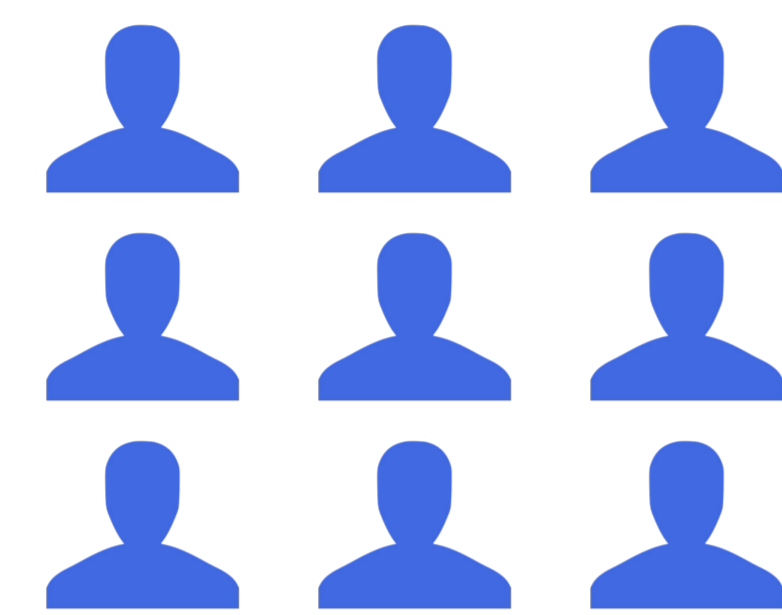


Diabetes Management at Air Liquide Healthcare

- Diabetes : 425M adults affected worldwide



Type 1 diabetes : 10 %
The body does not produce insulin



Type 2 diabetes : 90 %
The body produces inefficient insulin

- Diabetes cannot be cured but can be managed

Provision of equipments

Educational programs

Remote monitoring



Personalized follow-up

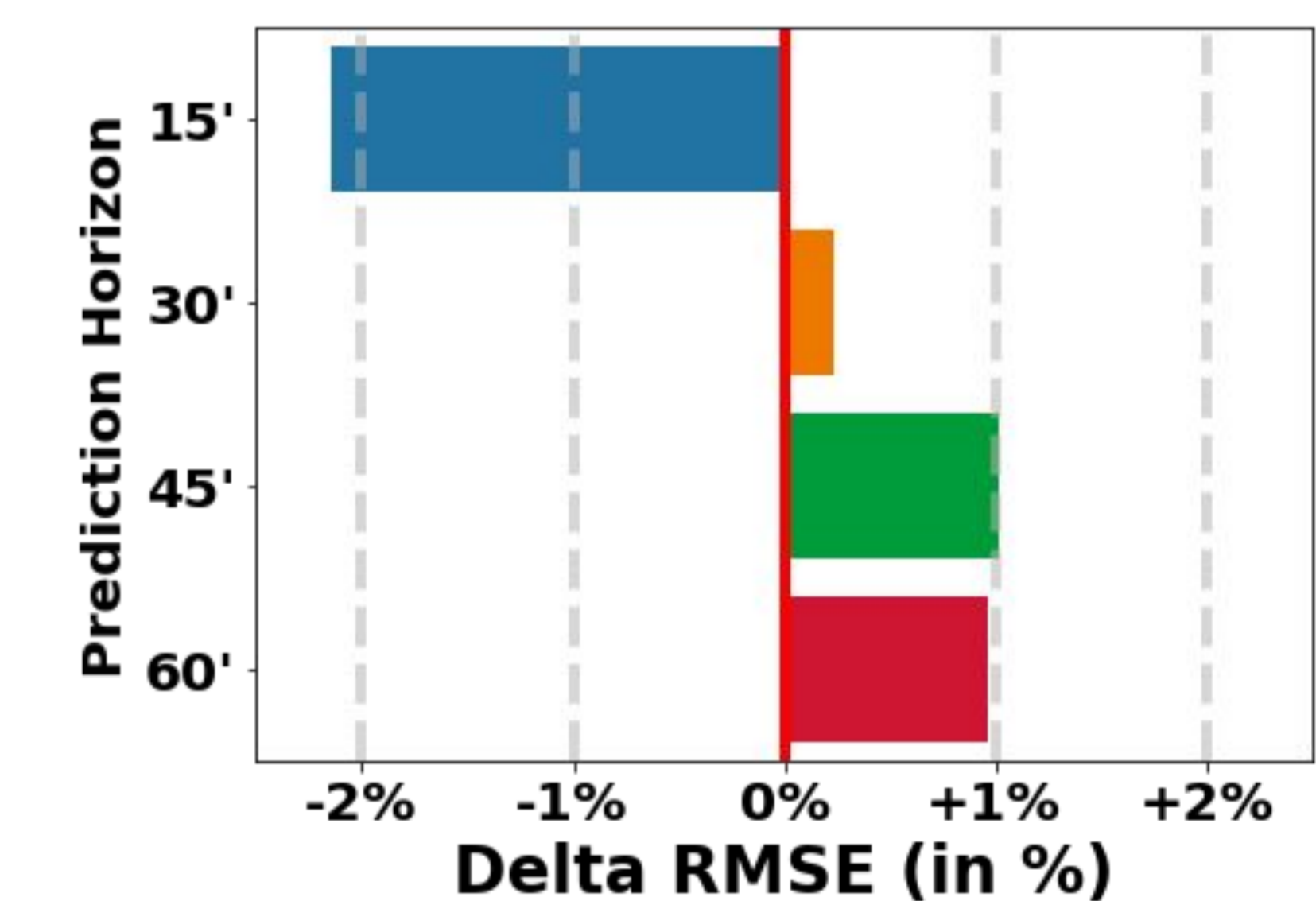
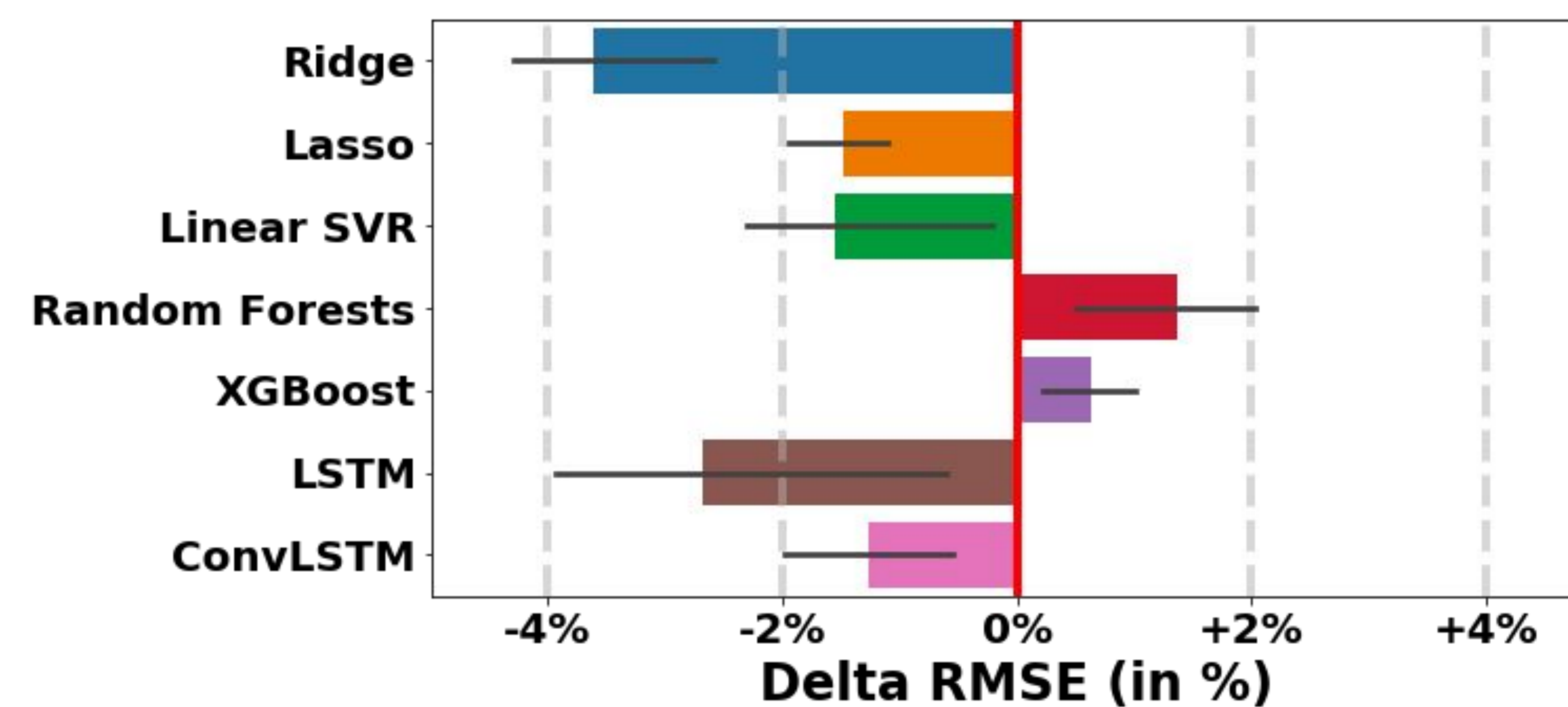
Sharing patient data with doctors

- Machine Learning can help for :
 - Glucose-level prediction
 - Insulin delivery control
 - Diet recommendation

Glucose Level Prediction with Machine Learning



Benchmarking Machine Learning Parameters for Glucose Level Prediction



Challenges related to glucose level prediction :

- No clear winner on the most suitable model
- Short term prediction is easy but has limited application
- Long validation time range leads to better forecast
- Prediction during night-time is harder than daytime

