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| Supplementary Material 1. Daily timetable of the days after the incident occurred |
| 　 | Event | Action | Authority institution | Patient incidence (without duplicates)\* | Left school early | Absent |
| September 2 | Incident occurred | Air sampling | Institute of Health and Environment, Daegu National Forensic Service | 74 | 0 | 0 |
| School facility investigation | Police |
| September 3 |  | Interview of 74 patients from September 2 | Police | 17 | 1 | 2 |
| September 4 |  |  |  | 9 | 8 | 5 |
| September 5 |  | Air sampling via portable (bus) air measurement device in industrial complex near school | National Institute of Environmental Research | 4 | 5 | 2 |
| September 6 |  | Air sampling in auditorium | Institute of Health and Environment Research, Daegu | 1 | 3 | 3 |
|  | Air sampling via portable (bus) air measurement device in industrial complex near school | National Institute of Environmental Research |
|  | Proposal of a joint investigation team at a working-level meeting due to the failure of the relevant agency to identify the cause | National Forensic Service, Fire Department, Gas Safety Corporation, police, Meteorological Administration, Environment Agency, Daegu municipality, etc. |
| September 7 |  |  |  |  | - | - |
| September 8 |  | Air sampling in auditorium | Institute of Health and Environment Research, Daegu | - | - | - |
| September 9 |  | Monitoring with measuring vehicle | Institute of Health and Environment Research, Daegu | - | - | - |
| September 10 |  | - | - | - | - | - |
| September 11 |  | - | - | - | - | - |
| September 15 |  | Air sampling in auditorium | Institute of Health and Environment Research, Daegu | - | - | - |
| September 16 | Burning odor (library) | Special inspection of air emission factories(through approximately September 27) | Regional Environment Agency, Office of Education, Daegu municipality | - | - | - |
| September 18 | Burning odor (entrance) |  |  | - | - | - |
| September 19 |  | Air sampling in science laboratory and playground | Korea Environment Corporation | - | - | - |
| September 20 | Burning odor(information room, on the way to school) | Air sampling in science laboratory and playground | Korea Environment Corporation | - | - | - |
| September 23 |  | Monitoring with measuring vehicle | National Institute of Environmental Research | - | - | - |
| September 24 | Burning odor (3-11 class) | Monitoring with measuring vehicle | National Institute of Environmental Research | - | - | - |
| September 25 |  | Air sampling via portable (bus) air measurement device in industrial complex near school | National Institute of Environmental Research | - | - | - |
| September 26 |  | Air sampling via portable (bus) air measurement device in industrial complex near school | National Institute of Environmental Research | - | - | - |
| September 27 |  | Joint investigation team launched | Investigation team (7 members including 1 medical staff member) |  |  |  |
| September 30 | Burning odor (3-12 class) |  |  | - | - | - |
| October 2 | Field investigation | Additional interview, field investigation | Environmental medical staff (our research team) | - | - | - |
| October 3 | Burning odor (principal's office, playground) |  |  | - | - | - |
| October 16 |  | Joint investigation team meetingDebate on internal and external factorsSuggestion of the need for review of medical records, etc. | Investigation team† (7 members including 1 medical staff member) | - | - | - |
| October 17 |  | Review of medical records and interview records (through approximately November) | Environmental medical staff (our research team) | - | - | - |
| November 13 |  | Joint investigation team meetingDisagreement among investigators | Investigation team (7 members including 1 medical staff member) | - | - | - |
| January 10, 2020 | 　 | Announcement of survey results Disagreement among investigators continues; case closed with cause unknown | Investigation team (7 members including 1 medical staff member) | - | - | - |
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| \*Includes visits to clinics or hospital via outpatient care, hospitalization, or emergency room due to neurologic symptoms. On September 7-11, no cases were reported. Since then, no investigation has occurred. |
| †The research team consisted of 7 members: 2 air environment experts, 1 chemical expert, 1 industrial hygiene expert, 1 sampling and analysis expert, 1 medical expert, and 1 non-government organization member.  |