

International Comparative Legal Guides



Digital Health 2020

A practical cross-border insight into digital health law

First Edition

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Digital Health 2020

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1 Digital Health and Health Care IT

1.1 What is the general definition of “digital health” in your jurisdiction?

Apps, programmes and software used in the health and care system – either standalone or combined with other products such as medical devices or diagnostic tests.

1.2 What are the key emerging technologies in this area?

Digitised health systems – in particular, the wholesale digitisation of patient data and prescription delivery in the UK National Health Service (“**NHS**”).

mHealth – apps on mobile and connected wearable devices to monitor and improve health and wellbeing.

Telemedicine – delivery of health data from mHealth apps to the patient’s clinician, and the provision of distance support to patients either through healthcare practitioners or AI; the integration of telemedicine services with digitised health systems.

Health data analytics – the digital collation, analysis and distribution (including on a commercial basis).

1.3 What are the core legal issues in health care IT?

The two core legal issues are:

- compliance, in the digital collation and handling of patient data, with the requirements of the EU General Data Protection Regulation (EU) 2016/679 (“**GDPR**”) and the UK Data Protection Act 2018 (“**DPA**”); and
- compliance, in delivering telemedicine services, with the UK healthcare regulatory regime – which is not yet fully updated to deal with the issues arising from the delivery of telemedicine services.

2 Regulatory

2.1 What are the core health care regulatory schemes?

England, Scotland, Wales and Northern Ireland each have their own regulatory regime and competent authority. In England (approximately 85% of the UK population), the relevant legislation is the UK Health and Social Care Act 2008. Broadly equivalent legislation and regulators are in place in the other UK nations. All national regimes require all providers of regulated healthcare services (including e.g. telemedicine) to meet

the requirements of the applicable legislation and to register with the relevant national regulatory body in order to be able to legally undertake those services.

Medicines and healthcare products (including software as a medical device) are governed across the UK by the UK Human Medicines Regulations 2012, the UK Medical Device Regulations 2002 (“**MDR 2002**”) and the EU Medical Device Regulation (EU) 2017/745 (“**EU MDR**”). Note that once EU law (including the EU MDR) ceases to apply in the UK after Brexit, it is intended that the MDR 2002 will be updated to be generally aligned with the provisions of the EU MDR.

2.2 What other regulatory schemes apply to digital health and health care IT?

The use of personal data in digital health is regulated primarily by the GDPR, the DPA, and laws on confidentiality that vary between the different parts of the UK (England, Northern Ireland, Scotland and Wales).

2.3 What regulatory schemes apply to consumer devices in particular?

Consumer health devices are, to the extent they are “medical devices”, covered by the MDR 2002 and the EU MDR. All medical devices need to meet the applicable CE marking requirements in these regulations and must be registered.

All consumer devices are regulated by the UK General Product Safety Regulations 2005 and those other CE marking regulations which apply to the specific product, e.g. UK Electrical Equipment (Safety) Regulations 2016, etc. Evidence of compliance with applicable CE marking laws and regulations must be compiled and maintained by a nominated responsible person in the EU (after Brexit, the UK). Once EU law ceases to apply after Brexit, the UK will implement its own “UKCA” mark, and the UK CE marking regulations will be updated accordingly.

2.4 What are the principal regulatory authorities? What is the scope of their respective jurisdictions?

For the healthcare regulatory regimes in the four nations, the relevant regulatory authorities are:

- England – Care Quality Commission.
- Scotland – Healthcare Improvement Scotland.
- Wales – Healthcare Inspectorate Wales.
- Northern Ireland – The Regulation and Quality Improvement Authority.

The Medicines and Healthcare product Regulatory Agency (“MHRA”) is the competent regulatory authority for medical devices and maintains the register of such devices.

Various regulatory bodies have responsibility for particular UK CE marking regulations (and will retain this responsibility for the “UKCA” marking scheme).

2.5 What are the key areas of enforcement when it comes to digital health and health care IT?

Primary areas of concern:

- Telemedicine service providers: Loss of registration (and thus loss of ability to legally provide healthcare services) for failing to comply with the relevant standards. Serious criminal conduct may result in prosecution and significant fines.
- Medical devices (including software): Failure to comply with the relevant regulations can result in the product being recalled and withdrawn from market by the MHRA, and, if there is serious failure to comply with the regulations, an unlimited fine and/or six months imprisonment on conviction.
- In general: Privacy and data security.

2.6 What regulations apply to Software as a Medical Device and its approval for clinical use?

Software as a medical device is governed by the MDR 2002 and (until the Brexit process is completed) the EU MDR.

3 Digital Health Technologies

3.1 What are the core issues that apply to the following digital health technologies?

- **Telehealth**
 - Determining whether any of the devices used qualify as medical devices.
 - GDPR compliance – appropriate notice and consent practices; implementation of necessary security measures; and ensuring that algorithms are robust and unbiased.
 - Contractual issues between the various suppliers of services and devices.
 - If telemedicine is included, compliance with the local pharmacy and prescribing rules and regulations will be necessary.
- **Robotics**
 - Liability allocation for poor outcomes – designer, manufacturer, HCP or even power supplier.
 - Compliance with Regulations: e.g. for waste electrical and electronic equipment (WEEE).
 - Compliance with MDR 2002/EU MDR.
 - Data protection.
- **Wearables**
 - Determining whether any of the devices used qualify as medical devices.
 - GDPR compliance – securing appropriate consent from data subjects, implementation of necessary security measures, and retention of necessary information.
 - Contractual issues between the various suppliers of services and devices.
- **Virtual Assistants (e.g. Alexa)**
Similar issues as for Telehealth.

- **Mobile Apps**
Similar issues as for Telehealth.
- **Software as a Medical Device**
Compliance with MDR 2002/EU MDR.
- **AI-as-a-Service**
Similar issues as for Telehealth.
- **IoT and Connected Devices**
Similar issues as for Telehealth.
- **Natural Language Processing**
No particular issues.

3.2 What are the key issues for digital platform providers?

Data protection and especially the transmission, storing processing and use of data – and ensuring adequate consent to such use has been obtained.

With Brexit on the horizon it is unclear how the position regarding the movement of data in and out of the UK will arise.

The digital platform provider must ensure, to the extent it is responsible, that advice and services provided on the platform are fit for purpose as failure to process information resulting in personal injury may result in liability.

4 Data Use

4.1 What are the key issues to consider for use of personal data?

- Whether or not (explicit) consent should be used as the basis for personal data processing. This is an area where there is likely to be movement in the near future.
- Determination of whether relevant data is personal data or has been sufficiently anonymised. In the case of de-identified data, the answer is not always clear cut.
- Identifying whether data is *concerning health* (and subject to more stringent rules, as is genetic, biometric and sex-related data), *versus* less sensitive data that might for instance be collected for wellness purposes (e.g. step counts, sporting performance, etc.).
- At least in the short term, Brexit is not expected to substantially change the main privacy and data security requirements applicable to digital health in the UK.

4.2 How do such considerations change depending on the nature of the entities involved?

There is a significant distinction between use of data within *versus* outside the NHS; the impact of “soft law”, such as restrictions deriving from NHS policy and “Directions” issued by the UK Secretary of State, will be more acutely felt when working with NHS-originating data, compared to data in (or sourced from) private healthcare or consumer settings.

Even in public sector contexts, the rules differ between different parts of the UK. An important example is the “National Data Opt-out”, a scheme allowing NHS patients to easily opt out from certain secondary uses of their personal data in England. This does not apply to patient data from Northern Ireland, Scotland or Wales.

4.3 Which key regulatory requirements apply?

The use of personal data in digital health is regulated primarily by the GDPR, the DPA, and laws on confidentiality that vary

between the different parts of the UK (England, Northern Ireland, Scotland and Wales).

In addition, a substantial body of “soft law” tends to be imposed by healthcare regulators, NHS bodies, and other stakeholders’ policies and contracts.

Additional legislation can apply for specific data uses, e.g. the Privacy and Electronic Communication Regulations, “**PECR**”) for access to and storage of data on Internet-connected devices is also restricted by PECR. Medical device or clinical trial laws further limit the use of personal data.

- The GDPR imposes significant restrictions on the use of health data without providing notice of that use and obtaining explicit consents from individuals.
- Operators in England and Wales (in particular) must also deal with more restrictive requirements of “common law”, particularly surrounding confidentiality and misuse of private information (“**MoPI**”). Without consent (which for these purposes could be implied or explicit), or a clear statutory permission, only uses of patient personal data that are necessary in the public interest, are permitted under English and Welsh law on confidentiality and MoPI.
- GDPR/DPA also impose additional requirements, including to keep data secure, maintain its availability and accuracy, report data incidents, appoint a Data Protection Officer and/or a “Representative”, conduct risk assessments, and generally, ensure that usage of personal data is “fair” and does not involve excessive amounts of data.
- GDPR grants individuals substantial personal data rights, e.g. to access or delete their data. The DPA adds certain additional rules, including criminal offences for re-identifying personal data, or selling it after it has been improperly obtained.
- DPA also adds additional conditions (beyond those in the GDPR) on use of personal data for significant automated decision-making that has legal or “substantially similar” effects on an individual. This will need to be borne in mind as software (e.g. AI) becomes increasingly capable of replacing (rather than merely supporting) human decision-making in healthcare settings.

4.4 Do the regulations define the scope of data use?

GDPR/DPA generally prohibit the use of health-related personal data without prior, explicit consent, but list exemptions from that restriction – e.g. use of personal data to provide healthcare (by or under the responsibility of a person bound by a duty of confidentiality) is permitted. Similarly, they allow non-consensual scientific research in the public interest (provided that such research does not entail the taking of decisions affecting the relevant individual(s), unless the project has ethical committee approval).

However, as noted in question 2.2 above, there are supervening restrictions under contract, soft law and confidentiality/MoPI rules. Care should be taken (and specialist advice obtained) to ensure that, where relying on GDPR/DPA exceptions, these restrictions do not apply to the use of personal data.

4.5 What are the key contractual considerations?

Digital health companies will often find themselves subject to heavy requirements imposed by NHS customers. Organisations not dealing with the NHS will often have greater freedom to operate.

More generally, a key consideration for the design and negotiation of contracts is whether for GDPR purposes the different parties are “processors” or “controllers” of the data – and in the latter case, whether two or more parties are “joint” or “independent” controllers. That classification will dictate the GDPR-imposed terms that must be included in the contract, and also inform each party’s compliance strategy and required risk protections (indemnities, warranties, due diligence, and insurance).

If personal data is leaving the European Economic Area, then the GDPR will often require that additional contractual terms (typically based on a preapproved set of “standard”/“model” contractual clauses) must be put in place between the data’s exporter(s) and importer(s).

By contrast, UK data protection laws generally have little impact on contracts *with individuals*; the law is generally clear that data protection-related matters should be dealt with *outside* of those contracts (e.g. through dedicated privacy notices, and stand-alone consent requests, e.g. via pop-up banners or “user settings” pages on websites or in apps).

5 Data Sharing

5.1 What are the key issues to consider when sharing personal data?

The sharing of personal data, rather than its mere use within a single organisation, means that confidentiality and privacy concerns will often be more acute than simply using data. For example, in England and Wales, even greater attention needs to be paid to the existence of consent, statutory permission and/or a public interest justification for the proposed data sharing. To complicate matters, that legal basis might be different for the different parties, and thus subject to differing restrictions and conditions.

Sharing personal data also introduces potentially significant counterparty risk: both parties to a data sharing arrangement might face legal risk even if just one of the parties misuses the data. Due diligence, contracting and clear compliance arrangements are therefore important.

Finally, key aspects of the data sharing may need to be explained to individuals, in accordance with the GDPR’s transparency obligations.

5.2 How do such considerations change depending on the nature of the entities involved?

As with data use, key legal variations tend to be driven by differences in the purpose of data sharing, not the nature of the entities involved. That said, certain public sector entities (particularly, those within the NHS) might have specific legal powers – or restrictions – regarding data sharing and the performance of their public duties. This could also vary depending on their location within the UK.

5.3 Which key regulatory requirements apply when it comes to sharing data?

Preceding answers, in particular for questions 4.1, 4.3, 4.5, 5.1 and 5.2, have covered the key regulatory requirements applicable to the sharing of personal data in a digital health context.

6 Intellectual Property

6.1 What is the scope of patent protection?

Monopoly patent protection is available for novel, non-obvious products or processes which have industrial application. Fees payable on application and renewal. Protection lasts 20 years from date of application, once the patent is granted (see UK Patents Act 1977).

6.2 What is the scope of copyright protection?

Right to prevent copying, dealing in copies, issuance of copies to the public, performance, broadcast, or adaptation for (relevant works only):

- Literary, musical, artistic works (including software) – life of author plus 70 years.
- Published sound recordings – 70 years from date of publishing.
- Broadcasts – 50 years from date of broadcast.

Copyright (generally) arises on creation and fixation of the work, with no requirement for registration. (See UK Copyright, Designs and Patents Act 1988 (the “CDPA”).)

6.3 What is the scope of trade secret protection?

Common law of confidence protects trade secrets. It protects information which:

- has a quality of confidence;
- is disclosed under an express or implied obligation of confidence; and
- is used or further disclosed in an unauthorised manner.

The UK Trade Secrets (Enforcement, etc.) Regulations 2018 also prevent acquisition, use or disclosure of trade secrets where this would constitute a breach of confidence in confidential information. However, the common law of confidence provides stronger and more comprehensive protection.

6.4 What are the typical results on academic technology transfer rules?

IP rights in technology developed in academic institutions usually vests in the academic institution. The institution will typically seek to licence the technology either to existing businesses, or via the creation of a spin-out company to commercialise the technology.

There are no specific laws governing academic technology transfer.

6.5 What is the scope of intellectual property protection for Software as a Medical Device?

Software is only patentable in the UK to the extent that it meets the requirements in the UK Patents Act 1977. These requirements are stringent and difficult to meet for software. Generally, however, software will be protected as a literary work under the CDPA (see question 6.2, above).

7 Commercial Agreements

7.1 What considerations apply to collaborative improvements?

It is often suggested that joint ownership of IP/improvements is the fairest way of approaching collaborations. The downside of this blanket approach is that treatment of jointly owned IP varies from jurisdiction to jurisdiction and also by IP right, so the joint owner might find himself/herself in an invidious situation if complete clarity is set out regarding the permitted uses a joint owner may have over the IP.

There are better ways of approaching this – have ownership following the ownership of background on which the improvement is made or assign it in accordance with predetermined fields of use. Royalty payments and licences to background technology should also be provided for.

7.2 What considerations apply in agreements between health care and non-health care companies?

As with any agreement, the allocation of rights and obligations should be set out, especially in relation to liability. It is likely that the parties will have responsibilities related to their respective expertise, and these should be specified, as well as responsibility for data protection compliance.

Public sector healthcare providers often have very strict rules (even to the extent of bureaucracy) which can mean that negotiation of IP rights, for example, can be difficult to deviate from the norm.

8 AI and Machine Learning

8.1 What is the role of machine learning in digital health?

The statistical and pattern recognition capabilities of machine learning have a wide range of possible applications in the digital health context. These encompass activities which are trivial for any human to complete but challenging for traditional computer systems (e.g. converting handwritten medical records into text) and those which require many years of human expertise (e.g. detecting breast cancer in mammograms). Their use also covers the full range of potential medical purposes from diagnosis, prevention, monitoring, prediction and prognosis of disease to its treatment and alleviation. Applications currently receiving particular attention are the use of pattern recognition techniques to detect abnormalities in medical imaging data. However, any digital health problem which involves the identification of signals in a noisy environment is potentially susceptible to the use of machine learning.

Machine learning can also be applied to the manner in which digital health services are delivered. Natural language processing can, for example, be used to facilitate human interaction with systems which are themselves based on machine learning techniques. Potential applications include “chat bots” combined with expert diagnostic systems to replicate a doctor’s consultation. Current systems are limited to diagnosing specific conditions in tightly controlled situations. Future systems will generalise this approach to broader diagnostic platforms with general application.

8.2 How is training data licensed?

Under English law there is no single property right which applies to data *per se* and there is a general reluctance to treat information as a form of property. There may however be legal rights which may, depending on the nature/source of the data, be used to control access to, use, and disclosure of training data. These include rights in confidential information along with IP rights in the data elements (e.g. copyright, where applicable) or in an aggregation of data (e.g. copyright in original databases or EU database right).

Where these rights exist they can form the subject matter for a contractual licence to training data, e.g. an IP licence and/or knowhow licence. The English courts have also recognised that it is possible to impose contractual restrictions on access to, use and disclosure of data even where that data is not protected by other rights. Training data can therefore also be licensed on a purely contractual basis under English law. The possibility of granting a purely contractual licence does not however give rise to some general right of “ownership” in the data being licensed. Unless they refer to intellectual property rights in the data, reference to “ownership” of data in licences may give rise to confusion as this term has no clear legal meaning under English law. Well-drafted data licences will commonly focus on the rights and restrictions regarding access, use and disclosure of the data and will only refer to ownership in the context of intellectual property rights in the data. They will also address (often complex) issues relating to access, use and disclosure of derived data which is created by the licensee using the licensed data.

8.3 Who owns the intellectual property rights to algorithms that are improved by machine learning without active human involvement in the software development?

Under English law, algorithms are potentially protectable by copyright as original literary works. Where an algorithm is written by a human, the author of that work is the person who creates it (Section 9(1) CDPA). This is taken to be the person responsible for the protectable elements of the work, being those elements which make the work “original” (i.e. those parts that are the “author’s own intellectual creation”).

First ownership of a work and the duration of the protection available are defined with reference to the author. However, where an algorithm is written using machine learning without active human involvement, it may not be possible to identify a human who can be said to have created the work, i.e. there is no human author such that the work qualifies as “computer generated” under Section 178 CDPA. In these circumstances Section 9(3) CDPA deems that the author of the work is the “person by whom the arrangements necessary for the creation of the work are undertaken”. This can potentially be one or more natural or legal persons. Under section 12(7) the duration of protection of a computer-generated work is 50 years from the end of the calendar year in which it is created.

While the test set out in Section 9(3) CDPA determines the identity of the author of a computer-generated, work it is not currently clear as a matter of English law whether such work will actually qualify as copyright work. Under Section 1(1) CDPA, copyright only subsists in *original* literary works, which requires an intellectual creation by the author which reflects an expression of their personality. It is questionable whether an algorithm developed by machine learning without human involvement could be said to be an intellectual creation reflecting the personality of the person making the arrangements necessary for its creation. As

a result, such an algorithm may not qualify for copyright protection under English law. An alternative view is that Section 9(3) CDPA in fact creates its own *sui generis* right for computer generated works which is not subject to the usual requirement for originality. These issues have not thus far been addressed by the English courts and claims to copyright (or an absence of rights) in algorithms developed by machine learning without human intervention must therefore be treated with caution.

8.4 What commercial considerations apply to licensing data for use in machine learning?

Many machine learning projects often involve collaboration between a party with expertise in deploying machine learning and another party with access to the data required to train a machine learning system to solve a particular problem. Common commercial issues which arise in this context include the rights each party obtains in the resulting system, e.g. can the resulting system be resold to others or adapted for purposes which go beyond those originally envisaged.

Similar considerations apply to the future use and disclosure of the training data itself, e.g. is the recipient allowed to retain the data after the project is complete and can it be re-used for other purposes (either in its original form or in some aggregated/derived form) and/or shared with third parties (and if so under what terms)? Where the data is provided on a long-term basis with a defined scope of use, the licensor may wish to include audit rights to ensure the data continues to be used and disclosed in compliance with the terms of the licence.

9 Liability

9.1 What theories of liability apply to adverse outcomes in digital health?

Liability for adverse outcomes in digital health is governed both by the law of contract (where services are not delivered in accordance with a contract) and by the common law of negligence where, whether or not a contract is in place, a duty of care exists between parties, and a breach of that duty (by falling below the reasonable standard expected in carrying out that duty) causes loss (including personal injury).

Additionally, the UK Consumer Protection Act 1987 (the “CPA”) sets out a strict liability regime for consumer products, including medical devices. In summary, under such claims a claimant does not need to show any fault on the part of the defendant. Instead, a claimant needs to demonstrate: (i) the presence of a defect in a product according to an objective standard of safety as reasonably expected by the public; and (ii) a causal link between that defect and the loss suffered.

Finally, the GDPR might create joint and several liability between partnering organisations if GDPR noncompliance led to an adverse outcome – for example, basing clinical decisions on inaccurately-recorded patient data or a biased algorithm.

9.2 What cross-border considerations are there?

Under currently-applicable EU law (the Rome Regulations), generally, UK national (English and Welsh, Scottish or Northern Irish) law will apply to non-contractual (e.g. personal injury) and contractual claims based on digital health delivery to consumers/patients in the UK, whatever the country of origin of the provider. The situation is not expected to change significantly post-Brexit.

10 General

10.1 What are the key issues in Cloud-based services for digital health?

Key issues include (i) data security, (ii) commercial re-use of the data by the Cloud provider, and (iii) whether data will leave the UK.

10.2 What are the key issues that non-health care companies should consider before entering today's digital health care market?

It is a complicated and heavily regulated area, and these regulations can vary from jurisdiction to jurisdiction – no broad brush approach will be applicable. It is also a fast-moving market and keeping up with the changes in regulation is essential.

10.3 What are the key issues that venture capital and private equity firms should consider before investing in digital health care ventures?

When considering a target:

- Ensure that procedures are in place for compliance with relevant areas, especially data protection, MDR and WEE.
- Consider competition – are they first, second or third to market?
- Consider patent protection – has this been secured where applicable and have they taken steps to protect and exploit unregistrable IP, such as trade secrets.
- Do they own all necessary IP?
- Do they have good supply and service contracts in place, and secure sources of hardware?



Sally Shorthose is a partner in the Life Sciences and Intellectual Property Group at Bird & Bird LLP, based in London. Before her return to private practice in 2001, she had spent 11 years working in-house in senior roles in the Life Sciences industry, including several years as Legal Director of the Novartis Group in the UK. She now specialises in transactional IP work and life sciences regulatory work. She is the editor of the Kluwer Law publication, the EU Guide to Pharmaceutical Regulatory Law and is a regular speaker internationally on all types of IP and regulatory issues. She has spent much of the last three years leading the Brexit advisory team at Bird & Bird.

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Ben King is an IP and regulatory lawyer at Bird & Bird. He has a broad practice encompassing life sciences, tech and general regulatory and transactional work, and has significant experience in advising on UK CBD and medical cannabis regulation. He has also assisted on several IP disputes, including *Warner Music & Sony Music v TuneIn* (2019). He has undertaken secondments with a biotech company, a generic pharmaceutical company, and an international bank.

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