**Workshop 4 – Carbon foot-printing in healthcare**

**Task**: **Using table 2, the equation given below, and the carbon emission illustrated, try to work out the Carbon footprint of the following:**

* **200 patients attend the Emergency Department via Ambulance 4 times a year**
* **200 patients being admitted to hospital for 4 days, 4 times a year**
* **160 patients receiving 1 new Ventolin inhaler 4 times a year.**
* **200 patients discharged home via taxi****4 times a year *(assume they travel an average of 6km)***

**Carbon footprint (kg CO2e) = Activity/resource use x GHG emissions factors**

**Emission Factors:**

Ambulance Journey = 36.1kg/C02e/single trip

Emergency department visit = 13.8kgCO2e/per visit

Inpatient bed day = 37.9kgCO2e/bed day

Ventolin Inhaler = 24kgC02e/inhaler

Taxi journey home = 1.1kgCO2e/journey (based on a 6km journey = 0.185kgCo2e/km)

Table 2.

|  |  |  |
| --- | --- | --- |
| **Activity/Resource use** | **Carbon Emissions Factor** | **Activity/Resource x Emissions factor (kgCO2e)** |
| **Ambulance journey** |  |  |
| **ED visit** |  |  |
| **Inpatient bed day** |  |  |
| **Ventolin inhaler**  |  |  |
| **Travel home (taxi)** |  |  |
|  | Total carbon footprint (kgCO2e): |  |