

#### EXTENDED VERSUS STANDARD



Abstract Number

4CPS-097

#### CYTOMEGALOVIRUS PROPHYLAXIS IN SOLID ORGAN TRANSPLANTATION

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## Background

Cytomegalovirus (CMV) is the most important viral pathogen in solid organ transplant (SOT) recipients. Prolongation of CMV prophylaxis from 3 to 6 months has been associated with long-term reduction in CMV infection in high-risk renal recipients. It has been recommended in this group of patients and, by extension, in other SOT recipients.

# **Materials & Methods**

- ✓ SOT recipients from 2007 to 2014 were retrospectively studied (n= 438).
- ✓ Patients who received CMV prophylaxis (ganciclovir and/or valganciclovir) were included.
- ✓ CMV replication was monitored according to SOT protocols (monthly from 3-6 months after SOT and when clinically indicated).
- ✓ Efficacy evaluation: CMV infection after prophylaxis. Outcome was compared between groups with standard prophylaxis (length ≤ 100 days) and extended prophylaxis (> 100 days).
- ✓ **Safety analysis:** Evaluation of myelotoxicity (National Cancer Institute Common Toxicity Criteria scale Version 4.0).



#### **Purpose**

To assess the efficacy and safety of CMV prophylaxis in SOT recipients, as well as to compare the efficacy of extended versus standard CMV prophylaxis.



#### Data collection

- Demographics
- Transplant type
- CMV D/R serostatus
- Immunosuppressive therapy
- CMV prophylaxis therapy
- CMV replication (antigenemia or DNAemia)
- Myelotoxicity (anemia, leucopenia, neutropenia, thrombocytopenia)

Statistical analysis Chi-square test SPSS 22.0 (SPSS Inc., Chicago, Illinois, USA). P-values< 0.05

## **Results**



## Conclusions

- ✓ Extended CMV prophylaxis **does not reduce CMV infection** rate after prophylaxis compared to standard prophylaxis.
- ✓ Haematological toxicity during prophylaxis is common and it is associated with length of therapy.
- ✓ We can not recommend extended CMV prophylaxis as general rule in high-risk SOT recipients.

### References

Humar A et al. Transplantation 2010;90: 1427-1431.