

10 July 2020

European Medicines Agency Domenico Scarlattilaan 6 1083 HS Amsterdam The Netherlands

By Email to: dpconsultation@ema.europa.eu

Re: EMA Discussion Paper for Medicines Developers, Data Providers, Research-Performing and Research-Supporting Infrastructures on the General Data Protection Regulation and Secondary Use of Data for Medicines and Public Health Purposes

Dear Sir/Madam,

The International Pharmaceutical & Medical Device Privacy Consortium ('IPMPC') welcomes the opportunity to provide input in relation to the EMA Discussion Paper for Medicines Developers, Data Providers, Research-Performing and Research-Supporting Infrastructures on the General Data Protection Regulation and Secondary Use of Data for Medicines and Public Health Purposes. The IPMPC is comprised of chief privacy officers and other data privacy and security professionals from a number of research-based, global pharmaceutical companies and medical device manufacturers. The IPMPC strives to be a leading voice in the global pharmaceutical and medical device industries to advance innovative privacy solutions to protect patients, enhance healthcare, and support business enablement.<sup>1</sup>

For nearly two decades, the IPMPC has been active in helping to interpret the application of European data protection requirements to biomedical research. We were deeply engaged in the reform of the Data Protection Directive and have been working closely with other life sciences associations to provide guidance to our members and contribute towards a harmonized understanding of how the GDPR applies to the research and development of life-saving medicines, medical devices, and diagnostics. Currently, there are varied interpretations of GDPR requirements as applied to biomedical research among data protection authorities, health authorities, research oversight bodies, ethics committees, and other stakeholders. Therefore, the Question and Answer document described in the Discussion Paper is greatly needed, and we welcome this opportunity to provide input. We also encourage the EMA to consider the development of additional educational and guidance materials

<sup>1</sup> More information about IPMPC is available at www.ipmpc.org. This filing reflects the position of the IPMPC as an organization and should not be construed to reflect the positions of any individual member.

specifically for ethics committees as divergent interpretations of GDPR requirements among ethics committees across EU member states is a significant challenge to conducting cross-border research.

Attached please find as an appendix a set of questions the IPMPC proposes the EMA address in the Q&A document it is developing. For each question, we have also provided a suggested response. Our suggested questions and answers address, amongst other issues:

- In what circumstances is a researcher's processing of key-coded data to be treated as a
  processing of personal data, and in what circumstances is it to be considered a processing of
  anonymised data?
- For purposes of meeting the conditions for processing of special categories of personal data in GDPR Article 9, in what circumstances can a researcher rely on the derogation in Art. 9.2(j) to process personal data concerning health for biomedical research purposes? What qualifies as scientific research? Is a member state's incorporation of Art. 89.1 into its own data protection law sufficient to meet the criterion in Art. 9.2(j) for an applicable EU or member state law?
- When are health researchers permitted to rely on an exception to the general requirement that
  a data protection notice must be provided to data subjects that describes the purposes of the
  processing?
- Can the Privacy Shield Framework be used as a mechanism to transfer key-coded data to researchers in the United States?

In addition to the questions and answers we have proposed, we also encourage the EMA to also address the following issues in the Q&A document:

- What technical, physical, and administrative safeguards are sufficient to anonymise data? What concrete steps need to be taken to anonymise data?
- What is the relationship between Art. 5.1(b), Art. 6.1, and Art. 6.4? In particular, if a legal basis for secondary research processing exists under Art. 6.1, is there a need to engage in a compatibility analysis?
- Which of the legal bases under Art. 6 may be applicable to secondary research using health data? When is it appropriate to rely on consent as a legal basis for further processing of health data for research purposes?
- How do research ethics requirements pertaining to transparency and consent relate to data
  protection requirements? Specifically, when health data is collected directly from individuals for
  primary research purposes, what information must be provided about potential future research
  uses of the data and what is the legal source of these requirements?
- What is an acceptable period for retention of data collected in the context of a clinical trial but retained for further scientific research purposes? What is an acceptable period for retention of biological samples collected in the context of a clinical trial but retained for further scientific research purposes?
- What legal mechanisms can be used to transfer personal data from a processor located in the EU to a non-EU or -EEA based controller? What legal mechanisms can be used to transfer personal data from a processor located in the EU to a non-EU or -EEA based sub-processor?

Although we have focused this submission on the questions and answers we would like to see in the document that is developed, there are a few places in which we think comments are warranted on the Discussion Paper itself:

- The Paper describes secondary processing purposes as 'those compatible with the primary purpose, that however were not explicitly stated at the time of data collection.' (Page 4.) While compatibility of further processing with the original purposes of collection is an important issue, it is important to separate this issue from the definition of secondary processing. We recommend that secondary processing is defined simply as any processing for a purpose different than the purpose for collection of the data.
- The Paper conflates the presumption of compatibility for scientific research with the statement in GDPR Recital 50 that clarifies that the legal basis for further processing can be the same as the legal basis for the primary processing. These are separate issues, and the discussion of these points on pages 9 and 14 should be separated into distinct bullets.

Finally, while we have focused this submission on secondary use of data for health research purposes, it is important to highlight that further guidance is needed on data protection in clinical trials. While the Commission's *Q&A* on the Interplay of the Clinical Trials Regulation and GDPR was very helpful, that Q&A did not address important issues like the appropriate characterization of the roles of the parties in a clinical trial, how data subjects can appropriately exercise their data protection rights, and appropriate mechanisms for transferring clinical trial data to non-EU or –EEA based controllers and processors. We encourage the EMA to separately address these important issues as well.

We thank you for the opportunity to provide this input in the development of the Q&A document. Separately, we are also attaching a copy of our response to the European Data Protection Supervisor's *Preliminary Opinion on Data Protection and Scientific Research*. Many of the issues we addressed in our response to the EDPS Preliminary Opinion are relevant to the Q&A you are developing. We would welcome the opportunity to provide further input as the development of the Q&A document progresses.

Sincerely,

Peter A. Blenkinsop IPMPC Secretariat

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## **Appendix: Proposed Questions & Answers**

## **Proposed Questions Concerning Pseudonymisation**

**Proposed Question:** With regards to a researcher who is provided for scientific research purposes with data that have undergone pseudonymisation by a third party, in what circumstances is the researcher's use of the data to be considered as processing of 'personal data'? Are there circumstances in which the data can be considered to be anonymised as to that researcher?

Proposed Answer: The Regulation defines 'personal data' as 'any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person'. (Art. 4.1.) 'Pseudonymisation' is defined, in turn, as 'the processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person'. (Art. 4.5.) The interpretation of these terms is informed by Recital 26, which states: 'The principles of data protection should apply to any information concerning an identified or identifiable natural person. Personal data which have undergone pseudonymisation, which could be attributed to a natural person by the use of additional information should be considered to be information on an identifiable natural person. To determine whether a natural person is identifiable, account should be taken of all the means reasonably likely to be used, such as singling out, either by the controller or by another person to identify the natural person directly or indirectly. To ascertain whether means are reasonably likely to be used to identify the natural person, account should be taken of all objective factors, such as the costs of and the amount of time required for identification, taking into consideration the available technology at the time of the processing and technological developments.'

In its judgment in Case C-582/14, *Patrick Breyer v Bundesrepublik Deutschland*, the European Court of Justice (CJEU) interpreted the scope of 'personal data' under the Data Protection Directive (95/46/EC). Given the similarity of the definition under the Regulation, that case is instructive. The Court examined whether a dynamic IP address held by an online media services provider would constitute 'personal data' where the online media services provider has the legal means which would enable it to identify the data subject with additional data which an internet service provider has about that person. While the Court answered this question in the affirmative, it also indicated that '[this] would not be the case if the identification of the data subject was prohibited by law or practically impossible on account of the fact that it [were] to require a disproportionate effort in terms of time, cost and man-power, so that the risk of identification [were to] appear[] in reality to be insignificant.' (C-582/14 at ¶ 46.) Thus, whether data that have undergone pseudonymisation by a third party are to be treated as personal data by a researcher who receives the data depends on whether there are means reasonably likely to be used to identify data subjects. Where only a third party has the additional data necessary to identify data

subjects, account must be taken of whether the researcher or any downstream recipient of the data has legal or other reasonably likely means to identify data subjects.

A researcher who is a recipient of data pseudonymised by a third party would not be viewed as processing personal data where all of the following conditions are met:

- Identifiers in the data have been removed or altered so that the researcher has no obvious or readily available means to re-identify data subjects.
- The researcher is prohibited from attempting to re-identify data subjects and has no lawful means to re-identify data subjects.
- There are appropriate technical and organisational safeguards in place to prevent attempts to re-identify the data (including, for example, contractual restrictions on re-identification by any downstream recipients, data access controls, etc.).

# Proposed Questions Concerning Secondary Use of Health and Medical Data

**Proposed Question:** In what circumstances is the derogation in Art. 9.2(j) applicable to the processing of health and medical data?

**Proposed Answer:** Art. 9.2(j) provides a derogation to the prohibition in Art. 9.1 on the processing of special categories of personal data, such as personal data concerning health. The derogation is applicable where the processing 'is necessary for . . . scientific . . . research purposes . . . in accordance with Article 89(1) based on Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject.' Thus, for this derogation to apply, the processing in question must be: (1) necessary for scientific research purposes; (2) conducted in accordance with Art. 89.1; and (3) conducted in accordance with EU or Member State law that applies to the data processing in question (e.g., the Member State has incorporated Art. 89.1 into its own data protection law), provided that such law respects the right to data protection and provides for suitable and specific measures to safeguard the rights and interests of data subjects.

**Proposed Question:** What does 'scientific research' mean in the context of Art. 9.2(j) and Art. 89?

**Proposed Answer:** Recital 159 explains that 'the processing of personal data for scientific research purposes should be interpreted in a broad manner including for example technological development and demonstration, fundamental research, applied research and privately funded research. In addition, it should take into account the Union's objective under Article 179(1) TFEU of achieving a European Research Area.' While no formal definition of 'research' is found in the Regulation, other European projects have sought to tackle the question of 'what is research'? For example, the European Textbook on Ethics in Research (commissioned by the European Commission in 2010) proposes the following working definition: 'Research aims to generate (new) information, knowledge, understanding, or some other relevant cognitive good, and does so by means of a systematic investigation.' The qualifier 'scientific' indicates that the aim of the research must be to generate information, knowledge, or

understanding in the realm of science (as opposed to, for example, in the realm of marketing). As is made clear in the recital, 'scientific research' can be publicly and/or privately funded.

**Proposed Question:** What are the requirements of Art. 89.1?

**Proposed Answer:** Art. 89.1 states that '[p]rocessing for . . . scientific . . . research purposes . . . shall be subject to appropriate safeguards, in accordance with this Regulation, for the rights and freedoms of the data subject. Those safeguards shall ensure that technical and organisational measures are in place in particular in order to ensure respect for the principle of data minimisation. Those measures may include pseudonymisation provided that those purposes can be fulfilled in that manner. Where those purposes can be fulfilled by further processing which does not permit or no longer permits the identification of data subjects, those purposes shall be fulfilled in that manner.'

Recital 156 further explains that '[t]he processing of personal data for . . . scientific . . . research purposes . . . should be subject to appropriate safeguards for the rights and freedoms of the data subject pursuant to this Regulation. Those safeguards should ensure that technical and organisational measures are in place in order to ensure, in particular, the principle of data minimisation. The further processing of personal data for . . . scientific . . . research purposes . . . is to be carried out when the controller has assessed the feasibility to fulfil those purposes by processing data which do not permit or no longer permit the identification of data subjects, provided that appropriate safeguards exist (such as, for instance, pseudonymisation of the data).'

**Proposed Question:** What does the phrase 'based on Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject', as used in Art. 9.2(j), mean?

**Proposed Answer:** This means that in order for the scientific research derogation to apply, there must be data protection safeguards based on EU or member state law that apply to the research, and the research must be conducted in accordance with such safeguards. The law in question must respect the right to data protection and provide for suitable and specific measures to safeguard the rights and interests of data subjects. Where a member state has faithfully implemented Art. 89.1 into its own law, and a researcher's processing of personal data is conducted in accordance with such implementation as well as all other laws applicable to the processing, this is sufficient to meet this criterion. The law in question could be general in nature – e.g., a law that applies to all processing of personal data for scientific research purposes – or it could be narrower in scope, such as a law that applies to processing of personal data for specific categories of scientific research. The law in question could be focused solely on data protection, or data protection could be just one of a number of issues addressed.

## **Proposed Questions Concerning Transparency**

**Proposed Question:** In what circumstances is the derogation in Art. 14.5(b) applicable to the secondary use of health data for scientific research purposes?

**Proposed Answer:** Pursuant to Articles 13 and 14 of the Regulation, controllers must provide data subjects with certain information concerning the processing of personal data about them. Where the data is collected from someone other than the data subject, the information must be provided 'within a reasonable period after obtaining the personal data'. However, an exception to the requirement to provide this information is available where 'the provision of such information proves impossible or would involve a disproportionate effort, in particular for processing for . . . scientific . . . research purposes . . . , subject to the conditions and safeguards referred to in Article 89(1) or in so far as the obligation [to provide the information] is likely to render impossible or seriously impair the achievement of the objectives of that processing.' The exception goes on to require that '[i]n such cases the controller shall take appropriate measures to protect the data subject's rights and freedoms and legitimate interests, including making the information publicly available.' Recital 62 states that in evaluating whether providing notice involves disproportionate efforts, 'the number of data subjects, the age of the data and any appropriate safeguards adopted should be taken into consideration.'

A particular case in which providing notice may involve disproportionate efforts is where a researcher only has access to pseudonymised data. In this situation, it should be recalled that Art. 11.1 provides that '[i]f the purposes for which a controller processes personal data do not or do no longer require the identification of a data subject by the controller, the controller shall not be obliged to maintain, acquire or process additional information in order to identify the data subject for the sole purpose of complying with this Regulation.'

**Proposed Question:** What are some examples of appropriate measures, as referenced in Art. 14.5(b), to protect data subjects' rights and interests when providing an information notice would involve disproportionate effort?

**Proposed Answer:** Appropriate measures as referenced in Art. 14.5(b) to protect data subjects' rights and interests may include undertaking a data protection impact assessment, applying pseudonymisation techniques to the data, minimising the data collected and storage period, and implementing security safeguards.

## **Proposed Questions Concerning International Transfers**

**Proposed Question:** Can a data exporter utilize the Privacy Shield Framework to transfer pseudonymised data to a researcher in the United States who has certified adherence to the Privacy Shield principles?

**Proposed Answer:** The Privacy Shield Framework provides a mechanism for the transfer of personal data to researchers in the United States who have certified compliance to the Privacy Shield principles. Because the Framework itself is unclear with respect to its application to pseudonymised data, a researcher in the United States wishing to rely on the Framework to import pseudonymised data should

make clear in its certification that it agrees to apply the principles to all data that meets the definition of 'personal data' under the Regulation. If the data to be transferred are not identifiable as to all reasonably anticipated recipients (i.e., there are no means reasonably likely to be used by any anticipated recipients to re-identify data subjects), the data would be considered to be anonymised as to such recipients and no longer subject to data protection requirements.

Attachment: IPMPC Comments to European Data Protection Supervisor re Preliminary Opinion on Data Protection and Scientific Research



17 April 2020

Mr. Wojciech Wiewiórowski European Data Protection Supervisor Rue Wiertz 60, B-1047 Brussels

By Email to: edps@edps.europa.eu

Cc: European Data Protection Board (by email to edpb@edpb.europa.eu)

Re: EDPS Preliminary Opinion on data protection and scientific research

Dear Mr. Wiewiórowski,

The International Pharmaceutical & Medical Device Privacy Consortium ("IPMPC") welcomes the opportunity to provide comments on the EDPS's Preliminary Opinion on data protection and scientific research. The IPMPC is comprised of chief privacy officers and other data privacy and security professionals from a number of research-based, global pharmaceutical companies and medical device manufacturers. The IPMPC strives to be a leading voice in the global pharmaceutical and medical device industries to advance innovative privacy solutions to protect patients, enhance healthcare, and support business enablement.<sup>1</sup>

The current COVID-19 global pandemic is a reminder of the importance of fostering an environment that allows for the rapid development and deployment of new drugs and medical technologies to address public health needs. Researchers at pharmaceutical and medical device companies need access to patient health data to study disease progression and the effectiveness of potential therapies. Numerous safeguards exist to protect the confidentiality of data and ensure respect for the privacy of patients in the context of clinical trial conduct and other research activities. Please find attached to these comments an IPMPC Briefing Paper on Personal Data in Healthcare. We hope that the Paper helps inform the EDPS of the types of biomedical research

<sup>&</sup>lt;sup>1</sup> More information about IPMPC is available at www.ipmpc.org. This filing reflects the position of the IPMPC as an organization and should not be construed to reflect the positions of any individual member.

pharmaceutical and medical device companies undertake, the importance of personal data to that research, and our views on how the GDPR applies to it.

Our comments on the Preliminary Opinion focus on the Supervisor's suggested criteria for the GDPR's special regime for scientific research to apply. (§ 3.5.) In particular, our comments focus on the following criteria:

- 'Relevant sectoral standards of methodology and ethics apply, including the notion of informed consent, accountability and oversight'; and
- 'The research is carried out with the aim of growing society's collective knowledge and wellbeing, as
  opposed to serving primarily one or several private interests'.

## A. The Preliminary Opinion fails to adequately consider the full range of biomedical research that could be impacted by a narrow definition of 'scientific research'.

While the Preliminary Opinion includes a discussion of clinical trials, there is little discussion of other types of biomedical research. This could lead one to under-appreciate the different types of research that pharmaceutical and medical device companies perform and how each of these types of research could be impacted by the proposed 'scientific research' criteria. In particular, the Preliminary Opinion suggests that 'only scientific research performed within an established ethical framework' should qualify for the GDPR's special data protection regime. Further, the Opinion suggests that 'the notion of informed consent, accountability and oversight' must apply, but there is little elaboration of the application of these concepts to different types of biomedical research. Thus it is not clear whether it is the EDPS's view that informed consent and Ethics Committee oversight are prerequisites for application of the 'scientific research' derogation. In practice, in some types of biomedical research, obtaining the informed consent of patients is impractical. (This can be due to the number of patients involved, the lack of current contact information, the response rate challenge and response bias, and many other factors.) Instead, researchers rely on alternative, viable safeguards to protect patients' rights and interests, such as pseudonymisation of data and Ethics Committee approval. In other types of research, obtaining a broad consent at the point of data collection to future biomedical research is common, but Ethics Committee review occurs only at the point of data collection, not at each subsequent research use of the pseudonymised data.<sup>2</sup>

#### Example: Real-World Data

Real-world data refers to data collected outside of randomized controlled trials. In a randomized controlled trial, participants are randomly allocated to either a group receiving the drug, device, or other treatment under investigation or a group receiving standard treatment or a placebo treatment as the control, and data is pseudonymised prior to any data analysis being performed. While randomized controlled trials are generally considered the 'gold standard' for demonstrating safety and efficacy, there are inherent limitations. For example, some experimental questions do not allow for random allocation of treatments due to ethical concerns. Moreover, the population as a whole tends to be more heterogeneous than the population of individuals who participate in clinical trials. The behavior of patients and clinicians is also more variable in the real world than in controlled, experimental settings. As a result, an 'efficacy-effectiveness gap' can occur – i.e., a

<sup>&</sup>lt;sup>2</sup> In all cases, researchers evaluate whether anonymised data would be sufficient to fulfil their research purposes. This often depends on whether the data needs to be traceable to its source in order to demonstrate the integrity of the data to competent authorities.

gap between the 'efficacy' of a test article as measured in randomized controlled trial settings and the 'effectiveness' as measured in real-world, clinical practice.

Collection and analysis of real-world data serves a number of important research purposes. First, it enables a more robust assessment of the safety and effectiveness of a health care product in clinical practice. This includes the identification of populations for whom the product is more, or less, safe/effective. This information, in turn, informs clinical decision-making and, in some cases, can even lead to a change in product labelling (e.g., new indications, contraindications, possible side effects). Second, it enables the evaluation of the relative effectiveness of a new product as compared with other, existing products in clinical practice. This also informs clinical decision-making and can influence reimbursement decisions.

Real-world data can be obtained by conducting new studies or by utilizing existing data sources. If the researcher desires to collect or use new data, experimental studies with methodologies that deviate from typical randomized controlled trials can be designed, or observational studies without any experimental interventions can be conducted in accordance with guidelines for good epidemiological practice. In many cases, however, existing data sources, such as electronic health records (EHRs) or health claims databases, may meet a researcher's needs. When utilizing existing data sources, obtaining informed consent of data subjects is often impractical due to the time, cost, and effort involved.

#### Example: Secondary Research Using Clinical Trial Data

Scientific research is often an iterative process in which the results of one study are used to design future studies. In the course of a clinical trial, researchers may notice results that were unexpected and require further investigation. They may wish to analyze the data collected in ways that were not originally envisioned in the clinical trial protocol. More generally, as scientific understanding evolves, researchers' questions may evolve as well. Analysis of existing clinical trial data sets may enable researchers to answer these new questions without having to design and run entirely new clinical trials. This is important not only for purposes of efficiency but also to avoid exposing research participants to unnecessary risks when existing data sources could answer the scientific question.

When individuals enroll in a clinical trial, they may be informed that the data collected about them may be used in future research projects, such as research relating to the same test article or research relating to the same disease or condition in question, or more broadly to research relating to disease mechanisms generally. Such 'future research' usually cannot be described with the same level of specificity as the information in the clinical trial protocol itself because the details of the future research are unknown at the time of data collection and could be further informed by the results of the of the trial itself.

The GDPR recognizes the importance of being able to analyze clinical trial data sets for purposes that may not have been described with as much detail as the original clinical trial protocol. GDPR Recital 33 states that 'It is often not possible to fully identify the purpose of personal data processing for scientific research purposes at the time of data collection. Therefore, data subjects should be allowed to give their consent to certain areas of scientific research when in keeping with recognised ethical standards for scientific research. Data subjects should have the opportunity to give their consent only to certain areas of research or parts of research projects to the extent allowed by the intended purpose.' This informed consent form is reviewed by

<sup>&</sup>lt;sup>3</sup> Recital 33 provides important interpretive guidance by European lawmakers as to what degree of detail is sufficient to meet the requirements of GDPR Art. 4(11) and Art. 7 for a valid consent. Lawmakers were asked to provide guidance on what level of detail in the context of scientific research would be sufficient for consent to be viewed as 'specific', and in

an Ethics Committee prior to data collection, although subsequent research analyses of the pseudonymised data have not historically been viewed as requiring Ethics Committee review provided they are consistent with the consent that was obtained.<sup>4</sup>

## B. The Preliminary Opinion creates new criteria for the 'scientific research' derogation that have no basis in the legislative text.

Recital 159 of the GDPR states that 'For the purposes of this Regulation, the processing of personal data for scientific research purposes should be interpreted in a broad manner [as] including[,] for example[,] technological development and demonstration, fundamental research, applied research and privately funded research.' The Preliminary Opinion, in contrast, suggests that the scientific research derogation should be limited to 'research [that] is carried out with the aim of growing society's collective knowledge and wellbeing, as opposed to [research] serving primarily one or several private interests'. This new criterion creates considerable uncertainty as to how it would be interpreted or who would have appropriate authority to decide whether a particular research project sufficiently benefits society's collective knowledge and wellbeing versus benefiting a private interest. The IPMPC disagrees with the Preliminary Opinion's framing of private interests as largely in competition with the public interest.

In support of this new criterion, the Preliminary Opinion cites to an inapposite European Court of Justice case from 1985. The referenced case, ECJ Case 234/83 *Gesamthochschule Duisburg v Hauptzollamt München-Mitte,* relates to customs duties on educational, scientific and cultural materials under Regulation No 1798/75 (10 July 1975). That Regulation included an exemption for scientific instruments and apparatus imported exclusively for non-commercial purposes, and one of the questions in the case involved how to interpret the term 'scientific activities' as used in the definition of 'a scientific instrument or apparatus'. Because the tariff exemption in the Regulation was limited to scientific instruments and apparatus imported exclusively for non-commercial purposes, the ECJ Judgment concludes that in the context of Regulation No 1798/75, 'scientific activities' refers to scientific research carried out for non-commercial purposes. It is entirely unclear how this case is relevant to the interpretation of 'scientific research' under the GDPR or how it supports the newly proposed criterion.

#### **Conclusion**

The current COVID-19 pandemic highlights the importance of the development of harmonized, practical, and balanced guidance on the application of the GDPR to health research. While we applied the EDPS for addressing the very important question of how the 'scientific research' derogation should be applied, the IPMPC believes that the Preliminary Opinion fails to fully appreciate the full scope of the types of health research impacted and the role of privately funded research in the development of products and services to meet important health needs. Personal data is critical to this research. In both the recitals and operative text, the

Recital 33 they did so. It would be contrary to ordinary rules of legislative construction to treat Recital 33 as simply ancillary text not relevant to interpretation of the GDPR. In any event, the 'scientific research' derogation provides a separate means for meeting the requirements of GDPR Art. 9.

<sup>&</sup>lt;sup>4</sup> To the extent consistent with the research purpose and the need for source data traceability, further de-identification of the pseudonymised data may occur prior to secondary analysis.

GDPR recognizes the importance of privately funded biomedical research and provides for appropriate flexibility in the application of data protection requirements.

We thank you for the opportunity to provide these comments.

Sincerely,

Peter A. Blenkinsop

Veter Blenkinsop

**IPMPC** Secretariat



#### **IPMPC** Briefing Paper

## Personal Data in Healthcare

**Synopsis:** Collection and further processing of personal data is crucial to the development of medical products and delivery of healthcare services. The GDPR recognises the importance of these activities and creates a flexible data protection framework that takes into account the data processing needs of health researchers.

#### **INTRODUCTION**

Over the last century, medical science has transformed human health. At the start of the 20<sup>th</sup> Century, the average life expectancy in developed countries was slightly over 45 years. Today, life expectancy exceeds 75 years. The 20<sup>th</sup> Century witnessed the eradication of smallpox and considerable progress toward the eradication of polio and other infectious diseases that until such time killed by the millions. Immunizations and antibiotics greatly reduced diseases such as tuberculosis, whooping cough, diphtheria, and typhoid fever. In this golden era of medicines research, the structure and function of DNA was elucidated, leading to the mapping of the human genome. Numerous medicines from immunosuppresives to antidepressants to contraceptives were developed, improving and saving lives. Prosthetic limbs have been invented that closely mimic natural body motions for amputees; advances in medical imaging have enabled doctors to quickly and accurately identify injuries and diseases; and artificial organs have been engineered that can replace natural organs, allowing patients to return to a normal life.

The life-saving treatments available today were made possible by an environment that fostered health research and recognized that medical innovation benefits society. Medical discoveries rely on the ability to safely and effectively collect and analyze personal data concerning patient treatment and outcomes. Without personal data, scientists would lack insight into the causes of certain conditions and diseases, and development of curative and preventative measures would be impossible. In each of the steps in the scientific process – i.e., an observation leading to a hypothesis, followed by testing and then confirmation – the ability to effectively collect, analyze, and re-analyze patient information is crucial. The ability to sustain and expand on such scientific innovations depends upon the continued availability of patient information to meet researchers' needs.

Personal data is not only critical to the work of the biopharmaceutical and medical device industries; the ability to use personal data has healthcare ramifications for policy makers and government as well. Analysis of personal data is an important public health tool used to quickly identify and remedy adverse events in certain populations when they are first reported. Personal data also shapes healthcare policies which are based on information about the costs and benefits of interventions. In short, personal data has a profound and often understated impact on many aspects of healthcare.

#### THE IMPORTANCE OF PERSONAL DATA TO HEALTHCARE

As described above, the ability to use personal data is critical to medical innovation, public health, and healthcare efficiency. These uses are further summarized below:

- The development of new medical interventions demands extensive testing to ensure patient safety and
  effectiveness. Moreover, the European Medicines Agency and other health authorities are increasingly
  requiring the evaluation of the effectiveness of medicines and medical devices in real-life settings creating
  a need to collect 'real-world evidence' derived from patient medical records.
- Advances in life sciences are enabling far more targeted delivery of medicines to patients. Such
  'personalized' medicine looks at the genetic and phenotypic characteristics of individual patients to
  determine which treatments will be most safe and effective.
- Financial pressures demand that healthcare resources are used efficiently. Data about healthcare resource use and health outcomes can help inform policy development to increase healthcare efficiency.
- With the adoption of electronic health records (EHRs) and platforms for sharing EHRs, new opportunities
  are arising for the study of patterns of disease development and progression, providing new insights into
  the causes and control of disease.

#### Biomedical Research

Research uses of personal data can be further broken down into the following categories:

- **Discovery and early-stage development** is the first stage in medical product R&D. In the development of new drugs, for example, this often involves the testing of human biological samples to validate or disprove a research hypothesis.
- Clinical research involves the evaluation of the safety and efficacy of medical interventions under controlled conditions in human subjects. Clinical research is highly regulated. Clinical research in the European Union is subject to requirements at the Union and Member State levels<sup>5</sup>, as well as international standards, such as the good clinical practice guidelines issued by the International Council for Harmonisation.
- Pharmacoepidemiology and Medical Device Epidemiology is the study of the use and effects of drug
  therapies and medical devices in large numbers of people. As an example, in the field of cancer,
  pharmacoepidemiology examines the effects of medications on cancer risk, disease prevention, and

<sup>&</sup>lt;sup>5</sup> Clinical research requirements vary from member state to member state. Clinical trials of medicinal products are currently subject to the EU Clinical Trials Directive and will be subject to the Clinical Trials Regulation once its full application goes into effect. Similarly, clinical investigations of medical devices are currently subject to the Medical Devices Directive and the In Vitro Diagnostic Directive will be subject to the Medical Devices Regulation and the In Vitro Diagnostic Regulation on their respective dates of application.

response to treatments, as well as any adverse and/or long-term effects of chemotherapeutic and other pharmacologic agents used to treat cancer.

- Pharmacogenomics focuses on understanding how variability in genes impacts drug response. Thus,
  pharmacogenomics seeks to correlate individual differences in adverse effects and treatment
  effectiveness with gene expression for drug-metabolizing enzymes, drug transporters, drug receptors, and
  proteins involved in pathway signaling.
- Pharmacoeconomics and medical device health economics evaluate the costs and benefits of a pharmaceutical or medical device product. Pharmacoeconomic and medical device health economic studies serve to guide optimal healthcare resource allocation.
- Pharmacovigilance and medical device vigilance encompass the science and activities relating to the detection, assessment, understanding, and prevention of adverse events or any other drug/device related adverse effects. Pharmaceutical and medical device companies have ethical and legal obligations to accurately collect, analyze, and report adverse events in a timely fashion both during clinical trials and after a drug/device is on the market. In the EU, pharmacovigilance and medical device vigilance are specifically regulated under the CTD/CTR, MDD/MDR, and IVDD/IVDR.

#### What Is Biomedical Research?

Biomedical research is a category of scientific research that involves the study of biological processes and diseases with the goal of developing effective treatments and cures. There are multiple ways to classify biomedical research, irrespective of whether the research is public or private. For example, basic research aims to advance fundamental knowledge about medical science whereas applied research focuses on the practical application of science to medicine. Another classification focuses on whether the research is clinical or epidemiological. Clinical research involves the investigation of medicines, medical devices, and diagnostic products to evaluate their safety and effectiveness. Epidemiological research examines the distribution and changes of the frequency of diseases in defined populations with the goal of identifying causes. A third possible classification focuses on the role of the investigator and whether the research is interventional versus observational. Interventional research (sometimes also referred to as 'experimental research') involves the administration of a test article or change to clinical practice or to research participants' usual behaviors. In contrast, in observational research, patients are allocated treatments based on clinical decisions and researchers simply observe how differences in clinical decisions result in different health outcomes. Yet another classification focuses on the temporal nature of the study design and looks at whether the research is prospective versus retrospective. Prospective studies are forward-looking whereas retrospective studies involve the analysis of historical data.

A clinical trial is a type of prospective, interventional clinical research. In a clinical trial, a test article is administered to research participants and data is collected concerning participants' health outcomes. In other types of clinical research, blood, tissue, and other biological samples may be collected and analyzed.

#### **GDPR'S APPLICATION TO BIOMEDICAL RESEARCH**

The General Data Protection Regulation (GDPR) provides special rules for the processing of personal data for scientific research purposes. These rules reflect a recognition that scientific research serves the public good

and seek to enable the use of personal data for research purposes as long as certain protections are implemented. The special recognition given to the processing of personal data for scientific research purposes is discussed in Recital 159 of the GDPR which declares that the Regulation 'should take into account the [European] Union's objective under Article 179(1) [of the Treaty on the Functioning of the EU (TFEU)] of achieving a European Research Area.' Article 179(1) of the TFEU states: 'The [EU] shall have the objective of strengthening its scientific and technological bases by achieving a European research area in which researchers, scientific knowledge and technology circulate freely . . . .' Article 13 of the Charter of Fundamental Rights of the European Union sets forth (in the same chapter as the right to protection of personal data (Art. 8)) that 'scientific research shall be free of constraint'. Recital 159 of the GDPR also declares that 'For the purposes of this Regulation, the processing of personal data for scientific research purposes should be interpreted in a broad manner including for example technological development and demonstration, fundamental research, applied research and privately funded research.'

Under the GDPR, a number of rules apply to the processing of personal data. These include, first, that all processing of personal data must have a legal basis. Second, the processing of special categories of personal data, such as data concerning an individual's health, is prohibited unless one of several criteria is met. Third, personal data may only be collected for specified and explicit purposes, and they may not be further processed in a manner incompatible with those initial purposes. Fourth, data subjects have a number of rights with respect to their personal data, starting with a right to transparency of information processing by data controllers.

#### **Legal Basis for Processing**

Within a particular biomedical research project, aside from the overall objective of gaining scientific understanding, there may be several closely-related ancillary data processing needs. For example, in a clinical trial, some data processing is necessary to comply with applicable regulations governing clinical trials. One could potentially view the legal basis for these particular data processing activities as processing that is necessary to comply with a legal obligation to which the controller is subject. Some data processing activities could also rely on the consent of the data subject as the legal grounds for processing, provided that consent is freely given, specific, informed, and unambiguous.

As a potentially more broadly applicable legal basis for biomedical research activities, GDPR Article 6 allows for processing of personal data 'necessary for the purposes of the legitimate interests pursued by the controller or by a third party, except where such interests are overridden by the interests or fundamental rights and freedoms of the data subject which require protection of personal data.' The Article 29 Working Party has previously commented that the processing of personal data for research purposes is one of the most common contexts in which the issue of legitimate interests may arise. Recital 47 of the GDPR elaborates on factors to be considered in conducting the required weighing of interests. Recital 47 suggests that particular weight should be given to whether data subjects would reasonably expect the processing in question.

<sup>&</sup>lt;sup>6</sup> Working Party Opinion 06/2014, at 24-25.

Pharmaceutical and medical device companies have a legitimate interest in research and development of new products to diagnose, treat, and prevent diseases and conditions. Moreover, these interests are compelling and beneficial to society at large. Subject to appropriate safeguards, biomedical researchers can rely on these legitimate interests to meet the requirement of the GDPR that all processing must have a legal basis.

It is important to understand that where processing is based on the legitimate interests of the controller or a third party, the data subject has the right to object to such processing at any time 'on grounds relating to his or her particular situation'. (Art. 21) If an objection is raised, the controller is obliged to cease processing the personal data unless it can demonstrate 'compelling legitimate grounds' that override the data subject's interests.

#### Prohibition on Processing of Special Categories of Personal Data

Article 9 of the GDPR sets forth the general rule that the processing of special categories of personal data is prohibited unless one or more criteria are met. The explicit consent of the data subject provides one means of overriding the prohibition, but there are several other grounds as well that could be applicable to biomedical research. These include:

- Processing that is necessary for reasons of 'substantial public interest', where such processing is 'on the basis of [European] Union or Member State law';
- Processing that is necessary for reasons of 'public interest in the area of public health, such as . . . ensuring high standards of quality and safety of health care and of medicinal products or medical devices', again where such processing is 'on the basis of [European] Union or Member State law'; and
- Processing that is necessary for scientific research purposes 'in accordance with Article 89(1),' and, again, where such processing is 'based on [European] Union or Member State law'.

In each case, the EU or Member State law in question 'must be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject.' (See also Recital 52.) Recital 41 serves to clarify what can qualify as 'based on EU or Member State law'. Recital 41 indicates that references in the GDPR to a legal basis or a legislative measure do not necessarily require a legislative act adopted by a parliament but rather simply require a legal measure 'clear and precise' and foreseeable in its application by persons subject to it.

#### What Is 'Scientific Research'?

The European Textbook on Ethics in Research (commissioned by the European Commission in 2010) seeks to tackle the question of 'what is research'? The authors propose the following working definition: 'Research aims to generate (new) information, knowledge, understanding, or some other relevant cognitive good, and does so by means of a systematic investigation.'

The qualifier 'scientific', as used in the GDPR, may be aimed at distinguishing research concerning the structure and behaviour of the physical and natural world – including biomedical research – from other types of research (for example, from marketing research). In any event, as is made clear in Recital 159 of the GDPR, 'scientific research' can be publicly and/or privately funded.

As indicated, the derogation for processing that is necessary for scientific research purposes references Article 89(1). Article 89(1) states that processing of personal data for scientific research purposes must be subject to 'appropriate safeguards . . . for the rights and freedoms of the data subject'. In particular, Article 89(1) highlights the principle of data minimisation and suggests the use of pseudonymisation or anonymisation as techniques to protect data subjects' rights.

#### Interpretation of References in Article 9 to EU or Member State Law

The text of the GDPR does not indicate whether the repeated references in Article 9 to processing that is 'based on EU or Member State law' require some explicit act or statement indicating a legislative desire to establish a derogation to the prohibition on processing of special categories of personal data, or whether a more general law or regulation covering the type of research in question would qualify provided it addresses safeguards to protect data subjects' rights. The recitals to the GDPR strongly suggest the latter interpretation. For example, Recital 157 states:

By coupling information from registries, researchers can obtain new knowledge of great value with regard to widespread medical conditions such as cardiovascular disease, cancer and depression. . . Research results obtained through registries provide solid, high-quality knowledge which can provide the basis for the formulation and implementation of knowledge-based policy, improve the quality of life for a number of people and improve the efficiency of social services. In order to facilitate scientific research, personal data can be processed for scientific research purposes, subject to appropriate conditions and safeguards set out in Union or Member State law.

Thus, it is lawful to process data for registries under the derogation for processing that is necessary for scientific research purposes provided that researchers follow the rules and safeguards established by Member States for such research. Similarly, clinical trials of medicinal products in the EU will soon be subject to the Clinical Trials Regulation (CTR), which includes extensive requirements to safeguard research participants' rights, including data protection rights. Thus the processing of personal data for a clinical trial conducted in accordance with the CTR (once in effect) should be viewed as based on EU law (or before the Clinical Trials Regulation goes into effect, such processing should be viewed as based on each member state's law implementing the Clinical Trials Directive).

As noted, GDPR Recital 41 serves to clarify what can qualify as 'based on EU or Member State law'. Recital 41 indicates that references in the GDPR to a legal basis or a legislative measure do not necessarily require a legislative act adopted by a parliament but rather simply require a legal measure 'clear and precise' and foreseeable in its application by persons subject to it. An approved code of conduct pursuant to GDPR Art. 40 provide one means to fulfil the requirement for a legal measure clear, precise, and foreseeable in its application.

#### Compatibility of Further Processing

Article 5 of the GDPR states that personal data may only be collected for 'specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes'. It goes on to state that 'further processing' for scientific research purposes shall 'not be considered to be incompatible with the initial purposes', in accordance with Article 89(1). Therefore, biomedical research using data that was originally collected for a different purpose is not inconsistent with the GDPR's 'purpose limitation' principle.

Recital 50 clarifies that where processing is 'compatible' with the initial purposes of data collection, then no separate legal basis is required to enable the further processing: 'The processing of personal data for purposes other than those for which the personal data were initially collected should be allowed only where the processing is compatible with the purposes for which the personal data were initially collected. In such a case, no legal basis

separate from that which allowed the collection of the personal data is required'. Moreover, Recital 50 states that 'Further processing for . . . scientific . . . research purposes . . . should be considered to be compatible lawful processing operations.' Recital 50 suggests that identification of a new legal basis under Article 6 for further processing of personal data for biomedical research purposes is unnecessary. In any event, as discussed above, biomedical research should ordinarily be viewed as having a legal basis under GDPR Art. 6(1)(f) – i.e., the legitimate interests of the controller or a third party, provided those interests are not overridden.

#### Right to Information

Pursuant to GDPR Articles 13 and 14, controllers must provide data subjects with certain information concerning the processing of personal data about them. Where the data is collected from someone other than the data subject, the information must be provided 'within a reasonable period after obtaining the personal data'. However, an exception to the requirement to provide this information is available where 'the provision of such information proves impossible or would involve a disproportionate effort, in particular for processing for . . . scientific . . . research purposes . . . , subject to the conditions and safeguards referred to in Article 89(1) or in so far as the obligation [to provide the information] is likely to render impossible or seriously impair the achievement of the objectives of that processing.' The exception goes on to require that '[i]n such cases the controller shall take appropriate measures to protect the data subject's rights and freedoms and legitimate interests, including making the information publicly available.' Recital 62 states that in evaluating whether providing notice involves disproportionate efforts, 'the number of data subjects, the age of the data and any appropriate safeguards adopted should be taken into consideration.'

When collecting personal data from patients as part of a clinical trial, the sponsor (through the clinical investigator) provides patients with information concerning potential secondary data analyses. The personal data that is reported by the clinical investigator to the sponsor is key-coded, and the sponsor has no means to identify or contact the participants without the assistance of the clinical investigator. In the context of research using real-world data, the researcher is again typically provided access only to pseudonymised data. GDPR Art. 11(1) states that '[iff the purposes for which a controller processes personal data do not or do no longer require the identification of a data subject by the controller, the controller shall not be obliged to maintain, acquire or process additional information in order to identify the data subject for the sole purpose of complying with this Regulation.'

#### **CONCLUSION**

Collection and further processing of personal data is crucial to medical research. Recognizing the importance of research and development of new medical devices, diagnostics, and medicines, European legislators created a data protection legal framework that takes into account health researchers' needs. As further GDPR implementation guidance and measures are adopted, it is vital to consider all the different types of health research that public and private entities engage in and how data protection rules could impact such research if not implemented in the flexible manner allowed under the legislation.