

**Instructions:**

**Apply this calculator only to appendicitis patients with two ED encounters within 7 days, with the second resulting in an appendicitis diagnosis**

Note: This calculator should only be applied retrospectively to children who have already had two encounters and cannot be used to predict the likelihood of appendicitis during or after a single encounter.

**Information from the first encounter**

Complex chronic condition	No
Abdominal pain diagnosis	No
Constipation diagnosis	No
Dehydration diagnosis	No
Fever diagnosis	No
Gastroenteritis diagnosis	No
Genitourinary problem diagnosis	No
HEENT problem diagnosis	No
Urinary tract infection diagnosis	No
Viral syndrome diagnosis	No

**Information from the second encounter**

Days between encounters	3
Hospital days	0
Perforated appendicitis at diagnosis	No

**Predicted probability of delayed diagnosis****1.7%**

Predictor	Beta coefficient
Intercept	1.183116261
Perforated appy	1.73496391
CCC	-0.337679678
LOS 2-3	0.274417066
LOS 4-7	0.894800027
LOS > 7	0.402697272
Revisit 1d	0.051710402
Revisit 2d	-1.572028563
Revisit 3d	-1.992213603
Revisit 4d	-3.530247947
Revisit 5d	-4.380602173
Revisit 6d	-4.890563329
Revisit 7d	-3.406296157
Abdominal pain diagnosis	-0.015330246
Constipation diagnosis	0.150484262
Dehydration diagnosis	0.210586845
Fever diagnosis	-0.508220633
Gastroenteritis diagnosis	0.708369608
Genitourinary problem diagnosis	-1.173802692
HEENT problem diagnosis	-0.744005787
Urinary tract infection diagnosis	2.081011214
Viral syndrome diagnosis	-0.497649125
None of the above diagnoses	-3.246578991
<b>Patient's total be</b>	
<b>Beta to pred prol</b>	

**Patient's betas**

1.183116261

0

0

0

0

0

0

0

-1.992213603

0

0

0

0

0

0

0

0

0

0

0

0

0

-3.246578991

**-4.055676333****0.017028757**