

ORAL PRESENTATION

Open Access

Antiretroviral therapy adherence monitoring and its impact on immuno-virological outcome

Alina Lobodan*, Cristina Popescu, Anca Ruxandra Negru, Raluca Dulamă, Irina Lăpădat, Violeta Molagic, Mihaela Rădulescu, Raluca Jipa, Adriana Hristea, Raluca Mihăilescu, Cătălin Tilișcan, Daniela Munteanu, Raluca Năstase, Gabriel Popescu, Victoria Aramă

From The 7th Romanian National HIV/AIDS Congress and The 2nd Central European HIV Forum Sibiu, Romania. 29-31 May 2014

One of the most important factors in achieving a good outcome is treatment adherence. Poor adherence to anti-retroviral therapy (ART) leads to less viral suppression, permanent treatment resistance and increased costs. There are multiple causes of poor adherence: regimen complexity, side effects etc.

Aim: to analyze ART adherence, risk factors for poor adherence and their impact on the outcome.

We performed a one year survey (from January to December 2013) of HIV infected patients monitored in the Third Department of the National Institute for Infectious Diseases "Prof. Dr. Matei Balș". The data (number of days covered by ART) was collected from patients' files. We correlated the adherence with gender, regimen rank and complexity. Statistical analysis was made using EPI INFO 6.

We retrospectively analyzed 111 patients who came in to our clinic monthly to pick-up their ART, 52 women (46.84%) and 59 men (53.16%) with a mean age of 43.5 years old. The adherence to ART was: 23 (20.62%) – 100% adherence, 36 (32.43%) – more than 96.7% adherence (less than 12 days without medication), 38 (34.23%) – 91.8% to 96.7% adherence (13-30 days without medication), 10 (9%) – 83.6% to 91.8% adherence (30-60 days without medication) and 4 (3.6%) with less than 83.6% adherence (more than 60 days without medication). The level of adherence was correlated with therapeutic failure: for 100% adherence – two failures (8.69%), for more than 96.7% adherence – no failure, for more than 91.8% adherence – 4 failures (11.1%), for more than 83.6% adherence – 2 failures (20%) and for less than 80% adherence – 3 failures (75%). Adherence

below 91.8% was correlated with treatment failure: RR 5.65 (CI95% 1.99; 16.09, p=0.0007). We analyzed some possible risk factors for poor adherence: gender, regimen rank and complexity. Although 51.95% from the non-adherence group were women, the adherence wasn't correlated with gender: RR 1.23 (CI95% 0.93; 1.62, p=0.16). A regimen rank higher than 1 was correlated with low adherence – 45.76% vs. 28.84% in the adherence vs. non-adherence group: RR 1.5 (CI95% 0.95; 2.38, p=0.07). The regimen containing protease inhibitors wasn't correlated with low adherence: 33.9% vs. 30.8%, RR 1.08 (CI95% 0.71; 1.67, p=0.73).

We emphasize the impact of therapy adherence on the outcome. A level of adherence below 91% was correlated with therapeutic failure. ART adherence wasn't correlated with gender, PI regimen and rank regimen.

Published: 29 May 2014

doi:10.1186/1471-2334-14-S4-O8

Cite this article as: Lobodan et al.: Antiretroviral therapy adherence monitoring and its impact on immuno-virological outcome. *BMC Infectious Diseases* 2014 14(Suppl 4):O8.

National Institute for Infectious Diseases "Prof. Dr. Matei Balș", Bucharest, Romania

© 2014 Lobodan et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The Creative Commons Public Domain Dedication waiver (<http://creativecommons.org/publicdomain/zero/1.0/>) applies to the data made available in this article, unless otherwise stated.