



National Focused Open Data (Health Checkup Information) User Manual (ver 4.0)



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Q&A를 Q&A하기

Section 1 Overview

What is yNational Focused Open Data?

go. concept

Nationally-focused open data is open to the public focusing on items that require a high demand for openness from the private sector among the data held by the National Health Insurance Corporation in line with the government 3.0 policy. The nationally-focused open data is the medical history information, drug prescription information, and health checkup information of the national health insurance subscribers accumulated as the NHIS plays the role of the national health insurance subscriber. In order to safely open data, the Corporation excluded or masked personal information and sensitive data, and provided advice regarding the safety of open data through an external expert. The target year of the provided data is from 2002 to 2015, and it is planned to continuously expand the target period in the future. It is hoped that it will contribute to job creation for the public by revitalizing related industries through the opening of national-focused open data.

me. open purpose

첫째 seeks to guarantee the public's right to use public data based on the law and to satisfy the public's right to know about major health and medical information collected, held, and managed by the National Health Insurance Corporation. **둘째** we want to help create new types of business opportunities in the health information-related industry using open national data. **셋째** by opening individual-centered treatment details and drug prescription information to the general public, it is intended to induce medical institutions to provide high-quality medical services. Additionally, the purpose is to strengthen national competitiveness in the health and medical industry due to the development of health information-related industries and to create jobs through new business development.

Progress of development of yNational Focused Open Data



Starting with the establishment of an initial national health information DB by collecting health insurance information for 50 million people across the country for 9 years (2002-2010) in 2011, MOU with 16 institutions including Seoul National University Big Data Center was signed in 2013. A pilot research project was promoted. In 2014, in order to promote data disclosure, consulting on the development of an appropriate fee system for public health information DB disclosure, the yNational Health Information Data Provision Operational Regulation (Regulation No. 130)y was enacted. In January 2015, application for use of sample cohort DB and public health A dedicated website was developed to support information DB researchers. In December 2015, for the purpose of opening to the private sector, the government-focused open data consisting of medical history information, drug prescription information, and health examination information data sets were established and provided, and additional data 2014-2015 data were updated in December 2016 (current). was continuously provided.

참조하세요



y 국민건강정보

Analyze the data held by the National Health Insurance Corporation as big data and open the data.

Data discovery and creation

an adversarially built population

DB includes information such as qualifications and insurance premiums, health checkup results and questionnaires, detailed treatment history (hospital/clinic usage history), and long-term care for the elderly. The total number of tables is 3,544 and the capacity is about 21,236 GB.

Section 2 Direction of National Focused Open Data Composition

Criteria for selection of country-focused open data

go. Safe data-oriented openness (Safety) - focus on personal information protection

1) Excluding personally identifiable information that can identify an individual by itself

Personal identification information that can identify an individual (ex. unique identification information (resident number, national health insurance qualification number, etc.), information that can easily identify an individual (name, phone number, address, date of birth, photo, etc.), etc. was excluded from the country-focused open data items.

2) Application of personal information de-identification processing technique

Data with the possibility of re-identification by pre-filtering whether or not personally identifiable information is included in combination with other information Identification was excluded either by exclusion from the subject of disclosure or by applying a de-identification processing technique suitable for individual items.

구 분	내 용
표본의 추출	• Randomly selected 1 million patients for treatment and health checkup by year • 1 million patients for treatment, prescription medication, and health checkup were randomly selected for each year
자료별 조합제한	• This data is a cross-sectional data and provided with different personal serial numbers and claim serial numbers for each DB (not linked)
개인식별자 제거	• Resident registration number (13) • Personal serial number (8 digits)
범주화	• Age grouping • Age • Age group (units of 5 years old) • 85 years old and older are categorized as '85 years old or older'
데이터 마스킹	• Large classification of sensitive disease D, O, P, X, Y codes (5 types, 114) (Example: D***) • D (7 codes): benign neoplasms of male reproductive organs • O (81 codes): pregnancy, childbirth and postpartum, ectopic pregnancy, etc. • P (4 codes): Other congenital infections and parasitic diseases • X (1 code): accidental poisoning and exposure to alcohol • Y (2 codes): special purpose code, sexual abuse by force, etc.
최상위 지역코드 제공	• Provided limited to provincial and provincial codes in consideration of the recognition of samples living in small areas (17 provincial and provincial units provided)

me. Utilization-oriented data openness - user-tailored data opening

For national-focused open data, a demand survey related to open data items and methods of provision was conducted, and the open items and provision types were formed by reflecting the results of the demand survey. However, some of the items requested through the demand survey were classified as sensitive data and the opening was restricted.

All. Objective and reliable data openness (Reliability)

In order to ensure that nationally-focused open data can be trusted and used in various fields, items with low reliability or difficult to verify data values from the time of discovery of open data were excluded from open items. For example, items directly entered by the examinee among the health checkup information questionnaire items are incorrect in the data value.

Efforts were made to ensure objectivity and reliability through the process of refining the flow .

Open Dataset Generation Form

go. Open dataset creation method and scope

The national-focused open data is information on the medical treatment history, drug prescription history, and health check-up results of 1 million national health insurance subscribers from 2002 to 2015. A random screening technique was applied to screening 1 million people, and this manual is composed of information on health checkup information.

For health checkup information, one million national health insurance subscribers who underwent a health checkup in the given year are randomly selected, and basic information and checkup result information of the selected subscribers are extracted through the item selection process to construct a national health information dataset. did

me. Open dataset update cycle

All open data sets of country-focused open data are updated annually by adding data from two years ago in December every year. For example, data for 2014 is added in December 2016.

All. Open data set provision form

The data structure (format) of the dataset is CSV (Comma Separated Value), and it is divided by year for the convenience of data use and download.

Data is provided in a formatted format.

Section 3 State-focused open data details

yHealth checkup informationy

1. Concept and composition

1) Concept

Health check-up information refers to the number of employees enrolled in the National Health Insurance system, dependents over 40 years of age, and local insured persons who are the head of the household, from 2002 to 2015 (14 years).

The results of the yGeneral Medical Examinationy of local insured persons over the age of 40 and those who have reached the age of 40 and 66 among those subject to these general health examinations will receive

This is the result of the "Life Transition Period Health Checkup".

구분	검진대상		검진주기
	차	차	
General health checkup	<div>• Local head of household, member of household over 40 years of age</div> <div>• Employed subscribers, workers over 40 years of age</div>	<div>1st examination result</div> <div>Suspected disease (high risk group)</div>	<div>Once in 2 years</div> <div>(Non-office positions every year)</div>
life transition period medical examination	<div>• Subjects for general health examination who have reached the age of 40</div> <div>• Subjects for general health examination who have reached the age of 66</div>	All 1st examinees	Applicable age

y Workplace subscribers and local householders are eligible for health checkup without age restrictions. However, in this health examination information, the examination results of those under the age of 20 were excluded.

2) Configuration

With a total of 34 variables, the serial number of the subscriber and y수진자 기본정보y basic information such as gender, age, residence, city and province code y건강검진결과 및 문진정

보 Body size information such as body, weight, waist circumference, and pathological examination results such as blood pressure, blood sugar, cholesterol, urine protein, and gamma GP.

It consists of the results of other diagnostic tests such as oral examinations, as well as the results of questionnaires about drinking and smoking.

2. Description of open items

NO	제공항목			속성정보		비고
	표준 항목명	영문명	설명	표현형식 단 위	예시	
1	base year do	HCHK_YEAR	<div>• Provide the base year of the information</div>	YYYY	2009	
2	subscriber serial number like	IDV_ID	<div>• Serial number assigned to the subscriber</div> <div>1 ~ 1,000,000</div>	N	1	
3	sex nose de	SEX	<div>• provide the gender of the subject of the information;</div> <div>Gender: 1 (male), 2 (female)</div>	N	1	•
4 ages	code (5 three units)	AGE_GROUP	<div>• In the base year, the age of the examinees is grouped by age 5 (categorization)</div> <div>code separated by</div> <div>Grouped by 5-year-olds, 85+ grouped by 85+</div> <div>From 2002 to 2013</div> <div><div>그룹</div><div>연령대</div><div>그룹</div><div>연령대</div></div>		11	•

			<table><tr><td>1</td><td>20-24 years old</td><td>8</td><td>55-59 years old</td></tr><tr><td>2</td><td>25-29 years old</td><td>9</td><td>60-64 years old</td></tr><tr><td>3</td><td>30-34 years old</td><td>10</td><td>65-69 years old</td></tr><tr><td>4</td><td>35-39 years old</td><td>11</td><td>70-74 years old</td></tr><tr><td>5</td><td>40-44 years old</td><td>12</td><td>75-79 years old</td></tr><tr><td>6</td><td>45-49 years old</td><td>13</td><td>80-84 years old</td></tr><tr><td>7</td><td>50-54 years old</td><td>14</td><td>85+</td></tr></table>	1	20-24 years old	8	55-59 years old	2	25-29 years old	9	60-64 years old	3	30-34 years old	10	65-69 years old	4	35-39 years old	11	70-74 years old	5	40-44 years old	12	75-79 years old	6	45-49 years old	13	80-84 years old	7	50-54 years old	14	85+															
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			<div>• Since 2014</div> <table><tr><th>그룹</th><th>연령대</th><th>그룹</th><th>연령대</th></tr><tr><td>1</td><td>0-4 years old</td><td>10</td><td>45-49 years old</td></tr><tr><td>2</td><td>5 to 9 years old</td><td>11</td><td>50-54 years old</td></tr><tr><td>3</td><td>10-14 years old</td><td>12</td><td>55-59 years old</td></tr><tr><td>4</td><td>15-19 years old</td><td>13</td><td>60-64 years old</td></tr><tr><td>5</td><td>20-24 years old</td><td>14</td><td>65-69 years old</td></tr><tr><td>6</td><td>25-29 years old</td><td>15</td><td>70-74 years old</td></tr><tr><td>7</td><td>30-34 years old</td><td>16</td><td>75-79 years old</td></tr><tr><td>8</td><td>35-39 years old</td><td>17</td><td>80-84 years old</td></tr><tr><td>9</td><td>40-44 years old</td><td>18</td><td>85+</td></tr></table>	그룹	연령대	그룹	연령대	1	0-4 years old	10	45-49 years old	2	5 to 9 years old	11	50-54 years old	3	10-14 years old	12	55-59 years old	4	15-19 years old	13	60-64 years old	5	20-24 years old	14	65-69 years old	6	25-29 years old	15	70-74 years old	7	30-34 years old	16	75-79 years old	8	35-39 years old	17	80-84 years old	9	40-44 years old	18	85+			
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5	Sidoko de	BEEN	<div>• State code of the examinee's residence</div> <div>As Sejong Special Self-Governing City was newly incorporated from 2012, 2011</div> <div>The item does not exist in the data up to</div> <table><tr><th>코드명</th><th>시도명</th><th>코드명</th><th>시도명</th></tr><tr><td>11 Seoul</td><td></td><td>42 Gangwon-do</td><td></td></tr><tr><td>26 Busan</td><td></td><td>43 Chungcheongbuk-do</td><td></td></tr><tr><td>27 Daegu Metropolitan City</td><td></td><td>44 Chungcheongnam-do</td><td></td></tr><tr><td>28 Incheon Metropolitan City</td><td></td><td>45 Jeollabuk-do</td><td></td></tr><tr><td>29 Gwangju</td><td></td><td>46 Jeollanam-do</td><td></td></tr><tr><td>30 Daejeon</td><td></td><td>47 Gyeongangbuk-do</td><td></td></tr><tr><td>31 Ulsan Metropolitan City</td><td></td><td>48 Gyeongangnam-do</td><td></td></tr><tr><td>36 Sejong Special Self-Governing City 49 Jeju Special Self-Governing Province</td><td></td><td></td><td></td></tr><tr><td>41 Gyeonggido</td><td></td><td></td><td></td></tr></table>	코드명	시도명	코드명	시도명	11 Seoul		42 Gangwon-do		26 Busan		43 Chungcheongbuk-do		27 Daegu Metropolitan City		44 Chungcheongnam-do		28 Incheon Metropolitan City		45 Jeollabuk-do		29 Gwangju		46 Jeollanam-do		30 Daejeon		47 Gyeongangbuk-do		31 Ulsan Metropolitan City		48 Gyeongangnam-do		36 Sejong Special Self-Governing City 49 Jeju Special Self-Governing Province				41 Gyeonggido				N	26	•
코드명	시도명	코드명	시도명																																											
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6	kidney (5cm step <small>atomach</small>)	HEIGHT	<div>• The examinee's height (in units of 5CM)</div> <div>ÿ Ex) 100~104CM -> 100CM</div>	N/Cm	140																																									
7	weight (5Kg only <small>atomach</small>)	WEIGHT	<div>• The examinee's weight (in units of 5KG)</div> <div>ÿ Example) 25~29KG -> 25KG</div>	N/Kg	45																																									
8	waist two Re	WAIST	<div>• Examinee's waist circumference</div> <div>ÿ Waist circumference was added as a health checkup questionnaire in 2008.</div> <div>Therefore, if the base year is from 2002 to 2007, the corresponding item value is missing.</div> <div>processed and served</div>	N/Cm	82																																									
9	Vision (left)	SIGHT_LEFT	<div>• Vision in the examinee's left eye</div> <div>It is expressed as a value between 0.1 and 2.5. Visual acuity below 0.1 is 0.1, and blindness is written as 9.9</div>	N	0.5																																									
10	Vision (right)	SIGHT_RIGHT	<div>• Vision in the examinee's right eye</div> <div>It is expressed as a value between 0.1 and 2.5. Visual acuity below 0.1 is 0.1, and blindness is written as 9.9</div>	N	0.5																																									

11	Hearing (left)	HEAR_LEFT	<ul style="list-style-type: none">Hearing 1 (normal), 2 (abnormal) in the subject's left ear	N	1	
12	hearing ability (right)	HEAR_RIGHT	<ul style="list-style-type: none">Hearing in the examinee's right ear 1 (normal), 2 (abnormal)	N	1	
13	systolic <small>Blood pressure</small>	BP_HIGH	<ul style="list-style-type: none">The heart contracts with the examinee's maximum blood pressure, and Intravascular pressure when fluid is pumped into the arteries	N/mmHg	140	
14	diastolic <small>Blood pressure</small>	BP_LWST	<ul style="list-style-type: none">The patient's diastolic blood pressure at the time of completion of the heart	N/mmHg	81	
15	whole meal blood sugar (fasting blood sugar)	BLDS	<ul style="list-style-type: none">Blood sugar (concentration of glucose in 100ml of blood) level before the examinee's meal	N/mg/dL	94	
16	total cole sterols	TOT_CHOLE	<ul style="list-style-type: none">Sum of ester-type and non-ester-type (free) cholesterol in serum Normal value is 150-250 mg/dL, about 1/3 of which is non-ester-type (free) cholesterol, and the rest is cholesterol ester.	N/mg/dL	164	
17	triglyceride	TRIGLYCERIDE	<ul style="list-style-type: none">Means simple lipids or neutral lipids It is a natural product made by combining glycerol with tri-molecular fatty acids as esters. It has the widest distribution among the fat derivatives that can be found in Normal value is 30~135mg/dL (0.34~1.52-mmol/γ) γ Since the triglyceride item has been added as a health checkup questionnaire since 2008, if the base year is from 2002 to 2007, the item value is treated as missing and provided.	N/ mg/dL	94	
18	HDL cholesterol	HDL_CHOLE	<ul style="list-style-type: none">Cholesterol in HDL (High Density Lipoprotein) The normal value is 30~65mg/dL, a component that returns the cholesterol drawn to the cells with small particles of cholesterol to the liver and removes the bad cholesterol that has accumulated on the walls of blood vessels. γ Since the HDL cholesterol item has been added as a health checkup questionnaire since 2008, if the base year is from 2002 to 2007, the item value is provided as missing.	N/ mg/dL	45	
19	LDL calls leste role	LDL_CHOLE	<ul style="list-style-type: none">Cholesterol in LDL (Low Density Lipoprotein) If the amount is excessively increased with very large particles of cholesterol, blood A component that accumulates on the tube wall and causes arteriosclerosis or various diseases If it is higher than 170mg/dL, it is generally regarded as hyperLDLemia. γ Since the LDL cholesterol item has been added as a health checkup questionnaire since 2008, if the base year is from 2002 to 2007, the item value is provided as missing.	N/ mg/dL	Example 150 Example 2130	
20	hemoglobin	HMG	<ul style="list-style-type: none">globin as a pigment protein present in blood or blood cells It is composed of (globin) and heme (heme) and serves as an oxygen carrier in the blood.	N/ g/dL	15.3984375	
21	Urine Protein OLIG_PROTE_CD		<ul style="list-style-type: none">Protein in the urine 1(-), 2(±), 3(+1), 4(+2), 5(+3), 6(+4)	N	1	
22	Serum reatinine	CREATININE	<ul style="list-style-type: none">Creatinine is a dehydrated product of creatine, which is a species of endogenous anabolic Excreted by the kidneys as a malic product, its increase or decrease is related to muscle growth and movement regardless of food Serum creatinine concentration increases due to renal dysfunction Normal value 0.8~1.7mg/dL γ Since the serum creatinine item has been added as a health checkup item since 2008, if the base year is from 2002 to 2007, the item value is provided as missing.	N/ mg/dL	0.8	
23						

비고란에 표시가 되어 있는 개방항목의 경우 If the name of the individual code value is provided, the server load and download speed decrease due to the increase in data amount.

Only the code value is provided due to a problem such as:

γ Since administrative districts are each coded by year, changes should be thoroughly reviewed and utilized. For example, in the case of Sejong Special Self-Governing City, as it was newly incorporated from 2012, there is no corresponding item in the data up to 2011.

γ The health checkup information is the main results and questionnaire response data of the 1st general health checkup and life-transition health checkup (2008-) for the examinee in the relevant year, and data on the general health checkup of medical benefit recipients are not included.

γ Since major examination items were changed due to the reorganization of the health examination system in 2009, changes such as yearly health examination system, health examination items, questionnaire items and types, and variable names should be thoroughly reviewed and utilized.

구분	2002-2007년	2008년	2009-2015년
kidney			
weight			
Waist circumference			
systolic blood pressure			
diastolic blood pressure			
Pre-meal blood sugar (fasting blood sugar)			
total cholesterol			
triglycerides (triglyceride)			
HDL cholesterol			
LDL cholesterol			
hemoglobin			
urine protein			
serum creatinine			
(Serum Geotee) AST			
(Serum Giot) ALT			
Gamma GT			

γ Triglyceride, HDL cholesterol, LDL cholesterol, and serum creatinine data are recorded from 2008 γ LDL cholesterol from 2012
The calculated and measured values of the roll are integrated. Calculated with total cholesterol, HDL cholesterol, and triglyceride values

Section 4 How to download country-focused open data

By accessing the public data open service (<http://nhiss.nhis.or.kr/op/it/index.do>), you can conveniently download national-focused open data.

Introduction of how to use public data open services

- 1) 단계 Access the website for opening country-focused open data and select the "Download" menu on the first screen

The screenshot shows the NHISS website with the '다운로드' (Download) menu highlighted. The page content includes a large heart icon and text about the public data open service, which aims to provide data for research and policy-making. The '다운로드' menu is also highlighted in the top navigation bar.

공공데이터 개방서비스 첫 화면에서 다운로드 메뉴 선택

- 2) **단계** Select the information and year you want to download from among medical history, drug prescription, and health checkup information

1 다운로드

2 연도선택

3 다음단계

다운로드를 원하는 정보와 연도를 선택하고 다음단계 버튼을 클릭함

- 3) **단계** Enter brief user information such as age group, gender, user residence (province and province), purpose of use, etc. (The main user base and purpose of use of open data users are collected and reflected in the establishment of policies related to data provision in the future. want to)

연령, 성별, 지역, 사용목적 등 간단한 설문작성

- 4) **단계** Go to the final download screen and download the attached file. The attached file includes the user's manual and data for the year selected by the user.

첨부파일 내 선택한 연도의 데이터 및 사용자 매뉴얼이 포함됨

Section 5 User Support Matters

Provide national-focused open data utilization guides and examples

Through the website for opening national-focused open data, frequently asked questions from users are organized and provided as a guide for use. In addition, by providing various domestic and foreign cases developed using national-focused open data, we support the effective use of data by the people who want to utilize national-focused open data.

Support for online inquiry function using the website for opening national-focused open data

You can make an online inquiry related to the use of country-focused open data through the 'Inquiry' function on the website for opening national-focused open data. In addition, if there are any suggestions or errors related to data use, a function to report it to the manager is provided to enable effective communication with users.

Support for providing demo data before downloading country-focused open data

By allowing the user to check the demo data of the relevant information before downloading the country-focused open data, the user can
User convenience is increased as it can be checked in advance whether information is included in the country-focused open data.

Q&A Q&A

Do I have to go through a separate application and examination process to utilize the nationally-focused open data?

No. According to the user manual, you can access the National Health Insurance Data Sharing Service (NHSS) web page and download it freely.

There is no need to go through the application and review process.

Can it be used for commercial purposes, such as opening medical service-related applications or sites by utilizing national-focused open data?

It is possible. State-focused open data is public data that can be freely used by the private sector and is not in conflict with individual laws (medical law, etc.)
It can be used for various purposes within the above.

I am curious about the usable range of open country-focused data. Can it be used for academic and research purposes?

In order to be used for academic and research purposes, health-related data on a large number of samples must be provided. However, country-focused open data is available through the web.
It is impossible to provide a large amount of data because the information is provided. For this reason, even in the construction process, partial editing or processing of data was performed. In addition, since the data is provided to the general public, it is only provided to academic researchers after being reviewed.
The number of open items is smaller than that of data. In conclusion, I think it would be more effective to use the sample research DB that the National Health Insurance Corporation has built and provided for academic and research purposes.

고유식별정보

to uniquely identify an individual in accordance with the law

1) Resident, etc.

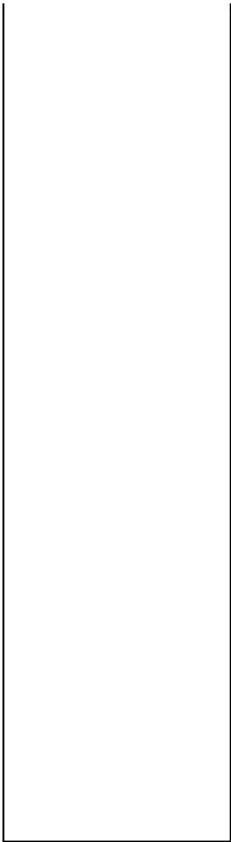
Lock number
Passport number
Luck

License number of previous driver's

license
Refers to alien registration number

(Personal Information Protection Act Enforcement
Decree Article 19 (Scope of Uniquely Identifiable
Information))

For detailed information on what kind of health checkup results are provided, refer to Section 3 National Health Information Data Details - 4 Health Checkup Information- a. concept and phrase Gender- 1) Refer to the concept"



건강검진이란

- For the purpose of checking the health status, preventing and early detection of diseases, medical examinations such as medical examinations, physical examinations, diagnostic examinations, pathological examinations, and radiology examinations are conducted through a health examination institution.

thing

(Health Examination Framework Act Article 3 (Definition) No. 1)

국가건강검진이란

- State and local governments health check-up

§ Health checkup for infants and toddlers in accordance with the Mother and Child Health Act

§ Health checkup for infants and toddlers in accordance with the Infant Care Act

§ Cases of elementary, middle and high school students in accordance with the School Health Act

Intensive examination § Youth health checkup in accordance with the Youth Welfare Support Act

- Health checkup under the National Health Insurance Act § General health checkup under the Occupational Safety and Health Act

§ Health checkup in accordance with the Medical Benefit Act

γ Cancer screening according to the γCancer Control Actγ

γ Health checkup in accordance with γElderly Welfare Actγ -

Other health checkups prescribed by Ordinance of the Ministry of Health and Welfare

γ **요단백 판정 기준**

If protein is excreted more than 500 mg per day for adults and 4 mg or more per square area of body surface area for 1 hour in children, evident proteinuria. dipstick method) to the degree of discoloration to green within 60 seconds after soaking urine in the test paper. Silver is +3, 1000mg/dL is judged as +4

γ **시력 측정 방식**

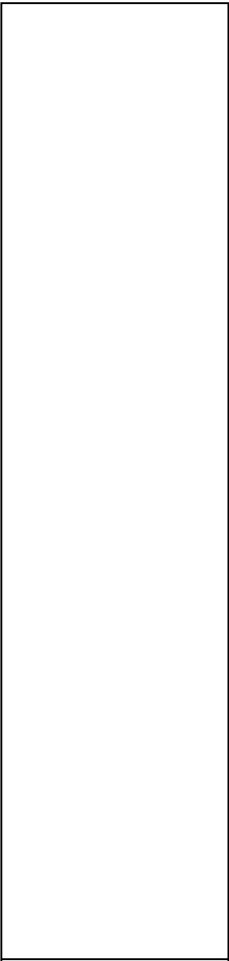
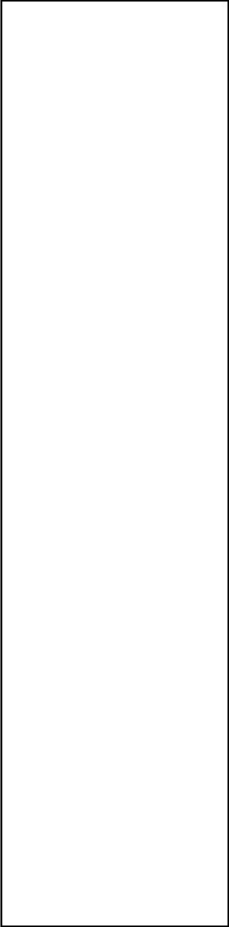
The function of the eye to distinguish the shape or existence of an object is called the angle of view, and the degree of visual acuity is to measure the distance between the first two points that can be distinguished from two points as two points, and this is displayed as a visual and the reciprocal expressed as a quantity proportional to

γ **청력이란**

The decibel of the auditory sense to the intensity of sound.

Displayed in (dB) 0

dB for normal people, the number increases with hearing loss



̣ W**착아우식증이란**

Commonly known as tooth decay, the cause is that the ingested food is ingested by microorganisms in the mouth and excreted to form acids, and the acids A disease that corrodes calcium, a component of teeth

̣ W**착아마모증이란**

A condition in which the gums at the root of the tooth are lowered and the exposed tooth surface is worn out, and the gums are lowered and the dentin in the cement vagina is exposed.

̣ W**착석이란**

Dental plaque, saliva and dental It is made by depositing minerals such as calcium and phosphorus in the silver fissure (the space between the teeth and gums).

orag