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| Supplementary material S1 |

Supplementary material S1 provide detailed explanation and mathematical definition of the CGM derived metrics.

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| MAGE | Identify significant excursions above a threshold . |
| GRI |  |
| Time in range |  |
| Mobilty |  |
| CONGA |  |
| LBGI  HBGI | Transform the glucose values:  Calculate the risk function:  Determine the LBGI:  Determine the HBGI: |
| GRADE | Calculate the GRADE score for each glucose value:  Overall GRADE score:  GRADE for Hypoglycemia: |
| DTpM |  |