**Supplemental materials**

**Table-1:** The eligibility criteria for the included patients

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| Inclusion criteria | Exclusion criteria |
| Patients with T2DM, according to the ADA criteria | Patients with T1DM |
| Patients receiving glucocorticoids for treatment of COVID-19 | Presence of heart failure (LVEF<40%) or a history of hospitalization for heart failure  |
| Drug naïve patients or receiving oral antihyperglycemic therapy (except pioglitazone) or injectable therapies.  | Use of diuretics (Furosemide or Aldactone) for heart disease |
| COVID-19 infection confirmed with PCR test | Negative COVID-19 infection  |
| Age 21-85 years old  | Age <21 years |
| Both gender (male and female)  | Patients on mechanical ventilation |
| Positive COVID-19 symptoms | Patients receiving pioglitazone for the management of their diabetes |
| Patients on anti-inflammatory therapy for their routine COVID-19 care or antiviral therapy | Positive pregnancy test  |

**Figure S1**: the cumulative effects on the primary and secondary outcomes

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