COVID-19

‘MODIFIED’ Control Chart Analysis

As of Tuesday 5/05/2020, 5:00PM HST
'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 (5/3/20 and 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in USA. Also, the linear trendline 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.
  - The last four points (5/2/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in USA during this period. Also, the linear trendline has a remarkable downward slope.
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 (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Spain.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Spain during this period. Also, the linear trendline has a downward slope.
- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/27/20 – 5/5/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern indicates that the daily COVID-19 cases in Spain are stabilizing in a positive direction.
Italy

'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 (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Italy. Also, the linear trendline 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 (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Italy. Also, the linear trendline has a remarkable downward slope.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/27/20 – 5/5/20) 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.
  o The last three points (5/3/20 – 5/5/20) are all 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.
  o The last five points (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in France.
• Nine successive points are on one side of the centerline.
  o The nine consecutive points (4/27/20 – 5/5/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern indicates that the daily COVID-19 cases in France are stabilizing in a positive direction.
\textbf{Germany}

\textbf{‘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 (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Germany.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Germany. Also, the linear trendline has a downward slope.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/27/20 – 5/5/20) 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 (5/3/20 and 5/5/20) are all above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Russia. The linear trendline 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 (5/1/20 – 5/5/20) 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 (5/3/20 – 5/5/20) are all 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 (5/1/20 – 5/5/20) are all above the control line, which indicates that there is a bad 'out-of-control' pattern for COVID-19 cases in Brazil.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/27/20 – 5/5/20) are all on one side (above) of the centerline. This bad 'out-of-control' pattern indicates that the daily COVID-19 cases in Brazil are stabilizing in a bad direction.
Canada

‘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 (5/4/20 and 5/5/20) are both below the control line, which suggests a good ‘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 (4/30/20 – 5/3/20) are all above the control line, which suggests a bad ‘out-of-control’ pattern for COVID-19 cases in Canada during this period.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/7/20 – 4/15/20) are all on one side (below) of the centerline. This was a good ‘out-of-control’ pattern during this period.
‘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 (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Belgium. Also, the linear trendline 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 (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Belgium. Also, the linear trendline has a downward slope.

- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/27/20 – 5/5/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern indicates that the daily COVID-19 cases in Belgium are stabilizing in a positive direction.
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.
  o The last three points (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Switzerland. Also, the linear trendline has a 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 (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Switzerland. Also, the linear trendline has a remarkable downward slope.

• Nine successive points are on one side of the centerline.
  o The nine consecutive points (4/27/20 – 5/5/20) 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 (5/3/20 – 5/5/20) 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 (5/1/20 – 5/5/20) 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 (4/27/20 – 5/5/20) 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.
‘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 (5/3/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Israel.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Israel. Also, the linear trendline has a downward slope.

- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/27/20 – 5/5/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern suggests that the daily COVID-19 cases in Israel are stabilizing in a positive direction.
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 (5/3/20 – 5/5/20) 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 (5/1/20 – 5/5/20) 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 (4/27/20 – 5/5/20) 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.
Cyprus

‘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 (5/3/20 – 5/5/20) 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 (5/1/20 – 5/5/20) are all below the control line, which suggests a good ‘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.

- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/27/20 – 5/5/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern suggests that the daily COVID-19 cases in Cyprus are stabilizing in a positive direction.