

# DISTRIBUTED LEDGER TECH APPLICATIONS - HEALTH

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(contact: [info@sciencedistributed.com](mailto:info@sciencedistributed.com))



## WELCOME

Welcome to 2019. Collaboration and Integration are the trends you'll see this year in blockchain in healthcare. Collaboration between industry competitors for 10x value or more for a variety of use cases. Collaboration among federal agencies for cost savings and best practices. Collaboration across universities to realize the full value proposition for science. Integration provides greater acceleration as blockchain/DLT advances weave together with developments in AI/Machine learning, data science, internet of medical things, quantum computing, neurotech, and of course, humans.  
~ Sean Manion, PhD - CEO Science Distributed

## BLOCKCHAIN/DISTRIBUTED LEDGER TECHNOLOGY NEWS

### 5 blockchain developments in 2018

Amazon, Change Healthcare and Walmart all made moves worth watching as we head into 2019.

<https://www.healthcareitnews.com/news/5-blockchain-developments-2018>

**Commentary:** I would have included the [HHS authority to operate for their blockchain/AI procurement program](#), but I also have a former fed's understanding how government moves. Still a quality list of things to be tracking, especially Gartner's assessment that the time to move on this is NOW.

### Here's what scientists searched for in 2018: AI is up, stress is down

The most-searched keywords in the Scopus database and on Google, revealed. 'Cancer', 'blockchain' and 'big data' were among the top search terms in a major science database in 2018.

#### TOP TERMS SEARCHED FOR ON SCOPUS

Artificial intelligence was one of the most searched terms in the Scopus scholarly database in 2018, joining cancer, heart attacks and big data in the top ten.

Rank	Search interest 2017	Search interest 2018
1	Cancer	Cancer
2	Heart attack	Blockchain
3	Heart	Big data
4	Climate change	Artificial intelligence
5	Diabetes	Heart attack
6	Big data	Education
7	Graphene	Marketing
8	Heart attack and stress	Climate change
9	Stress	Heart
10	Internet of things	Industry 4.0

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**Commentary:** This list makes sense from health risk perspective. In the U.S. cancer is the biggest killer, heart disease is second, and third is the amorphous "medical error."

Blockchain along with AI and applied to Big Data will provide better solutions to all three problems and more. Science is learning, and will soon be studying, publishing, and applying solutions. [Science will be Blockchain by 2025.](#)

Peer-reviewed journals to read for more:

[Blockchain in Healthcare Today](#)

[Frontiers in Blockchain](#)

[Journal of the British Blockchain Association](#)

[Ledger](#)

Source: Scopus

<https://www.nature.com/articles/d41586-018-07879-9>

## **Blockchain Technology in Healthcare Market 2023 Top Revenue Maker Key Players are IBM, Microsoft, Patientory, Hashed Health, Chronicled, Isolve, Factom, Blockpharma, Medicalchain and More**

<https://www.medgadget.com/2019/01/blockchain-technology-in-healthcare-market-2023-top-revenue-maker-key-players-are-are-ibm-microsoft-guardtime-pokitdok-gem-patientory-hashed-health-chronicled-isolve-factom-blockpharma-med.html>

**Commentary:** Interesting market breakdown. This is based on money saved and money to be made. Important. What is the outlook for lives save and quality of life improved? Also important, but who cares enough to track and fund?

### **The future of blockchain applications lies in identity: HPEC CEO Dr. Leah Houston**

*Leah Houston, MD, CEO and founding partner of blockchain healthcare platform provider HPEC in New York City, discusses healthcare identity platforms and how blockchain will affect them in the future.*

<https://www.beckershospitalreview.com/healthcare-information-technology/the-future-of-blockchain-applications-lies-in-identity-hpec-ceo-dr-leah-houston.html>

**Commentary:** Dr. Houston is right about identity being key. She also knows the value of networks for blockchain success. Definitely someone to watch.

## **BLOCKCHAIN/DISTRIBUTED LEDGER TECHNOLOGY EVENTS**

### **Blockchain in Healthcare Global ("BiHG") IEEE ISTO Webinar Series, 11 Jan 2019, 2-4pm EST "SimplyVital Health Update and Meet the Health Nexus Community,"**

*Free 2-hr live event featuring SimplyVital Health's Co-Founders, Katherine Kuzmeskas, MPH, CEO, and Lucas Hendren, CTO, along with Dave Cheli and Alyssa Billingsley, PharmD of Focus Script, and Edward Robinson of Project Balance LLC, members of the Health Nexus community. Hosted by Heather Flannery of BiHG and ConsenSys Health*

<https://register.gotowebinar.com/register/4151444039945537537>

### **HIMSS Blockchain Symposium: Chain Reaction: How Blockchain Technology Brings Value to Healthcare 11 February 2019 | 8am - 4:30pm EST; requires additional registration/fee from HIMSS Conference**

*As blockchain continues to enable the exploration of innovative healthcare approaches not previously feasible, its adoption is growing. Gain an overview of blockchain fundamentals and explore real-world experiences of early adopters transforming ideas to practice. This highly interactive event will provide you the opportunity to validate your blockchain hypotheses and give you a clear sense of how to participate in blockchain ecosystems.*

- Outline the basic concepts of blockchain technology, including business and operating model opportunities
- Discuss current use cases and provide lessons learned and takeaways
- Gain access to HIMSS-curated resources and expertise to empower you to advance your organization's participation in blockchain ecosystems

<https://www.himssconference.org/education/blockchain-symposium>

### **Blockchain in Healthcare Global Meetup by Chainhaus, Rise New York (Manhattan), 26 Feb, 6-9pm**

*Chainhaus along with Blockchain in Healthcare Global IEEE.ISTO (BiHG), Science Distributed (SD), and futuRXism bring you free meetup for blockchain in healthcare in NYC. Hosted by Jamiel Sheikh (Chainhaus) we'll cover the State of BC/HC (Sean Manion; SD, BiHG), Barriers to Implementation (Brandi Reddick; futuRXism, SD), and Nicole Tay (BiHG, SD), plus a Q/A panel with the speakers and Dr. Yauheni Solad. FREE.*

<https://www.eventbrite.com/e/global-blockchain-healthcare-tickets-54458706457>

## **BLOCKCHAIN IN HEALTHCARE TEXT BOOK**

### **Blockchain in Healthcare: Innovations that Empower Patients, Connect Professionals and Improve Care**

*Editors: Vikram Dhillon, John Bass, Max Hooper, David Metcalf, Alex Cahana  
HIMSS Book Series, CRC Press, Taylor & Francis Group*

*A curated collection of examples based on the fundamentals of blockchain that build upon the early successes and examples that point to the future. After a brief introduction to bitcoin, blockchain and the protocols available, a getting-started guide is presented specific to health and healthcare. The authors discuss the complexities and possibilities of smart contracts and some of the early consortia that are exploring the possibilities. The final section provides a glimpse into the future using blockchain technology and examples of research projects that are still in labs across the globe.*