Event Lower Upper rate limit Imit Z-Value p-Value
Aqel B et al. (2004) 0.091 0.013 0.439 -2.195 0.028
Chatur N et al. (2005) 0.667 0.154 0.957 0.566 0.571
Larsen FS et al. (2007) 0.111 0.015 0.500 -1.961 0.050
Tannous M et al. (2011) 0.154 0.039 0.451 -2.218 0.027
Than N et al. (2015) 0.471 0.255 0.697 -0.242 0.808
Efe C et al. (2017) 0.125 0.069 0.217 -5.756 0.000
Pape S et al. (2019) 0.500 0.225 0.775 0.000 1.000
0.255 0.124 0.453 -2.377 0.017

Heterogeneity: Q=18.04, df=6 (P=0.006); I2=66.73%

Test for overall effect: Z=-2.38 (P=0.02)

**FIG. S1.** The pooled event rate of adverse events in the tacrolimus group..

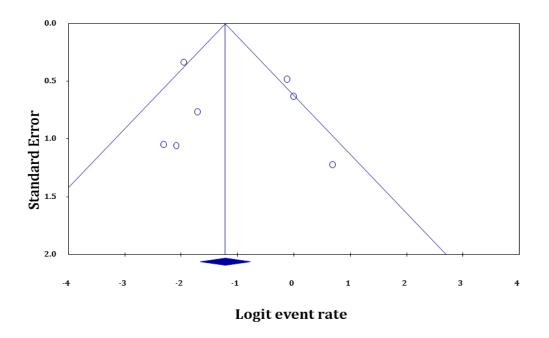
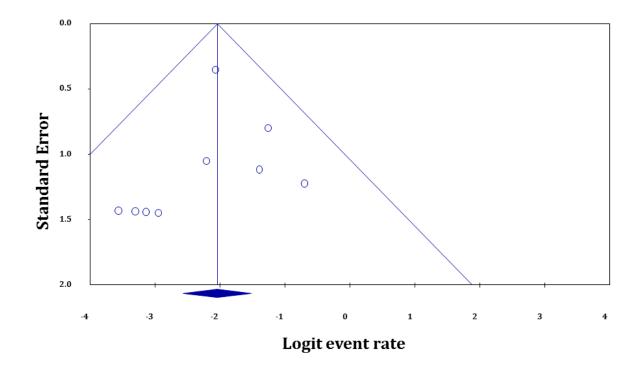


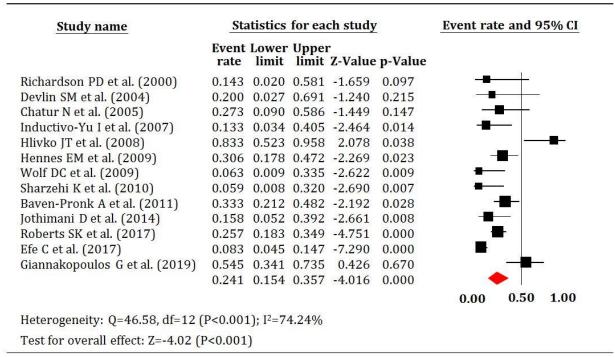
FIG. S2. The publication bias of studies for adverse events in the tacrolimus group.

Study name	Statistics for each study	Event rate and 95% CI
	Event Lower Upper rate limit limit Z-Value p-Value	
Zolfino T et al. (2002)	0.200 0.027 0.691 -1.240 0.215	:
Agel B et al. (2004)	0.042 0.003 0.425 -2.170 0.030	-
Chatur N et al. (2005)	0.333 0.043 0.846 -0.566 0.571	
Larsen FS et al. (2007)	0.050 0.003 0.475 -2.029 0.042	-
Yeoman AD et al. (2011)	0.222 0.056 0.579 -1.562 0.118	<del></del>
Tannous M et al. (2011)	0.036 0.002 0.384 -2.289 0.022	<del></del>
Than N et al. (2015)	0.028 0.002 0.322 -2.479 0.013	
Efe C et al. (2017)	0.113 0.060 0.202 -5.837 0.000	
Pape S et al. (2019)	0.100 0.014 0.467 -2.084 0.037	-
	0.115 0.071 0.181 -7.586 0.000	•
		0.00 0.50 1.00
Heterogeneity: Q=5.38, a	df=8 (P=0.71); I <sup>2</sup> =0.00%	
Test for overall effect: Z=	=-7.59 (P<0.0001)	

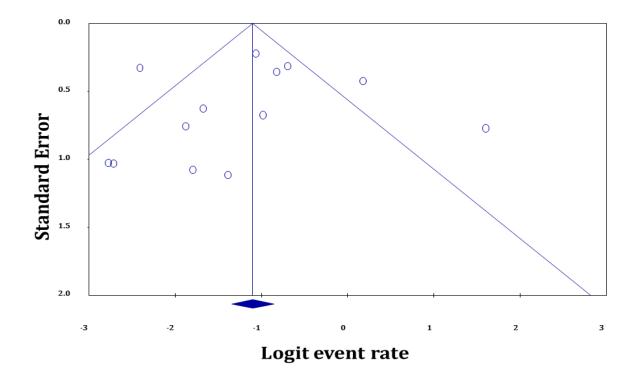
**FIG. S3.** The pooled event rate of mortality in the tacrolimus group.



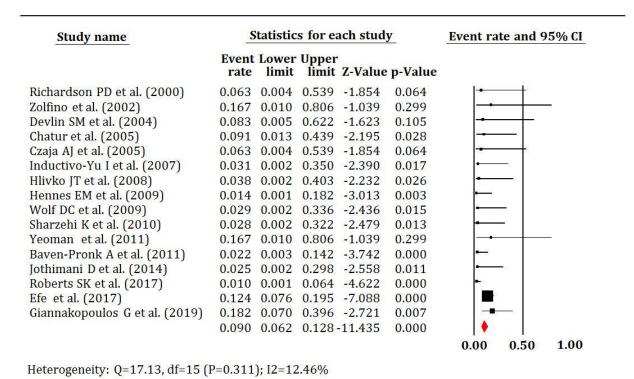
**FIG. S4.** The publication bias of studies for mortality in the tacrolimus group.



**FIG. S5.** The pooled event rate of adverse events in the MMF group.

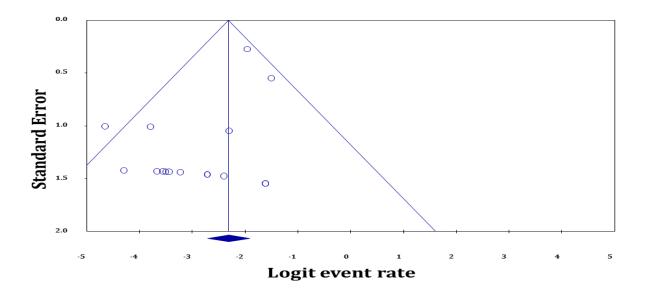


**FIG. S6.** The publication bias of studies for adverse events in the MMF group.



Test for overall effect: Z=-11.43 (P<0.0001)

**FIG. S7.** The pooled event rate of mortality in the MMF group.



**FIG. S8.** The publication bias of studies for mortality in the MMF group.