



This study aimed to evaluate the efficiency of treatment of infectious endocarditis (IE) via Self-administered Outpatient Parenteral Antimicrobial Therapy (S-OPAT) supported by a shortening hospital admission program in a hospitalization-at-home unit (HAH), including a short review of the literature” Pajarón et al (2017).

Abstract:

OBJECTIVE: This study aimed to evaluate the efficiency of treatment of infectious endocarditis (IE) via Self-administered Outpatient Parenteral Antimicrobial Therapy (S-OPAT) supported by a shortening hospital admission program in a hospitalization-at-home unit (HAH), including a short review of the literature.

METHODS: Ambispective cohort study of 57 episodes of IE in 54 patients treated in an HAH unit between 1988 and 2014 who receive S-OPAT after prior intra-hospital clinical stabilization. Characteristics of each episode of IE, safety and efficiency of the care model, were analyzed.

RESULTS: Forty-three (76%) patients were males with a median age of 61 years (SD=16.5). A total of 37 (65%) episodes affected the native valve (42% the aortic valve). In 75%, a micro-organism was isolated, of which 88% were Gram-positive bacteria. No deaths occurred during

HAH program, clinical complications appeared in 30% of episodes, only 6 patients were re-admitted to hospital although no patient died. In the 12 months' follow-up 3 cases had a recurrence. The average cost of a day stay in HAH was €174 while in traditional cardiology hospitalization was €1100. The total average cost of treatment of each episode of IE managed entirely in hospital was calculated as €54,723. Application of the S-OPAT model based on HAH meant a cost reduction of 32.72%.

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CONCLUSIONS: In suitably selected patients, treatment of IE based on S-OPAT supported by a shortening hospital admission care program by means of referral to a HAH unit is a safe and efficient care model which entails a significant cost saving for the public healthcare system.

Reference:

Pajarón, M., Lisa, M., Fernández-Miera, M.F., Dueñas, J.C., Allende, I., Arnaiz, A.M., Sanroma-Mendizábal, P., de Berrazueta, J.R. and Fariñas, M.C. (2017) Efficiency of a self-administered outpatient parenteral antimicrobial therapy (s-opat) for infective endocarditis within the context of a shortened hospital admission based on hospital at home program. Hospital Practice. November 1st. .

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