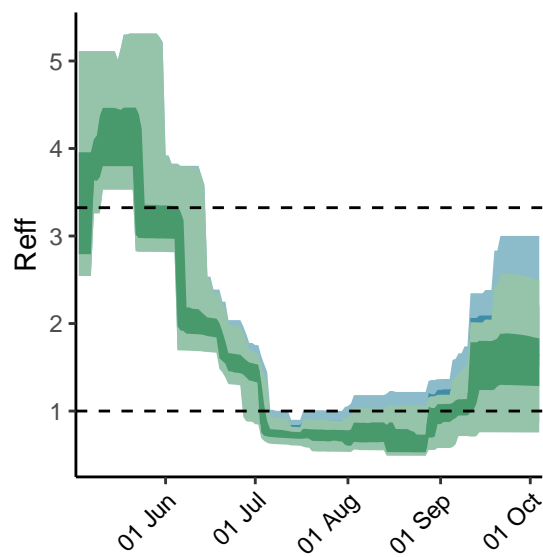


COVID-19 prevalence
Lusaka/Zambia

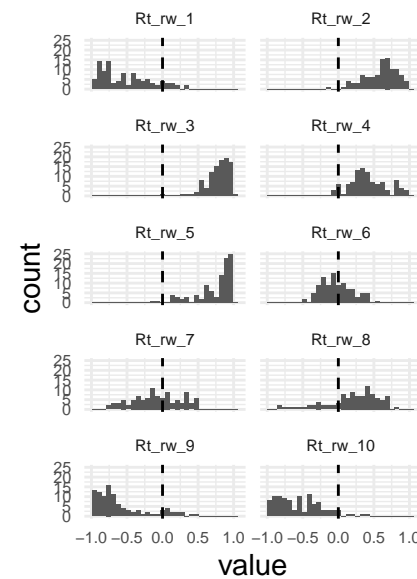


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

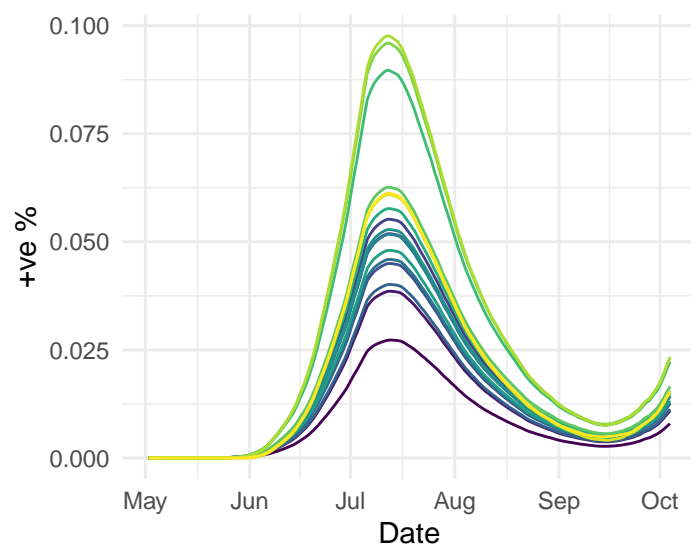
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

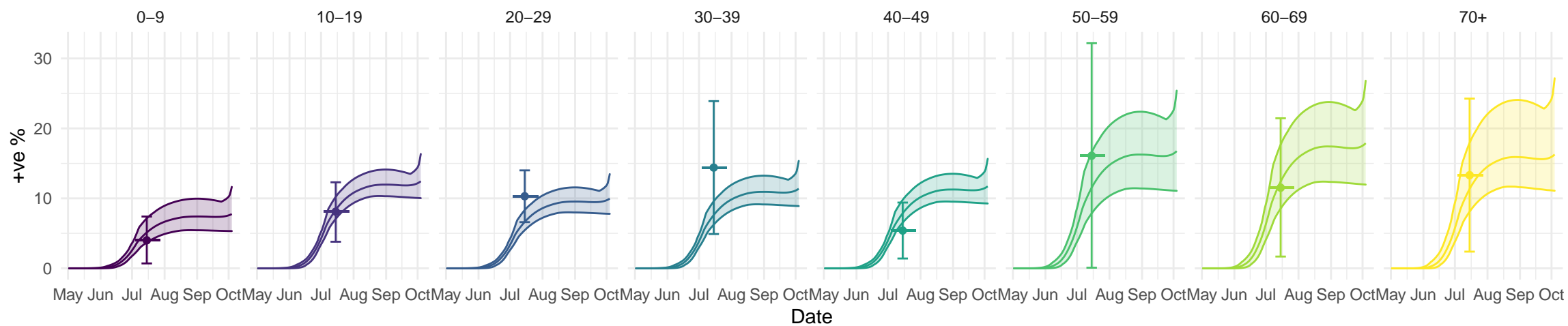


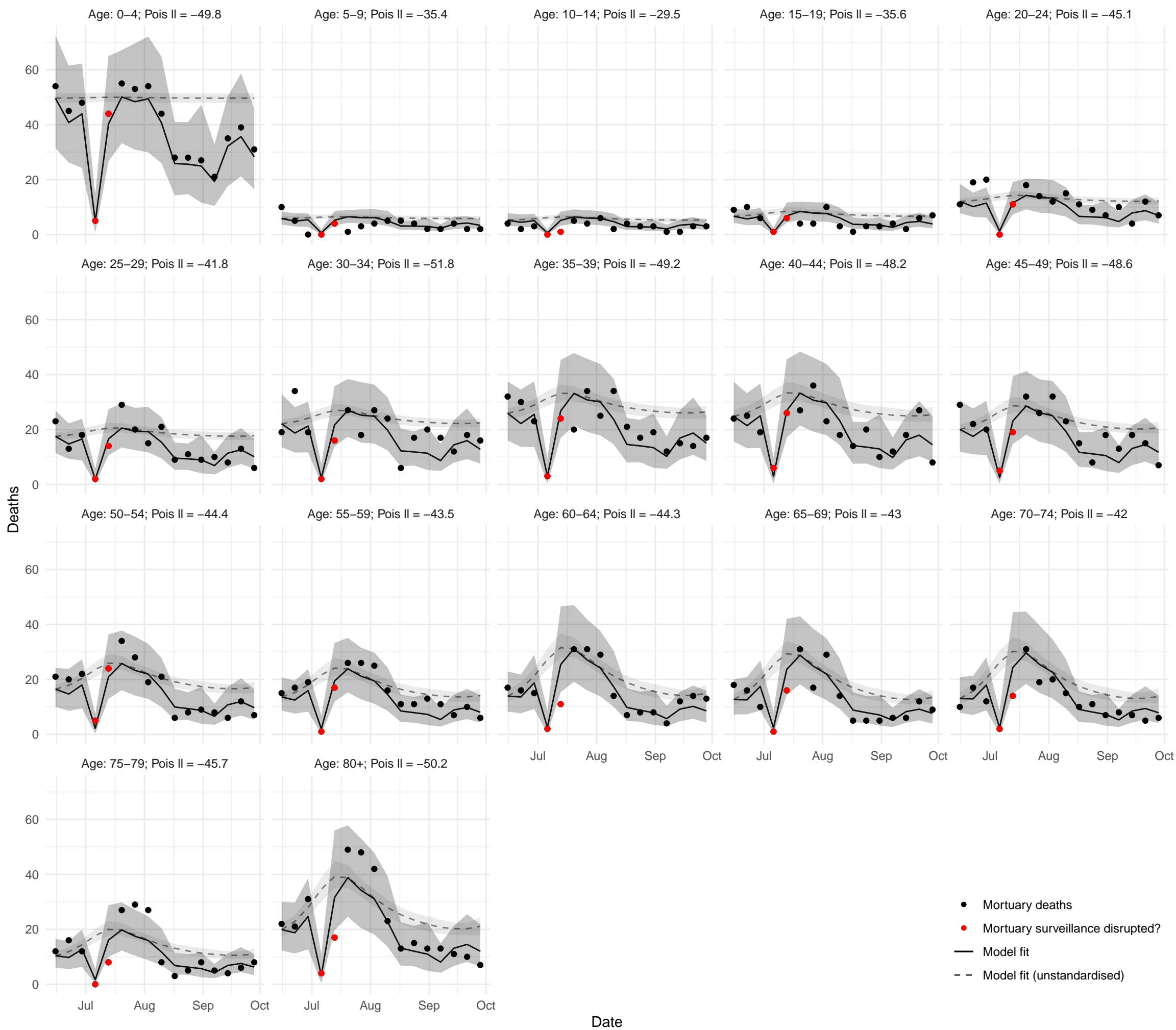
Modelled PCR %



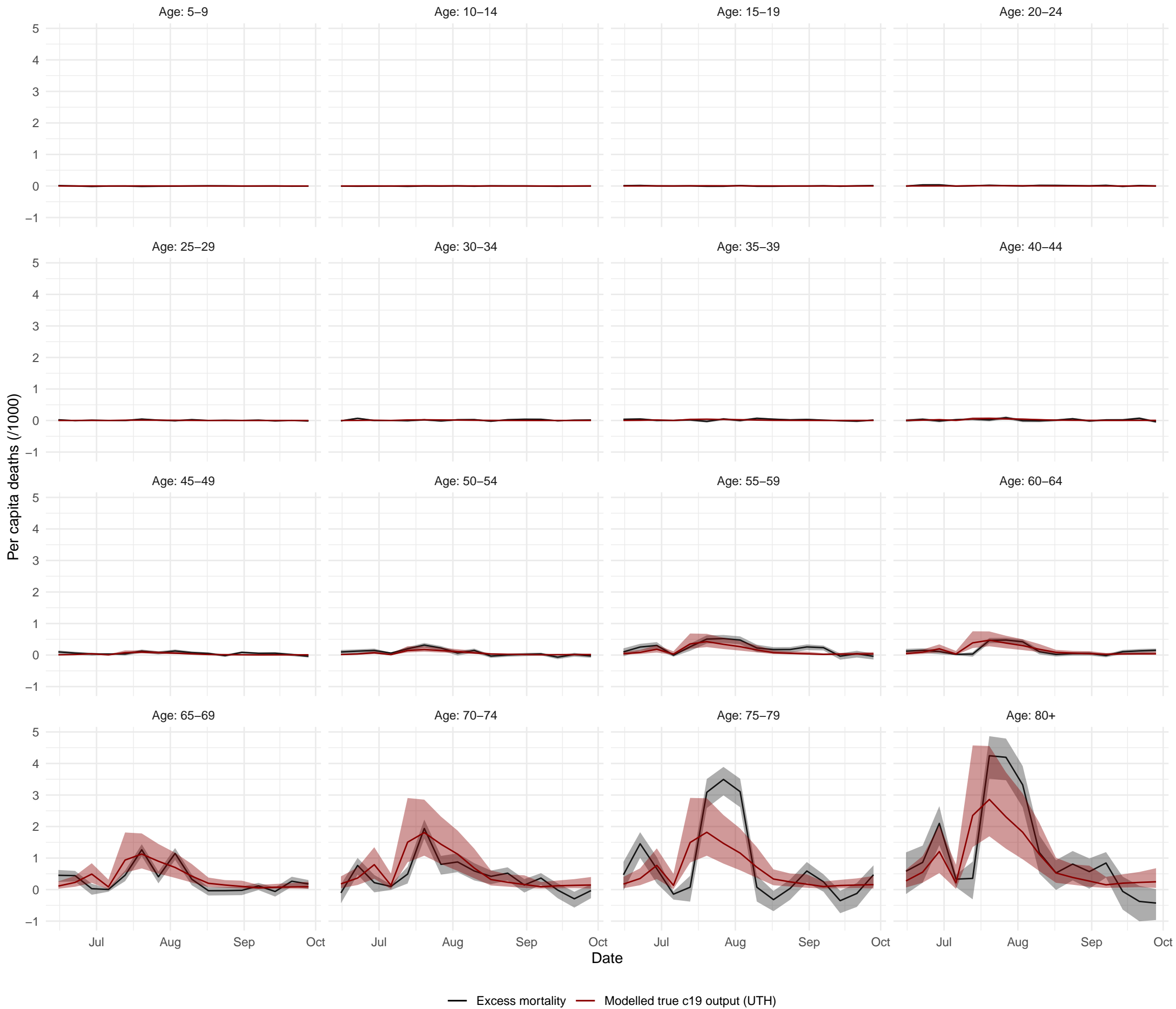
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

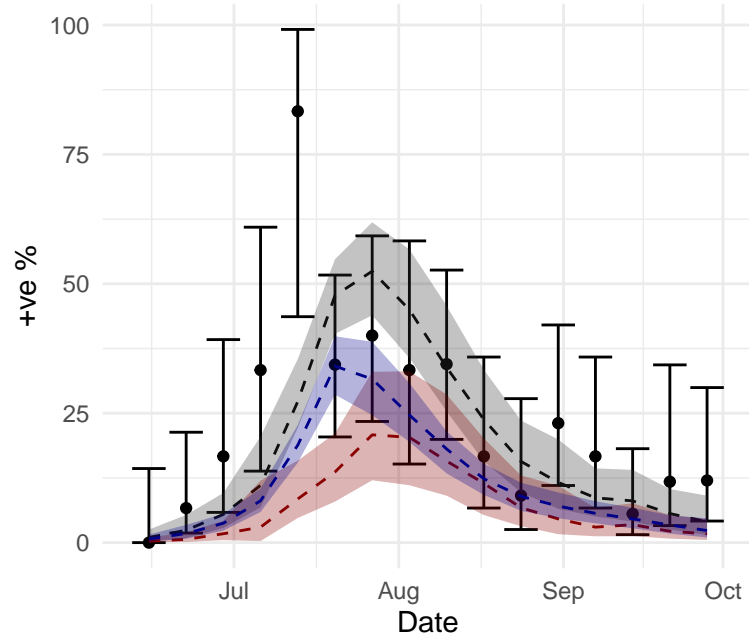




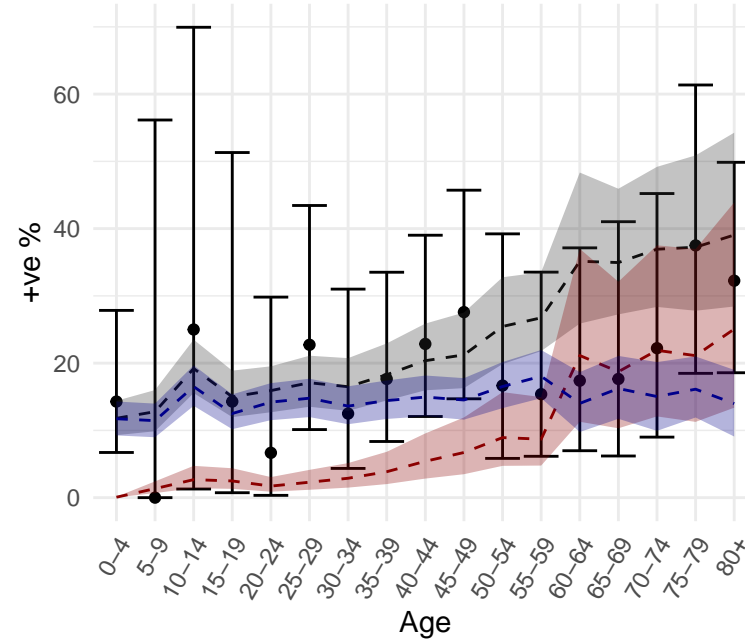
IFR x 2.5, Slope x 1
COVID-19 excess mortality: Comparison of MCMC results with squire results



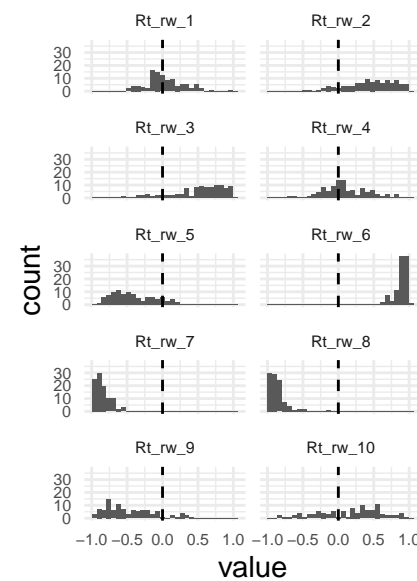
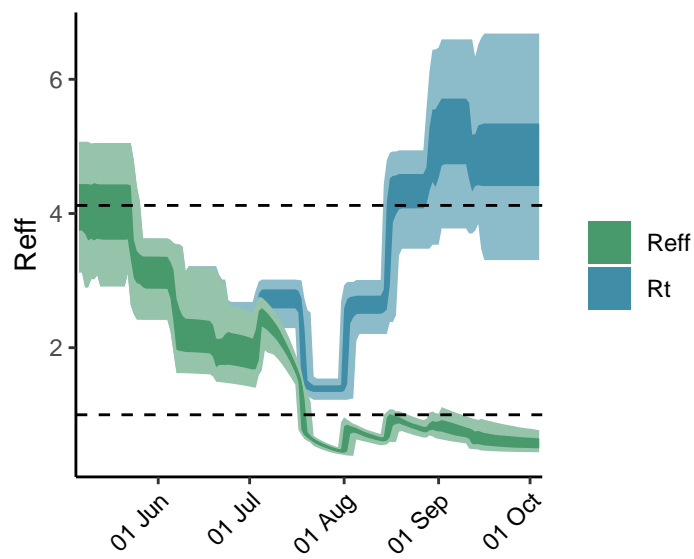
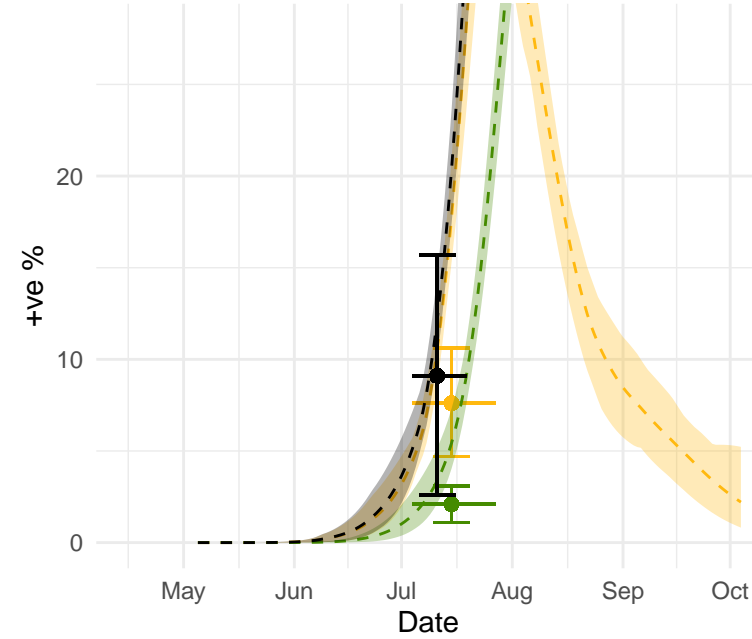
IFR x 0.2, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



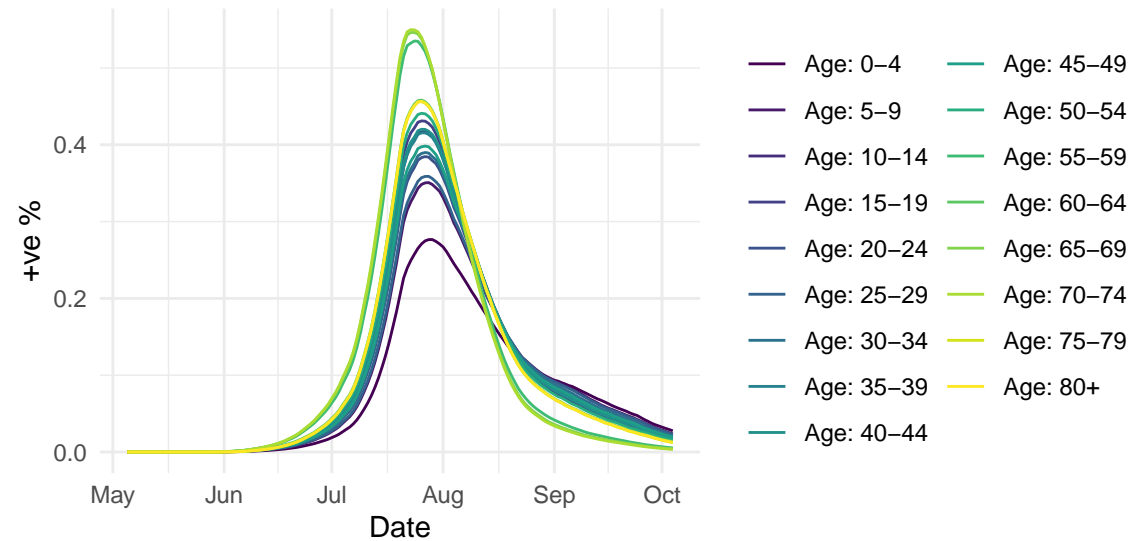
COVID-19 prevalence by age
UTH mortuary



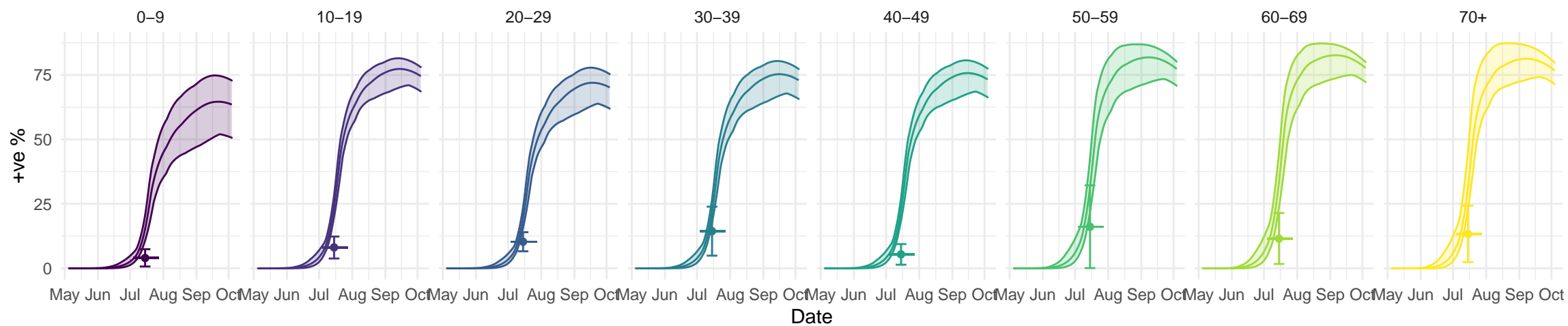
COVID-19 prevalence
Lusaka/Zambia

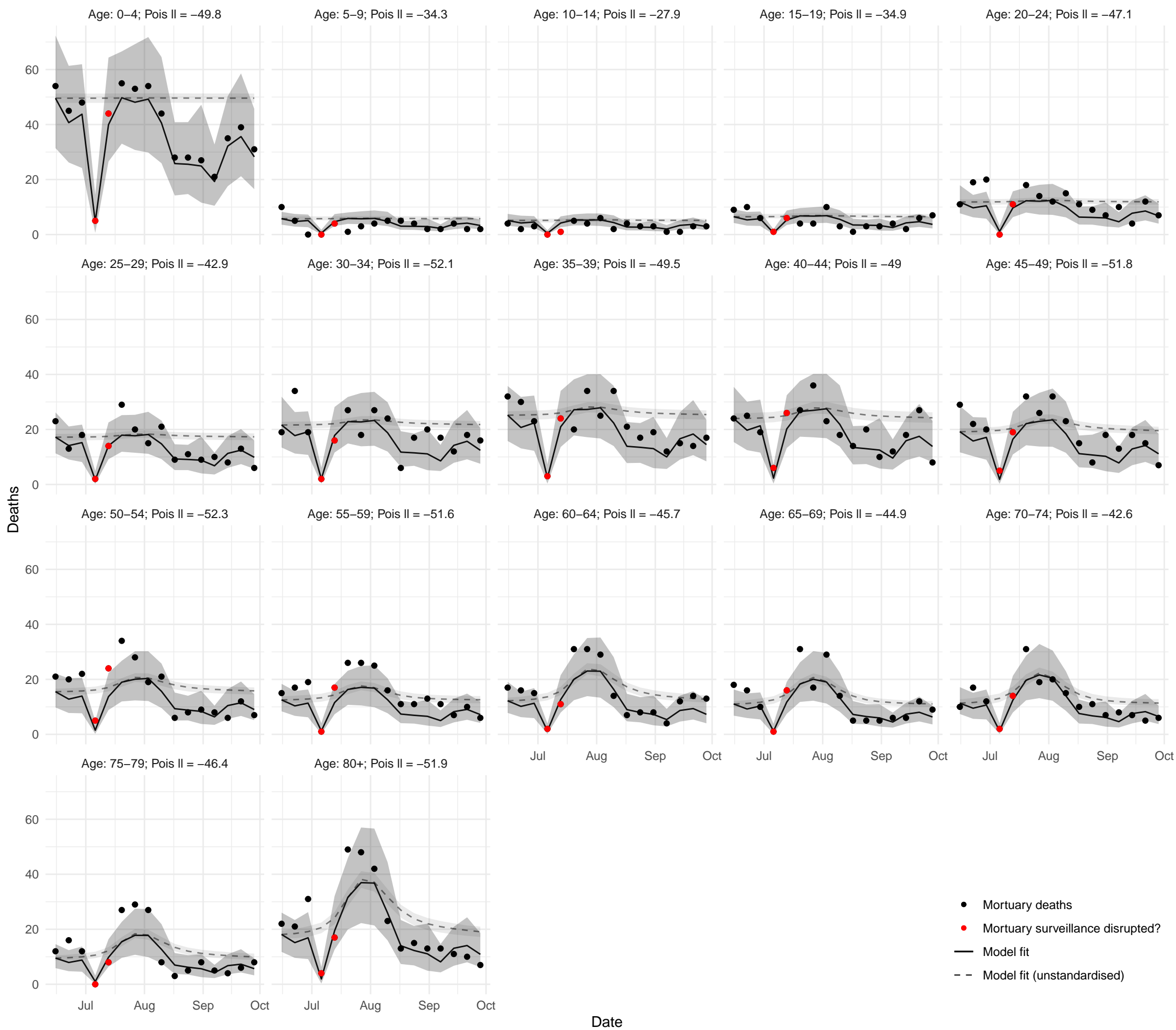


Modelled PCR %

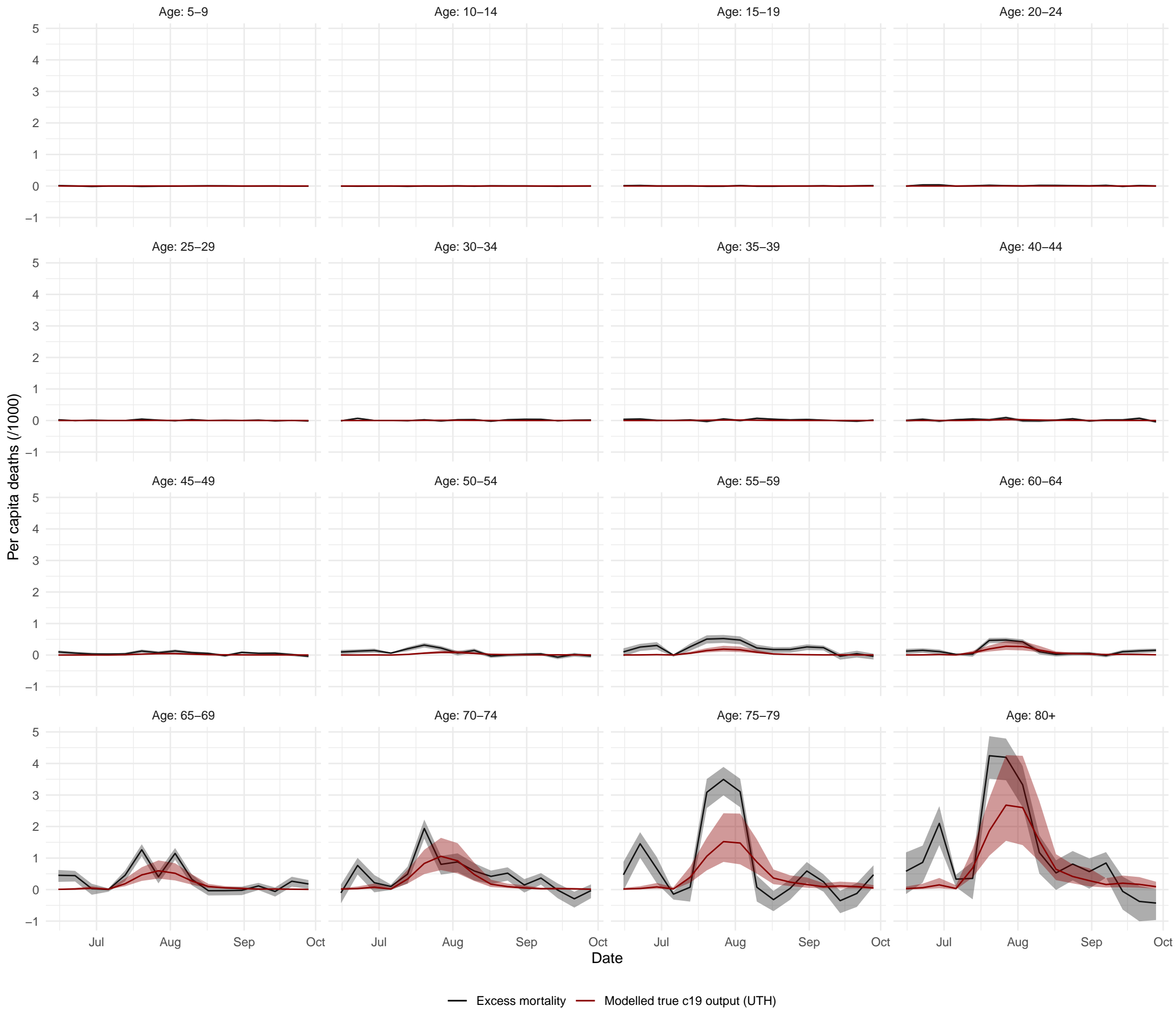


Modelled combined prevalence, Lusaka/Zambia

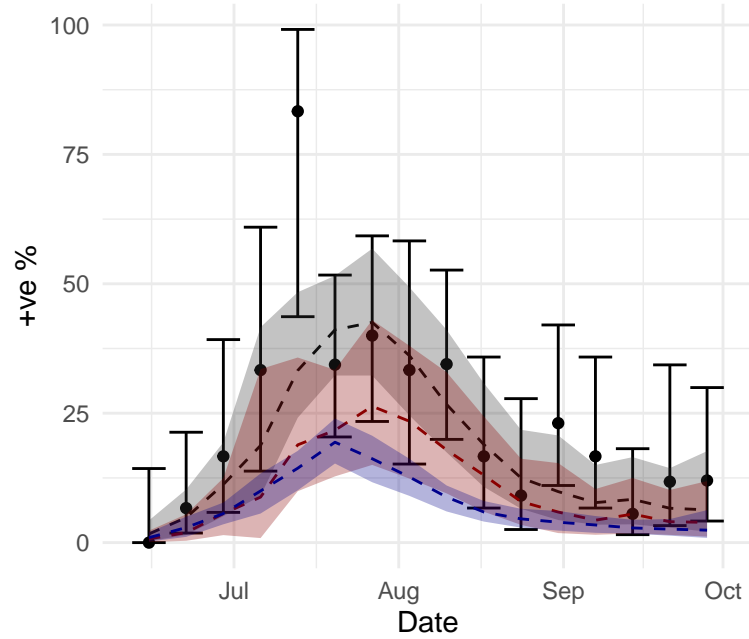




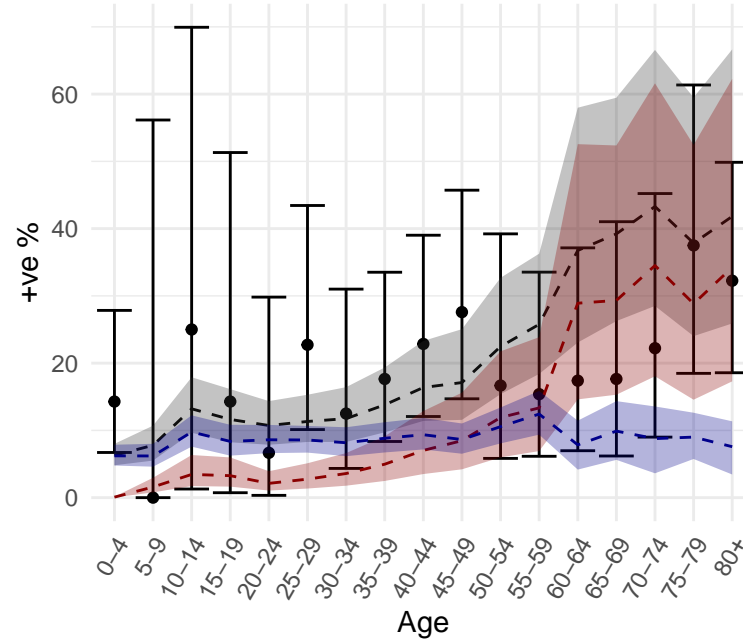
IFR x 0.2, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with squire results



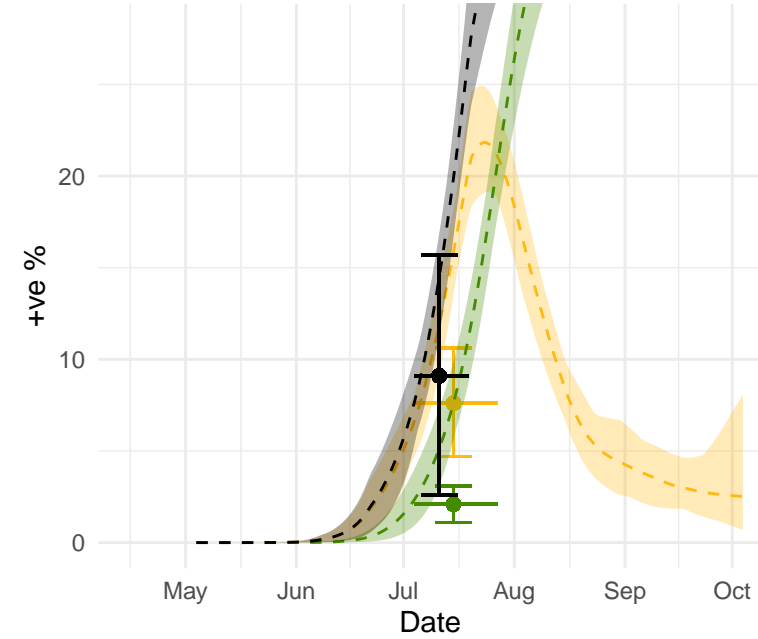
IFR x 0.4, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

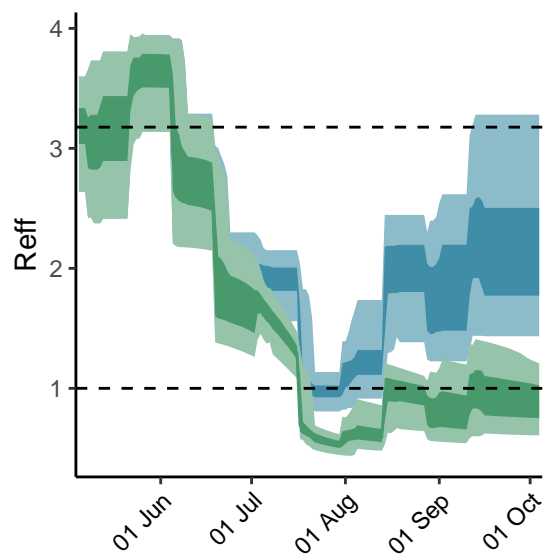


COVID-19 prevalence
Lusaka/Zambia

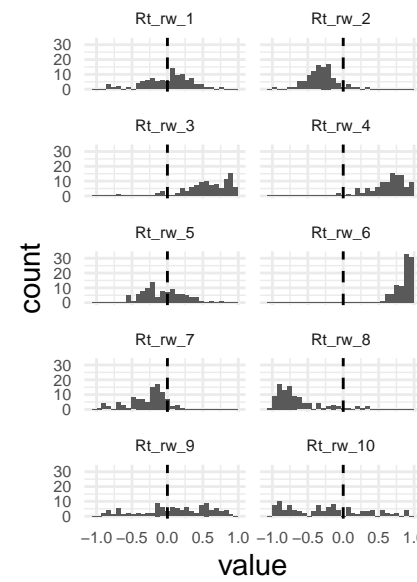


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

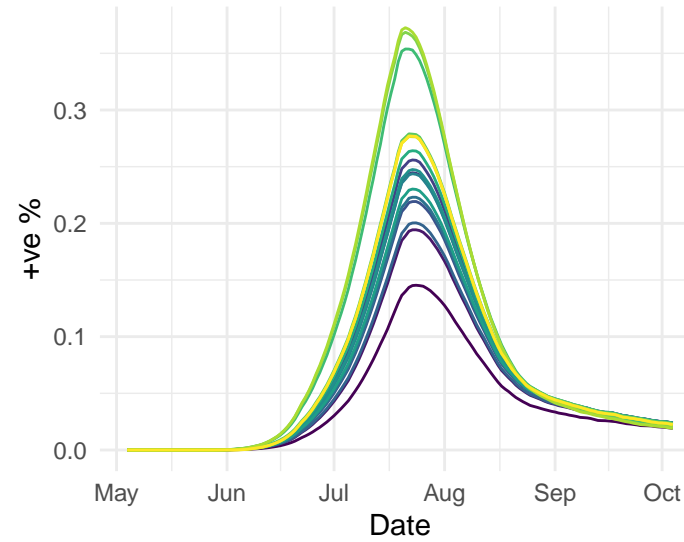
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

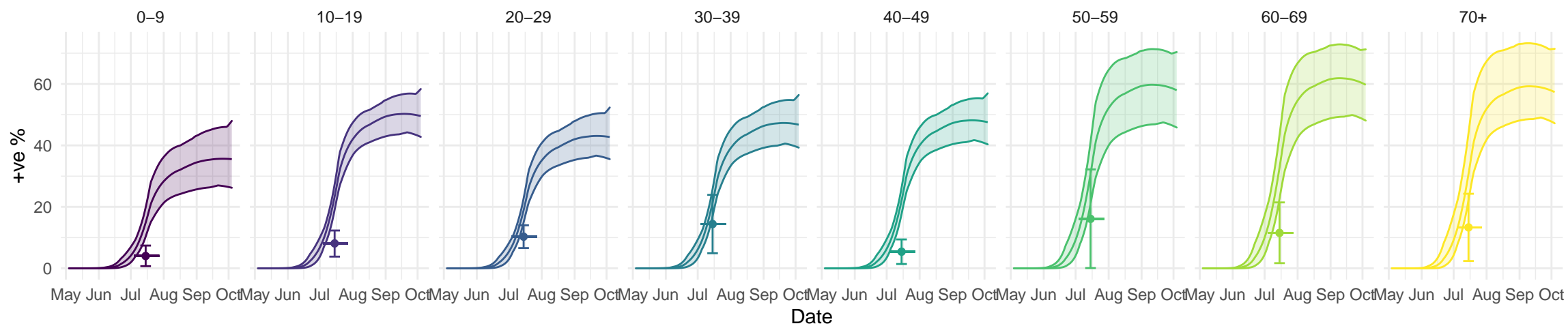


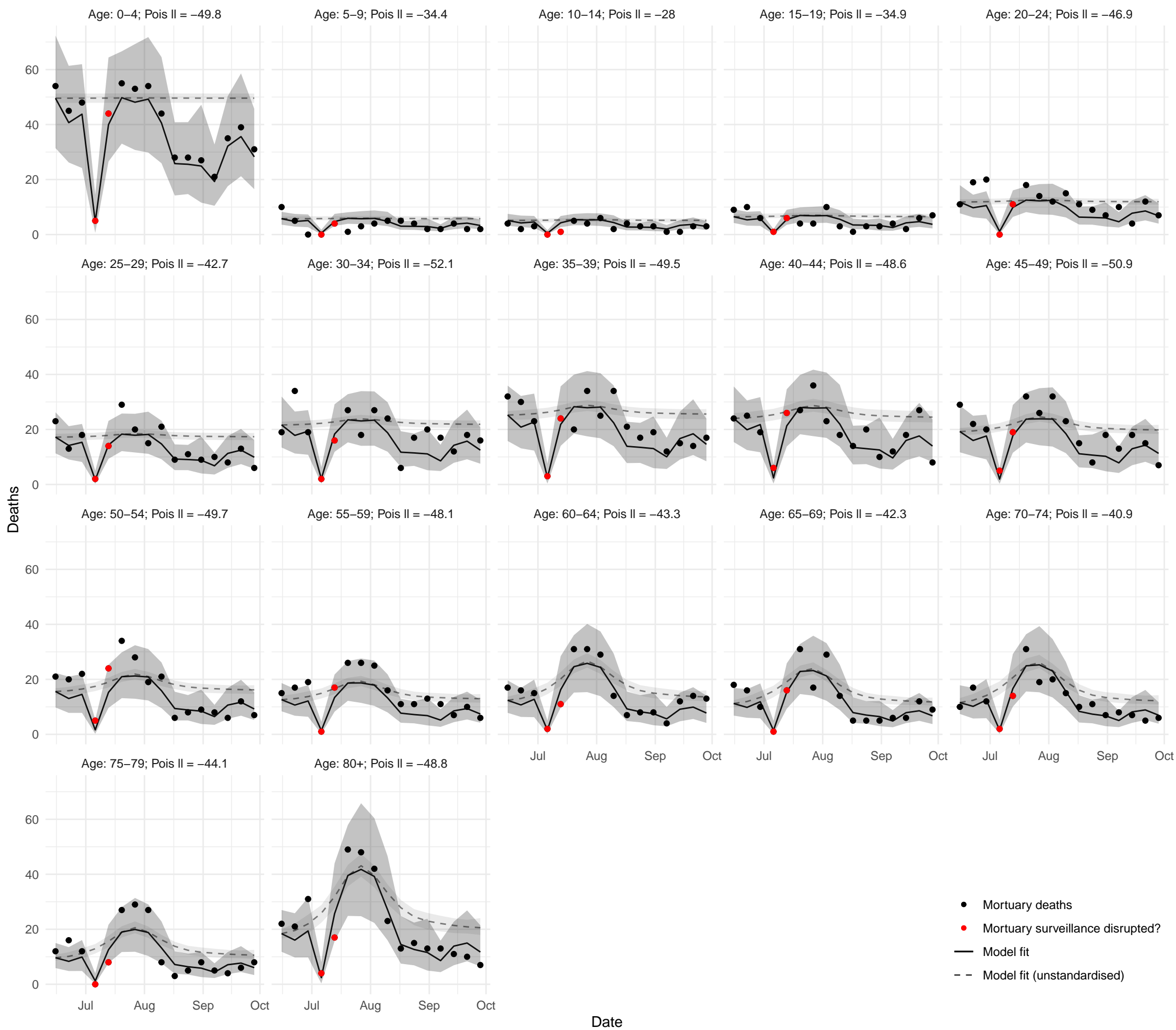
Modelled PCR %



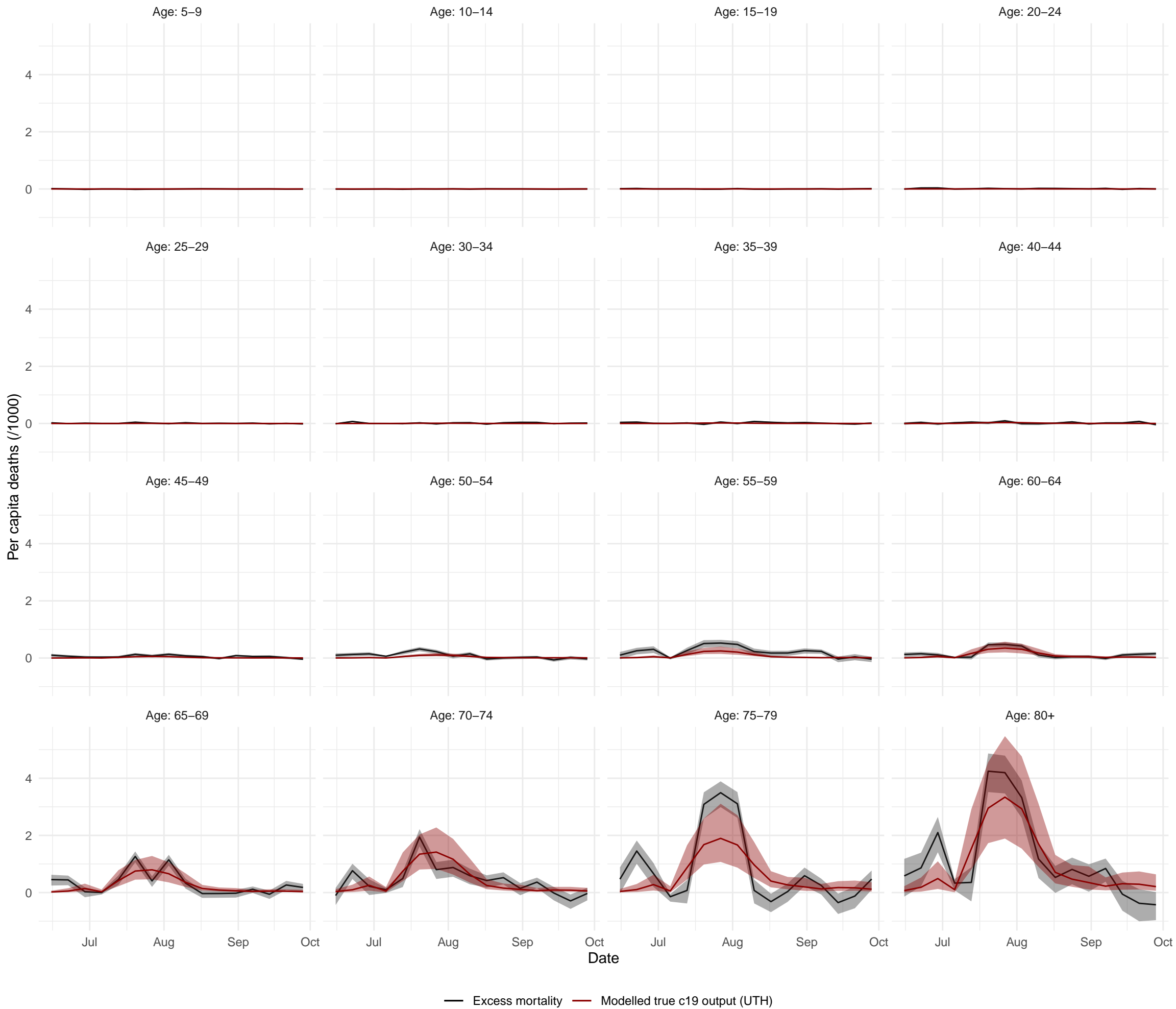
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

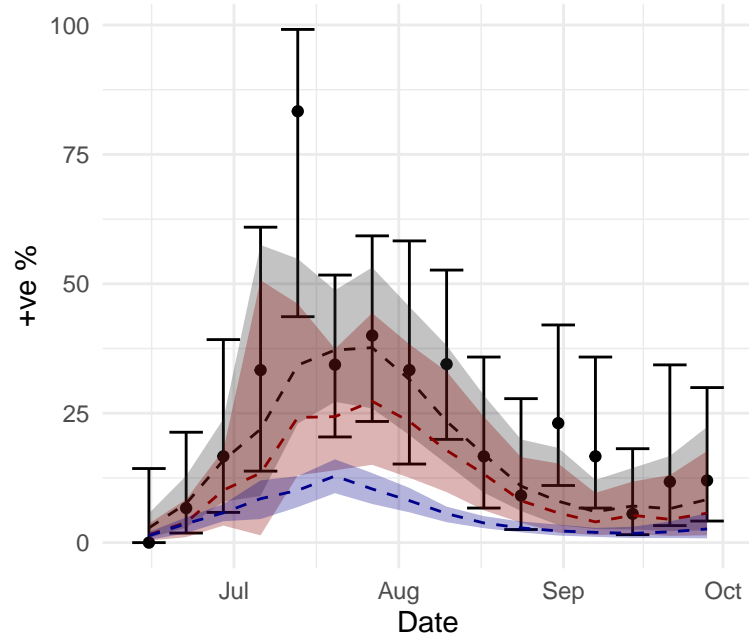




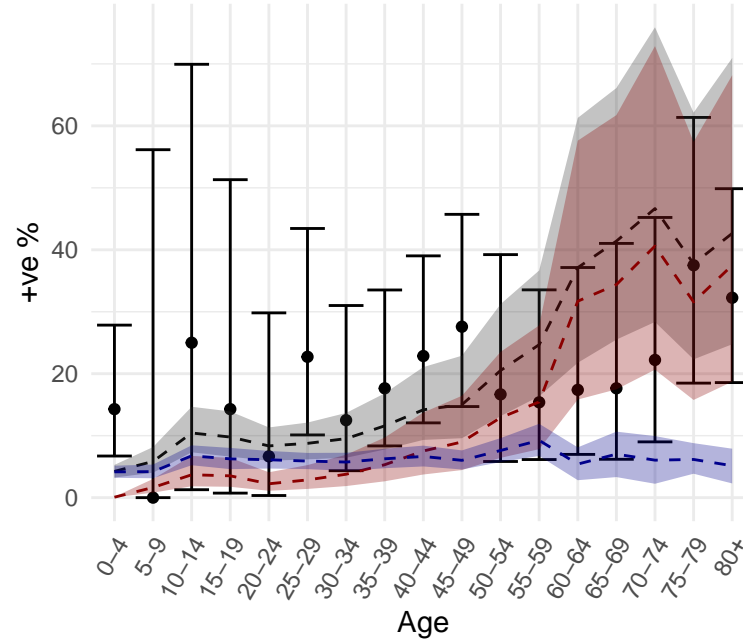
IFR x 0.4, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with sqire results



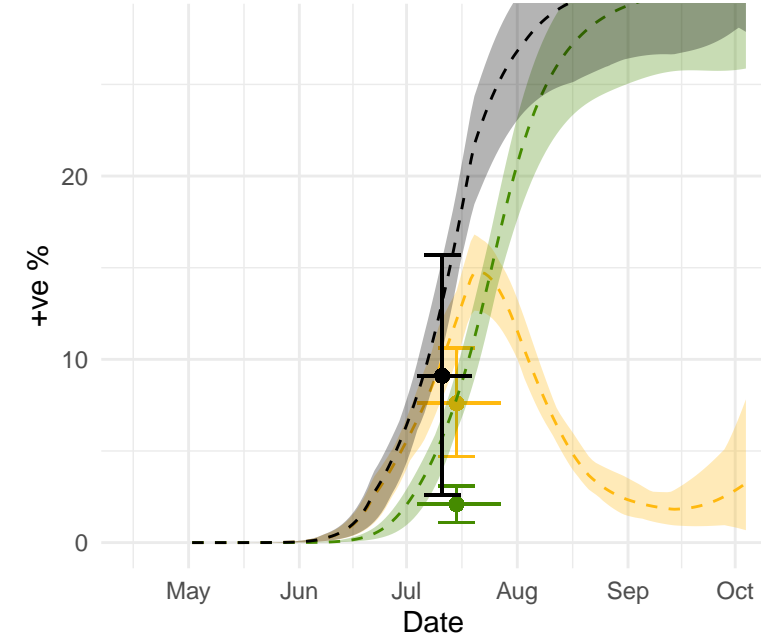
IFR x 0.6, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

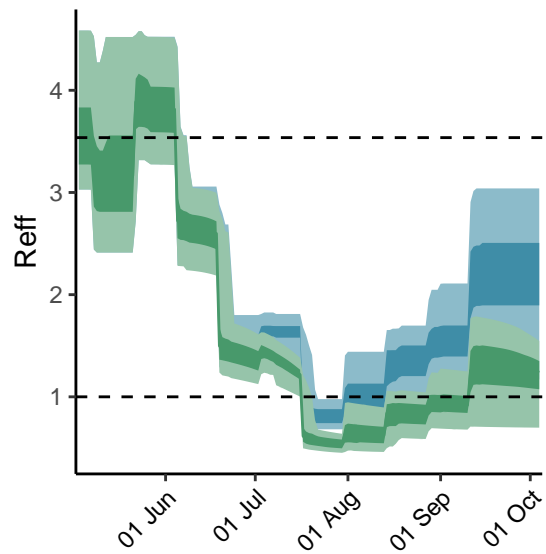


COVID-19 prevalence
Lusaka/Zambia

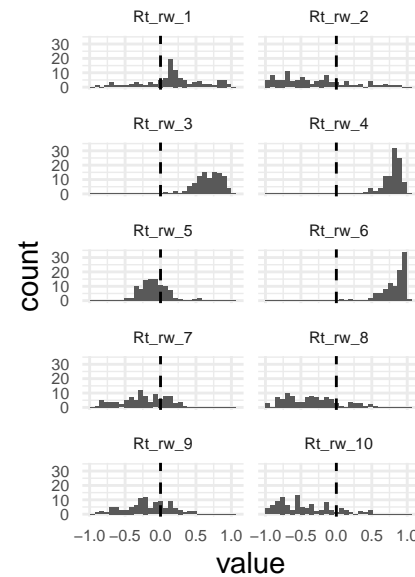


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

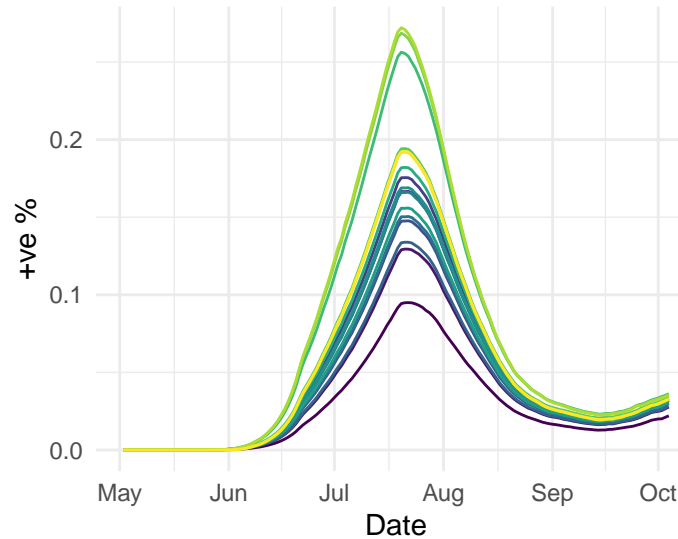
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

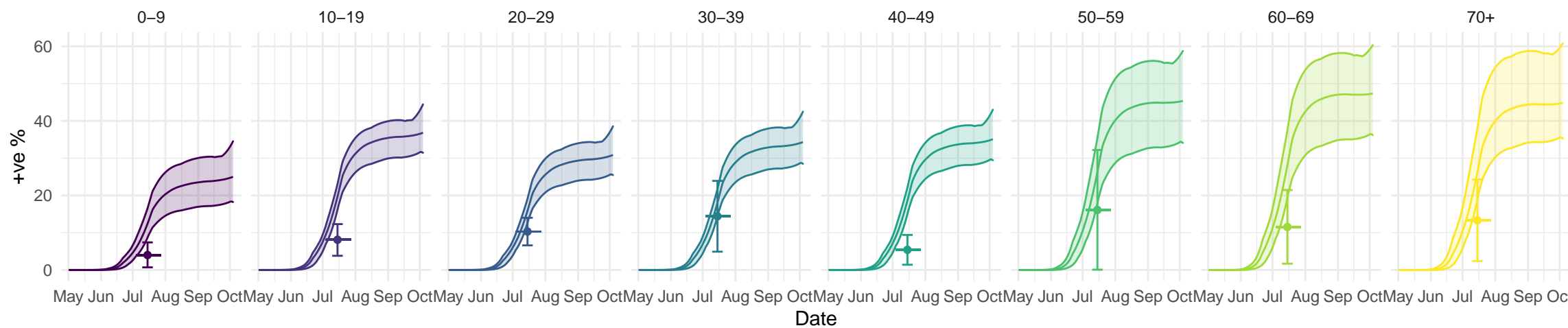


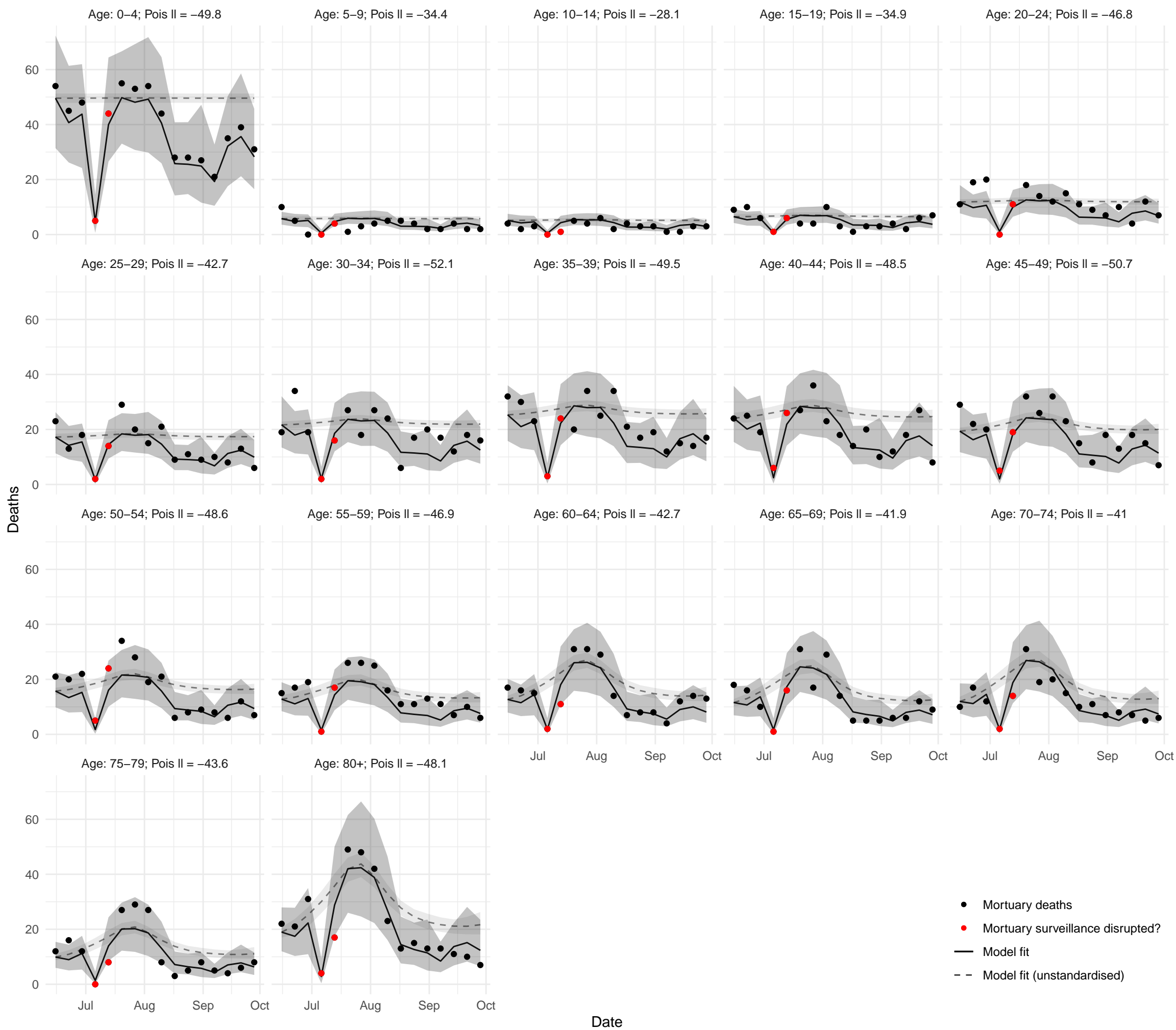
Modelled PCR %



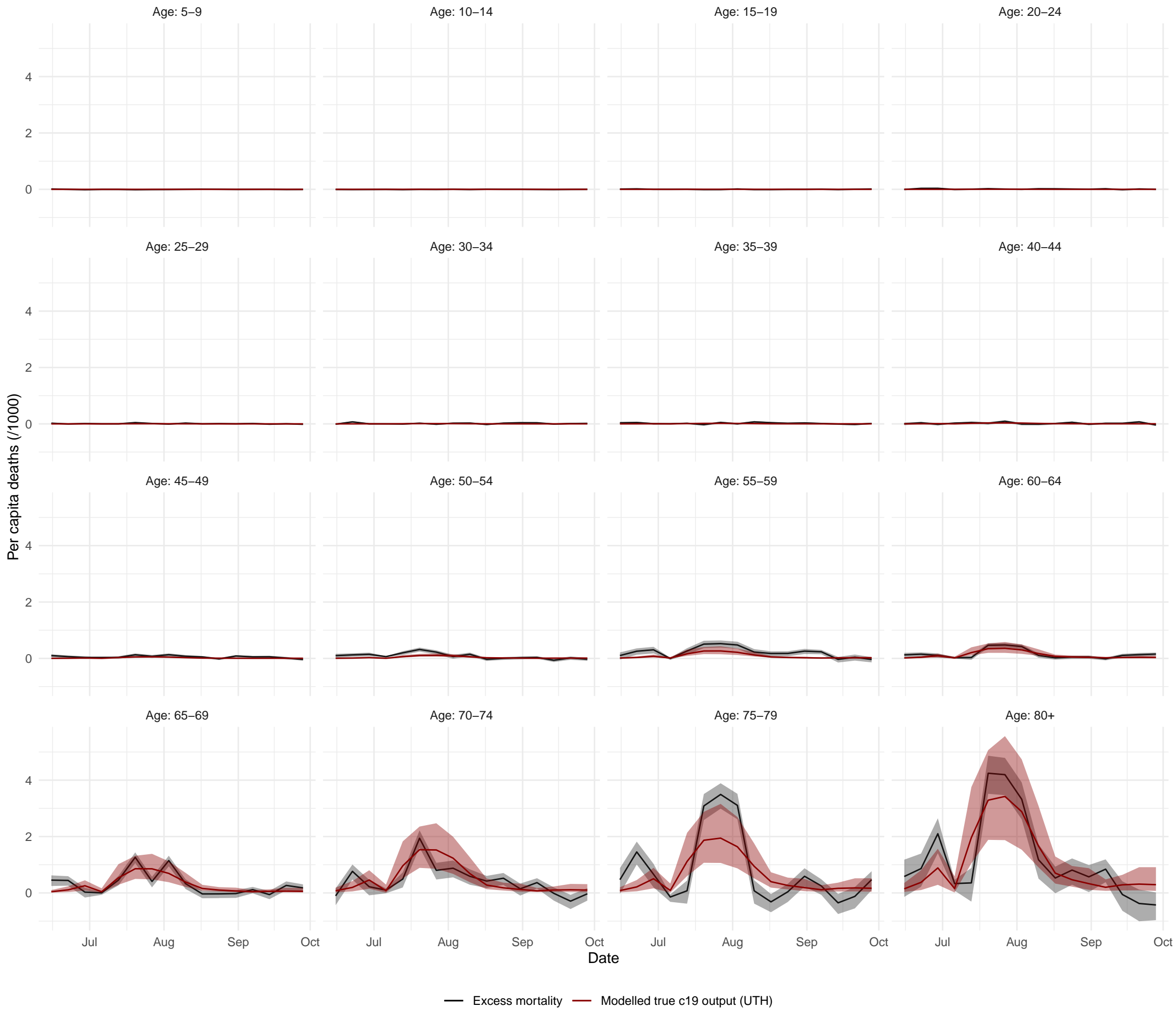
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

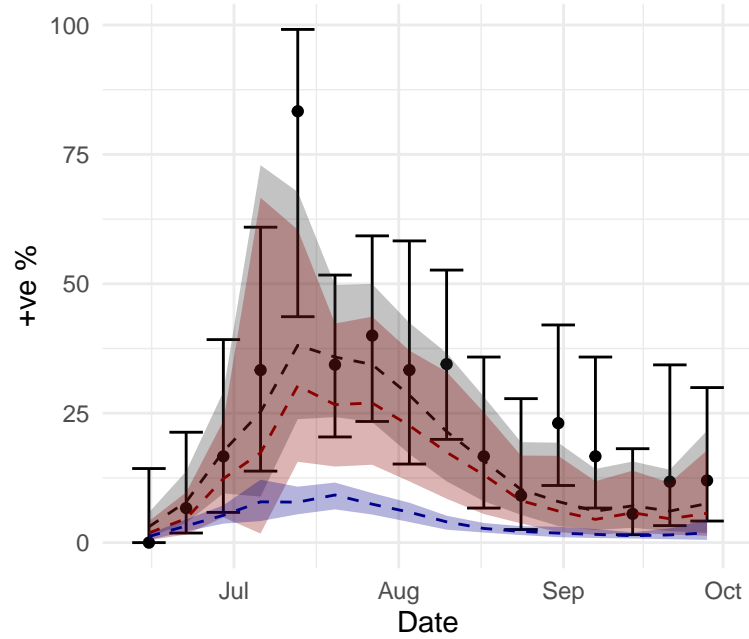




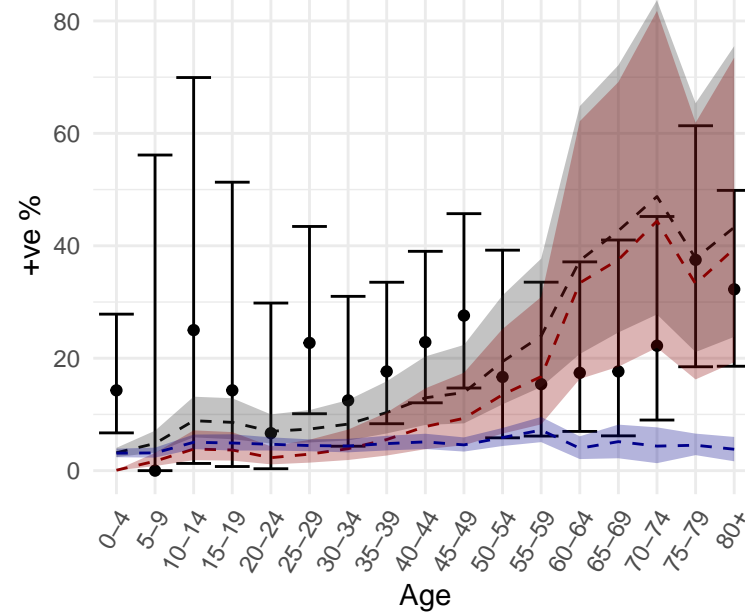
IFR x 0.6, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with sqire results



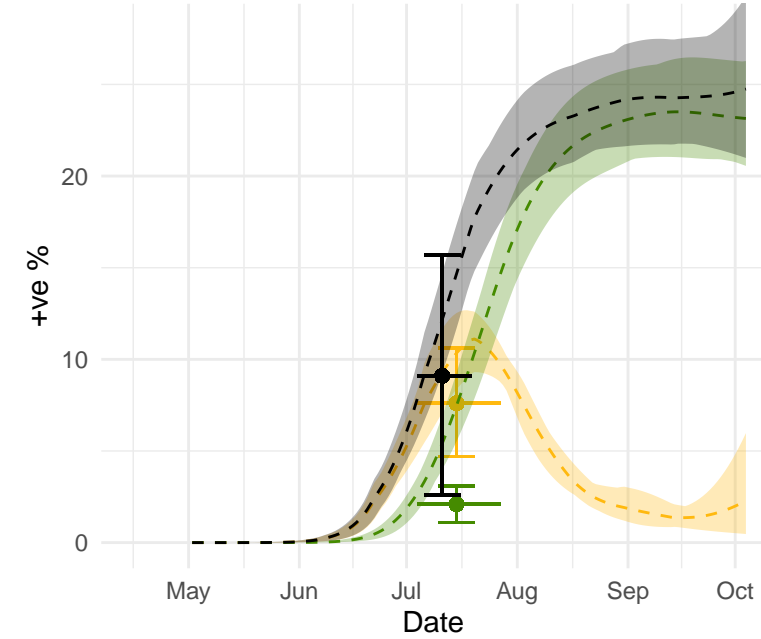
IFR x 0.8, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

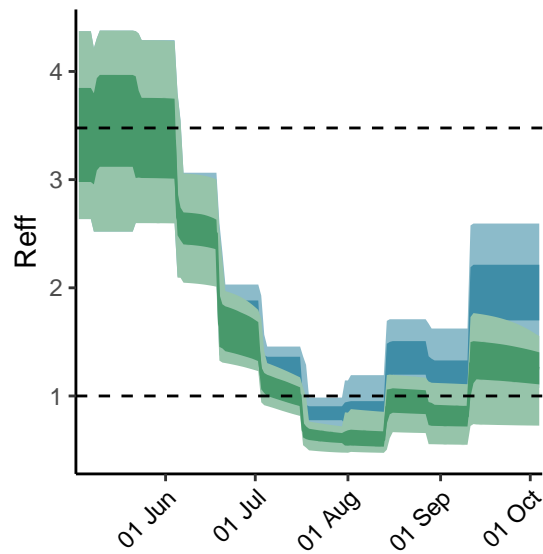


COVID-19 prevalence
Lusaka/Zambia

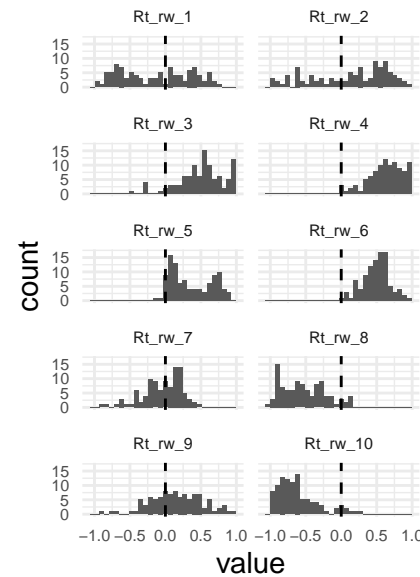


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

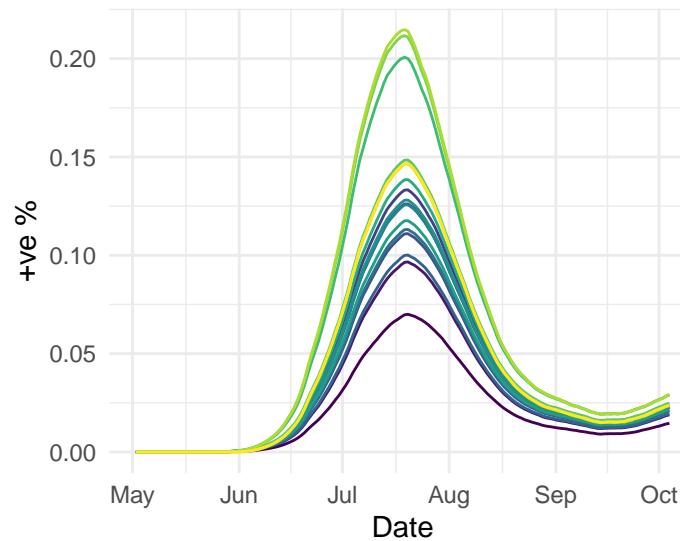
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



Reff
Rt

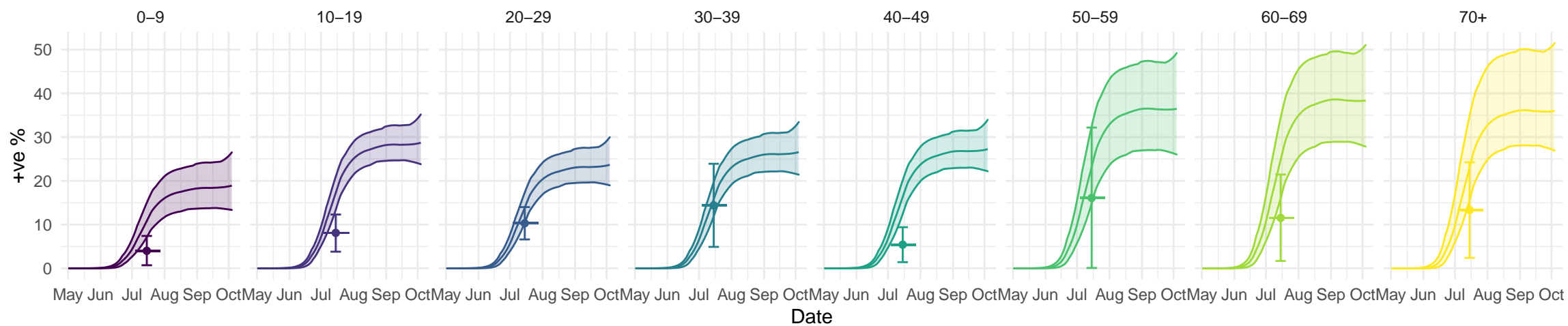


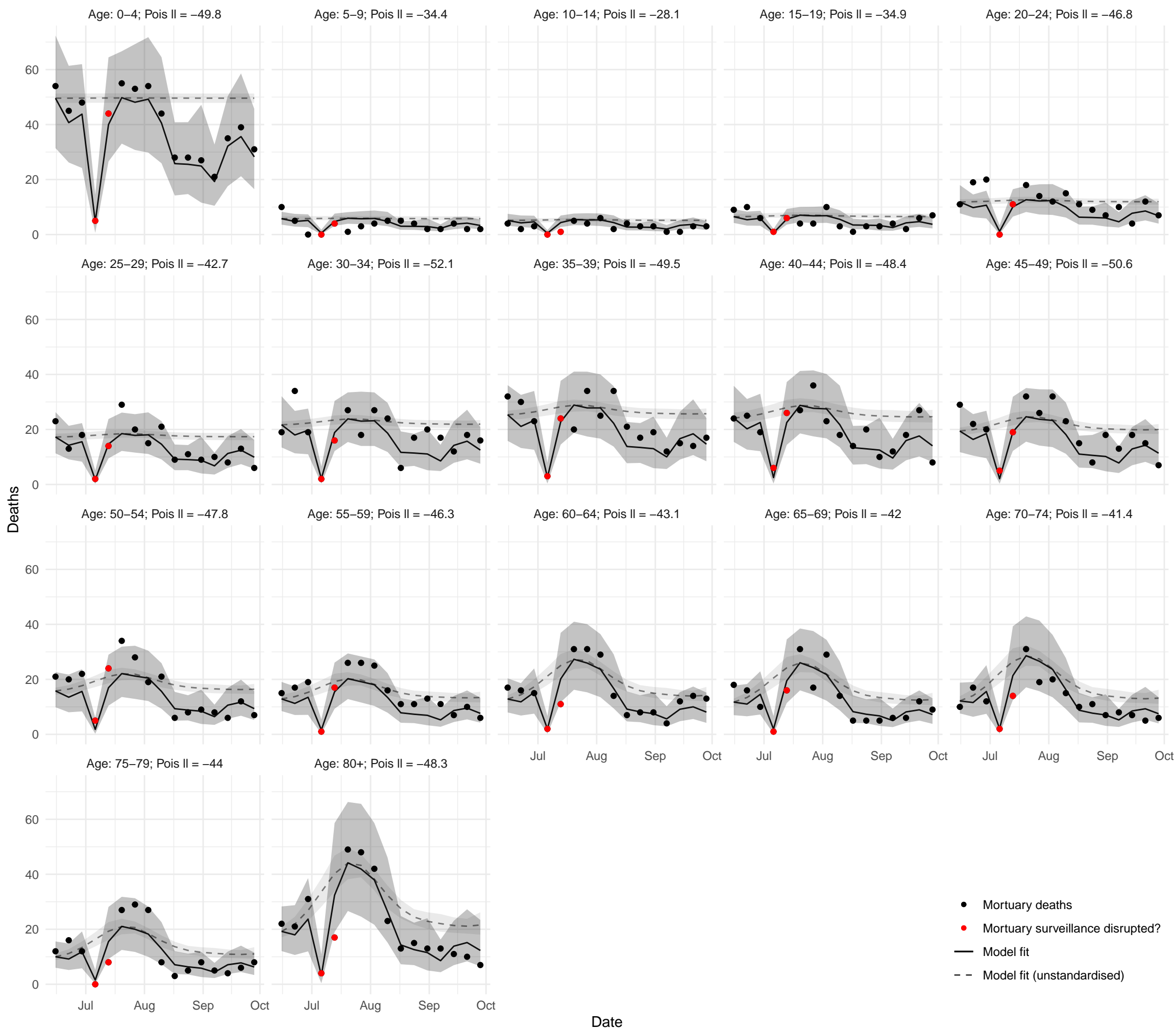
Modelled PCR %



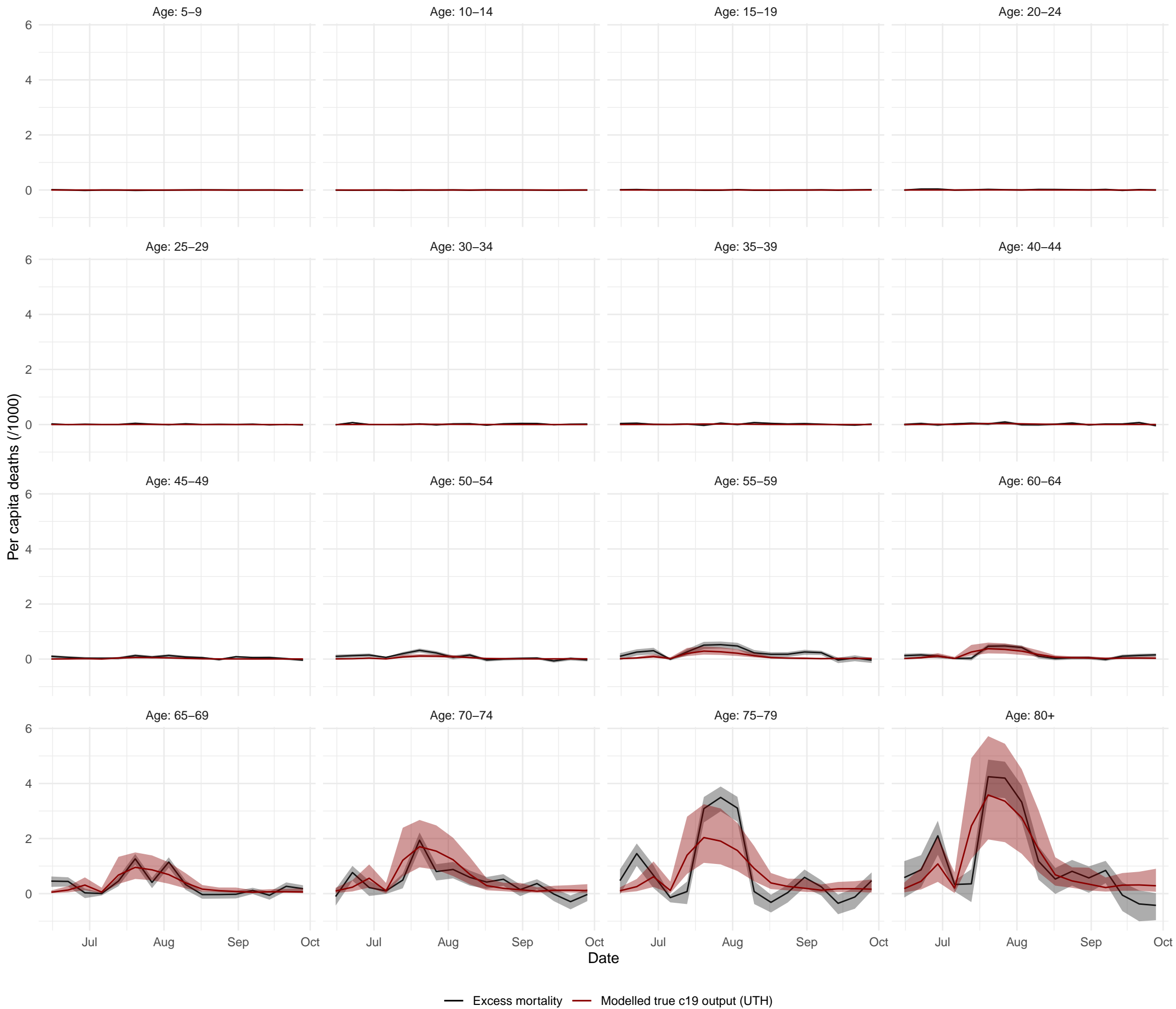
Age: 0-4
Age: 5-9
Age: 10-14
Age: 15-19
Age: 20-24
Age: 25-29
Age: 30-34
Age: 35-39
Age: 40-44
Age: 45-49
Age: 50-54
Age: 55-59
Age: 60-64
Age: 65-69
Age: 70-74
Age: 75-79
Age: 80+

Modelled combined prevalence, Lusaka/Zambia

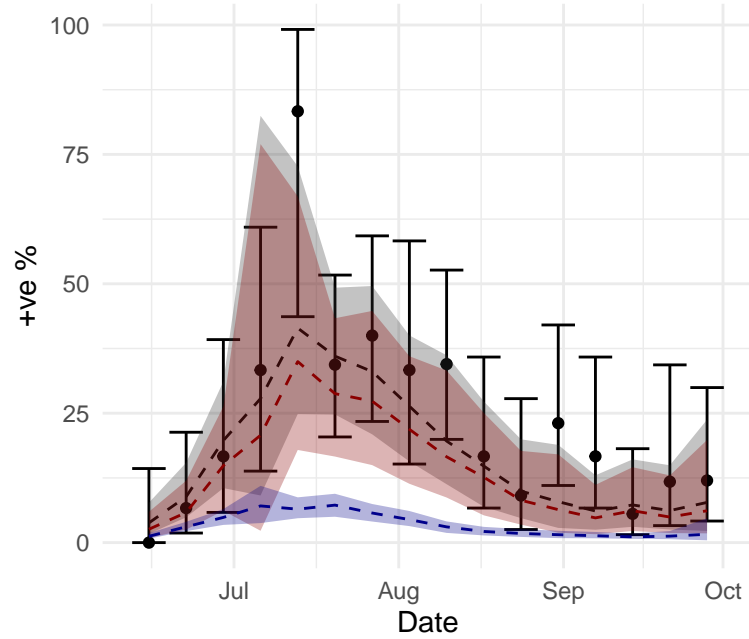




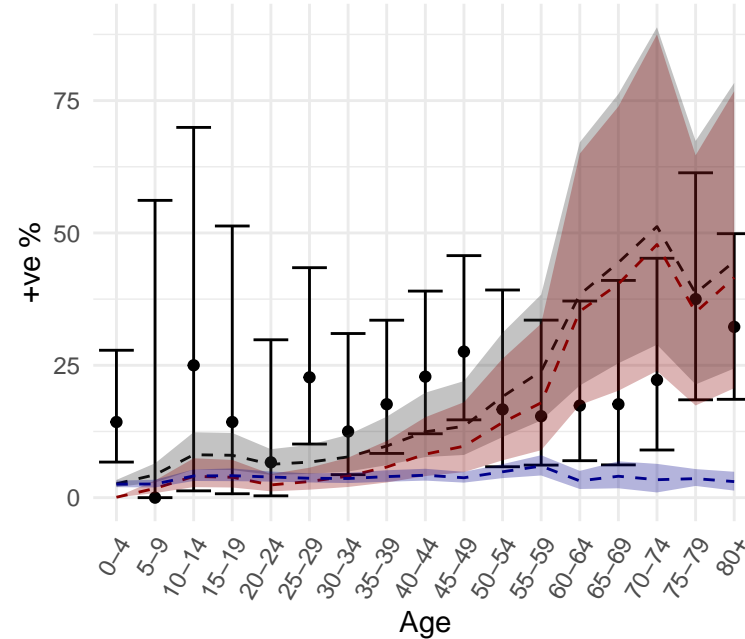
IFR x 0.8, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with sqire results



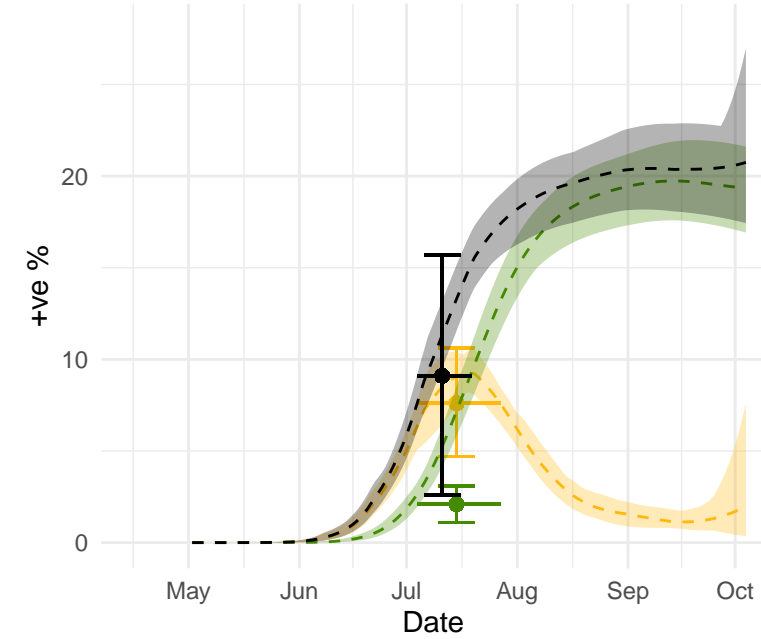
IFR x 1, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

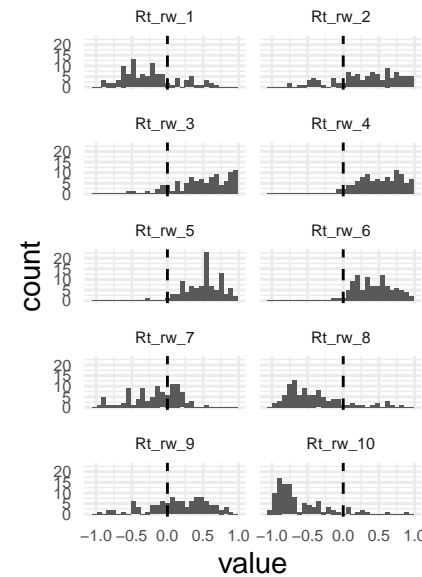
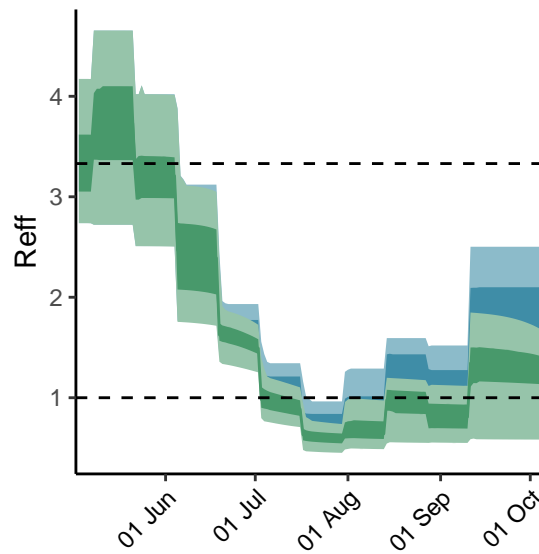


COVID-19 prevalence
Lusaka/Zambia

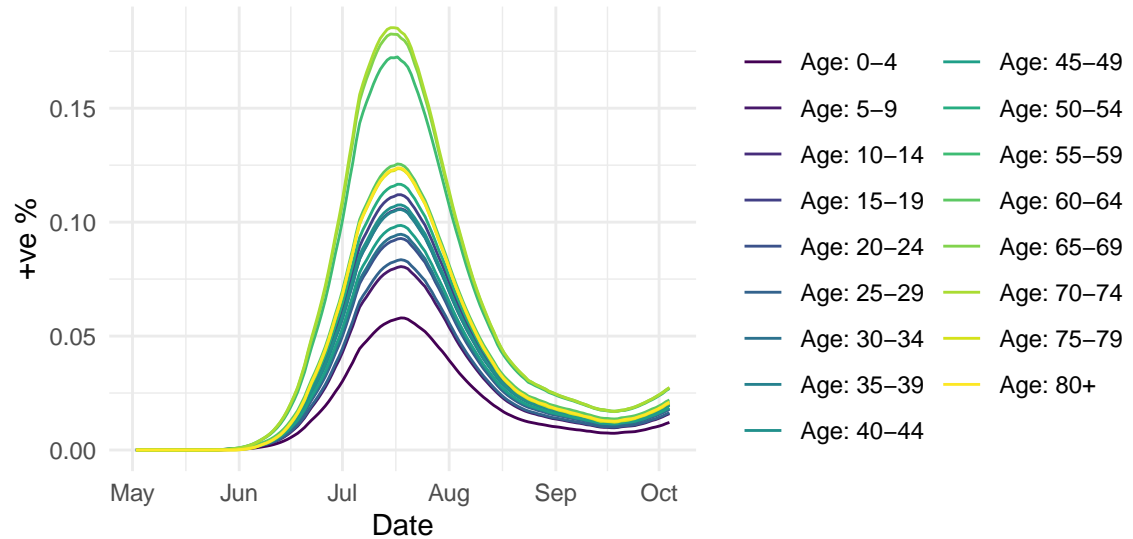


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

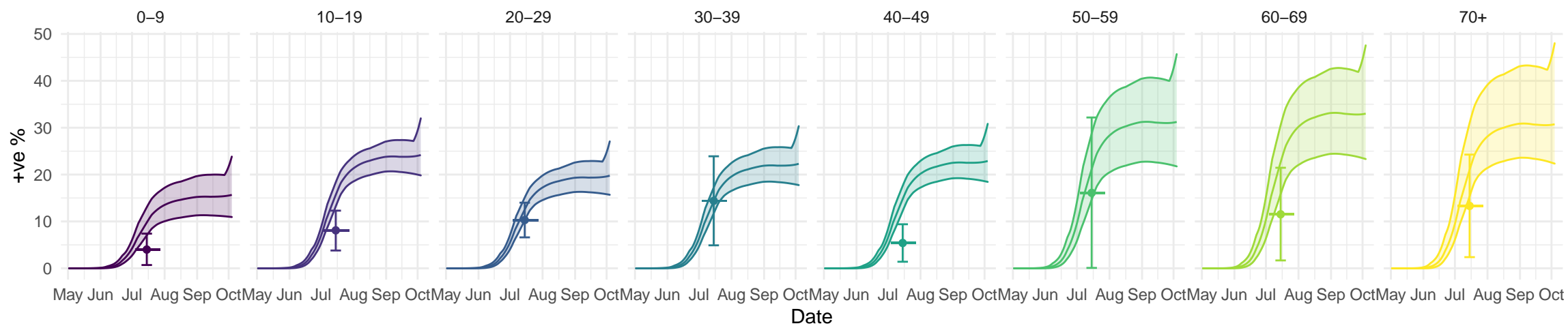
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

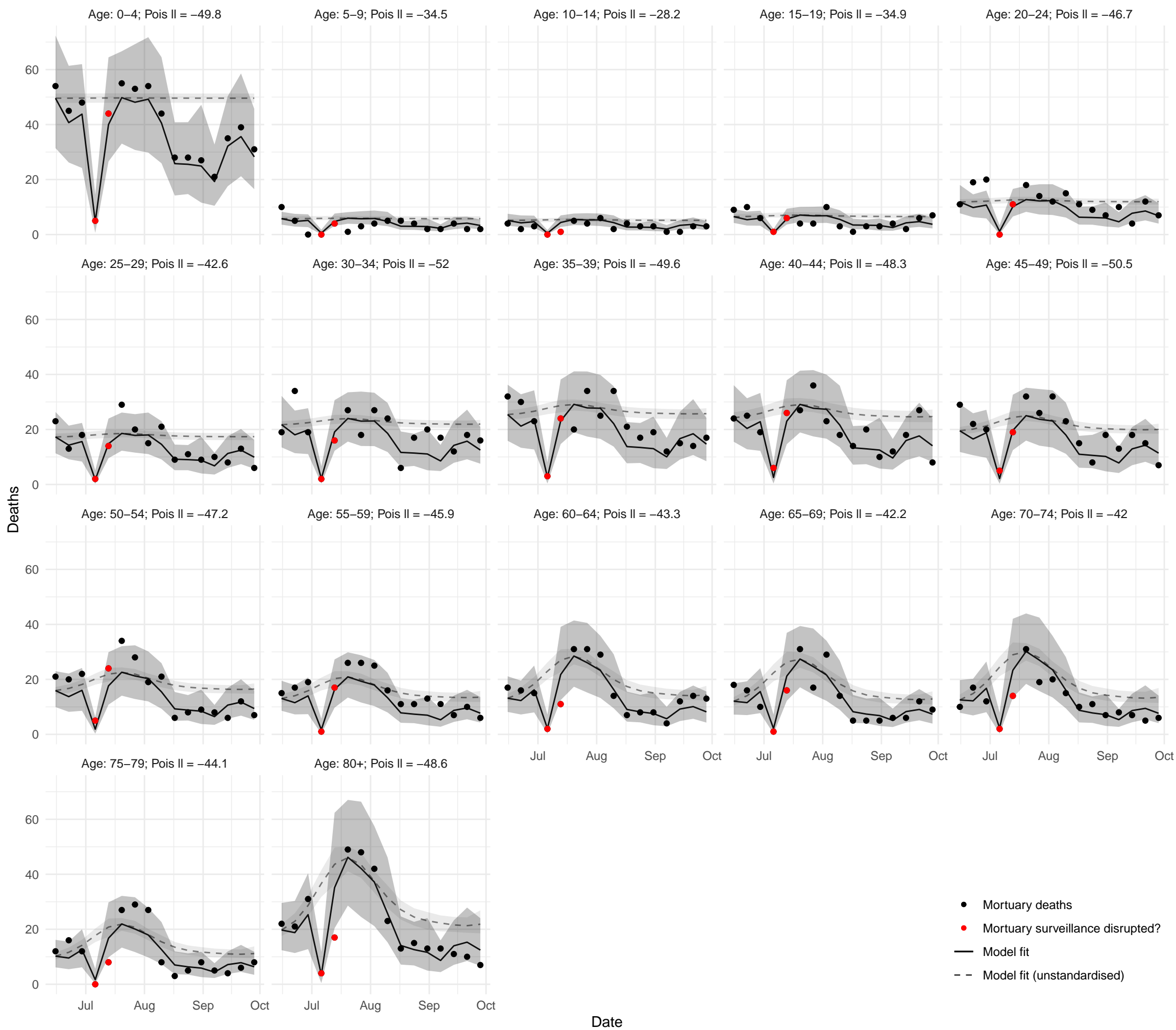


Modelled PCR %

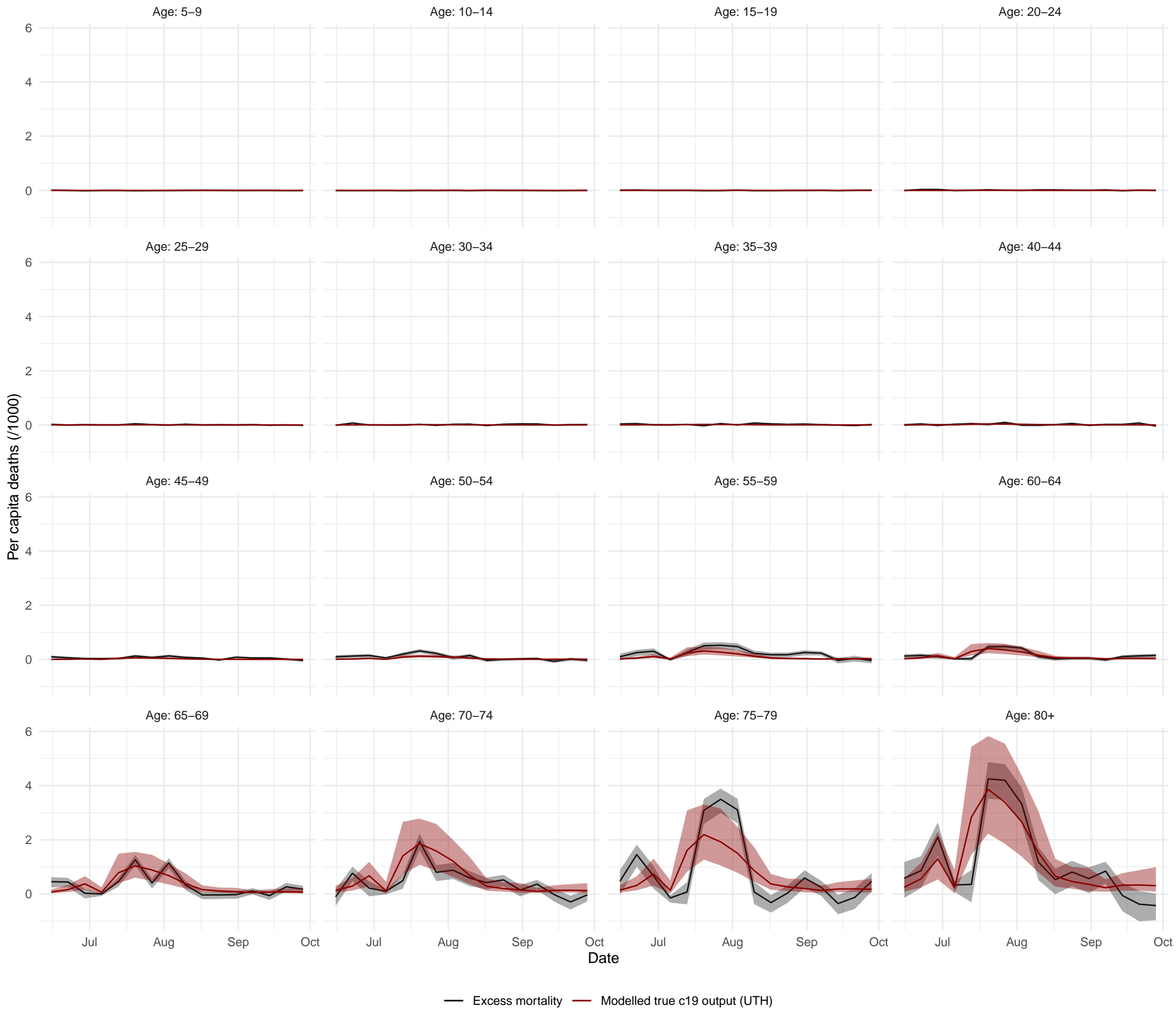


Modelled combined prevalence, Lusaka/Zambia

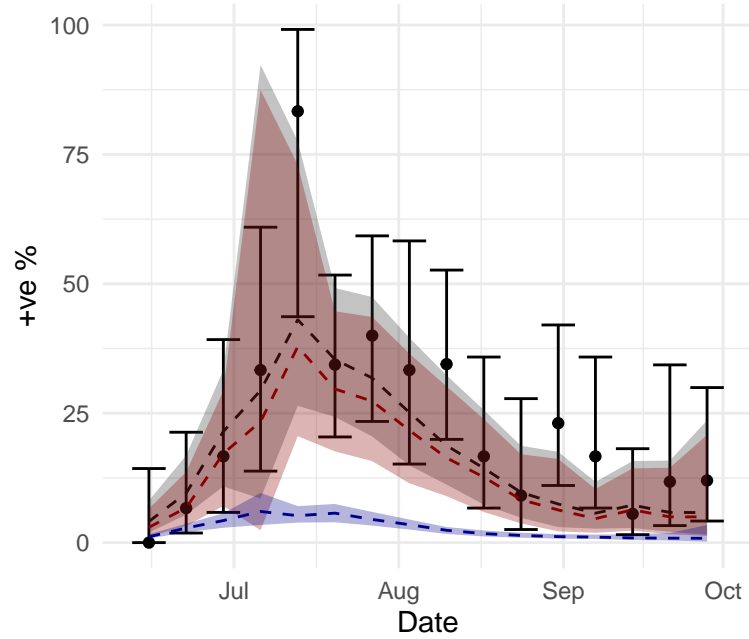




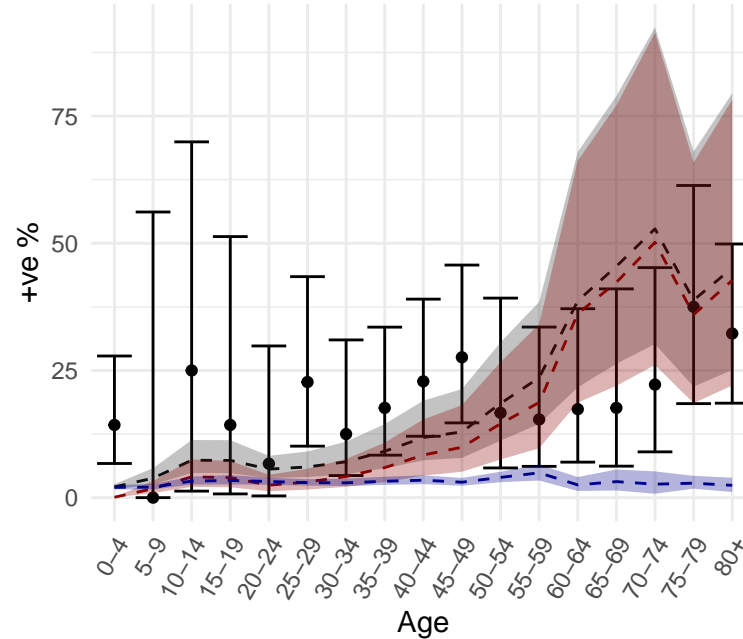
IFR x 1, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with sqire results



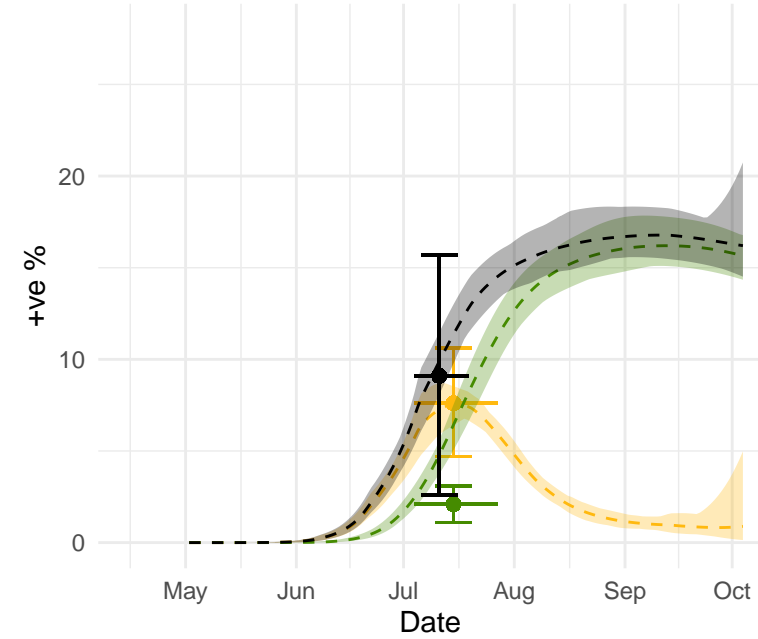
IFR x 1.25, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

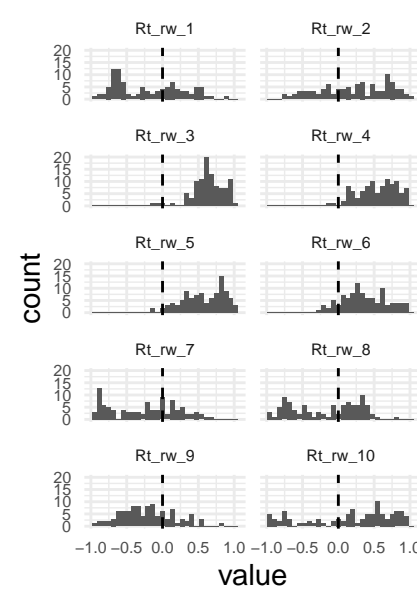
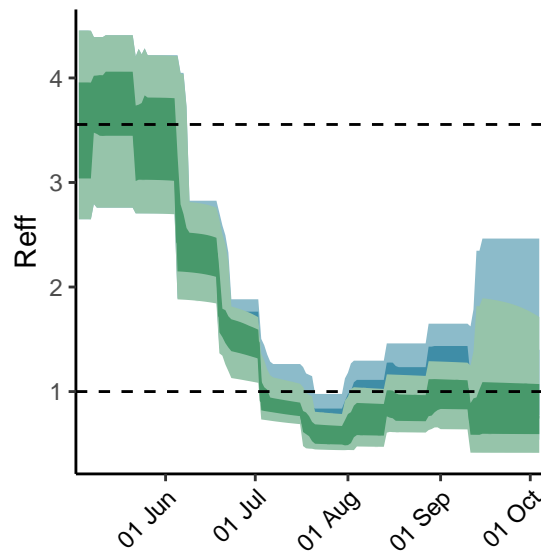


COVID-19 prevalence
Lusaka/Zambia

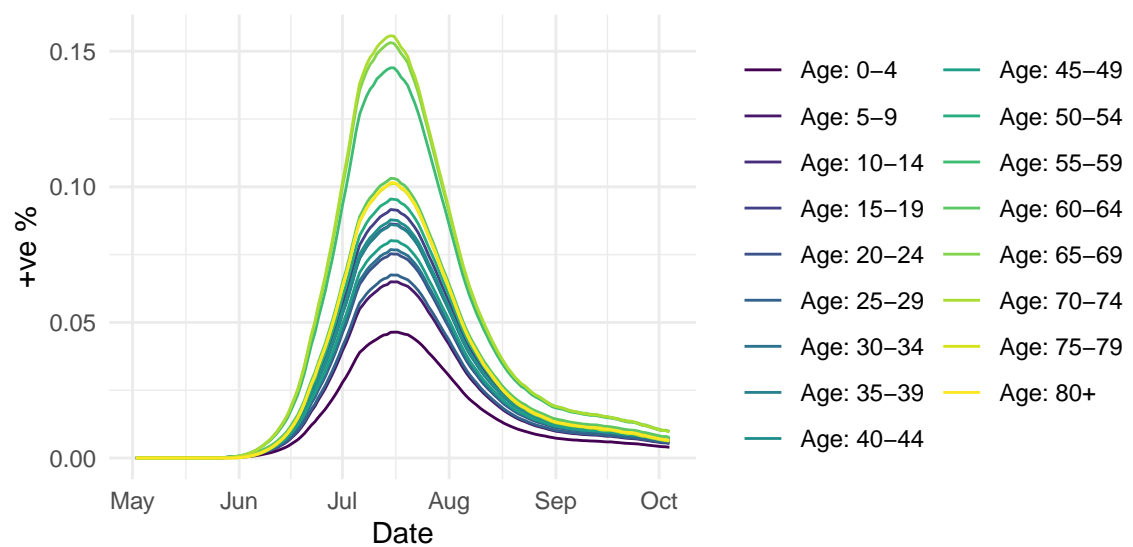


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

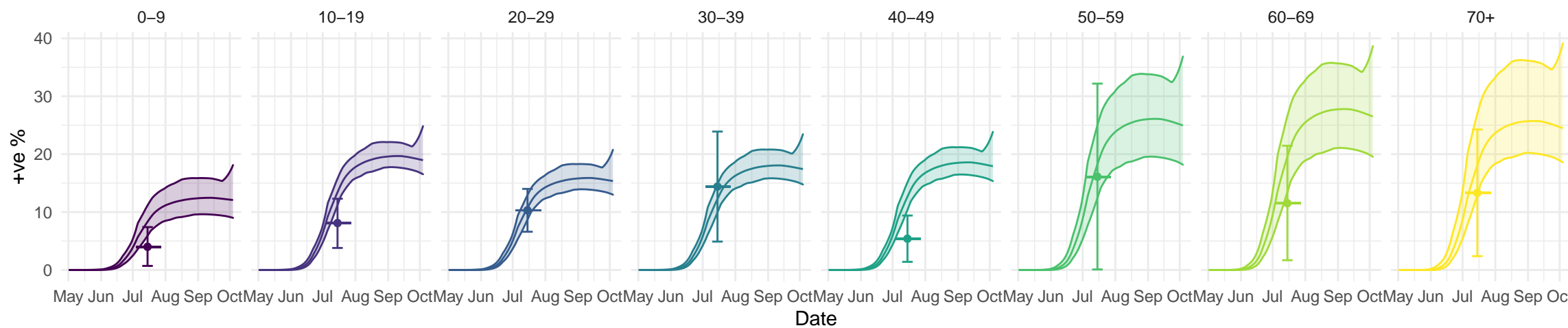
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)

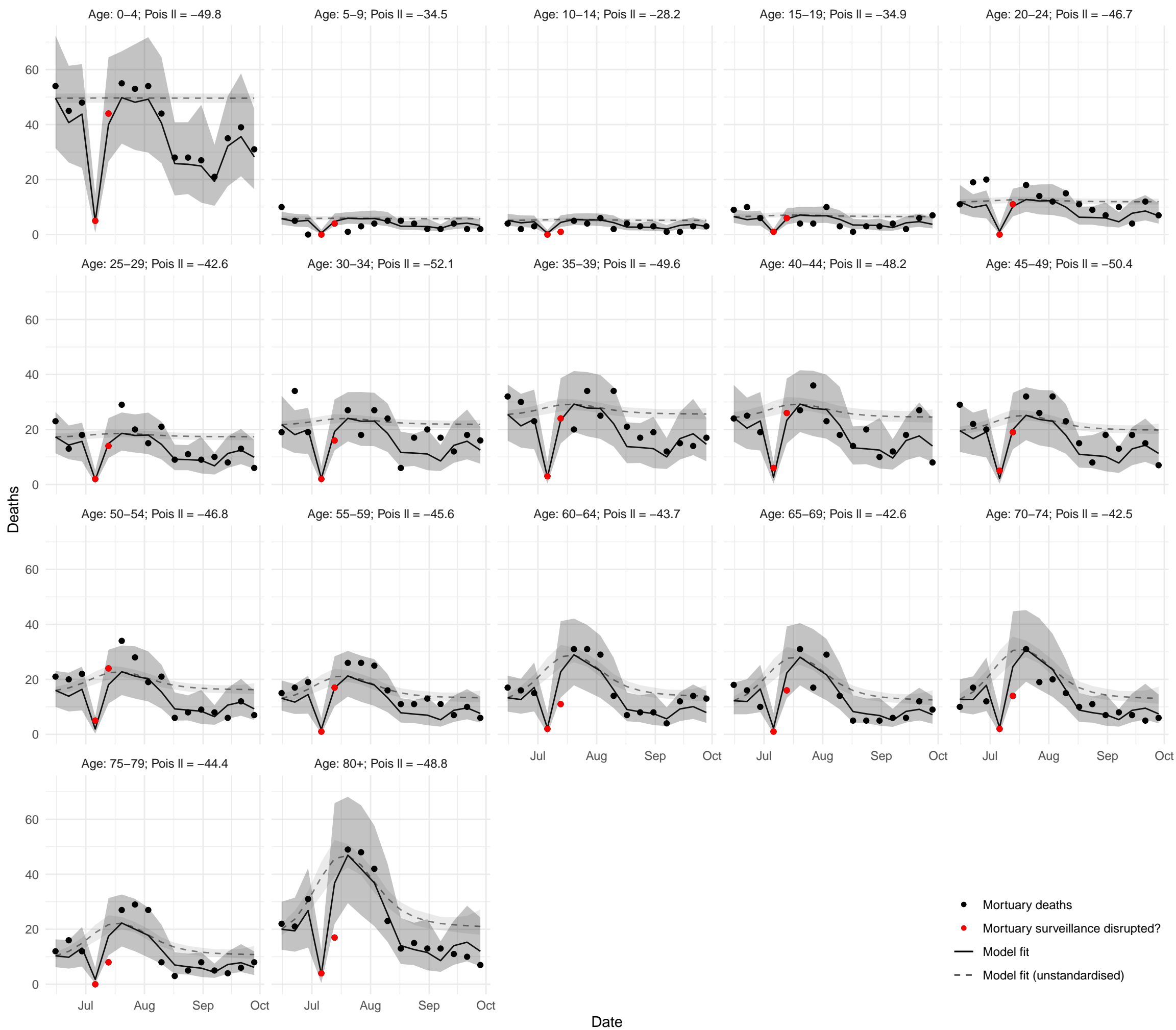


Modelled PCR %

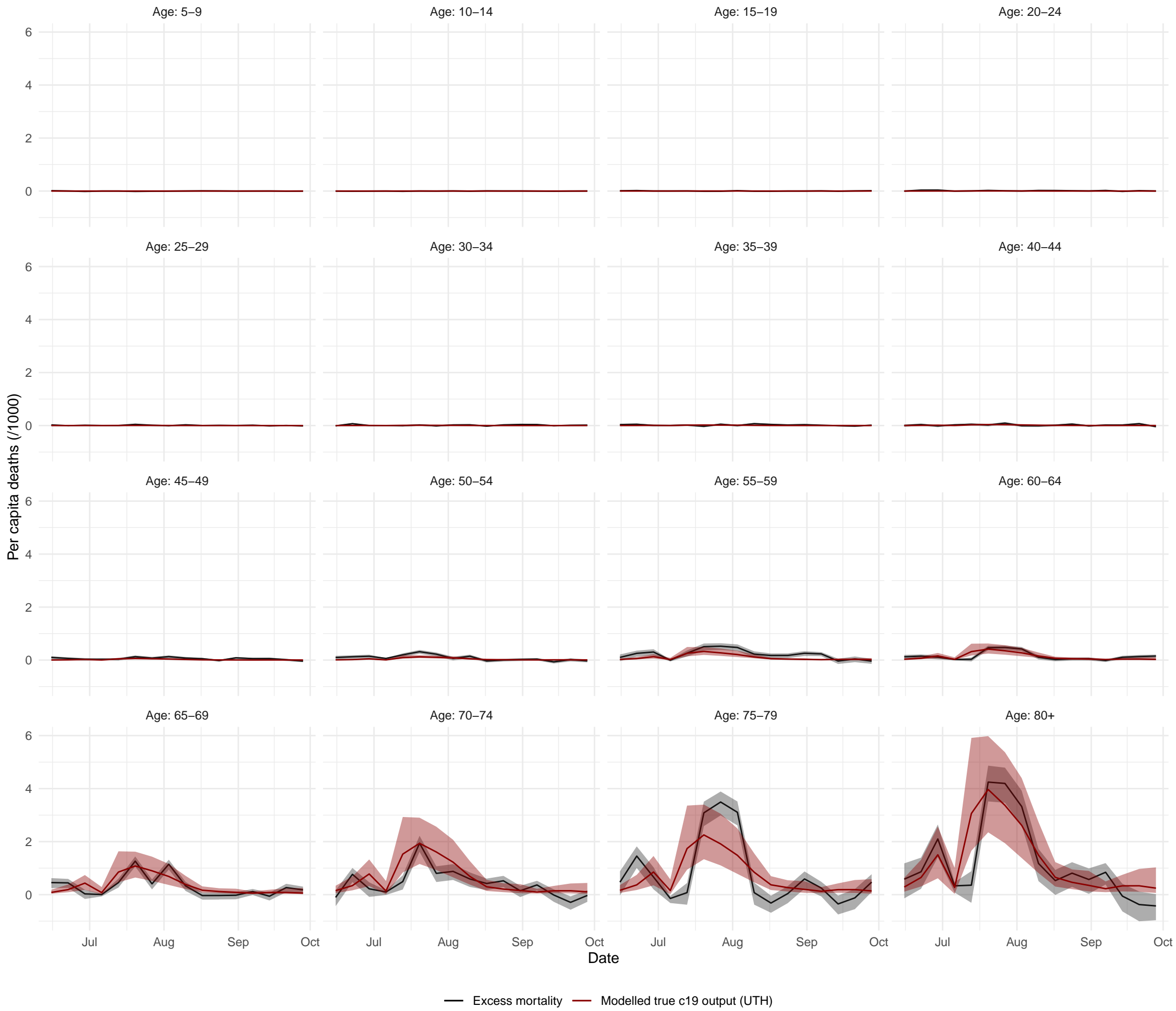


Modelled combined prevalence, Lusaka/Zambia

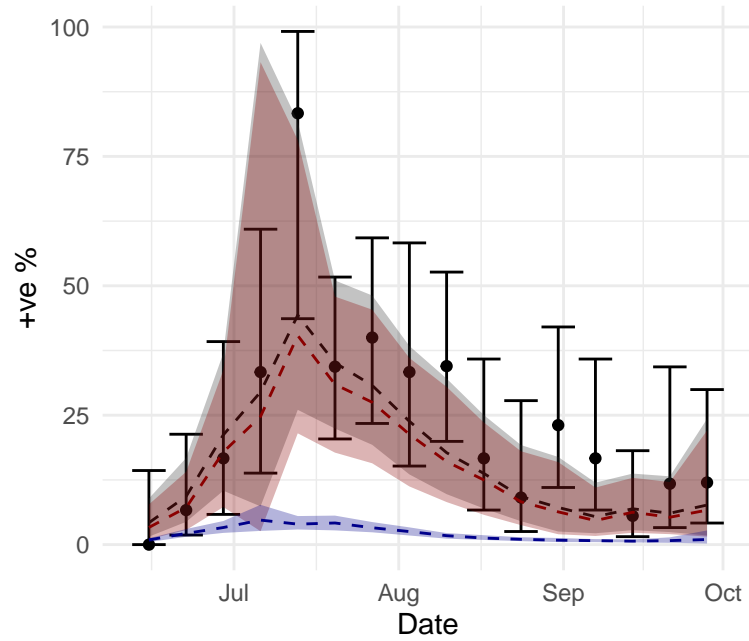




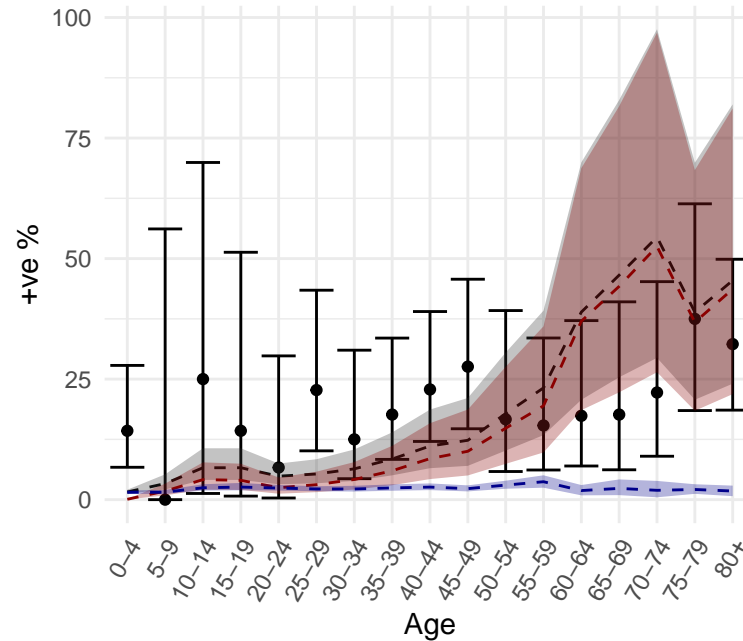
IFR x 1.25, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with sqire results



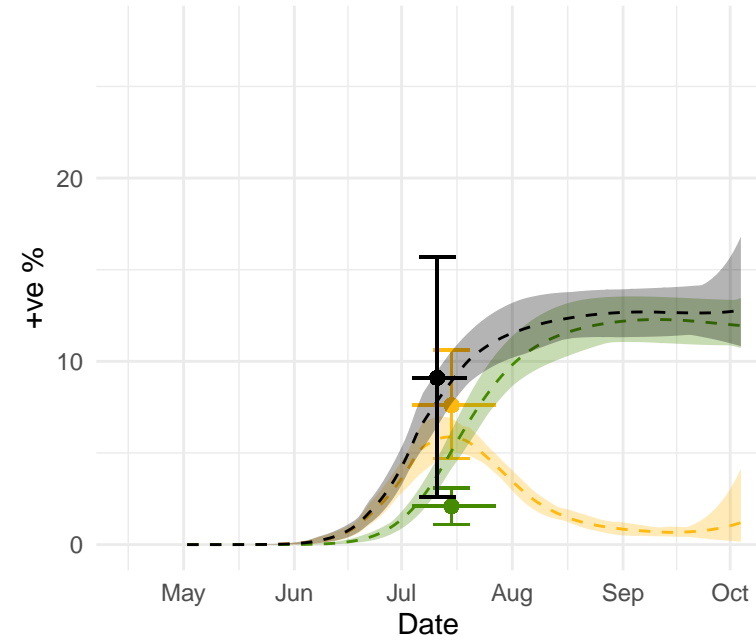
IFR x 1.67, Slope x 1.25
COVID-19 weekly prevalence
UTH mortuary



COVID-19 prevalence by age
UTH mortuary

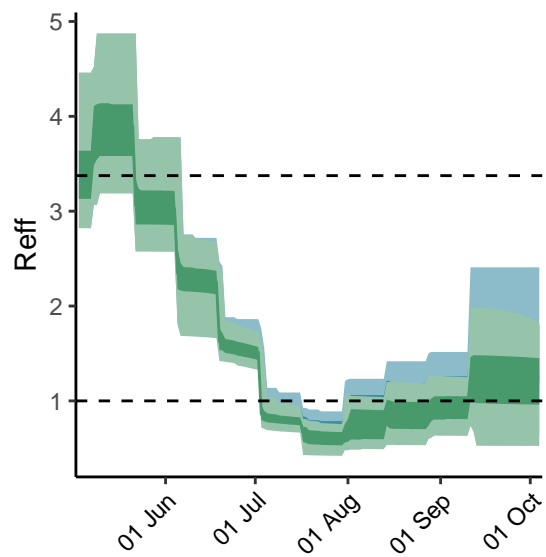


COVID-19 prevalence
Lusaka/Zambia

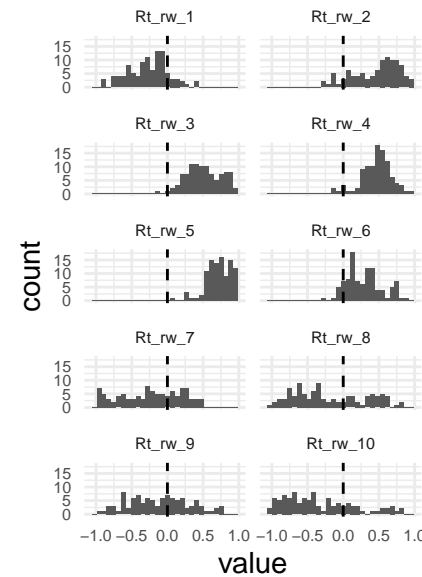


-- Total +ve deaths
-- Causal deaths
-- Coincidental deaths

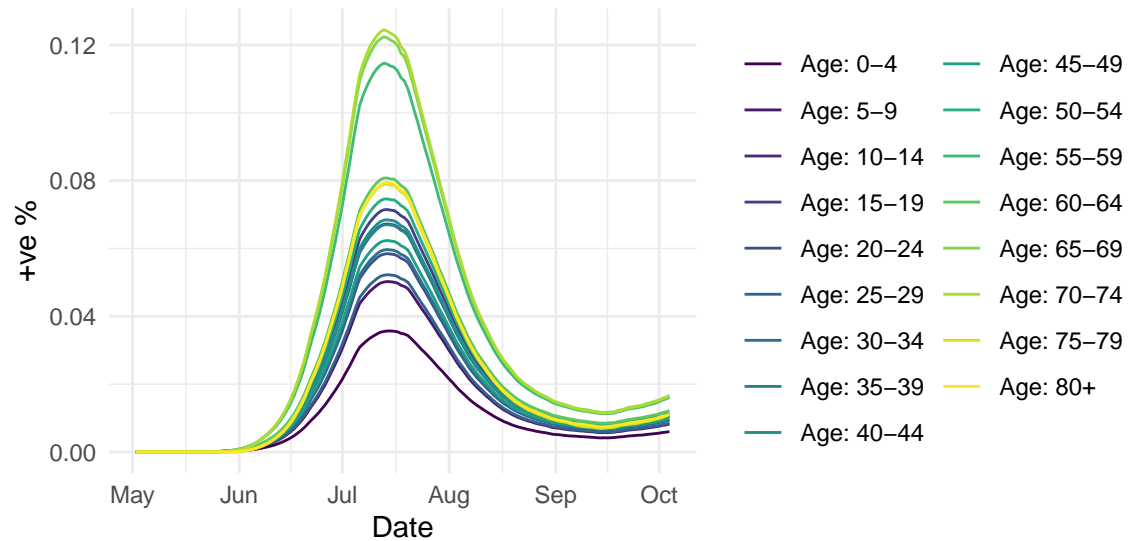
● Combined % (Lusaka)
● PCR % (Zambia)
● Sero % (Zambia)



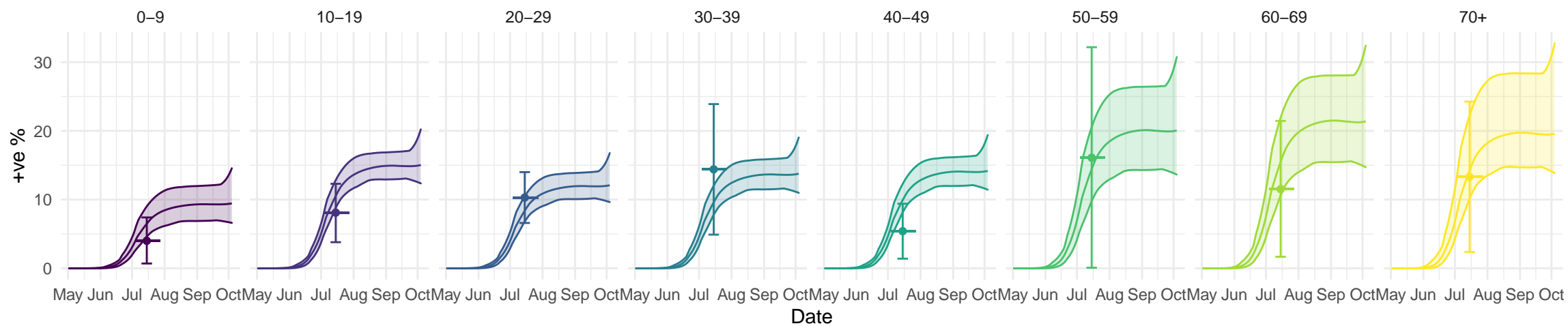
Reff
Rt

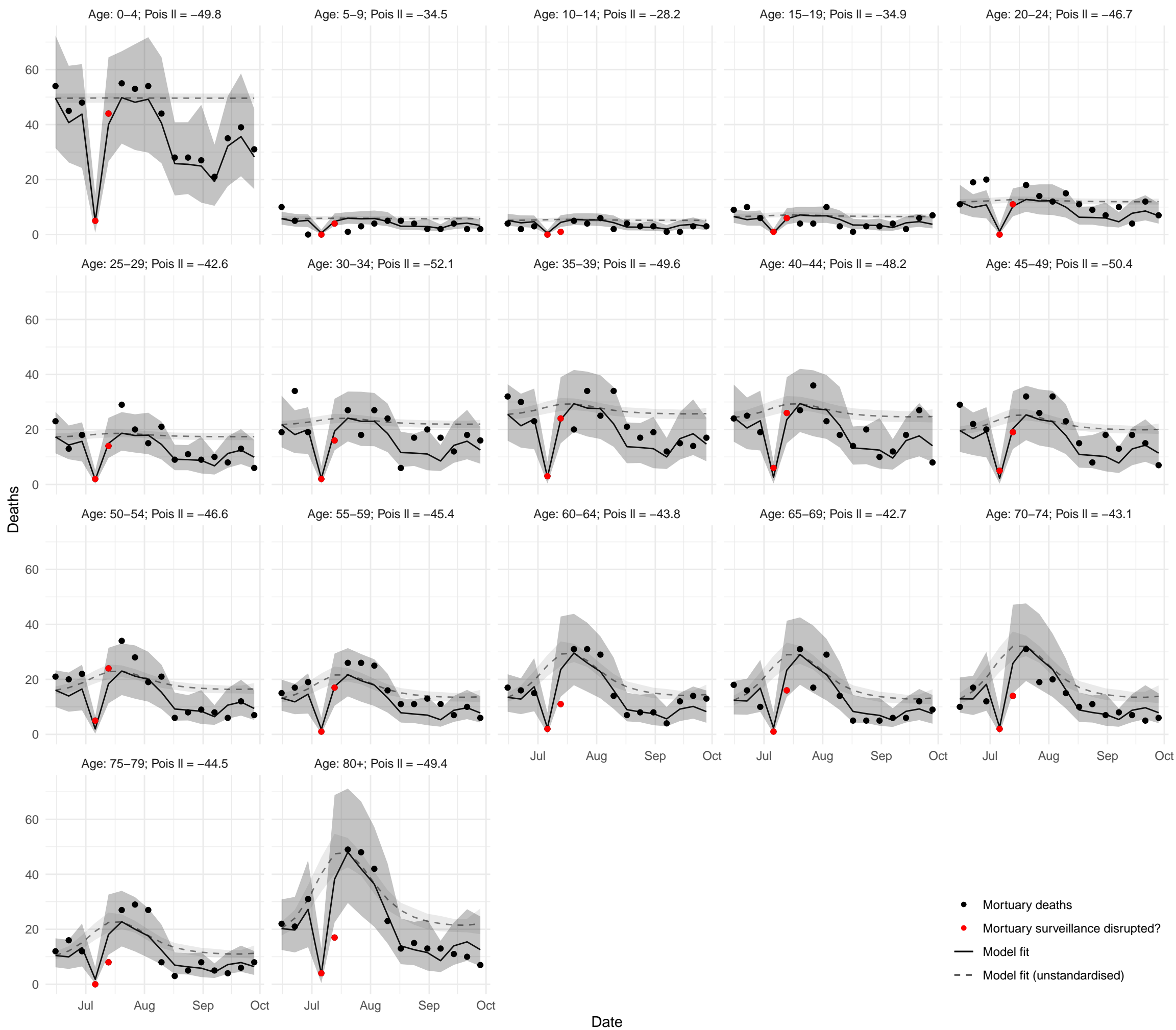


Modelled PCR %



Modelled combined prevalence, Lusaka/Zambia





IFR x 1.67, Slope x 1.25
COVID-19 excess mortality: Comparison of MCMC results with squire results

