Supplementary Table 1. Variables related with the screening protocol

Variable	
Distribution of swabs per patient,	
median (IQR).	5.00 (3.00-7.00)
Distribution of time (days)-from-	
hospitalization to first swabbing,	
median (IQR).	2.00 (1.00-6.00)
Distribution of number of negative	
swabs before a positive swab in the	
patients who become colonized on	
follow-up, median (IQR).	2.00 (1.00-2.00)

Supplementary Table 2. Distribution of infection types in the two colonization groups.

Type of KPC-Kp	Colonized at start of	Colonized during
infection	follow-up	follow-up
	(n=47)	(n=31)
Bacteraemia	18 (38,3)	13 (42,0)
Pneumonia	11 (23,4)	8 (25,8)
Urinary tract infection	10 (21,2)	2 (6,4)
Abdominal	3 (6,4)	5 (16,1)
Others	5 (10,6)	3 (9,7)

Data presented as number of patients (percentage). Chi-squared test p=0.34

Supplementary Figure S1. CART analysis dichotomizing the variable time to colonization and risk of KPC-Kp infection.

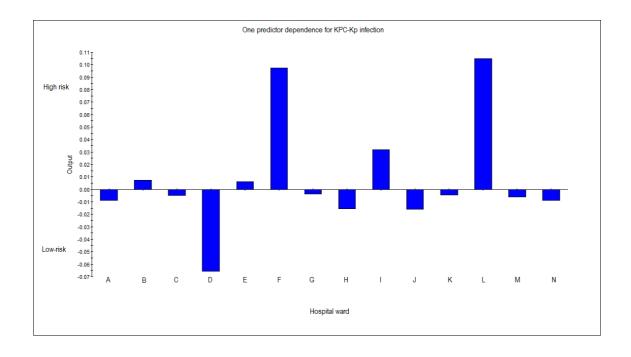


The CART analysis categorizes the continuous variable time to colonization (in days) into a two-category variable: patients who were colonized at day 0 (colonized at start of follow-up) and patients colonized during follow-up (time from the first negative swab to the first rectal swab positive for KPC-Kp > 0 days).

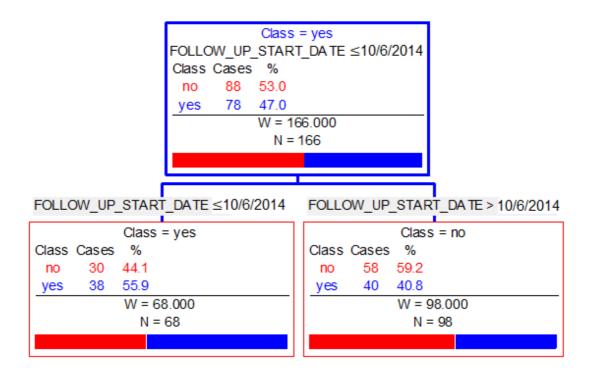
No = No KPC-Kp infection

Yes = KPC-Kp infection

Supplementary Figure S2. KPC-Kp infection risk classification by hospital ward using TreeNet (high vs. low risk).



Supplementary Figure S3. CART analysis to categorize risk of KPC-Kp infection in different patient follow-up periods.



No = No KPC-Kp infection

Yes = KPC-Kp infection