COVID-19

‘MODIFIED’ Control Chart Analysis

As of Monday 4/27/2020, 5:00PM HST
**USA**

**‘Modified’ Control Chart Analysis:**
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last two points (4/26/20 and 4/27/20) are both below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in USA. Also, the linear trend line has a remarkable downward slope since 4/24/20.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/19/20 – 4/22/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in USA during this period.

![Graph showing the 'Modified' Control Chart of COVID-19 Daily Cases in USA (4/04/20 - 4/27/20)](image_url)

AVG=30287
Spain

'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are both below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain. Also, the linear trend line has a remarkable downward slope.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/23/20 and 4/25/20 – 4/27/20) are all below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain during this period.

- Nine successive points are on one side of the centerline.
  - Nine consecutive points (3/27/20 - 4/04/20) are all on one side (above) of the centerline. This was a bad 'out-of-control' pattern.

AVG=5452
‘Modified’ Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Italy. Also, the linear trend line has a downward slope.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Italy.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/19/20 – 4/27/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern indicates that the daily COVID-19 cases in Italy are stabilizing in a positive direction.
France

‘Modified’ Control Chart Analysis:
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in France.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in France.
Germany

'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. Also, the linear trend line has a downward slope.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 – 4/27/20) are all below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. Also, the linear trend line has a remarkable downward slope.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/19/20 – 4/27/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern indicates that the daily COVID-19 cases in Germany are stabilizing in a positive direction.

- There are six consecutive points, increasing or decreasing.
  - There are six consecutive points (4/8/20 - 4/15/20) decreasing which indicates a good 'out-of-control' sign.
'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Russia.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last four points (4/24/20 – 4/27/20) are all above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Russia.
Brazil

'Modified' Control Chart Analysis:
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are both above the control line, which suggests a bad 'out-of-control' pattern for COVID-19 cases in Brazil.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all above the control line, which indicates that there is a bad 'out-of-control' pattern for COVID-19 cases in Brazil.
‘Modified’ Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last two points (4/26/20 and 4/27/20) are both above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Canada.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/23/20 – 4/24/20 and 4/26/20 – 4/27/20) are all above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Canada.
Belgium

‘Modified’ Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Belgium. Also, the linear trend line has a remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/23/20 and 4/25/20 – 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Belgium.
Switzerland

‘Modified’ Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Switzerland. Also, the linear trend line has a downward slope.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 – 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Switzerland.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/19/20 – 4/27/20) are all on one side (below) of the centerline. This is a good ‘out-of-control’ pattern and indicates that the COVID-19 cases in Switzerland are stabilizing in a positive direction.
Austria

'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Austria.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Austria. Also, a remarkable linear trend line with a downward slope can be observed from 3/26/20.

- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/19/20 - 4/27/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Austria are stabilizing in a positive direction.
Israel

‘Modified’ Control Chart Analysis:

• Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  o The last three points (4/25/20 - 4/27/20) are both below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Israel. Also, the linear trend line has a remarkable downward slope.

• Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  o The last five points (4/23/20 – 4/27/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Israel. Also, the linear trend line has a remarkable downward slope.
Australia

'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Australia.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all below the control line, which suggests an ‘out-of-control’ pattern for COVID-19 cases in Australia. A good ‘out-of-control’ sign. Also, a remarkable linear trend line with a downward slope can be observed from 3/22/20.

- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/19/20 - 4/27/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern suggests that the daily COVID-19 cases in Australia are stabilizing in a positive direction.
'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/25/20 - 4/27/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Cyprus.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/23/20 - 4/27/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Cyprus. A good 'out-of-control' sign. Also, a linear trend line with a downward slope can be observed from 4/1/20.