

GBAC Unveils Quantum Healthcare 2025 Blueprint on Quantum Computing (QC) and AI-Driven Drug Discovery

Board-ready guide charts global Quantum Computing (QC) market and pharma pilots, giving boards actionable governance, security and talent frameworks.

WASHINGTON D.C, MD, UNITED STATES, May 27, 2025

/EINPresswire.com/ -- Global Board Advisors Corp (GBAC) today released "[Quantum Healthcare 2025: The Executive Blueprint](#) – Seizing Strategic Advantage in the New Era of Medicine." Co-authored by Prof. Yusuf A. Azizullah, GBAC CEO, and Dr. Aisha Rahim, MD, FHM, Medical Executive at Johns Hopkins Health Plans and Co-Chair of its Artificial Intelligence (AI) Governance Council, the 60-page report equips life-science boards and investors for healthcare's quantum leap.

Governments have already earmarked US \$40 billion-plus for quantum-health programmes across 30 nations, highlighting the sector's accelerating momentum.

Pharma-Focused Highlights

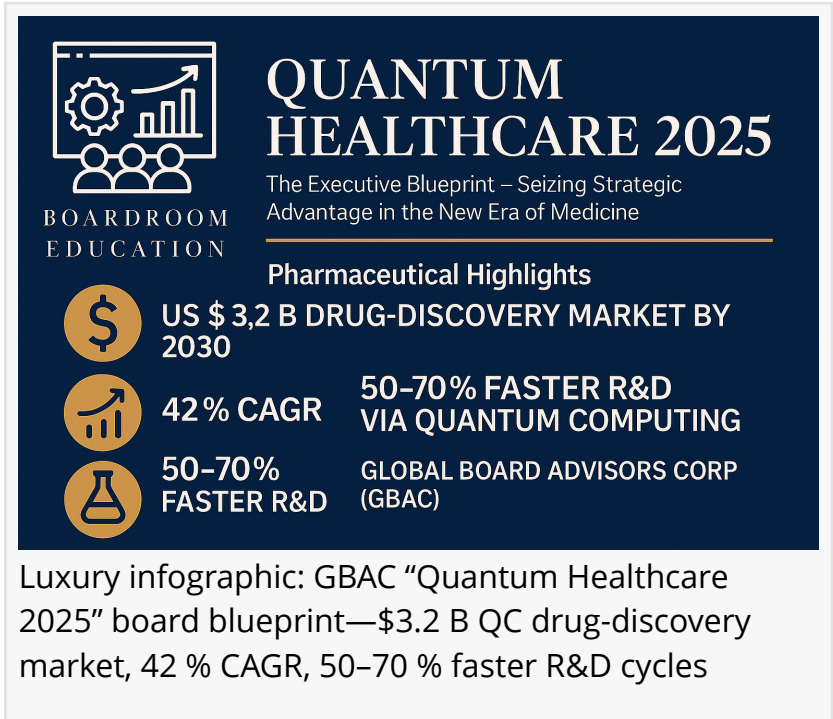
US \$3.2 billion quantum-drug-discovery market by 2030 (42 % CAGR).

50–70 % faster R&D cycles – hybrid Quantum Computing (QC) + AI slashes hit-to-lead and toxicology loops.

Flagship pilots now live

Cleveland Clinic – IBM Discovery Accelerator: quantum cardiac-drug pipeline

Google DeepMind / Isomorphic Labs + Eli Lilly: QC-AI small-molecule design





Quantum plus AI is a transformative leap—enabling precision medicines to reach patients faster, cheaper, and more equitably.”

Dr. Aisha Rahim, MD – Co-Chair AI Governance, Johns Hopkins Health Plans

Merck – Amgen – QuEra: Quantum Reservoir Computing for “small-data” trial prediction

St Jude Children’s + University of Toronto + D-Wave: cracking KRAS “undruggable” oncology target

Supply-chain upside – quantum optimisation for cold-chain routing and active-pharmaceutical--ingredient yield, while GBAC’s Health-Equity-by-Design™ checklist ensures breakthroughs reach diverse patient groups.

Dr. Aisha Rahim: “Quantum plus AI is a transformative

leap—enabling precision medicines to reach patients faster, cheaper, and more equitably.”

Prof. Azizullah: “Winning in the quantum-AI era isn’t about chasing proofs-of-concept; boards must fund scaled pilots, hard-wire post-quantum security, and build cross-disciplinary talent.”

Global & Regional Momentum

United States – Google, IBM, Microsoft, IonQ driving QC hardware; Pfizer, Moderna and Amgen running quantum pipeline pilots.

China – Baidu QianShi, Huawei Cloud, SpinQ lead patent filings; Sinopharm and WuXi AppTec invest in quantum assay design.

European Union / UK – Quantinuum, Pasqal, IQM partner with Merck KGaA, Boehringer Ingelheim, AstraZeneca.

United Arab Emirates / GCC – Technology Innovation Institute building a 54-qubit system; G42 Healthcare and Mubadala exploring quantum supply-chain models.

Funding snapshot – China (~ US \$15 B), EU (> US \$10 B), United States (~ US \$7 B) and new Gulf programmes (UAE, Saudi) anchor the > US \$40 B public-funding pool.

Governance & IP Security

GBAC introduces four proprietary board tools:

IGRQ Nexus™ – aligns Investor goals, Governance maturity & Quantum-risk appetite.

[Board-Level Quantum Governance Charter](#) – template for Audit/Risk or Tech-Quantum committees.

Post-Quantum Cryptography (PQC) Transition Roadmap – shields pharma intellectual property from “Harvest-Now-Decrypt-Later” attacks; GBAC urges 75 % of U.S. hospitals to complete PQC

plans by 2027.

QCOps™ Maturity Ladder – five stages for scaling pilots into compliant production workloads.

Board imperatives

- Hold quarterly quantum-literacy briefings
- Fund QRA + PQC migrations by FY-26
- Launch two QC-AI pilots (oncology, cardiometabolic)
- Report Health-Equity KPIs inside ESG filings

Invitation-Only Executive Briefings

Dubai – 28 May 2025 | InterContinental Dubai Festival City – focus on Gulf sovereign-fund strategy and pharma alliances.

Washington D.C. – 10 June 2025 | Salamander DC – focus on U.S.–China competition, Milken-style policy dialogue, NIH/FDA engagement.

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Download the Blueprint

<https://boardroomeducation.com/quantum-healthcare-2025> (includes a one-page pharma-use-case infographic)

About GBAC / BoardroomEducation.com

GBAC is the only board-governance firm globally recognised as an AACSB Business Education Alliance member. Through BoardroomEducation.com, GBAC advises Global 1000 boards, sovereign wealth funds and life-science leaders on AI, quantum computing and Environmental-Social-Governance (ESG) oversight.

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