in the last week not included in this calculation. Inclusion of outpatients and asymptomatic cases would decrease the more severe cases. The information in this chart is based on hospitalized cases, and outpatients are patients with death outcome, as well as those admitted to ICU or under mechanical ventilation as *To the total number of hospitalized COVID-19 patients. ** Based on available data, we considered patients with death outcome, as well as those admitted to ICU or under mechanical ventilation as more severe cases. The information in this chart is based on hospitalized cases, and outpatients are not included in this calculation. Inclusion of outpatients and asymptomatic cases would decrease the proportion of severe cases. To increase the sample size, analysis of death cases is done on the data in the last week.

Estimation of the Number of New Cases of COVID-19 per Day by Different Levels of Isolation and with or without Stoppage of Educational Centers: A Dynamic Modelling

Four scenarios were considered in which decide to stop or not to stop educational centers, different levels, and durations of intervention lead to different isolation rates. In each scenario, the number of new cases of COVID-19 per day is modeled between January 21 and June 19, 2020. It was assumed that with the closure of the educational centers, the number of daily effective contacts decreased from 7 to 5 people per day, and the effect of this closure or non-closure in two scenarios with an average isolation of 20 and 30 percent of infected people was investigated. Isolation means that infected people cannot transmit the disease to healthy people.

Conclusions

- Interventions leading to increased isolation rate have a profound effect on the number of new cases of infection per day and epidemic growth rate.
- Maximum interventions require harmonized intra/inter sectoral collaborations.
- The more severe the interventions become, the slower the incidence of the disease and the slope of the epidemic curve will be. Furthermore, the number of new cases of COVID-19/day will show a declining trend.
- If the closure of educational centers in Iran had not taken place quickly, the possibility of an increase in the number of new cases of COVID-19 per day would have been significant.