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Sensitivity P(T+ D+)	81% (161/199)
Specificity P(T- D-)	97% (98/101)
Positive Predictive Value P(D+ T+)	98% (161/164)
Negative Predictive Value P(D- T-)	72% (98/136)

¹CSF quantitative culture > 0 colony forming units used as gold standard for baseline and follow-up (days 2-28) specimens.

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- Of the 27 Biofire ME false negatives at baseline in comparison to CSF CrAg as the reference standard:
- 1 (3.7%) had a contaminated / invalid CSF quantitative culture.
- 14 (51.9%) had sterile CSF cultures, CSF CrAg-positive only
- 6 (22.2%) had 1-100 CFU/mL
- 6 (22.2%) had >100 CFU/mL
- 458 All persons who were CSF CrAg positive were also positive for CrAg in blood, thus two false positive
- 459 CrAg tests in blood and in CSF are unlikely in this HIV-infected cohort with median CD4 = 15 cells/ μ L,
- presenting with meningitis.

461 **Supplemental Table 2.** Pediatric Cohort Data.

	N=42
Demographics	
Median age, months	46 (1.0, 216)
Female sex	17 (40.5%)
Male sex	25 (59.5%)
Clinical Characteristics	
Mean Blantyre Coma Scale (1 - 5)	3.36
HIV-infected	6 (14.2%)
Malaria-positive (RDT or smear)	8 (19%)
Prior diagnosis of cerebral malaria	1 (2%)
Prior or current diagnosis of TB	5 (11%)
Taking antibiotics	15 (35.7%)
CSF Analysis Results	
CSF protein >40 mg/dL and >5 white cells/ μL	2/42
Negative Xpert MTB/RIF Ultra result 5/	
Positive Xpert MTB/RIF Ultra result	0/10
CSF protein >40 mg/dL and >5 white cells/ μL	5/42
Positive BioFire ME result	3/42

Data are N (%) or medians with [P25, [75].

Abbreviations: RDT, rapid diagnostic test; CSF, cerebrospinal fluid; WBC, white blood cell count.

Supplemental Table 3. Selected Pediatric Laboratory Data.

FilmArray ME result	Malaria status	HIV status	Xpert MTB/RIF Ultra result	Taking antibiotics	Elevated CSF protein and WBC
C. neoformans		+		Yes	
S. pneumoniae					
S. pneumoniae					
-	+			Yes	
-	+				
-	+			Yes	
-	+			Yes	
-	+				
-	+				
-	+				
-	+		-	Yes	
-			-		
-			-	Yes	
-			-		
-			-	Yes	
-		+			
_		+			
-		+			
-		+			
-		+			
-					+
_					+