Pneumocystis Carinii (Jirovecii) Pneumonia (PCP): The Most Common Opportunistic Infection Observed in HIV/AIDS Cases at The University Malaya Medical Centre, Kuala Lumpur, Malaysia

Jamaiah Ibrahim, University of Malaya

Available at: http://works.bepress.com/jamaiah_ibrahim/3/
PNEUMOCYSTIS CARINII (JIROVECII) PNEUMONIA (PCP):
THE MOST COMMON OPPORTUNISTIC INFECTION
OBSERVED IN HIV/AIDS CASES AT THE UNIVERSITY
MALAYA MEDICAL CENTRE, KUALA LUMPUR, MALAYSIA

I Jamaiah, M Rohela, EL Tok, CL Tan, WH Tan, WS Teo and HF Leow

Department of Parasitology, Faculty of Medicine, University Malaya,
Kuala Lumpur, Malaysia

Abstract. This retrospective study was conducted among 59 HIV/AIDS patients
with opportunistic infections admitted to the University Malaya Medical Centre
between 2000 and 2009. Fifty-five point nine percent of cases were Chinese, 25.4%
were Malays, 11.9% were Indians and 6.8% were of unknown ethnic origin. The
male:female ratio was 2.9:1 (44 males and 15 females). The highest prevalence
(38.9%) occurred in the 30-39 year old age group. Men comprised 47.7% and
women 53.3%; the majority of both were married. The majority of cases were
Malaysians (89.8%) and the rest (10.2%) were immigrants. Most of the patients
(18.6%) were non-laborers, followed by laborers (11.9%), the unemployed (5.1%)
and housewives (3.4%). The most common risk factor was unprotected sexual
activity (20.3%). The two most common HIV/AIDS related opportunistic infections
were Pneumocystis carinii (jirovecii) pneumonia (PCP) (62.7%) and toxoplasmosis
(28.8%). Seventy-two point nine percent of patients had a CD4 count <200 cells/
µl and 5.1% had a CD4 count >500 cells/µl. Eleven point nine percent of cases
died during study period. A low CD4 count had a greater association with op-
portunistic infections. Most of the patients presented with fever (44.1%), cough
(42.4%) and shortness of breath (28.8%). Detection of the etiologic pathogens aids
clinicians in choosing appropriate management strategies.

Keywords: Pneumocystis jirovecii, HIV/AIDS patients, opportunistic infection,
Malaysia