|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Models for oral GCV | Relative MPE  (%)  Analysis set | Relative RMSE  (%)  Analysis set | Relative MPE  (%)  Assesment set | Relative RMSE  (%)  Assesment set |
| Ganciclovir concentration at 0,2,3 hours with Xgboost algorithm | 0.2 | 6.6 | 0.3 | 6.9 |
| Ganciclovir concentration at 0,3,4 hours with Xgboost algorithm | 0.4 | 6.5 | 0.6 | 6.4 |
| Ganciclovir concentration at 0,4,6 hours with Xgboost algorithm | 0.6 | 7.3 | 0.9 | 7.6 |
| Ganciclovir concentration at 0,2,6 hours with Xgboost algorithm | 0.2 | 4.3 | 0.5 | 4.9 |
| Ganciclovir concentration at 0,1,3 hours with Xgboost algorithm | 0.3 | 6.8 | 0.4 | 6.9 |
| **Ganciclovir concentration at 0,1,4 hours with Xgboost algorithm** | 0.1 | 3.9 | 0.2 | 3.9 |
| Ganciclovir concentration at 0,1,6 hours with Xgboost algorithm | **0.2** | **3.8** | **0.3** | **3.8** |
| Ganciclovir concentration at 0,3,6 hours with Xgboost algorithm | 0.2 | 5.7 | 0.3 | 5.8 |
| Ganciclovir concentration at 1,2,4 hours with Xgboost algorithm | 0.5 | 7.2 | 0.7 | 7.2 |
| Ganciclovir concentration at 1,2,6 hours with Xgboost algorithm | 0.2 | 4.2 | 0.5 | 4.4 |
| Ganciclovir concentration at 1,3,6 hours with Xgboost algorithm | 0.2 | 4.3 | 0.3 | 4.4 |
| Ganciclovir concentration at 1,3,4 hours with Xgboost algorithm | 0.5 | 7.5 | 0.6 | 7.2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Models for IV GCV | Relative MPE  (%)  Analysis set | Relative RMSE  (%)  Analysis set | Relative MPE  (%)  Assesment set | Relative RMSE  (%)  Assesment set |
| Ganciclovir concentration at 0,2,3 hours with Xgboost algorithm | 1.1 | 11.5 | 0.89 | 11.1 |
| Ganciclovir concentration at 0,3,4 hours with Xgboost algorithm | 1.2 | 12.0 | 0.7 | 11.2 |
| Ganciclovir concentration at 0,4,6 hours with Xgboost algorithm | 1.3 | 12.1 | 0.8 | 12.3 |
| **Ganciclovir concentration at 0,2,6 hours with Xgboost algorithm** | **0.9** | **9.8** | **0.7** | **9.1** |
| Ganciclovir concentration at 0,1,3 hours with Xgboost algorithm | 1.0 | 10.9 | 0.9 | 10.6 |
| Ganciclovir concentration at 0,1,4 hours with Xgboost algorithm | 1.2 | 11.3 | 0.7 | 10.6 |
| Ganciclovir concentration at 0,1,6 hours with Xgboost algorithm | 1.1 | 10.9 | 0.6 | 10.2 |
| Ganciclovir concentration at 0,3,6 hours with Xgboost algorithm | 0.9 | 10.4 | 0.5 | 9.6 |
| Ganciclovir concentration at 1,2,4 hours with Xgboost algorithm | 1.0 | 10.9 | 0.9 | 10.7 |
| Ganciclovir concentration at 1,2,6 hours with Xgboost algorithm | 9.7 | 10.5 | 0.8 | 10.3 |
| Ganciclovir concentration at 1,3,6 hours with Xgboost algorithm | 1.0 | 10.6 | 0.8 | 10.4 |
| Ganciclovir concentration at 1,3,4 hours with Xgboost algorithm | 1.1 | 11.1 | 0.9 | 10.9 |