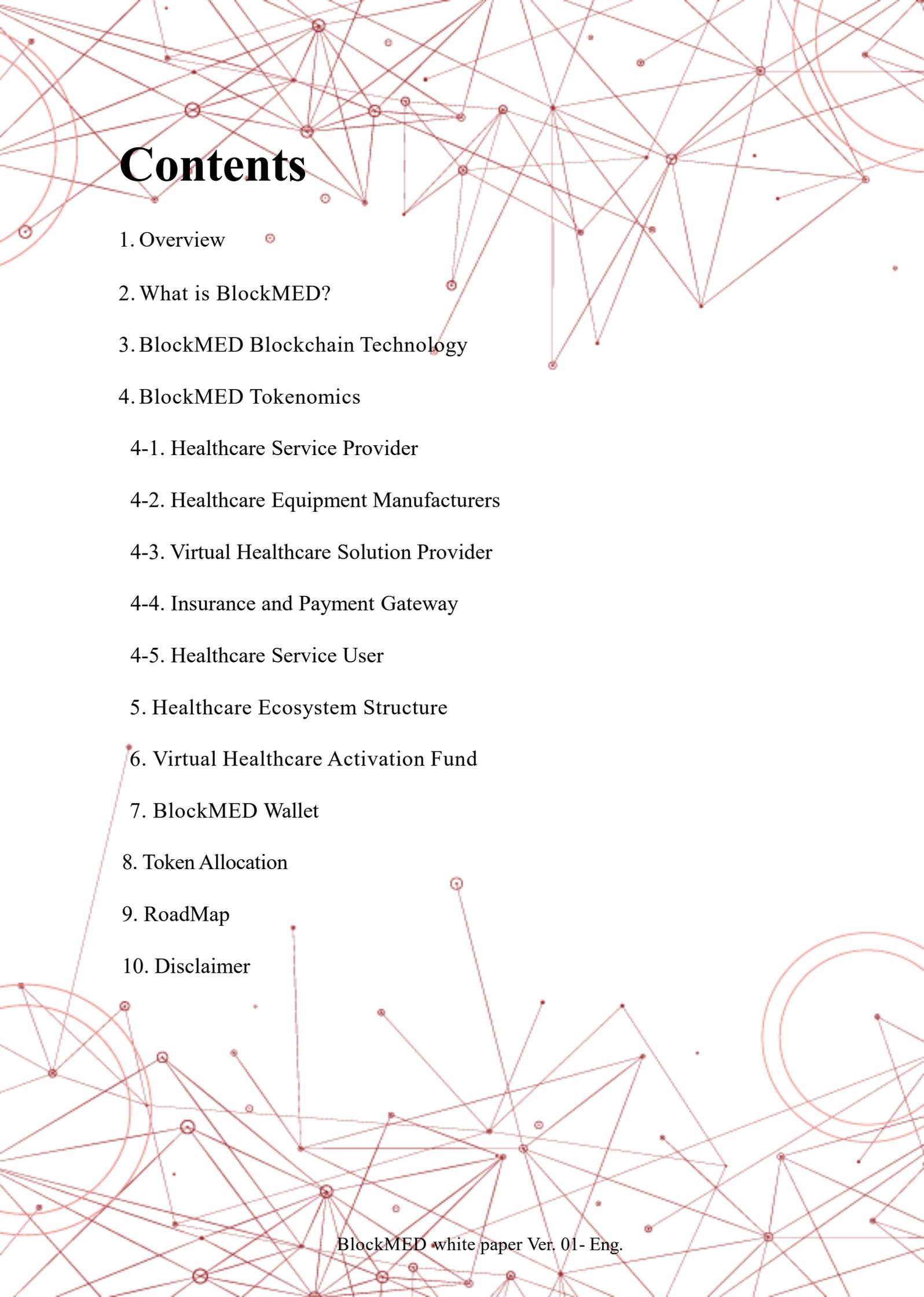




# **BlockMED**



# Contents

1. Overview
2. What is BlockMED?
3. BlockMED Blockchain Technology
4. BlockMED Tokenomics
  - 4-1. Healthcare Service Provider
  - 4-2. Healthcare Equipment Manufacturers
  - 4-3. Virtual Healthcare Solution Provider
  - 4-4. Insurance and Payment Gateway
  - 4-5. Healthcare Service User
5. Healthcare Ecosystem Structure
6. Virtual Healthcare Activation Fund
7. BlockMED Wallet
8. Token Allocation
9. RoadMap
10. Disclaimer

# 1. Overview

During the Covid19 pandemic, one of the biggest global concerns was virtual healthcare.

As hundreds of millions of people around the world were being quarantined at the peak of the pandemic, there were many cases in which people could have been saved if only simple medical examination and treatment were available. These numbers are estimated to be about 2 million.

As a result, the opinion of the world has shifted dramatically. And now, it is no longer seen as an option. Instead, virtual healthcare is seen as a global agenda that must be introduced for the well-being of mankind.

Likewise, in Korea through the pandemic, the demand and consensus for virtual healthcare were greatly formed among medical institutions, KDCA (Korea Disease Control and Prevention Agency), as well as the public, creating a social atmosphere in which virtual healthcare could be initiated.

We need to recognize the importance of virtual healthcare and the provision of medical services worldwide.



전체 정책·행정 의원 병원 제약·유통 의료기기·IT 약사·약국 유관산업 해외 기사재보

홈 > 기획연재 > 학술·기획특집

## [창간특집] 코로나 엔데믹과 비대면 진료 패러다임 변화

의학신문 기자 | © 입력 2022.05.27 06:47 | 수정 2022.05.27 13:17 | 댓글 0

### 비대면 진료 대비한 대응체계 갖춰야



신재용 연세대의대 예방의학교실 조교수

[의학신문·일간보사] 야외에서 마스크를 벗었다. 아이들의 환한 웃음을 본지 어느덧 2년이라는 세월이 지나가 있었다. 그러나 여전히 코로나에 학습된 익숙함으로 인해 나도 모르게 대중이 많은 장소에서는 마스크를 고쳐쓰게 된다. 이제 코로나는 엔데믹(endemic)으로 전환되었다. 관련하여, 의료시스템도 코로나에 적응하며 운영될 것이다. 그러나 이전으로 돌아가지 않을 거란 것은 우리 모두가 다 아는 사실이다.

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[Source: Medical News

<http://www.bosa.co.kr/news/articleView.html?idxno=2174413>

UPDATED: 2022-05-27 17:50 (금)

## MEDICAL Observer

정책 학술 제약 병원·개원가 CME 인터뷰 포도뉴스

보건복지 | 건보공단·심평원 | 기획특집 | 칼럼·오피니언

홈 > 정책 > 건보공단·심평원

## 한시적 비대면 진료 2년째, 하루 평균 5166건 이뤄져

김나현 기자 | © 입력 2022.03.24 14:09 | 댓글 0

### 의원급 의료기관 77%...내과·일반의·소청과·가정의학과 순 10명 중 7명은 50대 이상 환자, 60대 진료건수 최다

[메디칼업저버 김나현 기자] 코로나19(COVID-19)로 한시적으로 허용된 비대면진료가 2년간 하루 평균 5166건 시행된 것으로 확인됐다.

의원이 전체 청구기관의 77%를 차지했으며 내과와 일반의, 소아청소년과 순으로 청구액이 많았다.

더불어민주당 신현영 의원이 보건복지부로부터 제출받은 '비대면 진료 현황' 자료에 따르면 2020년 2월 24일부터 2022년 1월 5일까지 총 1만 3252개소 의료기관에서 352만 3451건, 437억 6344만원의 비대면 상담·처방이 이뤄졌다. 평균 매일 5166건의 비대면 진료가 이뤄진 것이다.

(단위 : 개소, 건, %, 천원)

| 의료기관종별 | 청구기관 수 | 진료건수      | 비율   | 전향료(간보보)   |      |           |      |
|--------|--------|-----------|------|------------|------|-----------|------|
|        |        |           |      | 개          | 비율   | 총진        | 비율   |
| 전체     | 13,252 | 3,523,451 | 100  | 43,763,444 | 100  | 5,878,877 | 100  |
| 상급종합병원 | 34     | 247,074   | 7.0  | 3,792,016  | 8.7  | 148,885   | 2.5  |
| 종합병원   | 217    | 302,433   | 8.6  | 4,080,419  | 9.3  | 278,868   | 4.7  |
| 병원급 소계 | 661    | 193,450   | 5.5  | 2,178,714  | 5.0  | 147,672   | 2.5  |
| 의원급 소계 | 12,350 | 2,780,485 | 78.9 | 33,712,297 | 77.0 | 5,303,451 | 90.2 |
| 의원급 소계 | 12,350 | 2,780,485 | 78.9 | 33,712,297 | 77.0 | 5,303,451 | 90.2 |

\* 청구기관 수 총계와 소계는 의료기관 공백 단계에 따라 요청기관 개수 공백이 제거된 값이라 차이가 있음.  
[자료] 신현영 의원 | 보건복지부로부터 제출받은 자료들 | 청구일: 2020.02.24 - 2022.01.05. 진료분

한시적 비대면 진료 청구현황(청구기관 수, 진료건수, 진찰료)

Source:

medical observer:

<http://www.monews.co.kr/news/articleView.html?idxno=311256>



According to CISION PR Newswire, one of the leading media outlets in North America, the North American market has little objection to such virtual healthcare, and the medical regulatory agency has already integrated virtual healthcare into the metaverse concept.

In developed countries in the West, the following technologies and hardware are being applied in a complex way, rather than simply being a virtual healthcare.

- **Tech solutions applied**

AR(Augmented Reality)

VR(Virtual Reality)

- **Hardware integrated**

VR Headsets

AR Devices

Mixes Reality platforms

With these changes and developments in the market, the virtual healthcare market has now been classified as part of the metaverse, and it is expected to grow to a market of about 71.2 billion dollars (about 70 trillion won) per year by 2030.

Furthermore, CISION PR Newswire released size-based market forecasts by 2030 for each major country based on the current market growth rate.

Asia Pacific Metaverse in Healthcare Market by **Country**, 2022-2030 (Value US\$ Million)

- India
- China
- Japan
- South Korea
- Australia & New Zealand

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## Metaverse in Healthcare Market worth \$71.2 Billion by 2030 - Exclusive Report by InsightAce Analytic Pvt. Ltd.

**INSIGHT ACE**  
Analytic

NEWS PROVIDED BY  
InsightAce Analytic Pvt. Ltd. ->  
May 25, 2022, 07:35 ET

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f t in y e p

[Source: Cision PR newswire](#)

<https://www.prnewswire.com/news-releases/metaverse-in-healthcare-market-worth-71-2-billion-by-2030--exclusive-report-by-insightace-analytic-pvt-ltd-301554870.html>

## 2. What is BlockMED?

BlockMED is an innovative solution for the most important components of the rapidly growing virtual healthcare and metaverse medical markets in terms of transparency, prevention of falsification and health record breaches, and sharing of medical data in a unified format. This will lead to the creation of a virtual healthcare market by integrating and operating systems such as organizations, institutions, governments, hardware manufacturers, insurance companies, and payment service providers.

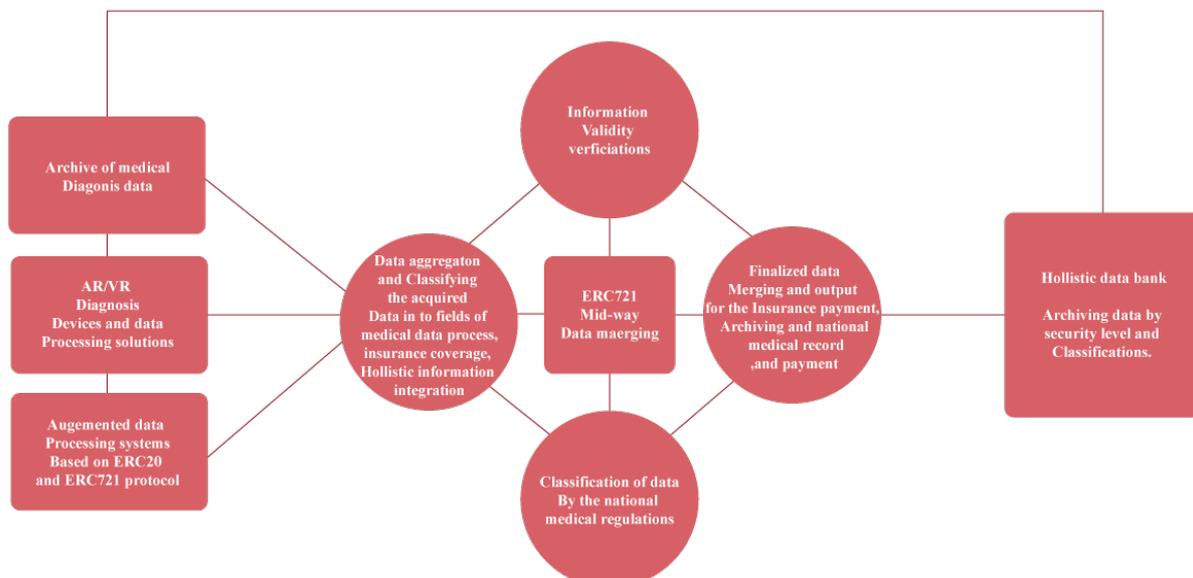
Through this block chain-based transparent information network, the interests of each participating group are guaranteed in all medical activities to increase participation motivation, and ultimately, it is designed with the goal of concentrating the most benefits on the end consumer, the medical service user.

## 3. BlockMED Blockchain Technology

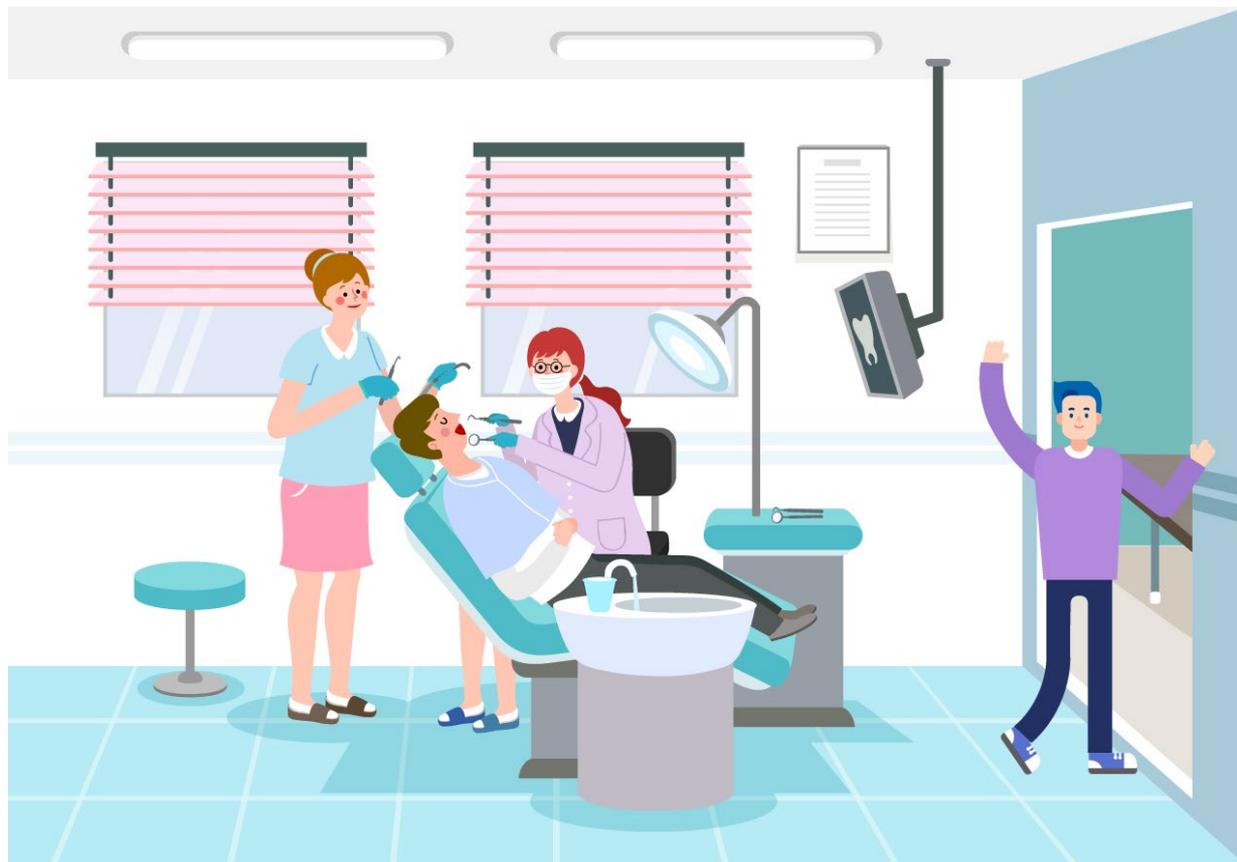
In order to build an integrated system which can maintain the most important components of virtual healthcare, BlockMED adopted the most stable and sustainable Ethereum-based ERC20 and ERC721 protocols among blockchain technologies.

$$\begin{aligned}
 f(x) &= \sum_{j=0}^2 y_j \cdot L_j(x) \\
 &= y_0 L_0 + y_1 L_1 + y_2 L_2 \\
 &= 35 \left( \frac{1}{6} x^2 - \frac{7}{6} x + 2 \right) + 135 \left( -\frac{1}{2} x^2 + \frac{5}{2} x - 2 \right) + 218 \left( \frac{1}{3} x^2 - \frac{4}{3} x + 1 \right) \\
 &= 18 + 6x + 6x^2
 \end{aligned}$$

[mathematical formula -01 : Thesis and basic formula for processing and archiving data]



## 4. BlockMED Tokenomics



### 4-1. Healthcare Service Provider

This group includes general hospitals, public health centers, and pharmacies, and through AR or VR equipment provided by hardware and solution providers, it is possible to accurately examine remote patients without time and space limitations. In addition, prescription information is delivered to the user's desired pharmacy based on medical information, providing a one-stop service from manufacturing to drug.

### 4-2. Healthcare Equipment Manufacturers

Medical equipment manufacturers provide required AR and VR devices and software linked to block chains for medical treatment in medical service providers which enables virtual healthcare and thus, generate revenue from this.



### **4-3. Virtual Healthcare Solution Provider**

It provides a solution in the form of central operating software based on blockchain ERC-20 and ERC-721 to hardware for virtual healthcare, so that the obtained medical information is transmitted and processed to each necessary institution without breach.

### **4-4. Insurance and Payment Gateway**

BlockMed significantly reduces the time and number of documents required to complete the insurance application and insurance payment process that occur while using medical services. Besides, the entire process is completed without information breach, and proceeds one-stop from insurance payment to insurance payment. All costs incurred in the process can be paid with BlockMED coins.

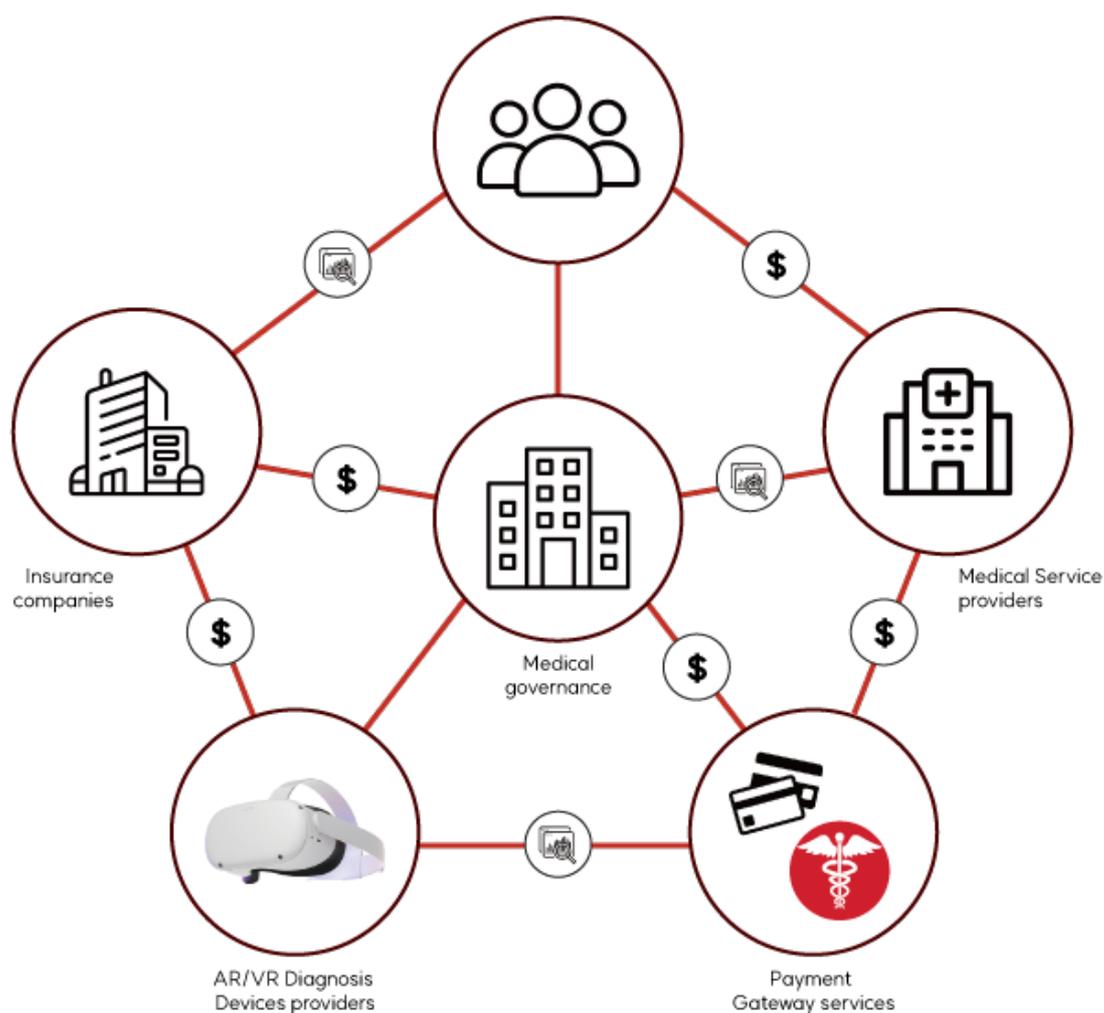
### **4-5. Healthcare Service Users**

As the ultimate beneficiaries of this system, health care users will be able to use medical services provided by companies and institutions that are an important part of each ecosystem as above, and pay for the service with BlockMED coins. Through this, the misuse of my medical information is blocked at the source, and from payment of medical expenses to payment of insurance money, it is possible to use it as a one-stop service through blockchain, making it possible to use medical services in the most convenient way.

## 5. Healthcare Ecosystem Structure

Insurance is processed through medical expenses incurred at each stage of treatment. Those companies that provide equipment and medical solutions will be able to spur equipment reinvestment and development through the fee incurred in this process.

Further, in the case of insurance companies, based on unalterable medical information and insurance claims, it can significantly reduce insurance flaws, such as overpayment.



## 6. Virtual Healthcare Activation Fund

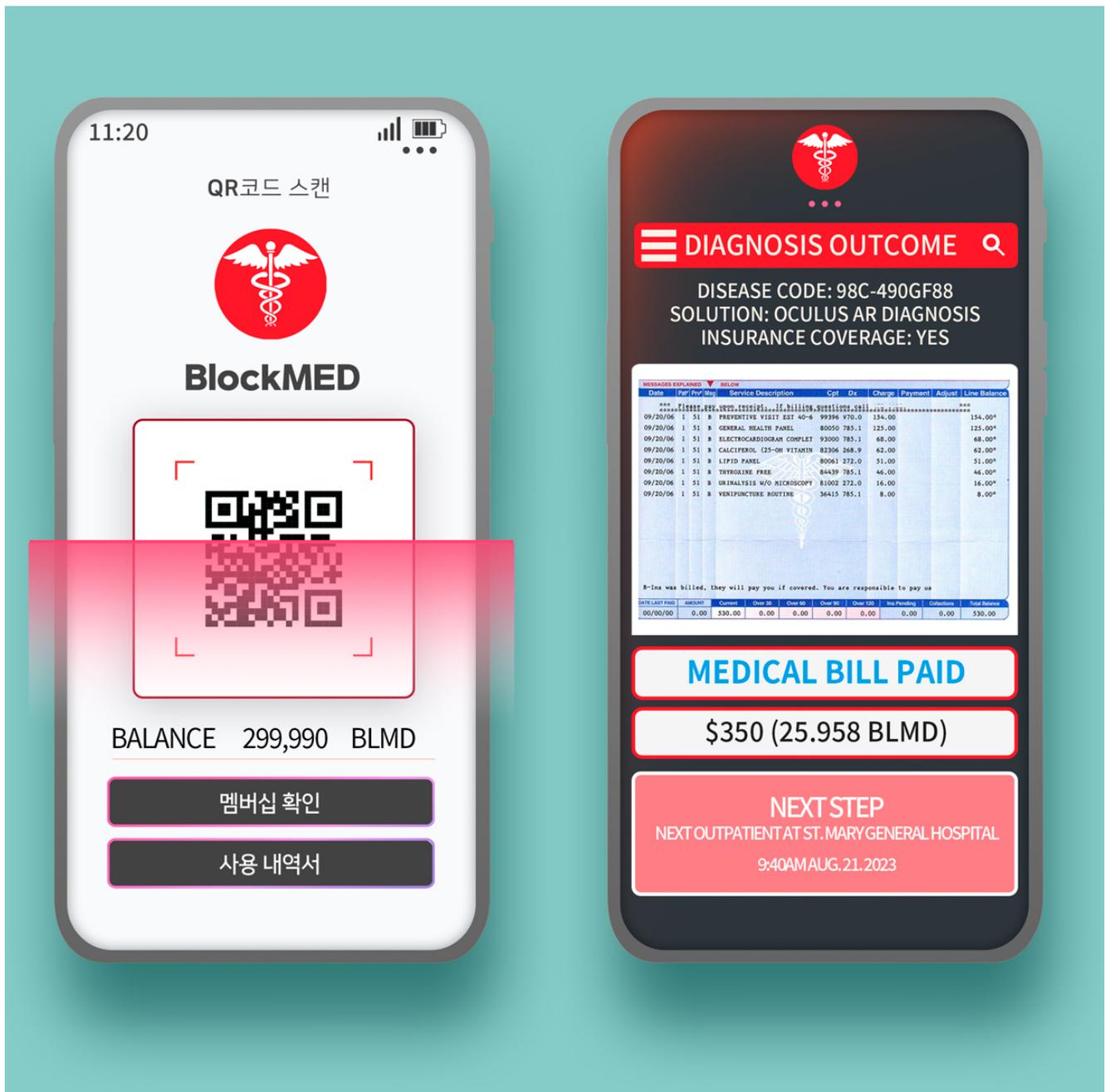
For the purpose of securing a large number of users in the early stage as well as to solidify the ecosystem in a short period of time, additional BlockMED coins will be paid to the holders based on their holding quantity.

| Purchase Amount | Additional Fund Ratio |
|-----------------|-----------------------|
| 1~10,000        | 10%                   |
| 10,001~30,000   | 20%                   |

## 7. BlockMED wallet

BlockMED wallet is equipped with a function to safely store and transmit coins.

Further, the system is designed to enable one-stop access to all medical services within the ecosystem, and we will be integrating medical expense payments, insurance claim data submissions, personal medical information storage, and personal medical information transmission in the future.

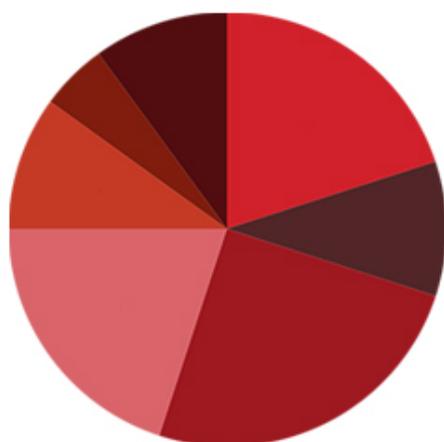


# 8. Token Allocation

Medi is expected to be operated as a global service, and therefore funds have been allocated focusing on the development of blockchain virtual healthcare equipment and solutions, as well as the necessary funds for the global service so that many international organizations and companies can participate. Since each country's medical laws differ and are strict, we set high worldwide medical legal advisory fees and hardware development costs to ensure safe business operations.

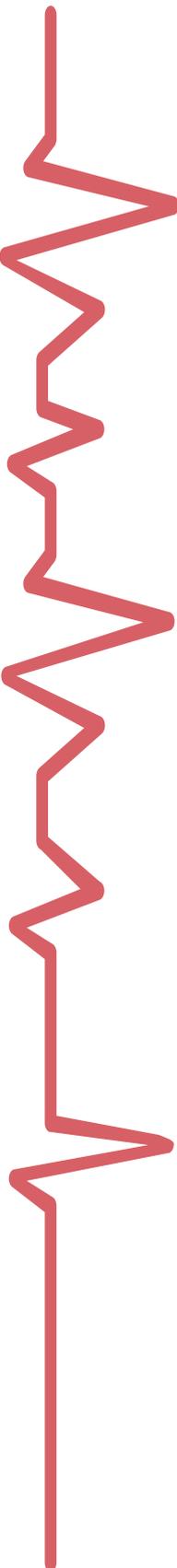
|   |             |                    |
|---|-------------|--------------------|
| <b>Total Issuance</b>                       |             | <b>250,000,000</b> |
| Coin sale                                   | 20%         | 50,000,000         |
| Virtual healthcare solution development     | 10%         | 25,000,000         |
| payment fund for Participating Institutions | 25%         | 62,500,000         |
| Ecosystem activation support fund           | 20%         | 50,000,000         |
| Health care data system development cost    | 10%         | 25,000,000         |
| Legal advisory for medical regulation       | 5%          | 12,500,000         |
| Team  | 10%         | 25,000,000         |
| <b>Total</b>                                | <b>100%</b> | <b>250,000,000</b> |

## Token Allocations



- Token Sale 20%
- Non-face-to-face hardware and solution development funds 10%
- Ecosystem Participating Institutional Payment Fund 25%
- Ecosystem activation support fund 20%
- Medical information system construction cost 10%
- International Medical Law Consulting 5%
- Team 10%

## 9. Roadmap



2021 Q3 Business model confirmed

Q4 Business whitepaper confirmed

2022 Q1 Blockchain wallet developed

Q2 Listed on international exchanges

Q3 Ecocystem activation fund completed

Q4 Additional features developed

2023 Q1 Expansion of listing on top global exchanges

Q2 Platform 2.0 upgrade completed

Q3 Participating virtual healthcare conference

Q4 More virtual healthcare services added

## 10. Disclaimer

1. This white paper is intended to describe BlockMED's services and may be reviewed and amended due to the project schedule, progress and other factors.
2. The version of this white paper is based on the date indicated at the top of the document, and the contents of this white paper reflect only the direction and progress of the project until that date, and are subject to change at any time after the date.
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