


The duration of intravenous antibiotics therapy for hospital acquired pneumonia in St. Vincentius a Paulo Hospital, Surabaya – Indonesia in 2006

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Outline

- Background
- Objective
- Method
- Result and Discussion
- Conclusion




Background


- Empiric therapy of patients with severe hospital acquired pneumonia (HAP) requires the use of antibiotics at optimal doses, to ensure maximum efficacy. Initial therapy should be administered to all patients intravenously.




- There should be an attempt to switch IV therapy to oral therapy in selected patients with a good clinical response and a functioning intestinal tract.



- Most patients with HAP, who received appropriate antimicrobial therapy, have a good clinical response within the first 6 days.




- If patients receive an initially appropriate antibiotic regimen, attempted should be made to shorten the duration of therapy from the traditional 14 to 21 days to periods as short as 7 days.
- Lengthened therapy simply leads to colonization with antibiotic resistant bacteria, which may precede a recurrent episode of HAP.




Objective

- To review the duration of intravenous (IV) antibiotics therapy in hospital acquired pneumonia as a preliminary study - the possibility to shorten the duration of IV antibiotics therapy.



Method


- A descriptive retrospective analysis of pneumonia inpatient medication chart was used. There were thirty-five medical records of patients with hospital acquired pneumonia in St. Vincentius a Paulo Hospital, Surabaya – Indonesia in 2006; and 120 courses of IV antibiotics had been given when they stayed at the hospital.



• Result and discussion


- Initial therapy was administered to all patients intravenously. Only two IV antibiotic courses were switched to oral antibiotics.

[The duration of antibiotics therapy.doc](#)




- The mean duration of IV antibiotic therapy was 7 days.

[The duration of IV antibiotics therapy.doc](#)




- Sixty three percent antibiotics were given for 1 – 7 days; and thirty seven percent antibiotics were given more than 7 days.

[The frequency of the duration of antibiotics therapy.doc](#)




- **Conclusion**
- Almost all antibiotics therapy for HAP was given intravenously during the course of antibiotic therapy.
- Ward pharmacists can perform an important role in weight prescription charts where intravenous antibiotics treatment continues

[Antibiotic IVOST4_2007.pdf](#)




- There should be an attempt to switch IV therapy to oral therapy in selected patients with a good clinical response and a functioning intestinal tract.
[MKGH_antibiotic_policy-2007.pdf](#) (p. 63-64)
- Antibiotic cost
[cost IV-oral ab.doc](#)




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