Digital Health Tools—Run Forward or Step Back? The Role of Due Diligence in Assessing M&A and Investment Opportunities in Digital Health

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Digital health tools have the potential to improve health care delivery and its associated cost, change individual behaviors related to health and fitness and disease management, and enable doctors and hospitals to manage their increased accountability for patient outcomes. As a result, digital health technology, such as wearable sensors, remote monitoring devices, mobile health tools, and data analytics services, is of increasing interest to investors and health care organizations that seek to invest their funds.

If the digital health market had its own remote monitoring device to track progress and improvements based on mergers and acquisitions (M&A) activity, venture capital funding, Initial Public Offering (IPO) success, and other metrics, a person reviewing the data stream would be pleased with the healthy market results.

The venture capital firm Rock Health reported that 2015 saw $4.5 billion of venture capital funding of digital health companies, an increase in the number of later stage rounds for digital health companies, and 187 digital health M&A transactions that represented an aggregate disclosed value of $6 billion.1 IPOs by FitBit, MindBody, Evolent Health, Teladoc, and Invitae created $9 billion in market capitalization.2 The trend seems to be continuing this year, as evidenced by IBM Watson Health’s announcement that it is acquiring Truven Health Analytics for $2.6 billion.3

Improvements in communications and information technology, the introduction of more sophisticated wearable sensors, at-home diagnostics and improved genomics capabilities, and the promise of additional sources of data and new abilities to interpret and understand large data sets should help the growth trend to continue.

At the same time, however, digital health companies may not be immune from the current bear market conditions. Indeed, a number of digital health companies have suffered from post-IPO degenerative conditions evidenced by declining value and underperformance when measured against benchmarks such as the S&P 500. For example, venture-backed IPOs such as Vocera, Imprivata, Everyday Health, and Accretive Health all underperformed against the S&P 500 following their IPOs.4

Moreover, many digital health product developers lack a clear understanding of the health care market and the regulatory issues that impact success. Complex regulations and guidance govern digital products generally, at the same time that a different complex regulatory landscape governs health care-related products. Digital health businesses will fall under both sets of regulatory requirements. Accordingly, business and marketing strategies will be more or less successful depending upon the legal requirements that affect the product or the company that makes or markets the product and depending upon how well the company factors those requirements into its technology and business plans.

The conflicting financial trends, coupled with the complex regulatory environment, underscore the need for investors to take care when considering M&A and venture capital financing opportunities in the digital health space. In conducting due diligence for digital health companies, it is important to look not only at the company, but to consider the company, the product, and its business strategy in light of the regulatory environment and the health care market.

The need for caution calls for a prescription of sound business and legal due diligence—with the two often overlapping in the world of digital health. While there is no one-size-fits-all approach to due diligence, here are ten topics specific to digital health companies that should be part of a thorough legal due diligence review of any M&A or investment opportunity in this arena.

1. Payment Opportunities

Investors in digital health will want to understand the target company’s plan to monetize its products. Accordingly, any investor will want to thoroughly understand how consumers and other product users pay for the product, whether by purchase or license of the technology. Moreover, the success or failure of a digital health company often depends on whether use of the company’s products will be reimbursed by governmental and/or private payers. While many digital health tools are marketed to consumers for fitness and wellness, a growing number of digital health tools are capable of supporting clinical and treatment discussions and deci-

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sions. Federal health care programs and commercial payers are developing new ways to pay for care, including growing requirements for consumer engagement and provider quality standards. Future regulations may pose opportunities to market products to health care providers to help them meet requirements for reimbursement for patient monitoring or related activities. Other laws may impact a company’s marketing approach by limiting its ability to provide a product in exchange for referrals. An investor should understand whether the target’s products meet the relevant requirements for payment and whether its business model is consistent with federal health care laws and regulations.

2. Impact of Product Design and Functionality on Regulatory Requirements

It is not always clear which regulator(s) and regulation(s) govern particular digital health tools. Digital health tools may be consumer products within the jurisdiction of the Consumer Product Safety Commission (CPSC) or they may be medical devices subject to U.S. Food and Drug Administration (FDA) oversight. Advertising that includes claims of medical benefits can move the product from the jurisdiction of the CPSC into the FDA’s purview in overseeing the safety of medical devices. The FDA has issued guidance regarding which mobile medical applications and health information technology are considered medical devices and, if they are, whether they will require oversight and prior approval or whether the FDA will exercise enforcement discretion. Moreover, a product launched today may have very different functionality down the road as new software and functionalities are added—so preapproval may be required before new functionalities are added to existing technology. Both compliance and non-compliance come with real costs. It is, therefore, important to determine the appropriate regulatory framework and to assess the target’s compliance prior to finalizing a transaction.

3. Design for Safety

A thorough due diligence review should consider whether the target has designed its digital health tools with an eye towards consumer safety. Like other consumer goods, digital health tools must be safe for consumer use and comply with product safety laws and regulation or FDA requirements for safety and effectiveness. Companies marketing digital health tools to children should be especially mindful of rules specifically applicable to children’s products (such as CPSC requirements regarding testing and certification of compliance with lead levels and the need for tracking labels). Safety design should take into account how the interconnectivity of devices could make digital health tools more susceptible to compromise by third parties, such as someone hacking into a medical device to change the settings on a pacemaker or altering data that is used for decision support.

4. Interoperability with Other Data

Much of the value of the data available through digital health tools comes from the ability to connect the data with other data sources, including lifestyle data and clinical data, and to analyze that data. There are federally adopted standards and interoperability guidance for clinical data and financial and administrative data, which may be required or optional. For interoperable medical devices, these include FDA-issued guidance regarding design, security, and risk management considerations as well as verification, validation, and labeling. Depending on the product, assessing the target’s use of standards to support health care providers, understanding the target’s strategy for interoperating with other products and services, and evaluating compliance with federal guidance may be key components of an evaluation of a digital health company and the viability of its products.

5. Design for Privacy and Security

Information captured by digital health tools may be covered by various federal and state (and potentially even foreign) privacy laws that specifically relate to health care and other
developed an appropriate HIPAA Security Rule risk assess-
for a target, it is important to assess whether the target has
have significant economic and reputational consequences
6. Security and Breach Mitigation
As no product can be hack-proof and security breaches can
have significant economic and reputational consequences
for a target, it is important to assess whether the target has
developed an appropriate HIPAA Security Rule risk assess-
ment process and has implemented reasonable measures
to protect the data that it collects, stores, and transmits,
including by using a belt-and-suspenders approach that
provides layers of security. An investor also should review
the target’s preparedness to respond to a security incident,
including by examining the tools and processes that the
target has developed to identify, investigate, mitigate, reme-
diate, and (if necessary) notify individuals and third parties
regarding a security incident. In addition to understanding
the physical, technical, and policy approaches the target
has deployed to reduce the impact of any security breach,
the investor will want to understand whether appropriate
contractual measures are in place to deal with a security inci-
dent. Insurance is another key piece of the risk management
strategy, and it is important to assess whether the target has
adequate cyber liability and other coverage.
7. FCC Equipment Authorization
In addition to considering the applicability of FDA require-
ments, digital health tools must meet Federal Communications
Commission (FCC) regulations. The FCC has three different
authorization schemes for wireless devices to prevent interfer-
ence—verification, declaration of conformity, and certifica-
tion. An investor should consider whether the target has
familiarized itself and complied with these requirements.
8. Accurate and Truthful Advertisements
Under both federal and state law, fair advertising principles
apply to the labels affixed to products, the claims made on
a website, the advertisements and brochures, and the claims
sales representatives make. A due diligence investigation
should include a review of the target’s advertising claims,
particularly in the area of health and wellness, where the FTC
has been very vigilant in protecting consumers from fraud.
9. Intellectual Property Rights
When developing new products, companies must protect their
inventions from disclosure to preserve their products’ novelty
and eligibility for patent protection. Numerous cases for patent
infringement have been filed after the launch of wearable tech-
nology inventions such as smart shirts, location-aware fitness
training, and systems for medical monitoring and treatment.
Accordingly, it is important to assess how well the target has
taken care not to violate third-party intellectual property rights
and to protect its own valuable intellectual property.
10. Consider License and Service Agreements
Investors should carefully review the target’s contracts to
consider how well it has used licensing and service agree-
ments to ensure compliance with government expectations,
to limit the likelihood of disputes over intellectual property
rights, and to allocate risks related to safety or security issues
that may arise after a product’s launch.
Each target and its digital health tools have unique issues and
business relationships that should be assessed, and due dili-
gence regarding digital health issues should be integrated into

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an overall comprehensive due diligence review appropriate for the transaction, but this checklist provides a good start. Due diligence and proper management of these issues will help ensure that investment decisions are made with transparency and increased comfort regarding the opportunities and risks that the target and its digital health products present.

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2 Id. (2015 performance data collected from NASDAQ and Google Finance as of market close on December 8, 2015; 2016 IPO outlook based on Rock Health survey of Rock Weekly readers).
5 See, e.g., 42 U.S.C. § 1320a-7b.
7 See Id.; FDA, Medical Device Data Systems, Medical Image Storage Devices, and Medical Image Communications Devices (Feb. 9, 2015).
15 See, e.g., Cal. Civil Code § 1798.81.5; Florida Information Protection Act of 2014 (Fla. Stat. § 501.171).
17 45 C.F.R. 160.302, et. seq.
20 See, e.g., FTC cases challenging supplements and food advertising. Over the last decade, the FTC has filed 120 cases challenging health claims made for supplements. Meanwhile, in recent years there has been a trend in food advertising toward making unproven claims that eating certain foods can improve health and even reduce the risk of serious illnesses such as prostate cancer and heart disease.
21 E.g., U.S. Patent Nos. 6,381,482 and 6,970,731 for wearable technology at issue in Sarvint Technologies Inc. v. Textronics Inc. et al., No. 15-cv-00073 (N.D. Ga.).