

## List of Research Priorities for Neyshabur University of Medical Sciences

### Communicable disease

1	Communicable disease between humans and animals and recommended
2	Determining the burden of communicable diseases
3	Epidemiology, prevention, early diagnosis, treatment, and care of viral diseases, such as coronavirus (COVID-19), influenza, HIV/AIDS, hepatitis, and HTLV-1
4	Epidemiology, prevention, early diagnosis, treatment for sexually transmitted infections (STI)
5	Epidemiology of water- and foodborne diseases
6	Epidemiology, prevention, early diagnosis, treatment for drug-resistant tuberculosis (DR-TB)
7	Epidemiology and prevention of healthcare-associated Infections
8	Epidemiology, prevention, early diagnosis, insect-borne diseases prevention and treatment (emphasized cutaneous and visceral leishmaniasis, pediculosis)
9	Antimicrobial resistance and the strategies to control it
10	Guidelines for the investigation, record and control of disease outbreaks

### Non-Communicable disease

11	Epidemiology, prevention, early diagnosis, treatment for cardiovascular diseases
12	Burden of noncommunicable diseases and associated risk factors
13	Epidemiology, prevention, early diagnosis, treatment and control of diabetes
14	Epidemiology, prevention, early diagnosis, treatment for prevalent cancers
15	Non-communicable diseases -associated social factors
16	Epidemiology, prevention, early diagnosis, treatment for psychological disorders
17	Epidemiology, prevention and treatment of Metabolic syndrome, obesity and overweight
18	Epidemiology, prevention, early diagnosis, treatment of metabolic diseases in children
19	Epidemiology, prevention, early diagnosis, treatment for thyroid diseases
20	Epidemiology, prevention, early diagnosis, treatment for blood disorder (focused on Haemophilia and Thalassemia)
21	Epidemiology, prevention, early diagnosis, treatment for genetic disorders (focused on investigating environmental factors)
22	Epidemiology, prevention, early diagnosis, treatment for osteoporosis
23	Epidemiology, prevention, early diagnosis, treatment for Digestive diseases (irritable bowel syndrome and fatty liver)

<b>Health promotion and social factors affecting health</b>	
24	Social determinants of health
25	Epidemiology of social problems (with emphasis on marginalization, immigration, single parenthood, etc.)
26	Determining inequalities in physical, mental and social health
27	Determining the distribution of health status in social groups
28	Determining ways to promote healthy lifestyle focused on vulnerable groups
29	Developing a survey system
30	Investigating the influence of housing quality, physical and social environments, and environmental factors on both physical and mental health
<b>Oral and dental hygiene</b>	
31	Oral and dental diseases (epidemiology, risk factors, treatment, prevention and care)
32	Genetics syndromes of oral, maxillofacial diseases
33	Oral Health Surveillance System (OHSS)
34	Dental caries in children and adolescents (epidemiology, risk factors, lifestyle, early diagnosis, treatment, complications, prevention)
35	General health and oral health indicators
36	Water fluoridation (Epidemiology, Risk Factors, Fluorosis in children's teeth)
37	Edentulism (epidemiology, clinical signs, etiology)
<b>Gene therapy and basic sciences</b>	
38	The effects of gene-gene and gene-environment interactions in cardiovascular diseases
39	The influence of environmental and lifestyle factors on the clinical severity of single-gene disorders, including thalassemia, hemophilia, and sensory impairments.
40	Cellular, molecular and genetic mechanisms of drug resistance
41	Cellular, molecular, and genetic studies of the causes and mechanisms of infertility
<b>Nutrition and Food sciences</b>	
42	Assessment of micronutrient and macronutrient status
43	Hospital nutrition
44	Community food security
45	Developing effective strategies for changing eating habits and nutritional behaviors to improve community health

46	Reducing food waste (farm to fork)
47	Optimal use of food waste
48	Managing pesticide and fungicide residues in the food supply
49	Promoting healthy eating patterns with a focus on preventing malnutrition in vulnerable populations
50	Managing foodborne disease and their control strategies
51	The epidemiology of nutritional deficiencies characterized by high salt intake and low fruit and vegetable consumption

### Accidents and disasters

52	Epidemiology and prevention of domestic accidents and incidents
53	Epidemiology and prevention of occupational accidents and incidents
54	Epidemiology of road accidents and incidents
55	The burden of accidents and incidents at home, work, and on the road
56	Implementing effective interventions for unpredictable events such as floods and earthquakes
57	Disaster in physical and mental health
58	Disasters preparedness and response strategies for disease outbreaks
59	Developing crisis Management Skills for Leaders and Staff
60	Improving Health Management in Disaster Response

### Elderliness

61	Enhancing the health and well-being of older adults
62	Osteoporosis, Falls, and Fractures in Older Adults
63	Epidemiology of sleep disorders in the elderly
64	Epidemiology of digestive disorders in the elderly
65	Epidemiology of behavioral and psychological disorders in the elderly
66	Violence against the elderly
67	Epidemiology, prevention, early diagnosis of movement disorders, disability, vulnerability and sarcopenia in the elderly
68	Multimorbidity and its consequences in the elderly
69	Identifying inequalities in physical, mental, and social health among older populations
70	Assessing Nutritional Status and Food Security in Older Adults
71	Assessing the Living Environment for Older Adults in older adults including home and elderly-friendly city

## Mental health

72	Adolescent high-risk behaviors
73	Behavioral and psychological disorders in adolescents and young adults, focused on violence
74	Smoking, addiction and its related psychological consequences (focused on adolescents and young people)
75	Epidemiology, prevention and control of suicide
76	Individual and social determinants of mental health in different age groups
77	Investigating common psychiatric disorders (depression, anxiety, etc.)
78	Examination of mental retardation Intellectual Disability, Attention-Deficit/Hyperactivity Disorder, and Learning Disorders
79	Mental Health and Substance Use Services, Systems, and Policies (A Focus on Primary Care, Specialized Clinics, Community-Based mental health centers, Home Care, and Policy Frameworks) Mental and Behavioral Health Registry
80	Determinants of mental health in specific groups (prisoners, marginalized groups, vulnerable groups, etc.)

## Pharmaceutical sciences, traditional medicine and medicinal plants

81	Identification, Characterization, and Extraction of Active Ingredients for Herbal Medicine Formulation
82	Clinical studies on the effects of medicinal plants
83	Biological effects of medicinal plants (focused on anticancer, hepatoprotective, antioxidant, antimicrobial effects, etc.)
84	Cytotoxic and immunological effects of medicinal plants
85	Drug side effects
86	Challenges in drug supply in hospitals
87	Drug resistance (focused on antibiotics)
88	Evaluating and Modifying Drug Use and Self-Medication Patterns
89	Side effects and medication errors emphasized new drugs
90	Quality assessment of traditional medicines, food, and cosmetics

## Artificial Intelligence and Health Technologies

91	Application of Artificial Intelligence in Health Informatics
92	Management, design, implementation and evaluation of information systems in health
93	Big Data Management and Applications in Health Informatics
94	The role of medical classification and nomenclature systems in health information technology

95	Health Informatics in Education and Research
96	Developing food and packaging applications utilizing agricultural waste-derived nanoparticles and encapsulation technologies
97	Innovative Technologies for Recycling Plastic, Paper, and Glass Compounds
98	Identifying Suitable Landfill Sites for Urban and Industrial Waste with Modern Technologies
99	Design and implementation of noise and air purification systems in urban industries
100	Designing intrinsically safe electronic systems for high-risk urban industries
<b>Environment and health</b>	
101	Developing a comprehensive scientific map of pathogenic environmental factors
102	Spinal discomfort and its causes in different occupations
103	Chemical, Biological, and Physical Agents of Environmental Pollution
104	Community-Based Environmental Health Promotion (CBI)
105	Social Determinants of Employee Health
106	Assessment of Chemical Contaminants in Drinking Water
107	Occupational Safety and Health Management
108	Solutions for Optimized Waste and Wastewater Management with Public Engagement
109	Pesticide and Metal Residues in Nature and Living Organisms
110	Quality control of agricultural products (emphasized pesticide contamination, etc.)
111	Reduction, management, transfer and recycling of volatile organic compounds at gas stations, oil depots and tankers
<b>Health Systems Research (HSR)</b>	
112	Managing Human, Financial, and Equipment Resources in Healthcare
113	Cost-effectiveness of technologies (hardware and software) in a comprehensive health system (health technology assessment)
114	Reproductive Health
115	Cesarean Section and Natural Birth
116	Health of Children, Adolescents, Young People and Middle-Aged Women
117	Improving drug prescription and use in healthcare: An emphasis on antibiotics
118	Tobacco use and substance abuse

119	Domestic violence (focused on children)
120	Exclusive breastfeeding
121	Legal, ethical and regulatory issues in the field of healthcare
<b>Research in education and research in research</b>	
122	Effective interventions in improving medical education
123	Providing health education solutions through mass media
124	Designing educational system evaluation models (a focus on health education)
125	Improving resource utilization in health education programs
126	Allocating healthcare personnel across sectors
127	Faculty responsibilities and Challenges beyond education, research, and health services
128	Evidence-based medicine (EBM)
129	Developing ethics in research
130	Developing appropriate models for using research results in decision-making
131	Strategies for improving scientific productivity and practical application
<b>Developing knowledge of art and health</b>	
132	The effectiveness of art-based interventions for promoting self-care behaviors
133	The effect of art therapy on reducing anxiety
134	Using art-based approaches in medical education
135	The effect of clinical art therapy on quality of life
136	Artistic Practices and Spiritual Health
137	Art-based approaches to enhance health Literacy
138	The role of architecture on health promotion
139	The effect of music on vital signs in hospitalized patients during recovery
140	Health education through stories, poetry and music on the health of target groups
141	Art-Based Approaches to Elderly Self-Care such as reminiscences