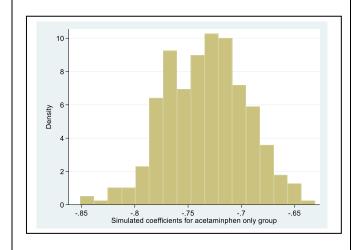
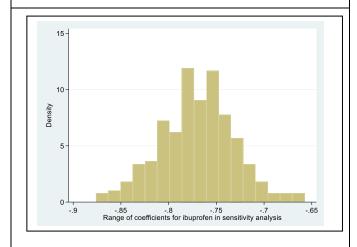
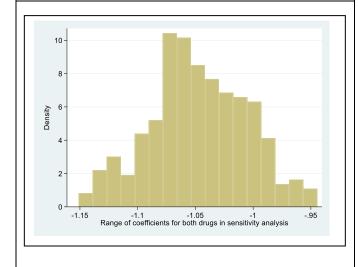
## S1 Appendix



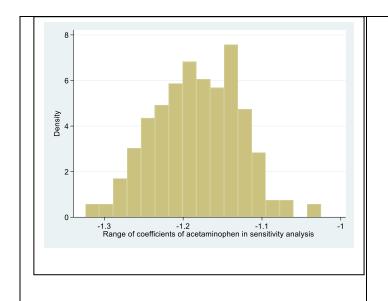




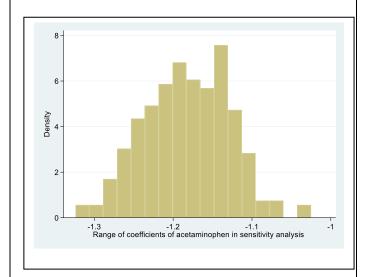
These graphs show the range of possible coefficients for each drug group in 300 simulations. This is for the 1 year follow up

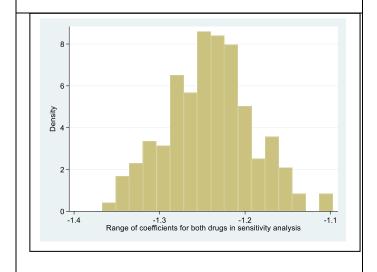
In the sensitivity analysis we assumed that some children who were not prescribed ibuprofen or acetaminophen at their inception visit nonetheless were administered it at home. We randomly assigned a new treatment group i.e. none/acetaminophen/ibuprofen or both drugs to children who were prescribed neither drug at their inception visit.

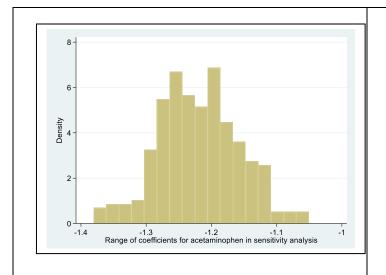
The sensitivity analysis coefficients continue to show a benefit if effect favoring antipyretics although the effect is much more modest. We now report the median of these alongside the original estimates in the main manuscript.



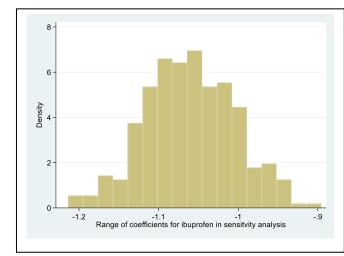
These graphs show the range of possible coefficients for each drug group in 300 simulations. This is for the 30-day follow up







These graphs show the range of possible coefficients for each drug group in 300 simulations. This is for the 14day follow up



8 - 6 - 1.5 -1.4 -1.3 -1.2 -1.1 Range of coefficients for both drugs in sensitivty analysis

## Alternative models

## Effect of not adjusting for subsequent antipyretic use in selected models

Doctor visits for subsequent wheezing at 14-day follow up

```
Adjusted for subsequent antipyretics | | Not adjusted for subsequent antipyretics

Drug group alRR 95%lb 95%ub | | alRR 95%lb 95%ub

APAP only 1 - - - | | 1 - - -

Ibuprofen +/- APAP 1.021 0.789 1.323 0.872 | | 1.042 0.800 1.358

Ibuprofen only 0.966 0.723 1.291 0.817 | | 0.974 0.729 1.302

Ibuprofen + APAP 1.282 0.790 2.080 0.315 | | 1.377 0.779 2.435
```

Adjusted for subseque	nt antipyretics	Not adjusted for subsequent antipyretics		
Drug group	aIRR 95%lb	95%ub	aIRR	
APAP only	1 -	-	1	
Ibuprofen +/- APAP	1.283 1.039	1.583	0.949 0.779 1.156	
Ibuprofen only	1.209 0.958	1.152	0.916	
Ibuprofen + APAP	1.662 1.081	2.554	1.110 0.741 1.662	

Doctor visits for subsequent (episodes of) wheezing at 365-day follow up

Adjusted for subsequent antipyretics				Not adjusted for subsequent antipyretics			
	aIRR 9	95% lb	95% ub	aIRR	95% lb 95% ub		
APAP only	1	-	-	1	-	-	
Ibuprofen +/- APAP	0.883	0.774	1.019	0.828	0.718	0.951	
Ibuprofen only	0.853	0.733	0.992	0.864	0.761	0.982	
Ibuprofen + APAP	1.005	0.781	1.414	0.999	0.913	1.095	

All other adjustment as per models in manuscript.