



Division Plan 2019

# Division of Infection Control and Environmental Health

## Innholdsfortegnelse

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## 1. Grant

Infection Control, Environment and Health has been granted the following over kap. 745/3745:

Kapittel	Post	Betegnelse	Beløp
745	01	Ordinary operating expenses- salary	259 016
745	01	Ordinary operating costs - goods and services	31 150
<b>Sum ordinary operating epxenzes</b>			<b>290 165</b>
745	45	Larger equipment acquisitions	7 000
<b>Sum Kap 745</b>			<b>297 165</b>
3745	02	Miscellaneous incomes	- 25 378
<b>Sum kap 3745</b>			<b>- 25 378</b>
<b>Sum total (net allocation)</b>			<b>271 787</b>

The division also manages the institute's costs related to the purchase of vaccines with the following allocation:

Kapittel	Post	Betegnelse	Beløp
745	01	Ordinary operating expences - goods and services	19 953
<b>Sum kap 745</b>			<b>19 953</b>
710	21	Special operating costs	372 796
<b>Sum kap 710</b>			<b>372 796</b>
3710	03	Miscellaneous incomes	- 132 486
<b>Sum kap 3710</b>			<b>- 132 486</b>
<b>Sum total (net allocation)</b>			<b>260 263</b>

The divisions has budgetary authority to charge the following chapters in accordance with guidelines:

Kap, post	Kapittelnavn	Beskrivelse	Beløp
702.21	Preparedness	Measures within infection control and chemical preparedness	7 300
714.21	Public Health	National targets for water and health	1 000
714.21	Public Health	Infection control conferences, hand hygiene campaign etc.	2 000
714.21	Public Health	Polio vaccine	200
1400.21	Ministry of Climate and Environment	Professional assistance for human toxicology	4 800
<b>Sum budgetary authority</b>			<b>15 300</b>

## 2. The division's most important priorities and initiatives

*(This part should both say something about goals and priorities in the long term (3-year perspective) and what is planned for the current period. Should be seen against the work with development plans.)*

The Division of Infection Control, Environment and Health must have high professional expertise in the occurrence and prevention of infectious diseases, as well as the health effects of exposure factors in the environment, acute poisonings and infectious agents. The area is responsible for all the institute's core tasks within this field.

The division has broad preparedness responsibility within infection control and environmentally-oriented health protection (Act on Protection against Infectious Diseases, Public Health Act and Health Preparedness Act). The Institute of Public Health is the state's infectious disease institute (infection control act §7-9) and many of the division's activities are related to this task. Infection control, environment and health are also responsible for a number of reference functions within medical microbiology and for professional guidelines for the implementation of the national vaccination programmes, vaccine procurement and distribution of vaccines. In the coming years, the division for infection control, environment and health will clarify and develop our role as professional adviser to various ministries and directorates, as well as provide support to the municipalities and the health service in the area of environmental health protection and infection control.

The division contributes to global processes and projects where we have national responsibility and expertise.

### Development goals in the period 2019-2024

- Develop infrastructure, data and analysis platforms to produce and disseminate data of higher quality and to make better use of available data and thereby drive better monitoring and improve the knowledge base for advice, preparedness work and research.
- Further develop a robust and holistic preparedness based on good professional competence, modern and effective analyses, clear and structured planning and systematic learning.
- Assist our users with effective and knowledge-based advice in infection control and environmental medicine and improve the communication of these.

### **Infrastructure**

The division supplies infrastructure and services to the health service, other external actors and the population. This includes, for example, 24-hour advisory services, establishment of a human environmental biobank, advice and risk assessments for chronic exposures, reference functions in medical microbiology, vaccine procurement and vaccine distribution. The division manages and develops infection control registers for infection monitoring and preparedness with operational and data processing responsibilities.

### **Long term initiatives:**

1. Establish infrastructure for visualization of monitoring data, and easier connection of data from different sources.
2. Modernize and ensure good quality of the infection control registers and develop the laboratory database towards a future infection register that includes all microbes
3. Develop technological and experimental platforms, integrated with biomonitoring, biobanks, health registries and health surveys to investigate causal relationships.
4. Ensure a good, secure national supply of vaccines, immunoglobulins and sera to avoid

supply failures and maintain good vaccination coverage. Establish infrastructure for visualizing monitoring data, and easier connection of data from different sources.

### **Plans for the current year:**

Laboratory activities are to be strengthened and made more efficient, as well as organized so that operations become more robust. In addition, we will work to further develop the whole-genome sequencing technology in bacteriology and virology in relation to laboratory and bioinformatic analyses. The aim is to reduce the response time to analyze and utilize the existing data in terms of monitoring and predictive modeling for use in infection control. Changes in organizational structures, a good and coordinated organization of the work within the laboratory area, and increased resources are measures required for the work.

Processes of modernizing the infection control registers are to be continued, and the establishment work with an infection register is to be prioritized in the current year.

### **Knowledge**

With increasing digitalisation, the amount of data available in various fields increases, and the division must develop greater analytical competence. By producing higher quality data and making even better use of available data, we shall carry out better monitoring and improve the knowledge base for advice, preparedness work and research.

The division has a large portfolio of research projects. The division's research must support the division strategy and the department and our deliveries. There is a need for the externally funded part of the research to increase in the coming years. This means that the research will be directed towards a more limited number of research topics. One of the research topics to be strengthened is antimicrobial resistance (AMR), and NIPH has therefore established a Center for Antimicrobial Resistance.

### **Long term initiatives:**

1. Make better use of monitoring results and register data for research and evaluation of advice and measures.
2. Increased knowledge about the development of resistance in microbes and the spread of resistance mechanisms.
3. Increased knowledge of the interaction between various external and internal health risk factors for health outcomes and the development of disease. Develop competence in in silico analyzes of the effect of external risk factors
4. Strengthen knowledge summaries and method assessments for advice and measures.
5. Increased knowledge of how the institute's advice is perceived and implemented, to ensure that information is adapted and disseminated in a good and efficient way.
6. Increased knowledge base for evaluation and optimization of vaccination programmes
7. Make better use of monitoring results and register data for research and evaluation of advice and measures.

### **Plans for the current year:**

Disease burden calculations in collaboration with the Center for Disease Burden.

### **Preparedness**

The division shall monitor the national epidemiological situation and participate in monitoring the international epidemiological situation for infectious diseases, and in doing so keep track of international health threats. The division is responsible for having a national vaccine preparedness. The division must also assist with advice and assessments in connection with environmental and chemical incidents with an impact on the population and changes in the poisoning picture. In the years 2018-2024, the division wants to further strengthen preparedness work. We will build a robust and comprehensive preparedness based on good professional expertise, modern and effective analyses, clear and structured planning and systematic learning.

### Long term initiatives:

1. Develop efficient, robust and modern, high-quality systems for epidemic intelligence, the monitoring and management of health risk factors, outbreaks and incidents.
2. Participation in national and international networks in the field of emergency preparedness in order to strengthen preparedness and clarify our role as an emergency response actor.
3. Strengthen cross-sectoral collaboration to contribute to better national and international health preparedness, and ensure effective interaction, reporting and systematic improvement.
4. Ensure good and effective lines of communication to all relevant stakeholders, quick summaries of knowledge and risk assessments and timely knowledge-based advice in the event of incidents.

### Plans for the current year:

#### *Preparedness plans*

NIPH's emergency planning must align with the guidelines in other national emergency planning, applicable legislation and other guidelines e.g. instructions on cooperation between The Directorate of Health (Hdir), The Directorate For Radiation Protection and Nuclear Safety (DSA) and NIPH. The plan should be coordinated, in particular, with Hdir's internal emergency planning.

During the spring of 2019, FHI will revise the contingency plan for handling external incidents, especially based on the experiences from the contingency exercise Trident Juncture 2018. There is a need to adjust the contingency plan so that the following comes across more clearly:

- NIPH's responsibility, role and interaction with The Norwegian Directorate of Health and relevant actors in other sectors (the Armed Forces, the Police, etc.) in various types of emergency situations, during a national crisis (where the Norwegian Directorate of Health has been delegated coordination authority from the Ministry of Health) and in a war situation, mao in the entire crisis spectrum.
- Internal responsibilities at NIPH during various types of crises, including organization of NIPH's internal crisis group, the role of top management, etc.

#### *Cross-sectoral cooperation*

There is a need to establish closer cooperation across sectors to ensure effective utilization of national emergency resources. During 2019, NIPH will:

- Establish formalized cooperation with other relevant emergency preparedness actors across sectors, especially with the Norwegian Armed Forces (F-SAN/FML), intending to build collaboration within, e.g. outbreak investigation, vaccine preparedness and microbiological laboratory preparedness.
- Further develop the collaboration with the veterinary communities. A health collaboration has already been initiated in several fields, such as microbiological laboratory preparedness. This is a high priority.

#### *Organization of emergency work*

The infection control, environment and health division is in the process of adjusting the structure in the division. The aim is to implement changes in structure during 2019 which will, among other things, ensure organizational robustness for the early detection of incidents and ensure a rapid coordinated response to outbreaks and public health threats.

## Organizational development of the division

In connection with OP in 2016, the division implemented an organization based on a line structure with formalized transverse structures. In the period 2019-2024, the division will focus on achieving greater flexibility in the organization both at management level and among employees in order to fully implement this structure. The distribution of responsibilities must be clarified, and interdisciplinary cooperation must be developed. Further organizational adjustments to facilitate OP's intention will also be possible

### Plans for the current year:

- The organizational structure will be reviewed and necessary adjustments will be made. The process is organized as a project with a working group. The aim is to negotiate a new organizational structure before the summer.



### **3. Plan for goal achievement and execution of assignments from the ministry**

*Description of how the division will work to achieve the goals and tasks given in the disposition letter, including estimated resource use and delivery. Mention of other prioritized activities in the division).*

#### **Selected measures 2019 for follow-up in top management**

Goals and priorities in the business plan 2019 have been transferred to the

Management Portal. The division has primary responsibility for following up on:

- See measures and activities in the Action Portal, filter on "Business plan" and

"Organizational unit»

#### **Tasks and other guidelines and expectations from the award letter**

Special assignments and other guidance and expectations from the award letter 2019 have been transferred to the Management Portal.

The division has primary responsibility for following up on:

- See measures and activities in the Action Portal, filter on "Award Letter" and "Organizational unit"

#### **Other prioritized initiatives in the division**

Priority measures in the area have been transferred to the Management Portal. The division has prioritized these measures in 2019:

See measures and activities in the Action Portal, filter on "Area plan" and "Organizational unit"

## 4. Evaluations

*(Brief description of evaluations that the division is planning, carrying out or following up this year )*

Evaluations	Timeframe	purpose
Risk and vulnerability analysis, preparedness ability	Jan-Feb 2019	Identify vulnerabilities and, on the basis of this, implement measures for improvements

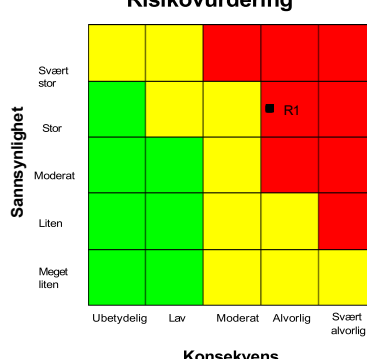
## 5. Risk assessment

(Overall risk assessment of events or conditions that may lead to the division not achieving its goals, as well as tasks associated with risk. Events and conditions can be internal or external.)

### 5.1 Risk of failure to achieve goals

Risikoidentifikasjon og analyse							
Risiko nr	Kritiske suksessfaktorer	Risiko for manglende måloppnåelse	Eksisterende tiltak/merknad til risikoer	S	K	Risiko-nivå	Forslag til nye tiltak
R1	Eksempel: riktig kompetanse	Eksempel: mangel av riktig kompetanse	Eksempel: kompetansevidning	4	4	Høy	Eksempel: strategisk rekruttering
R2							
R3							
R4							
R5							
R6							
R7							
R8							
R9							
R10							
R11							
R12							
R13							
R14							
R15							
R16							
R17							
R18							
R19							
R20							

**Risikovurdering**



**Sannsynlighet**

Svært stor  
Stor  
Moderat  
Liten  
Meget liten

**Konsekvens**

Ubetydelig    Lav    Moderat    Alvorlig    Svært alvorlig

### 5.2 Risk related to specific assignments, statutory and other ongoing tasks

Use the form below to rate assignments that are associated with extra risk:

Special assignments, statutory duties... ..	Risk of failure to achieve goals	Likelihood	Consequence
Tobacco.	Lack of resources	4=Serious	3=Moderate
System for the introduction of vaccines in the public sector	Lack of resources	3=Moderate	3=Moderate
		Velg et element.	Velg et element.
		Velg et element.	Velg et element.
		Velg et element.	Velg et element.

## 6. Description of division of responsibilities in the division

Department/cross-department function	Department Leader	Responsibility
Department of Norwegian Poison Information Center	Mari Tosterud	National advisory and competence body for acute poisonings and the risk of poisoning. The department must provide information, advice and guidance on acute poisonings and the risk of poisoning when something has happened. Operates Giftinformation, which is a 24-hour telephone service for the general public and the health service.
Department of Bacteriology and molecular biology	Anna Hauge	<p>Responsibility for laboratory analyzes and research related to bacteria covered by the institute's reference functions and to antibiotic resistance. Also has responsibility for the national preparedness laboratory related to class 3 microbes.</p> <p>Responsibility for molecular biological analyzes linked to diagnostics, monitoring, outbreak investigation, consultancy and research in the fields of genomics, epigenetics, molecular virology, bacteriology and toxicology.</p>
Department of Infection Epidemiology and Modelling	Birgitte De Blasio	<p>Areas of responsibility:</p> <ul style="list-style-type: none"> <li>*analyze incidence and trends of infectious diseases in Norway</li> <li>*study health effects and carry out economic evaluations of various measures</li> <li>*establishment, operation and development of NGS infrastructure</li> <li>*methodological guidance in epidemiology, biostatistics, health economics, bioinformatics, infection modelling</li> <li>*next-generation digitalisation, analysis and visualization tools</li> <li>*national follow-up of vaccination programs (coverage, effect, safety) and investigation of the need for new vaccines</li> </ul>
Department of Infectious Immunology	Audun Aase	Responsibility for immunological analyzes and research related to infections covered by the vaccination program or the institute's reference functions in medical microbiology.

Department for influenza	Karoline Bragstad	Responsible for national monitoring of influenza and to advise and carry out research in the field of influenza and influenza vaccination. The department additionally performs laboratory analyzes linked to influenza. The department is the national WHO laboratory for influenza and for MERS/SARS.
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Department for quality and laboratory resources	Sigrid R. Eliassen	Responsibility for ensuring that systems for efficient and safe operation, and assisting sustainable quality work. The department must also prepare and implement joint health, environmental and safety work. Furthermore, the department must make arrangements for quality-assured and professionally competent purchases and acquisitions (framework agreements).
Department for air and noise	Johan Øvrevik	Responsibility for research and consultancy in the areas of indoor climate, outdoor air pollution, noise, green areas and tobacco. The department also assists in emergency situations where it emissions to air occur.
Department for environmental exposure and epidemiology	Cathrine Thomsen	Responsibility for research and consultancy that contributes to holistic risk assessments of substances harmful to health. The department conducts research at a high international level on the connection between exposure to environmental toxins and consequences for health, as well as the importance of intestinal flora, nutrition and protective factors in the environment. Responsibility for operation and further development of the biomonitoring laboratory. The department also assists in the chemical preparedness work.
Department for resistance and infection prevention	Hanne Merete Eriksen	Responsibility for giving advice on the prevention of infections and antimicrobial resistance, as well as the correct use of antibiotics nationally and internationally through health analyzes and research.
Department of Pest Control	Preben Ottesen	Responsibility for giving advice and information about pests and disease spreaders that can affect people. Operates the pest phone and is responsible for training and approving pest control.
Department for contamination from food, water and animals	Line Vold	Responsibility for preparedness, advice, monitoring and research of diseases that are contagious from food, water and animals and technical and chemical water hygiene. The department operates several cross-cutting preparedness activities.

<p>Department for infection control registers</p>	<p>Karianne Johansen</p>	<p>Responsibility for national health registers within infection control, including nationally vaccination register, SYSVAK.</p>
<p>Department of Toxicology and risk</p>	<p>Hubert Dirven</p>	<p>Department of Toxicology and risk Hubert Dirven Responsibility for providing research-based advice and perform toxicological risk assessments of chemicals and substances in food and consumer products also in EFSA/ECHA and SCCS participation. Research into mixtures, skin absorption, the nervous system and the immune system/allergy. Responsible for cosmetics side effects register. The department must also assist in the chemical preparedness work.</p>

Department for tuberculosis, blood and sexual infection	Hilde Kløvstad	Responsibility for preparedness, advice, monitoring and research in the field of sexually transmitted infections, blood-borne infections and tuberculosis.
Department for Vaccines	Britt Wolden	Responsibility for the purchase and distribution of vaccines and core tasks within side effect monitoring related to vaccines. Departments are also responsible for national emergency stockpile of vaccines.
Department for vaccine preventable diseases	Didrik Vestrheim	Responsibility for preparedness, advice, monitoring and research of diseases covered by the children's vaccination program and other airborne infections.
Department of Virology	Kristin Modalsli	Responsibility for laboratory analyzes and research related to viruses that are covered by the institute's reference functions. The department is the national WHO laboratory for polio, measles and rubella virus.
Management and staff	Geir Bukholm	Responsibility for providing assistance in finance, HR and research administrative support. In addition, can be contributed in general administrative support.
Program for vaccines and vaccination	Ingeborg Aaberge	Must ensure progress and deliveries in statutory tasks and projects in accordance with the applicable legislation, award letter and strategy, and ensure that the Institute of Public Health exercises its social mission in the vaccine field.
Program for reference functions in medical microbiology	Siri Feruglio	Must ensure overall and efficient operation and development of the reference functions in medical microbiology. The program shall facilitate that the medical microbiological professional environment, broad competence and knowledge transfer are taken care of.



The preparedness program	Karin Nygård	Shall contribute to coordinated and efficient operation and development of operational tasks and projects within preparedness that cross departments.
Forum for genetic engineering methods and genetic analyses	Dominique Caugant	Shall assist departments and area management in priorities in sequencing and bioinformatics and contribute to maintaining and further developing the area's expertise and infrastructure in this field.
Forum for research and health analyses	Per Schwarze	Shall strengthen coordination and manage research and health analysis in the area. The forum will give advice on activities within research and health analysis to the area management.
Infection Surveillance Forum	Frode Forland	The forum is a meeting place for the various departments, a transversal structure for monitoring at the institute. The forum is a professional arena for MSIS (and other registers) where one can also raise larger strategic questions that there is a need to discuss in a further forum
Committee on Global Health	Frode Forland	This is a department-wide committee that is anchored in the Health Services Area. The area of infection control, environment and health has many international projects (32). Good global health preparedness is also important for the national health preparedness.
Committee for Education	Line Vold	
The emergency preparedness committee	Toril Attramadal	