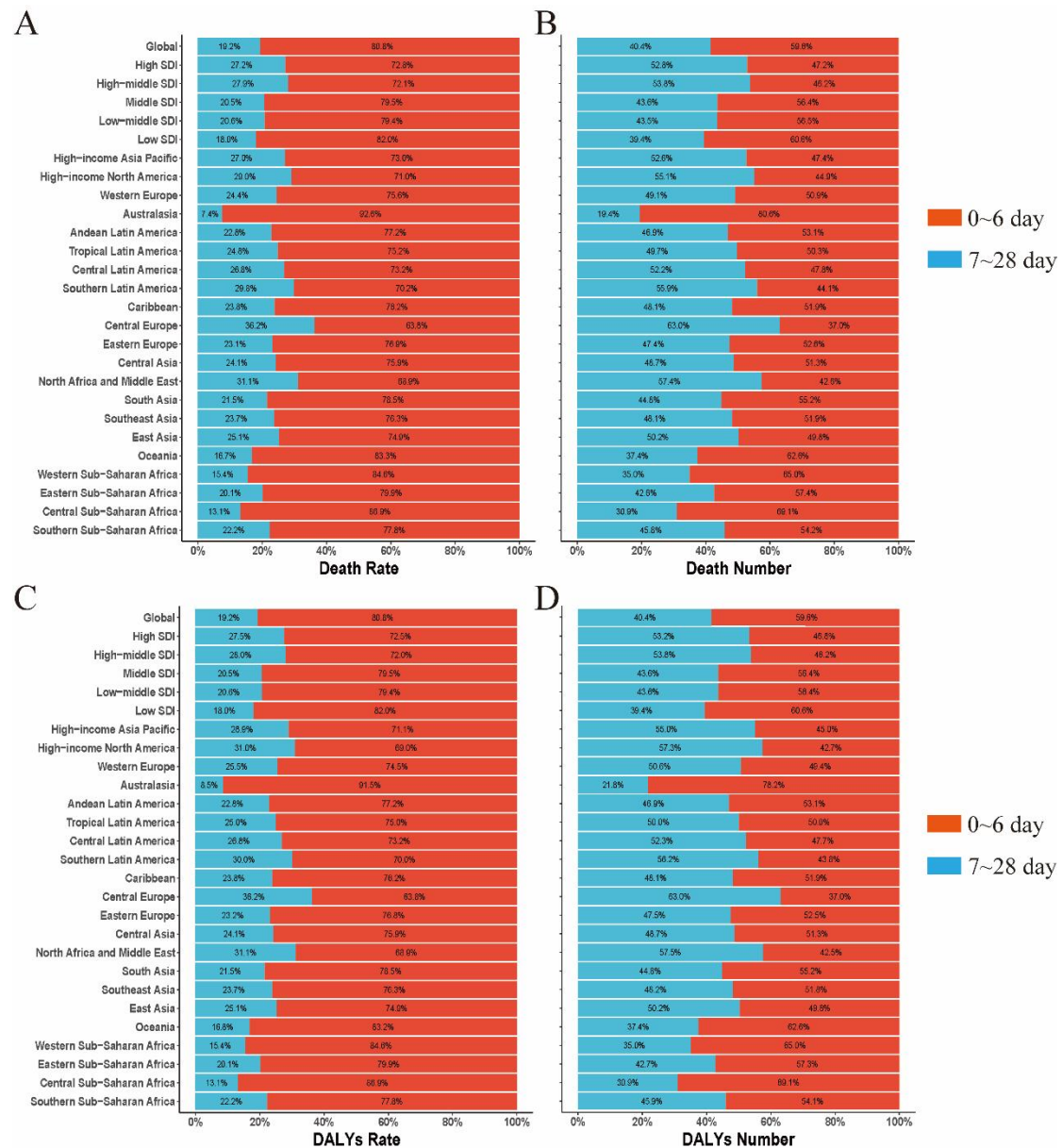


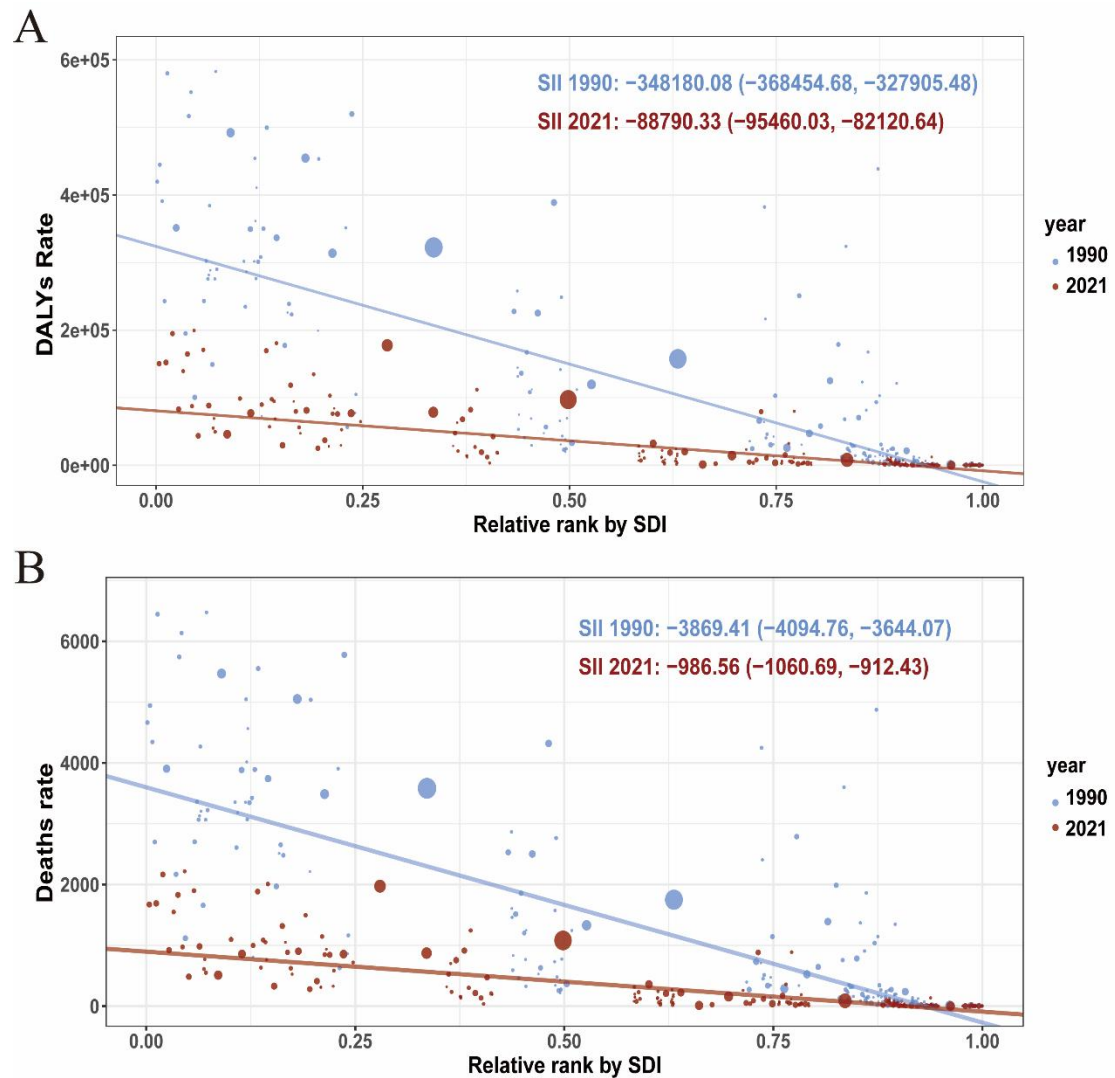
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Supplementary Figure 1: Age-stratified analysis of neonatal respiratory infections attributable to air pollution, 2021.	2
Supplementary Figure 2: Health inequality analysis of neonatal respiratory infections attributable to air pollution across Socio-demographic Index (SDI) levels.	3
Supplementary Figure 3: Health inequality analysis of neonatal respiratory infections attributable to air pollution across Socio-demographic Index (SDI) levels..	4
Supplementary Figure 4: Frontier analysis of the death rate and DALY rate of neonatal respiratory infections attributable to air pollution across countries..	5
Supplementary Figure 5: Disease-specific analysis of deaths, DALYs, death rates, and DALY rates for neonatal respiratory infections attributable to air pollution..	6

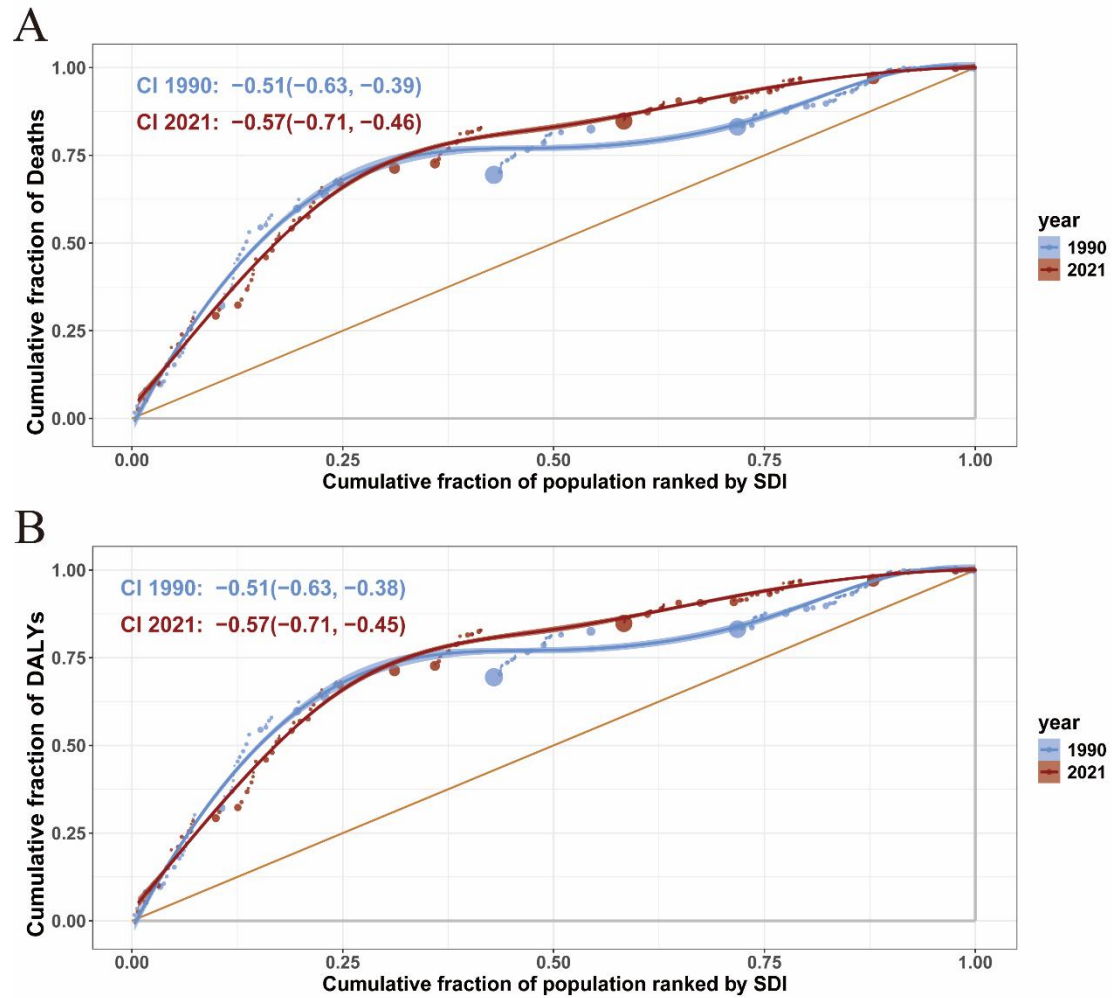
Supplementary Figure 1: Age-stratified analysis of neonatal respiratory infections attributable to air pollution, 2021. (A) The proportion of death rate by age group; (B) The proportion of death number by age group; (C) The proportion of DALYs rate by age group; (D) The proportion of DALYs number by age group.



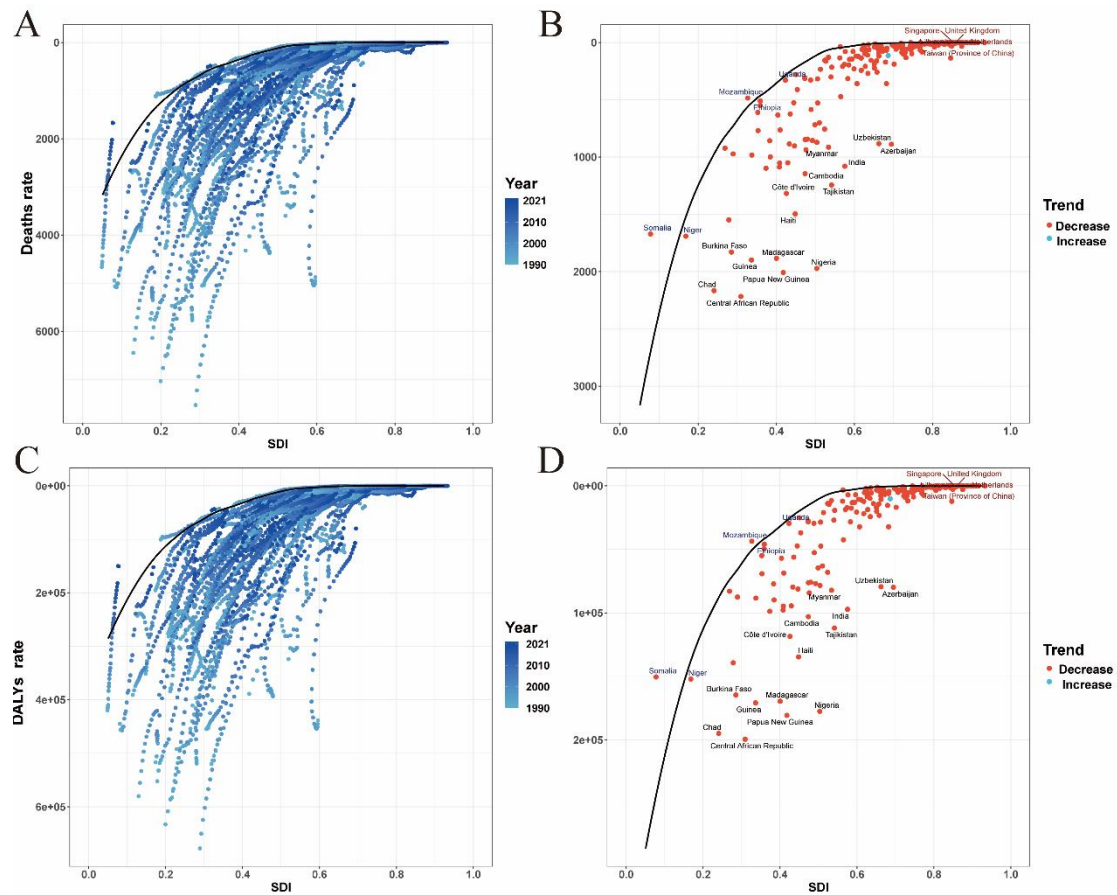
Supplementary Figure 2: Health inequality analysis of neonatal respiratory infections attributable to air pollution across Socio-demographic Index (SDI) levels. (A) The relationship between DALY rate and relative rank by SDI in 1990 and 2021, as assessed by the Slope Index of Inequality (SII). (B) The relationship between deaths rate and relative rank by SDI in 1990 and 2021, as assessed by the Slope Index of Inequality (SII).



Supplementary Figure 3: Health inequality analysis of neonatal respiratory infections attributable to air pollution across Socio-demographic Index (SDI) levels. (A) The relationship between deaths and relative rank by SDI in 1990 and 2021, as assessed by the Concentration Index (CIndex). (B) The relationship between DALYs and relative rank by SDI in 1990 and 2021, as assessed by the Concentration Index (CIndex).



Supplementary Figure 4: Frontier analysis of the death rate and DALY rate of neonatal respiratory infections attributable to air pollution across countries. (A) Temporal evolution of the deaths rate by Socio-demographic Index (SDI) across countries from 1990 to 2021. (B) Frontier pattern of the death rate by SDI in 2021, identifying countries above and below the expected frontier curve. (C) Temporal evolution of the DALYs rate by SDI across countries from 1990 to 2021. (D) Frontier pattern of the DALY rate by SDI in 2021, highlighting deviations from the fitted frontier.



Supplementary Figure 5: Disease-specific analysis of deaths, DALYs, death rates, and DALY rates for neonatal respiratory infections attributable to air pollution. (A) Death rate for lower respiratory infections, upper respiratory infections, and otitis media across 21 GBD regions. (B) Death number for lower respiratory infections, upper respiratory infections, and otitis media across 21 GBD regions. (C) DALYs rate for lower respiratory infections, upper respiratory infections, and otitis media across 21 GBD regions. (D) DALYs number for lower respiratory infections, upper respiratory infections, and otitis media across 21 GBD regions.

