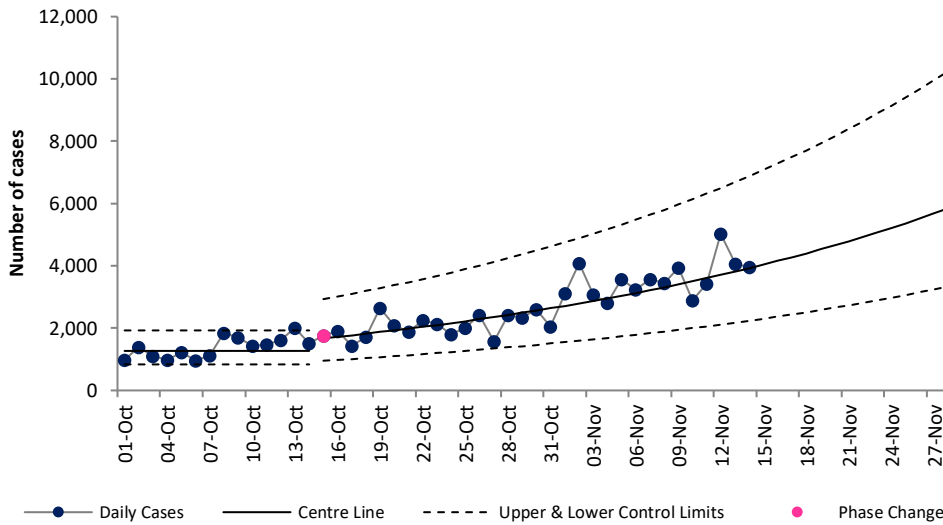


# COVID-19 Data Summary, Wednesday 17<sup>th</sup> November 2021

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

17<sup>th</sup> November 2021

**Daily COVID-19 Reported Cases**



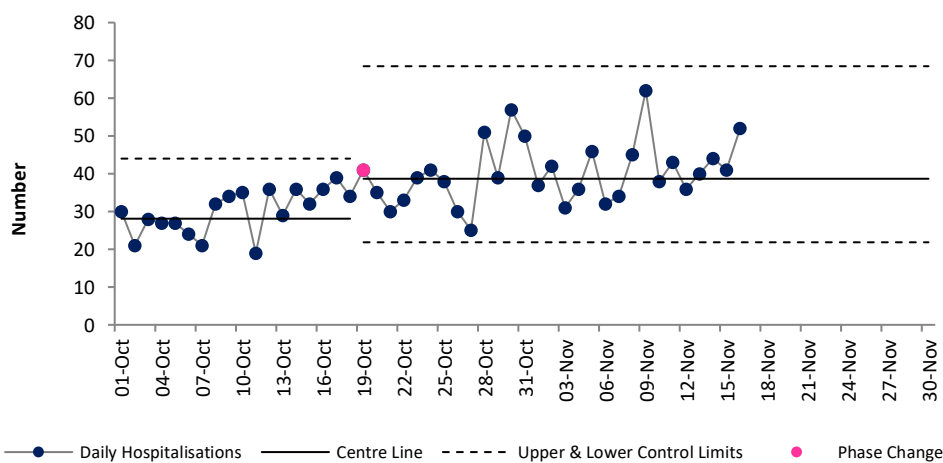
**Epoch 2: Growth in Daily Reported Cases**

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 10<sup>th</sup> November we would expect to see 5,847 new cases on 27<sup>th</sup> Nov.

**Daily new hospital admissions of COVID-19 positive patients**

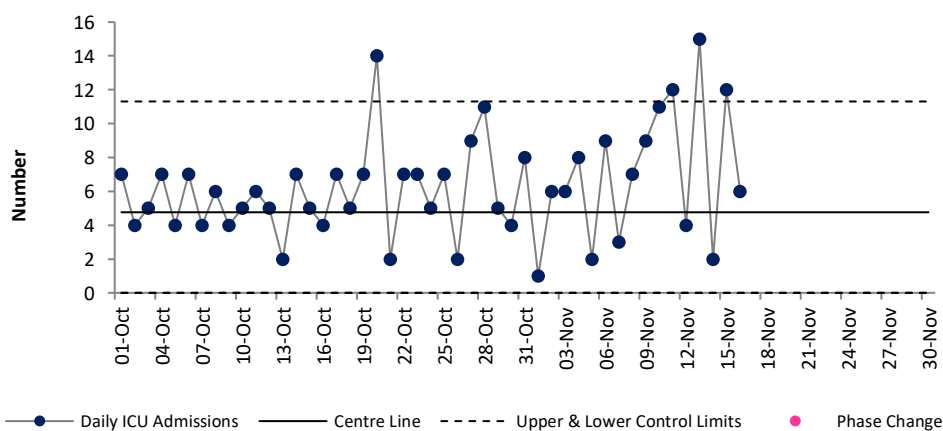


**Epoch 3: Plateau or descent in daily reported hospital admissions**

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.

There was signal of a reduction from 3<sup>rd</sup> Sept and admissions entered Epoch 3 (plateau or descent phase). Since Oct 19<sup>th</sup> admissions have been stable but at a higher level. Based on the current data we can **expect to continue to see an average of 39 hospital admissions of COVID positive patients per day.**

**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. There was a signal of a reduction from 1.3 since 30<sup>th</sup> April to 0.6 per day since 10<sup>th</sup> June. 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 ICU admissions remain stable but again at a higher level than preceding weeks. We can expect an average of 4.8 admissions per day.

Outlying value of 14 admissions was recorded on Oct 20<sup>th</sup>. **Outlying values of 12, 15 and 12 were recorded on November 11<sup>th</sup>, 13<sup>th</sup> and 15<sup>th</sup> respectively.**

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-qi-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>