

Supplementary Table S1. Logistic regression analysis of variables associated with post-UTI renal scarring

Step	Variable	Variables in the Equation					95% C.I. for EXP(B)		
		B	S.E.	Wald	df	Sig.	Exp(B)	Lower	Upper
1 ^a	AGE	0.008	0.015	0.292	1	0.589	1.008	0.979	1.038
	Vit. D Level	-0.135	0.045	9.117	1	0.003	0.873	0.800	0.954
	CRP	0.036	0.030	1.404	1	0.236	1.037	0.977	1.100
	Constant	2.539	1.630	2.424	1	0.119	12.663		

a. Variable(s) entered on step 1: AGE, Vit. D Level, CRP.

Supplementary Table S2. Analysis of different serum levels of vitamin D as a predictor of DMSA scan abnormalities in children with pyelonephritis

Vit. D Level <	TP	FP	TN	FN	Sensitivity (TP prop.)	Specificity (TN prop.)	FP prop.	FN prop.	LR (+)	LR (-)	PPV (+)	NPV (-)	Odds ratio	Youden's index
7	0	0	24	26	0.000	1.000	0.000	1.000	-	1.00	-	0.50	+∞	0.000
10	1	0	24	25	0.038	1.000	0.000	0.962	+∞	0.96	1.00	0.51	+∞	0.038
12	2	0	24	24	0.077	1.000	0.000	0.923	+∞	0.92	1.00	0.52	+∞	0.077
14	3	0	24	23	0.115	1.000	0.000	0.885	+∞	0.88	1.00	0.53	+∞	0.115
17	6	0	24	20	0.231	1.000	0.000	0.769	+∞	0.77	1.00	0.57	+∞	0.231
18	9	0	24	17	0.346	1.000	0.000	0.654	+∞	0.65	1.00	0.60	+∞	0.346
20	13	0	24	13	0.500	1.000	0.000	0.500	+∞	0.50	1.00	0.67	+∞	0.500
22	16	1	23	10	0.615	0.958	0.042	0.385	14.77	0.40	0.94	0.71	36.800	0.574
23	17	1	23	9	0.654	0.958	0.042	0.346	15.69	0.36	0.94	0.73	43.444	0.612
24	17	2	22	9	0.654	0.917	0.083	0.346	7.85	0.38	0.89	0.73	20.778	0.571
25	18	3	21	8	0.692	0.875	0.125	0.308	5.54	0.35	0.85	0.74	15.750	0.567
26	21	4	20	5	0.808	0.833	0.167	0.192	4.85	0.23	0.83	0.81	21.000	0.641
28	22	5	19	4	0.846	0.792	0.208	0.154	4.06	0.19	0.80	0.84	20.900	0.638
30	23	5	19	3	0.885	0.792	0.208	0.115	4.25	0.15	0.81	0.87	29.133	0.676
31	23	7	17	3	0.885	0.708	0.292	0.115	3.03	0.16	0.75	0.86	18.619	0.593
33	23	8	16	3	0.885	0.667	0.333	0.115	2.65	0.17	0.73	0.85	15.333	0.551
34	23	12	12	3	0.885	0.500	0.500	0.115	1.77	0.23	0.64	0.81	7.667	0.385
35	24	14	10	2	0.923	0.417	0.583	0.077	1.58	0.18	0.61	0.84	8.571	0.340
37	24	15	9	2	0.923	0.375	0.625	0.077	1.48	0.21	0.60	0.83	7.200	0.298
39	25	16	8	1	0.962	0.333	0.667	0.038	1.44	0.12	0.59	0.90	12.500	0.295
41	26	16	8	0	1.000	0.333	0.667	0.000	1.50	0.00	0.60	1.00	+∞	0.333
45	26	17	7	0	1.000	0.292	0.708	0.000	1.41	0.00	0.59	1.00	+∞	0.292
48	26	18	6	0	1.000	0.250	0.750	0.000	1.33	0.00	0.57	1.00	+∞	0.250
52	26	19	5	0	1.000	0.208	0.792	0.000	1.26	0.00	0.56	1.00	+∞	0.208
53	26	20	4	0	1.000	0.167	0.833	0.000	1.20	0.00	0.55	1.00	+∞	0.167
55	26	21	3	0	1.000	0.125	0.875	0.000	1.14	0.00	0.53	1.00	+∞	0.125
60	26	23	1	0	1.000	0.042	0.958	0.000	1.04	0.00	0.51	1.00	+∞	0.042

Prior probability 0.5

Serum vitamin D in the following levels are missed in this study: 8, 9, 11, 13, 15-16, 19, 21, 27, 29, 32, 36, 38, 40, 42-44, 46-47, 49-51, 54, 56-59 ng/ml