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| --- | --- | --- | --- | --- |
|  | **AUCss**  **estimation**  **method** | **Performances** | **Patients from** | |
|  | **Caldés et al.**  **model (*n* = 98)** | **Chen et al.**  **model (*n* = 98)** |
|  | | | **2 samples (C4 & C10)** | |  |
| **900 mg/24h of VGCV** | XGBoost  (C4 & C12) | Relative MPE, (%) | 7.79 | 27.1 |
| Relative RMSE, (%) | 17.5 | 29.3 |
| Number of MPE of the ±20% interval | 30 (30.6%) | 74 (75.5 %) |
| MAP-BE  Vezina et al. | Relative MPE, (%) | -12.5 | 19.1 |
| Relative RMSE, (%) | 14.3 | 23.5 |
| Number of MPE of the ±20% interval | 15 (15.3 %) | 41 (41.9 %) |
| MAP-BE  Lalagkas et al. | Relative MPE, (%) | 42.7 | 78.4 |
| Relative RMSE, (%) | 48.0 | 82.9 |
| Number of MPE of the ±20% interval | 83 (84.7 %) | 97 (99.0 %) |
|  |  |  | **2 samples (C4 & C10)** | |
| **450 mg/24h of VGCV** | XGBoost  (C4 & C12) | Relative MPE, (%) | 9.68 | 25.7 |
| Relative RMSE, (%) | 15.7 | 28.0 |
| Number of MPE of the ±20% interval | 17 (17.3%) | 71 (72.5 %) |
| MAP-BE  Vezina et al. | Relative MPE, (%) | 17.2 | 14.1 |
| Relative RMSE, (%) | 11.0 | 18.3 |
| Number of MPE of the ±20% interval | 7 (7.14 %) | 29 (29.6 %) |
| MAP-BE  Lalagkas et al. | Relative MPE, (%) | 34.8 | 76.5 |
| Relative RMSE, (%) | 43.4 | 80.4 |
| Number of MPE of the ±20% interval | 71 (72.4%) | 98 (100 %) |
|  |  |  | **2 samples (C0 & C10)** | |
| **450 mg/48h of VGCV** | XGBoost  (C0 & C12) | Relative MPE, (%) | 4.46 | 29.7 |
| Relative RMSE, (%) | 15.6 | 36.4 |
| Number of MPE of the ±20% interval | 17 (17.3 %) | 57 (58.2 %) |
| MAP-BE  Vezina et al. | Relative MPE, (%) | -16.0 | 24.3 |
| Relative RMSE, (%) | 19.0 | 32.7 |
| Number of MPE of the ±20% interval | 32 (32.6 %) | 52 (53.1 %) |
| MAP-BE  Lalagkas et al. | Relative MPE, (%) | 24.4 | 76.1 |
| Relative RMSE, (%) | 29.4 | 79.3 |
| Number of MPE of the ±20% interval | 57 (58.2 %) | 98 (100 %) |
|  |  |  | **2 samples (C0 & C6)** | |
| **450 mg/72h of VGCV** | XGBoost  (C0 & C7) | Relative MPE, (%) | 12.0 | - |
| Relative RMSE, (%) | 14.7 | - |
| Number of MPE of the ±20% interval | 14 (14.3 %) | - |
| MAP-BE  Lalagkas et al. | Relative MPE, (%) | 31.1 | - |
| Relative RMSE, (%) | 37.1 | - |
| Number of MPE of the ±20% interval | 80 (81.6%) | - |