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# MedChain Blockchain-Enabled Medical Records

Small OPO

★ Castle Rock, CO

20

**\Delta** Business to Business

Days Left

**②** Accepting International Investment

449

Investors

\$430,286.00

Raised of \$10K - \$1.07M goal



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# Pioneering Blockchain-Enabled Healthcare & Electronic Medical Records

## Invest in MedChain

"MedChain is pioneering a community-driven solution to the burgeoning field of Electronic Medical Records (EMR) and electronic Protected Health Information(ePHI).

Our goal is to put control back into the hands of the patient -- both literally and figuratively.

We believe the use of MedChain's **cutting-edge blockchain protocol technology**, **military-level encryption** and **distributed storage** coupled with an **open-source framework** will create a level of security poised to become the new standard in HIPAA compliant medical record-keeping.

Invest in MedChain as we aim to revolutionize how EMRs are stored, accessed and utilized, significantly benefitting both healthcare providers and patients.

Funds from this crowdfunding campaign will be used for **marketing and PR initiatives** that will raise awareness of MedChain's product offerings and will fund **development of MedChain software, blockchain and smartphone applications.** 

We are currently in a testing stage and developing our blockchain in-house and will begin phone and web application development after finalizing our funding round, aiming for a late 2018 internal beta launch"

- MedChain Founder & CEO Joachim Sandgaard

#### **Investment**

\$2/Share of Common Stock | When you invest you are betting the company's future value will exceed \$21,000,000.

When you invest in our Pre-ICO, your SAFT will be redeemable for Utility Tokens equal to twice the amount of the final purchase price. For example, an investment of \$500 will entitle the investor to \$1000 worth of Utility Tokens.

MedChain's mission is to use blockchain technology to establish a better, more secure and transparent framework for Electronic Medical Records that vastly improves the quality of care

# for patients and helps reduce healthcare providers' costs.

## MedChain Is The Solution

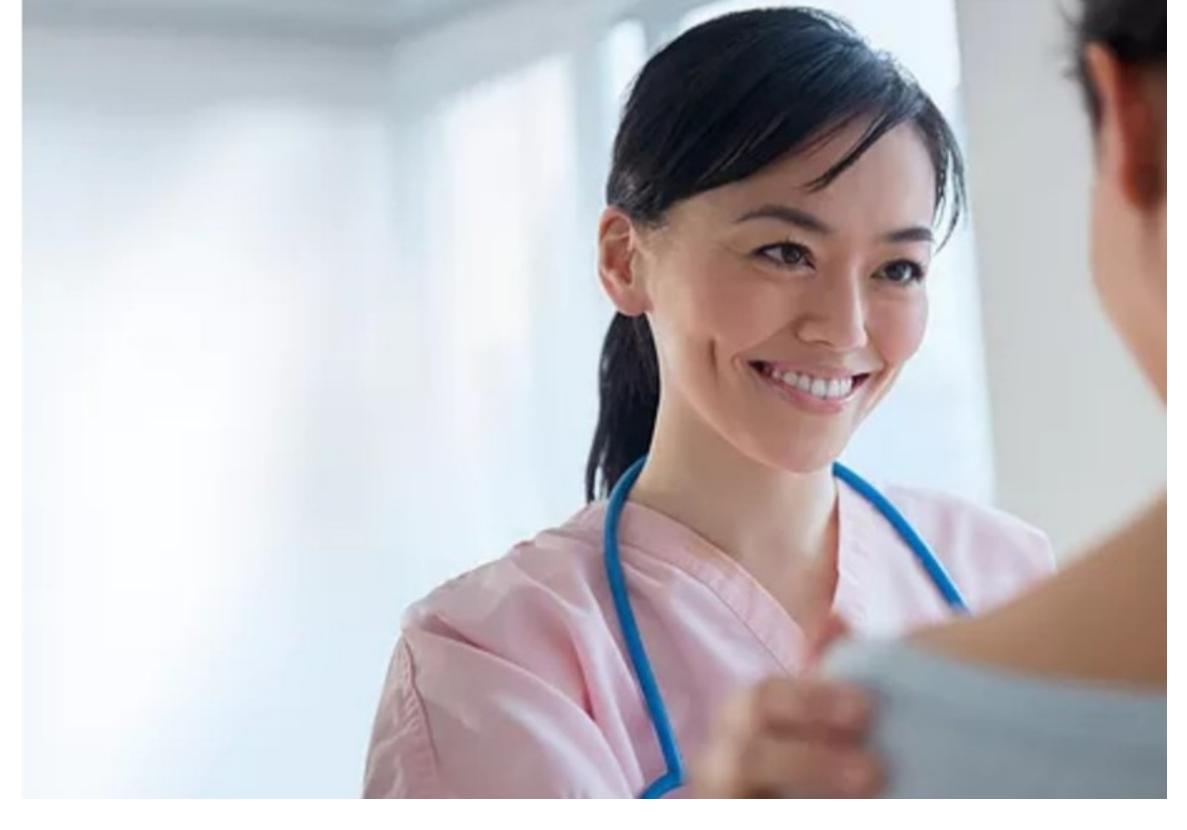
Current EMR systems as centralized silos with limited communication capability, inadequate transparency and a lack of interoperability. **These infrastructure problems can be solved by Medchain's blockchain network.** 

The 21st Century Healthcare system requires interoperability - the ability of computer systems and software to exchange and make use of key patient information, allowing primary healthcare providers to communicate with additional providers such as labs and pharmacies. But currently-available Electronic Medical Record (EMR) systems might not follow the patient between providers and might not facilitate effective communication. Source. (https://healthit.ahrq.gov/key-topics/electronic-medical-record-systems) (https://healthit.ahrq.gov/key-topics/electronic-medical-record-systems)



These outdated infrastructures can increase information delays and costs while decreasing the overall quality of care. From the patient's perspective, it can limit the access and control they have over their medical information including how it is used. By implementing the MedChain infrastructure, we believe that healthcare providers will have access to a vastly more secure storage and transfer mechanism due to the frictionless connectivity, transparency and cybersecurity of the blockchain. Our hope is that this will ultimately improve the overall exchange of health information.

Provider Benefits



**Utilizing MedChain's blockchain and software**, heathcare providers can have near-instant access to medical records of new patients, and could potentially save several billion dollars each year **in fines associated with data breaches**.

In addition to significant savings, patient information can also be kept secure with **extremely reduced risk of identifiable data being leaked**. That's the kind of data security that the blockchain can provide.

Patient Benefits



Utilizing MedChain's smartphone and web applications, patients will be able to eliminate and/or avoid redundant testing due to lack of record-sharing between providers.

**Health records can also be near-instantaneously available in cases of emergency**, including when the individual is non-responsive but has their smartphone on them.

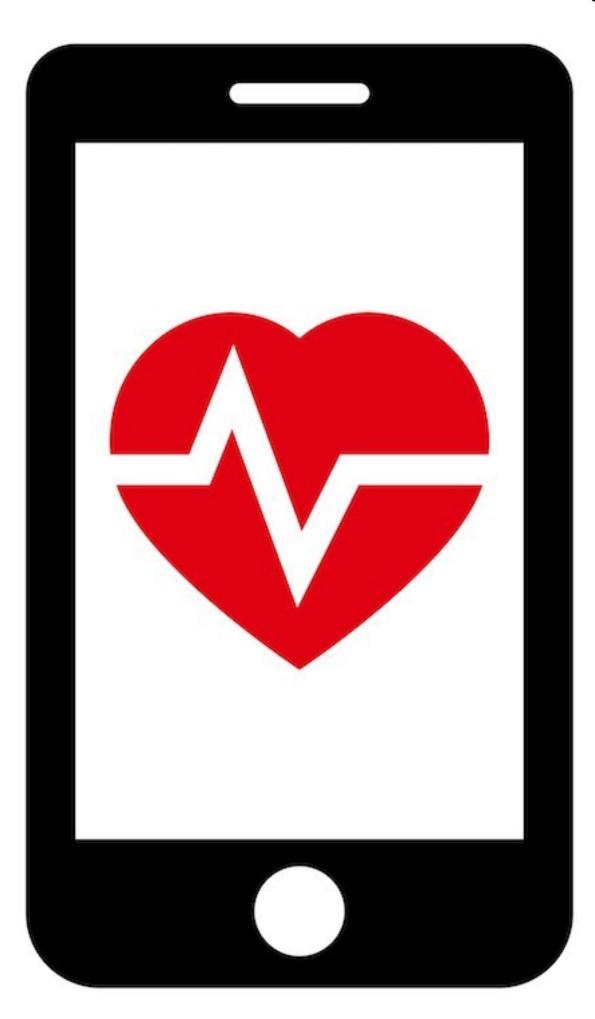
# MedChain Patient App

The MedChain Patient Application is being developed for iOS and Android smartphones, tablet and desktop use, always providing the most up-to-date information, such as medical test results as well documentation all patients are entitled to under HIPAA and EMR guidelines. The MedChain applications will also notify users of access requests from service providers, doctors, hospitals, and health insurance providers.

The MedChain Patient Application will function as a wallet of information tied to the patient's unique public identifier and is accessible only with the patient's unique private key. When information is requested from any of the user's platforms, their private key will be used to decrypt the information.

Utilizing an intuitive, user-friendly interface, the MedChain Patient Application allows the patient to designate access to private health information, including information tied to their account that might be available only to specialists, such as psychological records and evaluations that even the patient cannot see or utilize. Through further development, additional functions will enable the patient to upload their own data.

As a key feature of our approach to healthcare the MedChain Patient App will be available as a no-cost downloadable application through app stores and available as a Web App on the MedChain website to encourage provider adoption of our Service Provider Software and blockchain technology.



## MedChain Service Provider Software



The MedChain Service Provider Software will function as an automated intermediary of interoperability between the provider's current HIPAA-compliant software database and the MedChain blockchain and distributed storage network. While some functions already exist to encrypt data prior to distribution, MedChain is developing additional ways to ensure encryption before transmission.

Following encryption of electronic Private Health Information, the MedChain software will hash the information and create defined chains of entries to the blockchain as **a functional way of verifying data integrity and eliminating the chance for foul-play or unauthorized data manipulation.** MedChain's Software will function as nodes authorized and federated by MedChain, requiring zero on-site upkeep.

The MedChain Service Provider Software will be marketed at a low-to-no-upfront cost to providers based on a SaaS model that requires a subscription to use the software and access the blockchain. This subscription may be integrated with internal token usage or kept separate.

Token usage to add information to the MedChain blockchain is imperative to our business model.

To upload information to the network, a purchase of either external and transferrable MedCoins or internal non-transferrable Entry Tokens (ET) must be made. Entry Tokens function as credits within the ecosystem, keeping their price tied to a fiat currency and allowing providers to access the blockchain without concern over volatile cryptocurrency for data uploads.



## The MedChain Blockchain

The MedChain Network protocol is based on a Data and Application Layer integrating an ERC20-Standard token on the Ethereum Blockchain, working in a distributed and decentralized manner.

Mining, data validation, data storage, proof-of-storage and proof-of-retrievability will be provided by a network of decentralized and MedChain-federated servers as part of the blockchain protocol in conjunction with MedChain software (via both patient & provider apps) for trading MedCoins, converting MedCoins to Entry Tokens, and to ensure payment for blockchain Entries.

The MedChain blockchain will function as a hash depository for the decentralized storage network, which will be fully auditable and verifiable by a network of federated servers. The federated servers will be paid with MedCoins in return for storage space and retrieval of information.

All storage and retrieval requests will function with the use of Entry Tokens rather than MedCoins. Federated mining nodes will be compensated with MedCoins for executing valid and verified transactions.



MedCoin: The MedChain Token



The MedCoin is being created as the driving force behind the MedChain infrastructure. For both users and patients, this token functions as the key to the system. Their MedCoin can be exchanged for Entry Tokens (ET) to facilitate data uploads and serve as a gatekeeper for access requests retrieved through the MedChain API.

Healthcare organizations will use MedCoin by exchanging them for Entry Tokens, providers will not only purchase space allocation but also use MedCoin for patient records access-request through the MedChain API. MedCoin may eventually also be used to purchase rich anonymized data which could be analyzed for diagnosis automation or other uses.

Finally, MedCoin is used as **rewards for HIPAA-compliant storage space providers**, **distributed mining payment cycles**, and **federated server reimbursement**.

We believe in a **token-connected world**, where medical and healthcare services can be driven by MedCoin on the MedChain infrastructure.

In addition to being inefficient, today's EMR systems are fraught with risk. These systems are regular targets of fraud and sources of data breaches that not only jeopardize patient confidentiality but also cost healthcare providers significant resources annually.

Looking at 2016 in the United States alone, EMR's from more than 25 million patients were compromised. These data breaches ultimately cost hospitals and healthcare providers over \$500 million in penalties and fines under the Hospitals Readmission Reduction Program, which the U.S. government instituted in 2012 in an effort to reduce hospital readmissions. [1]

A large proportion of these readmissions are the result of the insufficient coordination in today's EMR systems. MedChain is paving the way for an evolved EMR system that far surpasses these inadequacies by providing the best solution for both patient and healthcare provider.

According to a study from the IBM Institute for Business Value; 56% of surveyed healthcare executives aim to implement commercial blockchain solutions within the next two years. MedChain hopes to make this transition easier and more effective by offering an open-source framework that will raise the bar for medical record keeping. [2]

[1] (https://www.advisory.com/daily-briefing/2016/08/04/hospitals-facing-readmission-penalties) Source (https://www.advisory.com/daily-briefing/2016/08/04/hospitals-facing-readmission-penalties) [2] Source (https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=GBE03790USEN) (http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=SEL03094WWEN)

## Significant Market Finding

In 2015, there were **over 250 instances of EMR data breaches** in the United States. The majority of these incidents were the result of **hacking**, however **non-intentional IT incidents** were the cause in many instances as well.[1]

In March of 2016, 21st Century Oncology reported that the records of **2.2 million patients were hacked**, which has resulted in a large number of class action lawsuits against the practice.[2]

Regardless of how the data was breached, these violations of patient confidentiality **affected over 112 million Americans**. The penalties and fines associated with these incidents cost American healthcare providers **over \$6 billion in damages annually**.[3]

- [1] Source (https://www.forbes.com/sites/danmunro/2015/12/31/data-breaches-in-healthcare-total-over-112-million-records-in-2015/#51a417b07fc6)
- [2] Source (https://www.fiercehealthcare.com/it/21st-century-oncology-breach-prompts-bevy-class-action-lawsuits)
- [3] Source (https://www.beckershospitalreview.com/healthcare-information-technology/healthcare-breaches-cost-6-2b-annually.html)



## MedChain is Born

Founder & CEO Joachim Sandgaard embarks on the journey of launching MedChain, a blockchain used for Electronic Medical Records.

## MedChain White Paper

The MedChain team begins research and development on the first-ever blockchain for Electronic Medical Records.

## MedChain Blockchain Development

The MedChain team develops test blockchain using smart contracts for access control.

## MedChain Launches on StartEngine

MedChain seeks \$1M from everyday investors.

## Regulation A+ ICO

MedChain launches its Regulation A+ ICO. (ANTICIPATED)

## Beta Release

MedChain releases beta version of its software and application. (ANTICIPATED)





(https://www.prnewswire.com/news-releases/medchain-announces-participation-at-ico-conference-in-santa-monica-november-10-2017-300545128.html)

(https://finance.yahoo.com/news/medchain-announces-successful-development-first-150000199.html)



#### INVISIONMAG.COM

(http://invisionmag.com/columns/4388-bitcoin-blockchain-and-medchain-what-does-it-mean-for-eyecare-businesses.html)

**SHOW MORE ()** 

Meet Our Team

# Joachim Sandgaard

Founder, Director & CEO

Joachim Sandgaard is a seasoned IT professional in the healthcare and medical device industry with more than 19 years of experience, including as System Administrator('09-'13) and IT/Project Manager('05-'13 & '15-'17) at Zynex Medical, a Durable Medical Equipment company. He has extensive knowledge of current EMR system integration, document management, and healthcare compliance regulations. Additionally operated Viking Detailing LLC, as sole owner(2014-'15), and acted as Regional Sales Manager for Zynex Medical (2014-'15). Founded MedChain in 2017 and is currently acting as a Director and as the CEO of the company.

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# **Thomas Sandgaard**

Director & Co-Founder

Thomas Sandgaard is an entrepreneur in the medical device industry. He started his career in Europe with Siemens, Philips Telecom, Dataco, and ITT before founding Zynex Medical, a Durable Medical Equipment company, in 1996. As Chairman, Chief Executive Officer and President he took Zynex Medical public in 2004 (stock symbol: ZYXI) and holds a BS in Electrical Engineering from the University of South Denmark as well as an MBA from Copenhagen Business School. Co-Founded MedChain in 2017 and is currently a Director of the company.

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#### **Steve Wishstar**

**Chief Technical Officer** 

Sr. Fullstack Developer with 10 years of CTO experience working directly with NASA, Lockheed Martin & Raytheon. Master's Degree in Aeronautics & Astronautics from Stanford University

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#### **Alex Bowman**

Creative Director

Result driven creative designer.

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#### Dr. Erika Beerbower

Healthcare Analytics Advisor

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## **Gregory Sichenzia**

SEC Attorney

Founding member, Sichenzia Ross Ference Kesner

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**Jay Yamamoto** 

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Partner, Sichenzia Ross Ference Kesner

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## **Clifford Neuman**

General Counsel

Principal Clifford L Neuman, P.C.

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General Counsel

Principal Clifford L Neuman, P.C.

## Offering Summary

Maximum 535,000\* shares of common stock & SAFT (\$1,070,000)

\*Maximum subject to adjustment for bonus shares. See **10% Bonus** below

Minimum 5,000 shares of common stock & SAFT (\$10,000)

**Company** MedChain, Inc.

Corporate Address 1175 Castle Pointe Drive Castle Rock, Colorado 80104

**Description of Business**Blockchain technology for Electronic Health Records

Type of Security Offered Common Stock

&

Simple Agreement for Future Tokens (SAFT)

Purchase Price of Security Offered \$2.00

Minimum Investment Amount (per \$500.00

#### **Future Utility Tokens**

investor)

In connection with the purchase of the shares, Purchasers shall receive from the Company, if and when the Company has a future token generation event:

• Investors will receive a number of tokens equal to twice the value of the investment amount. For example, an investment of \$500 will entitle the investor to \$1000 worth of tokens in accordance with the terms of the future token generation event.

The tokens will vest and be delivered approximately 120 days after the official launch of the token generation event. The Company does have a distributed ledger based business model but not yet a blockchain based utility token and there is no guarantee that such will be developed in the future. The promise of future tokens is contingent upon the successful development of such items. There is no guarantee that successful development will ever occur.

The right to receive future tokens and the offering of future tokens is being offered as part of this offering exempt from registration under Regulation CF.

**Description of Future Utility Tokens**. The Company is including as part of this Offering the right to receive future utility tokens when and if the Company creates a network based upon blockchain and distributed ledger technology. The utility tokens may be used within the network to purchase entry credits facilitating Electronic Medical Record storage and access control. The tokens may also be exchangeable upon cryptocurrency exchanges. The Company has immediate plans to create a distributed ledger technology offering. Therefore, the rights offered and issued in connection with this offering are contingent upon the development of such

technology. Investors in this offering should not plan on receiving such tokens and should not include any such future utility tokens as part of their investment decision. Any future utility token shall only have a use within a developed ecosystem and shall not be considered debt or equity in the Company.

#### The 10% Bonus for StartEngine Shareholders (This bonus period is concluded as of 3:00PM PT on December 30, 2017)

MedChain, Inc. will offer 10% additional bonus shares for all investments that are committed by StartEngine Crowdfunding Inc. shareholders (with  $\geq$  \$1,000 invested in the StartEngine Reg A+ campaign) within 24 hours of this offering going live.

StartEngine shareholders who have invested \$1,000+ in the StartEngine Reg A+ campaign will receive a 10% bonus on this offering within a 24-hour window of their campaign launch date. This means you will receive a bonus for any shares you purchase. For example, if you buy 50 shares of Common Stock at \$2.00 / share, you will receive 5 Common Stock bonus shares, meaning you'll own 55 shares for \$100. Fractional shares will not be distributed and share bonuses will be determined by rounding down to the nearest whole share.

This 10% Bonus is only valid for one year from the time StartEngine Crowdfunding Inc. investors receive their countersigned StartEngine Crowdfunding Inc. subscription agreement.

**Multiple Closings.** If we reach the target offering amount prior to the offering deadline, we may conduct the first of multiple closings of the offering early, if we provide notice about the new offering deadline at least five business days prior (absent a material change that would require an extension of the offering and reconfirmation of the investment commitment).

#### Irregular Use of Proceeds

The Company might incur Irregular Use of Proceeds that may include but are not limited to the following over \$10,000: Any expense labeled "Administration Expenses" that is not strictly for administrative purposes; Any expense that is for the purposes of intercompany debt, back payments, or reimbursements.

#### Offering Details

(https://d19j0qt0x55bap.cloudfront.net/production/startups/medchain/documents/offering\_details/MedChain\_Offering\_Doc\_\_Updat

#### Form C Filings

(https://www.sec.gov/cgi-bin/browse-edgar?CIK=0001726640&owner=exclude&action=getcompany&Find=Search)

**SHOW MORE ()** 

#### Risks

A crowdfunding investment involves risk. You should not invest any funds in this offering unless you can afford to lose your entire investment. In making an investment decision, investors must rely on their own examination of the issuer and the terms of the offering, including the merits and risks involved. These securities have not been recommended or approved by any federal or state securities commission or regulatory authority. Furthermore, these authorities have not passed upon the accuracy or adequacy of this document. The U.S. Securities and Exchange Commission does not pass upon the merits of any securities offered or the terms of the offering, nor does it pass upon the accuracy or completeness of any offering document or literature. These securities are offered under an exemption from registration; however, the U.S. Securities and Exchange Commission has not made an independent determination that these securities are exempt from registration.

**Updates** 

## **Advisory Board Announcement!**

#### It's our pleasure to present the first two additions to our Board of Advisors!

Gene Libov, (https://www.linkedin.com/in/genelibov/) Chief information Security Officer at CloudMedX and former Director of Security and Technology at Blue Shield of California – Insurance and Health plan provider.

We are very excited to have Gene on board; **information security should be the top priority of any company dealing with patient data**, we're confident his guidance will be invaluable to our company moving forward.

Dr. Erika Beerbower, (https://www.linkedin.com/in/erika-beerbower-pharmd-bbb90932/) Clinical Content Specialist at IBM Watson Health.

We are equally excited to have Erika on the team; **IBM Watson is paving the way for Artificial Intelligence and IBM Watson Health the way for effective care and positive patient outcomes.** IBM is currently training Erika in blockchain technology and with nearly 10 years of clinical database maintenance experience we expect her to bring high levels of insight to the team.

Additionally, we're pleased to announce **Alex Bowman recently joined the team as our Creative Director** and deserves much of the credit for our new look and www.MedChain.us (http://www.medchain.us)

Remember to get your tickets for the Denver Day4Crypto at www.DenverD4C.com - I'll be there March 10th with Alex Bowman from 8am to 7pm!

All the best,

Joachim Sandgaard

Founder & CEO

## **Amending our Securities Offering**

25 days ago

Hello! Recently, a change was made to the MedChain offering. Here's an excerpt describing the specifics of that change:

MedChain has extended their offering for 45 days.

When live offerings undergo changes like these on StartEngine, the SEC requires that certain investments be reconfirmed. If your investment requires reconfirmation, you will be contacted by StartEngine via email with further instructions.

#### **A Grassroots Effort!**

27 days ago

We have passed \$350,000 in investments, from more than 350 of you! No 'whales', no institutions!

We currently stand at **over 1500 followers on StartEngine alone**, and realize many of you are **waiting for StartEngine to allow cryptocurrencies like Bitcoin and Ether as investments into our offering. We're very optimistic that the option will become <b>available soon**, as it is for Regulation D 506(c) and Regulation A+ offerings, and will be extending the period that our campaign will be live to ensure crypto holders will be able to participate.

**MedChain is sponsoring the Denver Day4Crypto Conference presented by SALT, March 10<sup>th</sup>**. Part of the team, including our CEO, will be present and we would love for anyone interested to stop by to learn more about our company and our vision for the future of Electronic Health Records. For more information and tickets visit www.DenverD4C.com (http://www.DenverD4C.com)

Visit our updated website at: (https://MedChain.us)https://MedChain.us (https://MedChain.us)

Follow us on the following platforms for the latest news;

Telegram: (https://t.me/MedChain)https://t.me/MedChain (https://t.me/MedChain)

Facebook: (https://facebook.com/MedChainOfficial)https://facebook.com/MedChainOfficial

(https://facebook.com/MedChainOfficial)

Twitter: (https://twitter.com/MedChainInc)https://twitter.com/MedChainInc (https://twitter.com/MedChainInc)

#### **Notice of Funds Disbursement**

about 1 month ago

[The following is an automated notice from the StartEngine team].

Hello!

As you might know, MedChain has exceeded its minimum funding goal. When a company reaches its minimum on StartEngine, it's about to begin withdrawing funds. If you invested in MedChain be on the lookout for an email that describes more about the disbursement process.

This campaign will continue to accept investments until its indicated closing date.

Thanks for funding the future.

-StartEngine

## **\$270,000+ Thank you update!**

about 2 months ago

\$270,000+ Thank you update.

We're excited to have hit this important milestone... **so THANK YOU to every investor who has contributed so far**, we encourage potential investors with unanswered questions to post them on the offering page. StartEngine still is working with us to get cryptocurrency investments open for our offering and we will be sure to let all of our followers know when they've been enabled... As far as we are aware it would make us the first Title III Regulation CF campaign to accept cryptocurrencies.

Our team is working with an illustrator to update our look in preparation for our future offering(s) and to create a cohesive look across our social media platforms. While still an early concept we're excited about the direction it's taking, and here is a preview for all to see;



I am still personally working on our blockchain development, but hope to have more hands on the development deck very soon.

Thank you again to all of our investors, and to everyone rooting for our success.

Best,

Joachim Sandgaard, Founder & CEO

## **Notice of Funds Disbursement**

2 months ago

[The following is an automated notice from the StartEngine team].

Hello!

As you might know, MedChain has exceeded its minimum funding goal. When a company reaches its minimum on StartEngine, it's about to begin withdrawing funds. If you invested in MedChain be on the lookout for an email that describes more about the disbursement process.

This campaign will continue to accept investments until its indicated closing date.

Thanks for funding the future.

-StartEngine

The past two weeks have been an amazing journey, we've received an outpouring of responses from people who have personally experienced the short-comings and lack of interoperability between current EMR systems and are looking for a solution.

So far, **Doctors from nearly every field of medicine have reached out** to talk about the implications of our approach and how it will **positively affect patient outcomes**, but we've also heard from a multitude of Nurses, Technicians, Billing specialist and companies who are eager to find solutions to a common but hard to solve problem; keeping ePHI secure, but accessible when it's needed wherever it's needed.

We're aware that people familiar with ICOs have traditionally been able to invest using cryptocurrencies and we've received word that **StartEngine hopes to be able to accept these forms of payment soon.** 

Finally, we're in the process of assembling our Board of Advisors and hope to make an announcement about our choices soon.

## **Day 4 Update – Thank you and Happy New Year!**

3 months ago

What a start to the New Year! We would like to give our sincerest thanks to our initial group of investors who helped us reach our minimum offering threshold in less than 1 hour. And now, with almost no marketing, we've reached more than 4 times the minimum!

There's something to be said for the draw of blockchain technology, especially when applied to real-world problems and presented by a real company.

Beginning today we will be stepping up our marketing efforts to reach more investors interested in the future of Electronic Medical Records and using blockchain technology to protect Patients and Providers alike.

We're also excited to announce that we're now actively hiring for the following positions:

Blockchain Engineer Communications lead Marketing Manager Technical Officer

Best,

Joachim Sandgaard, Founder & CEO

#### Comments (110 total)

Add a public comment...

0/2500

**Post** 

**Carlos Dorenbaum** 8 days ago Who's your competition? What sets you apart?

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