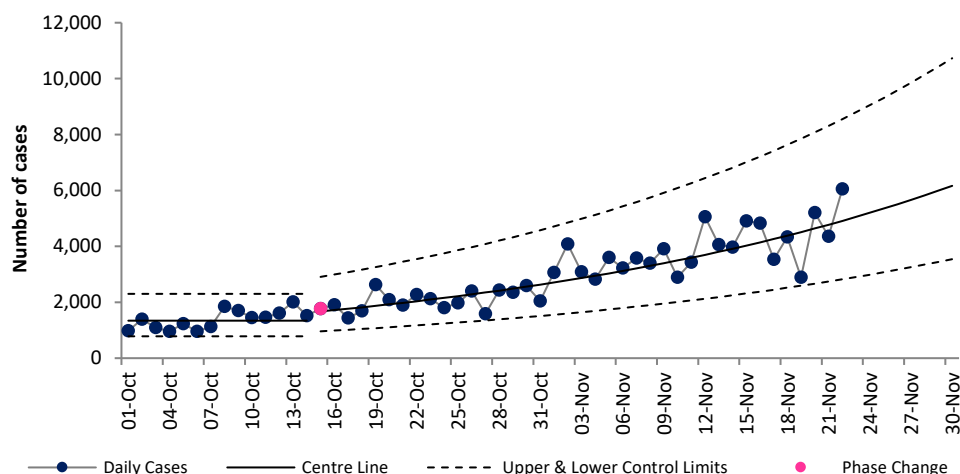


# COVID-19 Data Summary, Wednesday 24<sup>th</sup> November 2021

## Weekly Report on COVID-19 Statistical Process Control Charts

### 24<sup>th</sup> November 2021

Daily COVID-19 Reported Cases



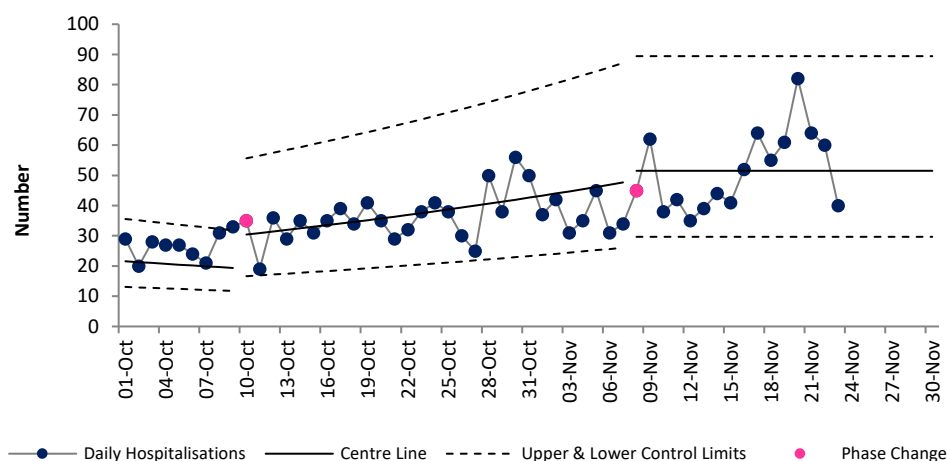
#### Epoch 2: Growth in Daily Reported Cases

From 23<sup>rd</sup> September to 14<sup>th</sup> October cases remained in Epoch 3, stable but at a higher level and again from 15<sup>th</sup> October cases remained in Epoch 3 (stability) but at an even higher level again.

**From 15<sup>th</sup> October, cases have entered Epoch 2, rapid growth. During this phase we expect both cases and the rate of growth of cases to increase.**

Based on data up to 22<sup>nd</sup> November we would expect to see 6164, new cases on 30<sup>th</sup> Nov.

Daily new hospital admissions of COVID-19 positive patients



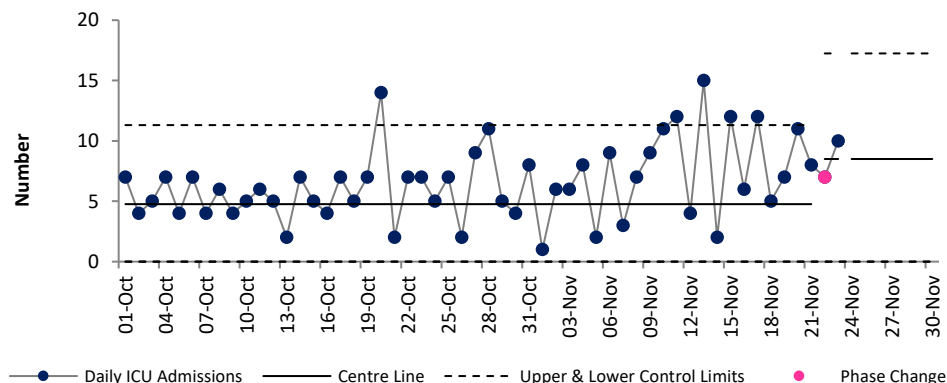
#### Epoch 3: Plateau or descent in daily reported hospital admissions

The number of new hospitalisations per day of COVID positive patients had been trending upwards until 2<sup>nd</sup> September (i.e. in Epoch 2, growth phase), during which time the average increased from 16 admissions per day on 1<sup>st</sup> August to 42 admissions per day by 2<sup>nd</sup> September.

Addition of recent data has shown a **signal of increase from 10<sup>th</sup> Oct to 7<sup>th</sup> Nov** when hospital admissions of COVID-19 entered epoch 2: growth in daily reported admission. This indicates **rapid growth**.

Since 8<sup>th</sup> Nov, daily COVID-19 admissions has re-entered a plateau phase, with admissions **stable** (no longer rapidly growing) at an **expected value of 52 a day (364 a week)**.

Daily admissions to ICU of COVID-19 positive patients



#### Epoch 4: Stability after descent in daily reported ICU admissions

The number of new ICU admissions per day of COVID positive patients had been trending downwards since January. From 25<sup>th</sup> July to 17<sup>th</sup> August ICU admissions remained stable at a higher level than in preceding weeks (3.3 per day). From 18<sup>th</sup> August to 21<sup>st</sup> Nov ICU admissions remained stable but a higher level than preceding weeks (4.8 per day).

From 22<sup>nd</sup> Nov onward expected ICU admissions increase to **8.5 per day (60 a week)**. While the absolute number of expected admissions has increased, it does not yet meet the threshold for rapid growth and thus remains stable at that higher level.

Note that due to the cyber attack data on daily notified deaths of people with COVID-19 are not currently available. For more information on the methodology used above and the team behind the development of this SPC approach see <https://www.hse.ie/eng/about/who/qid/covid-19-qj-learning/resources-developed-to-support-the-national-covid19-response/understanding-variation-in-key-covid-19-indicators-in-ireland-using-statistical-process-control-shewhart-charts.pdf>