

Postdischarge treatment of complicated pneumonia includes antibiotics administered intravenously via a peripherally inserted central venous catheter (PICC) or orally” Shah et al (2016).

Abstract:

BACKGROUND AND OBJECTIVES: Postdischarge treatment of complicated pneumonia includes antibiotics administered intravenously via a peripherally inserted central venous catheter (PICC) or orally. Antibiotics administered via PICC, although effective, may result in serious complications. We compared the effectiveness and treatment-related complications of postdischarge antibiotics delivered by these 2 routes.

ReTweet if useful... Intravenous versus oral antibiotics for outpatient treatment of pneumonia <http://ctt.ec/6KrPW+> @ivteam #ivteam

METHODS: This multicenter retrospective cohort study included children ≥ 2 months and **RESULTS:** Among 2123 children, 281 (13.2%) received antibiotics via PICC. Treatment failure rates were 3.2% among PICC and 2.6% among oral antibiotic recipients and were not significantly different between the groups in across-hospital-matched analysis (matched odds ratio , 1.26; 95% confidence interval , 0.54 to 2.94). PICC complications occurred in 7.1%. Adverse drug reactions occurred in 0.6% of children; PICC antibiotic recipients had greater odds of adverse drug reaction in across hospital matched analysis (matched OR, 19.1; 95% CI, 4.2 to 87.3). The high rate of PICC complications and differences in adverse drug reactions contributed to higher odds of the composite outcome of all related revisits among PICC antibiotic recipients (matched OR, 4.71; 95% CI, 2.97 to 7.46).

CONCLUSIONS: Treatment failure rates between PICC and oral antibiotics did not differ. Children with complicated pneumonia should preferentially receive oral antibiotics at discharge when effective oral options are available.

Reference:

Shah, S.S., Srivastava, R., Wu, S., Colvin, J.D., Williams, D.J., Rangel, S.J., Samady, W., Rao, S., Miller, C., Cross, C., Clohessy, C., Hall, M., Localio, R., Bryan, M., Wu, G. and Keren, R. (2016) Intravenous Versus Oral Antibiotics for Postdischarge Treatment of Complicated Pneumonia. Pediatrics. November 17th. .

DOI: 10.1542/peds.2016-1692

Thank you to our partners for supporting IVTEAM