

Supplementary materials 3 : sensitivity analyses in subgroups: LRTI-confirmed subjects, patients randomized before March 2020, patients following the algorithm recommendations in the Intervention arm, ambulatory patients only and hospitalized patients only

Table 3: Number of days of antibiotic exposure prescribed during the 28 days of follow-up – Sensitivity analysis on LRTI-diagnosed subjects

	All subjects (n=336)	Standard of Care (n=162)	Intervention (n=174)	P value
Patients N	317	153	164	0.9537 (‡)
Missing	19	9	10	
Mean (SD)	6.3 (6.8)	6.3 (6.8)	6.3 (6.7)	
(Min ; Max)	(0.0 ; 28.0)	(0.0 ; 28.0)	(0.0 ; 28.0)	
Median (Q1 ; Q3)	6.0 (0.0 ; 9.0)	7.0 (0.0 ; 9.0)	6.0 (0.0 ; 10.0)	

(‡): Mann-Whitney U test was used

Table 4: Number of days of antibiotic exposure prescribed during the 28 days of follow-up – Sensitivity analysis on subjects randomized before March 2020

	All subjects (n=125)	Standard of Care (n=62)	Intervention (n=63)	P value
N	113	55	58	0.9929 (‡)
Missing	12	7	5	
Mean (SD)	5.6 (5.7)	5.5 (5.3)	5.7 (6.1)	
(Min ; Max)	(0.0 ; 28.0)	(0.0 ; 23.0)	(0.0 ; 28.0)	
Median (Q1 ; Q3)	7.0 (0.0 ; 9.0)	7.0 (0.0 ; 9.0)	7.0 (0.0 ; 9.0)	

(‡): Mann-Whitney U test was used

Table 5: Number of days of antibiotic exposure prescribed during the 28 days of follow-up – Subgroup analyses on patients following the recommendations in FilmArray-guided group

	All subjects (n=418)	Standard of Care (n=217)	Intervention (n=201)	P value
N	404	210	194	0.3153 (‡)
Missing	14	7	7	
Mean (SD)	5.86 (6.80)	6.17 (6.95)	5.53 (6.64)	
(Min ; Max)	(0.00 ; 28.00)	(0.00 ; 28.00)	(0.00 ; 28.00)	
Median (Q1 ; Q3)	5.00 (0.00 ; 9.00)	6.00 (0.00 ; 9.00)	4.50 (0.00 ; 9.00)	

(‡): Mann-Whitney U test was used

Table 6: Number of days of antibiotic exposure prescribed during the 28 days of follow-up – Subgroup analyses

on patients admitted to hospital

	All subjects (n=261)	Standard of Care (n=129)	Intervention (n=132)	P value
N	253	124	129	0.7601 (‡)
Missing	8	5	3	
Mean (SD)	7.43 (6.88)	7.50 (6.68)	7.37 (7.09)	
(Min ; Max)	(0.00 ; 28.00)	(0.00 ; 28.00)	(0.00 ; 28.00)	
Median (Q1 ; Q3)	7.00 (0.00 ; 10.00)	7.00 (1.00 ; 10.00)	7.00 (0.00 ; 11.00)	

(‡): Mann-Whitney U test was used

Table 7: Number of days of antibiotic exposure prescribed during the 28 days of follow-up – Subgroup analyses

on ambulatory patients

	All subjects (n=176)	Standard of Care (n=88)	Intervention (n=88)	P value
N	169	86	83	0.6530 (‡)
Missing	7	2	5	
Mean (SD)	3.89 (6.21)	4.26 (6.93)	3.52 (5.38)	
(Min ; Max)	(0.00 ; 28.00)	(0.00 ; 28.00)	(0.00 ; 22.00)	
Median (Q1 ; Q3)	0.00 (0.00 ; 7.00)	0.00 (0.00 ; 7.00)	0.00 (0.00 ; 7.00)	

(‡): Mann-Whitney U test was used