

Index

Academy of Medical Sciences, UK, 35, recontacting, conditions on, 143 65,66 relocation or termination of project, access to data, 140-152 conditions regarding, 144 agreements regarding, 141-144 restricted access, 141 Certificates of Confidentiality, US, return or destruction of data or 133-135 biospecimens at conclusion of colleagues, allowing access to data by, 140 project, 144 consent security requirements for, 144, 159 conformance of access arrangements terms and conditions of restricted access, to, 143 142-144 open release of identifiable data with, accountability EU Data Protection Directive on, 42 as OECD privacy principle, 40 withdrawal of, with shared data, 143 court, legal, and police demands for, 6, Acquisti, Alessandro, 97 132, 134, 159 activities preparatory to research, 80 data access committees (DACs), 141, Agency for Healthcare Research and 151-152 Quality, US, 54 de-identified data, open release of, 141 aggregate genomic data, resolution of DNA defined, 140 contributions in, 120 ethics committee approval for, 144 ALSPAC (Avon Longitudinal Study of Parents and Children), 26 extremely restricted, 149-151 freedom of information laws, demands American Medical Association (AMA) ethics code regarding privacy and under, 6, 133 individual participation principle, OECD confidentiality, 34 ancestry, and data sensitivity, 21-22 guidelines, 39 "anonymization" of data, 94, 105, 106 jurisdictional conditions regarding, 144 APEC see Asia-Pacific Economic limitations on onward transfer, 144 linking conditions, 144 Cooperation material transfer agreements for Article 29 Data Protection Working Party, biospecimen access, 142 European, 42, 154 non-research access, requests for, on accountability, 45 132-135, 159 on concepts of controller and processor, open access, 140-141 oversight and governance of, 151-152 on definition of consent, 44 privacy-preserving data linkage systems, determination of adequacy of protection 105, 146-149 from data transfers from EU/EEA, professional competency requirements The Future of Privacy, 46 for accessing, 142 progress in future, actions and policies on geolocation services, 91 likely to contribute to, 159 mandate of, 42 purpose limitation continuance, 143 on personal data, 89-90, 107

176



> Index 177

Asia-Pacific Economic Cooperation (APEC) broad privacy and data protection regimes in, 50–51 Privacy Framework, 51 Australia broad privacy and data protection regimes in, 49-50 health-related privacy regimes in, 64-65 research without consent, conditions allowing for, 81 Western Australia Data Linkage System, 28, 147 Australian Law Reform Commission, 49, 65, 66, 89 Australian National Health and Medical Research Council, 30, 50, 64 Australian National Statement on Ethical Conduct in Human Research, 64 Australian Privacy Act (1988), 49-50 definition of personal data in, 88 review and revision of, xiii, 49, 64, 89 Avon Longitudinal Study of Parents and Children (ALSPAC), 26 behavioral/social research integrated with health research, 15 Belmont Report (Ethical Principles and Guidelines for the Protection of Human Subjects, 1979), 55-56 Biggs, Hazel, 33 binding corporate rules, international transfers of data under, 155 Biobanking and Biomolecular Resources Research Infrastructure project, 17

biobanks, 16-17 biospecimens collections of, 13-17 defined, 13-14 see also data and biospecimens BioVU, Vanderbilt University, 28, 115, 148 birth cohorts, defined, 18 see also cohort and other longitudinal studies breach of confidence, legal definition of, 33-34 requirements for, 135-136 breaches of security, notification requirements for, 135-136

breaches of data security, notification

Burton, Paul, 114 Byers, Lord, 37

Caldicott Guardians, 65, 128 Canada

broad privacy and data protection regimes in, 48-49

ethics review system in, 63 health-related privacy regimes in, 53, 57, 63 - 64

Ontario Personal Health Information Protection Act (PHIPA), 53

Personal Information Protection and Electronic Documents Act (PIPEDA), 48–49, 53, 128, 153 Privacy Act, 48

privacy officers in, 128

research without consent, conditions allowing for, 81

roadmap on research use of electronic health information, 64, 65, 66 Statistics Act, 150

Statistics Canada, 150

transfers of data within and from, 153 Canadian Institutes of Health Research, 57 Canadian Standards Association, Model Code for the Protection of Personal Information, 48

Canadian Tri-Council Policy Statement, Ethical Conduct for Research Involving Humans, 57, 63

Cancer Research UK, 65

Centers for Disease Control and Prevention (CDC), US, 54, 133-135

Certificates of Confidentiality, US, 133-135 certification of low identifiability risk under HIPAA Privacy Rule, 99-100

Charter of Fundamental Rights of the European Union (2000), 30

Church, George, 121

Clarke, Roger, 29

clinical trial regimes, 57–59

Clinical Trials Regulations, UK, 65

CNIL (Commission national de l'informatique et des libertés), 45

cohort and other longitudinal studies consent and, 74, 76

data sharing by, 139

defined, 18

colleagues, allowing access to data by, 140

collection limitation principle, as OECD principle, 39

collections see under data and biospecimens Commerce Department, US, and Safe Harbor agreement, 155

Commission national de l'informatique et des libertés (CNIL), 45

community consultation and engagement, 79 - 80



178 Index

competency requirements for access to data, withdrawal of, 78-79, 143 142 contractual agreements, international computer linking of data, 146 transfers under, 152-153, 154, 156 Confidential Information Protection and cost of health care, and public interest in Statistical Efficiency Act, US, 150 health research, 2 confidentiality Council of Europe Convention 108 on Protection of breach of, 33-34 defined, 33-34 Personal Data (1981) distinguished from privacy, 32, 33 current revising of, xiii Hippocratic medical, 52–53 development of, 40 see also privacy, confidentiality, and health EU Data Protection Directive research embracing principles of, 42 distinguished from EU and its governing consent, 67-86 in access agreements see under access to Council, 40 Recommendation on Profiling, 90 data agreement process, importance of, 71 Recommendation on Research on Biological Materials of Human broad consent, preferability of, 5, 74-77, Origin, 36 cohort studies and, 74, 76 Council of International Organizations of community consultation and Medical Sciences, 55 engagement, 79-80 court access to data, 6, 132-135, 159 in complicated research projects, 5 Craig, David, 120 conventional application of, 69-70 custodians, 126 Declaration of Helsinki on, 67, 68, 71, 78 cyber security, concept of, 130-131 duration/continuation/renewal of, 71 empowerment or control, questionably data access committees (DACs), 141, viewed as providing, 85 151 - 152data and biospecimens, 7-26 entrusting, viewed as, 85-86 European Article 29 Working Party on, 44 collections of, 11-17 explicit versus implicit, 77 biospecimen collections, 13-17 freely/willingly/voluntarily granted, 73-74 databases, 11-12 "fully" informed, problems with, 72, 116 registries, 12-13 future progress, actions and policies likely definitions pertaining to, 7-10, 13-14 to contribute to, 158 direct control over, reduction of, 6 in genetic and genomic studies, 116-118, e-health revolution and, xiii-xiv, 10-11 121-122, 123-124 electronic health records (EHRs), 10-11 inadequacy of standard accounts now, electronic medical records (EMRs), 11 68-69, 84-86 financial or other rewarding of subjects for international transfers from EU/EEA on use of, 24 basis of, 155 information versus data, 7 as intellectual property, 23 legitimately sought, 71 meaningfully informed, 71-73 metadata, 7 ownership of, 22-24 narrow consent, 74 Nuremberg Code on, 67 personal health records (PHRs), 11 open release of identifiable data with, primary versus secondary use of, 9-10 retention of, 129, 144 opt-in versus opt-out agreements, 77-78 secondary use of data EU Data Protection Directive on, regulations and requirements, 75 research without, conditions allowing for, 43 81 - 84versus primary use, 9-10 as right, 67 vulnerability of health care versus health to sharing of research data, 5 research data, 4 of vulnerable populations, 74 see also access to data, de-identification of data, future use of data, linking of waiver of legal rights prohibited in agreements, 71 data, personal data and



Index 179

identifiability, platforms, security of data, sensitivity of data, transfers of data controllers, 42, 127 data disclosure, defined, 8 data enclaves, 149-151 data handling or processing, defined, 8 data processors, 127 Data Protection Act, UK, 38 contractual transfers of data under, 153 coverage of research as a medical purpose, data-subjects in, 8 EU Data Protection Directive, transposition of, 41, 45, 47 health-related privacy regimes and, 65 personal data and identifiability under, data quality principle, OECD guidelines, 39 data safe havens/safe harbors/enclaves, 149-151 data sharing, 138-140 access agreements, onward transfer limitations in, 144 advantages of, 138-139 by cohort or longitudinal studies, 139 defined, 9 organized pressures for, 138-139 Thomas and Walport report on, 81, 139, 150 data stewards, 141 data-subjects, definition of, 8 see also subjects data use agreements, enforcement of, 136-137 Database of Genotypes and Phenotypes (dbGaP), 27 databases, 11-12 dbGaP (Database of Genotypes and Phenotypes), 27 de-identification of data certification of low identifiability risk under HIPAA Privacy Rule, 99 genetic and genomic data, 118-119 importance of, 109-110 open release of de-identified data, 141 reduced consent and procedural requirements for de-identified data, 158 techniques for, 93-95 Declaration of Helsinki, 36, 54-55, 60, 67, 68, 71, 78 Department of Commerce, US, 155 destruction or return of data or

disclosure of data, defined, 8 discrimination, genetic, 137 Duke University epilepsy genomics study, 116, 117 Durant v. Financial Services Authority (UK), 87,90 e-health revolution, 10-11 Economic and Social Research Council, UK, 65 electronic health records (EHRs) described, 10-11 genomic discovery, EHR-driven, 115 integration of genetic and genomic data with, 123 electronic medical records (EMRs), 11 Electronic Medical Records and Genomics (eMERGE) Network, 115 encryption of data, 104, 105, 136 enforcement and sanctions, 135-137 entrusting, consent viewed as, 85-86 Ethical Conduct for Research Involving Humans (Canadian Tri-Council Policy Statement), 57, 63 Ethical Principles and Guidelines for the Protection of Human Subjects (Belmont Report, 1979), 55-56 ethics access to data, ethics committee approval for, 144 Australian National Statement on Ethical Conduct in Human Research, 64 consent as cornerstone of, 67 see also consent of genetics and genomics exceptional treatment, need for, 111 mismatch of scientific advance and personal and social understanding, 6, 111 health, value placed on, 1 importance of privacy protection for research, 3-4 privacy, value placed on, 3 review systems, 60-61, 63, 65, 75, 107 sensitivity of data and biospecimens see sensitivity of data Ethics and Governance Council of UK Biobank, 152 ethnicity, and data sensitivity, 21-22 EU Clinical Trials Directive (2001), xiii, 58 EU Data Protection Directive (1995), 41 - 47on consent, 73 current revising of, xiii, 46

biospecimens at conclusion of

project, 144



180 Index

EU Data Protection Directive (1995), from Europe to other countries, (cont.) 154-156 on data controllers and data processors, explicit versus implicit consent, 77 127 external access to data see access to data data processing, definition of, 8 EU Clinical Trials Directive deference to, fair information practices, 32 families of research subjects see relatives of national transpositions of, 41, 44 research subjects personal data and identifiability under, Federal Common Rule on Protection of 87, 88, 89-90, 91 Human Subjects, US (1991), 56-57 problems with, 44-47 clinical trials and, 58 on public interest, 44 on consent, 77 on secondary use of data, 43 current revising of, xiii on sensitivity of data, 22, 42, 43, 44 HIPAA Privacy Rule and, 56, 62 suspension of subjects' right of access to human subjects as defined by, 108 data, on circumstances allowing, 43 research as defined by, 24, 25-26 on transfers from EU/EEA to other on withdrawal of consent, xiii, 78 countries, 154-156 Federal Trade Commission Act, US, 47 on transfers within EU/EEA, 153 FOIA (Freedom of Information Act), US, Europe, Council of see Council of Europe 59, 135 European Article 29 Data Protection Food and Drug Administration, US, 58, Working Party see Article 29 Data 133-135 Protection Working Party, European Food, Drug, and Cosmetic Act, US, 57 European Commission, 154, 155 For Your Information: Australian Privacy Law European Convention on Human Rights and Practice (Australian Law Reform applicability of, 30 Commission, 2008), 49 as based on the Universal Declaration of Framingham Heart Study, 26 Human Rights, 30 France CNIL (Commission national de on exceptions to right to privacy, 31 on privacy as fundamental right, 30 l'informatique et des libertés), 45 European Union/European Economic Area early privacy legislation in, 38 (EU/EEA) EU Data Protection Directive, national transposition of, 45 broad privacy and data protection Freedom of Information Act (FOIA), US, strategies in, 37, 38, 41 Canadian approach to privacy compared, 59, 135 freedom of information laws, demands for 49 Charter of Fundamental Rights of the access to data under, 133 "fully" informed consent, 72, 116 European Union (2000) applicability of, 30 The Future of Privacy (European Article 29 on privacy, 30 Data Protection Working Party, Council of Europe distinguished from EU 2009), 46, 73 and its governing Council, 40 future progress, actions and policies likely to countries judged to provide adequate contribute to, 158-159 protection for personal data future use of data imported from, 154 broad consent agreements and, 5, 74-77 countries modeling privacy and data clinical trial or product postmarketing protection strategies on, 41, 51 surveillance, data collected during, ethics review systems in, 61 personal data, data from everyday research without consent, conditions electronic transactions as, 91 allowing for, 81-84 privacy officers in, 128 transfers of data Gellman, Robert, 97 under EU-US Safe Harbor General Medical Council, UK, 65, 83 Agreement, 154, 155 General Practice Research Database within Europe, 153 (GPRD), UK, 28, 148



Index 181

generalizable knowledge, in definition of research, 8, 24, 25-26 Genetic Information Nondiscrimination Act (GINA), US, 137 genetics, defined, 112-113 genetics and genomics, 111-123 aggregate data, resolution of DNA contributions in, 120 consent in, 116-118, 121-122, 123-124 de-identification of data, 118-119 defined and distinguished, 112-113 discrimination based on, 137 electronic health records (EHRs) genomic discovery, EHR-driven, 115 integration of genetic and genomic data with data from, 123 exceptional treatment, need for, 111 genome-wide association studies (GWAS), 114 genotype-driven recruitment of subjects, 115-116 identifiability of genomic data, 6, 118-121 incidental findings in, 117 Mendelian versus multifactor conditions, 112-113 mismatch of scientific advance and personal and social understanding, 6, 111 nature of the genome, 112 non-identified genomic data, means of identifying, 119-120 Personal Genome Project (PGP), 121-122 relatives of research subjects and see relatives of research subjects genome-wide association studies (GWAS), 114 genomics, defined, 113 genotype, defined, 113 Germany early privacy legislation in, 38 EU Data Protection Directive, national transposition of, 41 privacy officers in, 128 GINA (Genetic Information Nondiscrimination Act), US, 137 Good Clinical (Trial) Practices, 58 Gostin, Lawrence, 24, 25-26, 29, 54 GPRD (General Practice Research Database), UK, 28, 148 Gross, Ralph, 97 guidelines see laws, regulations, and guidelines

Guidelines on the Protection of Privacy and Transborder Flows of Personal Data, OECD see Organisation for Economic Co-operation and Development (OECD) privacy principles Guthrie, Robert, 15 Guthrie spots (newborn blood screening specimens), 15 GWAS (genome-wide association studies), 114 Harvard University, Personal Genome Project (PGP), 121-122, 123-124, Health and Social Care Act, UK, 65, 83 health data see data and biospecimens Health Information Technology Economic and Clinical Health (HITECH) Act, US, 10 Health Insurance Portability and Accountability Act, US (HIPAA Privacy Rule, 2002) on authorization of research use of data, 76 expected revision of, xiii identifiability under, 99-103, 104 Limited Data Sets under, 95, 102-103 subjects, on approaching and selecting, 80 US Federal Common Rule on Protection of Human Subjects and, 56, 62 health problems, reclassification of, via new research, 5 health research see privacy, confidentiality, and health research, research healthcare costs and public-interest nature of health research, 2 Helsinki, Declaration of, 36, 54-55, 60, 67, 68, 71, 78 HIPAA, US see Health Insurance Portability and Accountability Act Hippocratic medical confidentiality, 52-53 HITECH, US see Health Information Technology Economic and Clinical Health Act Hodge, James, 24, 25-26 Hrynaszkiewicz, Iain, 102 Human Fertilisation and Embryology Act, UK, 65 Human Genetics Commission, UK, 65 Human Genome Project, 113, 139 human right, privacy viewed as, 30-32 Human Rights Act, UK, 30 human subjects see subjects



182 Index

Human Tissue Act, UK, 14, 65, 83–84 Human Tissue Authority, UK, code of practice on research (2009), 83–84

Iceland, subject to EU Data Protection Directive, 41

identifiability, 87-110

categories of identifiability, 105–107 certification of low identifiability risk, 99–100

concordance of identifiability terms, 106

future actions and policies likely to increase identifiability, 158 genetic and genomic identifiability, 6, 118–121

identifiers or identifying data concept of, 92–93

US HIPAA Privacy Rule identifier list, 100–102

key-coding, 59, 104–105, 108, 118, 148

legal protections for identified or potentially identifiable data, need for, 159

linking data-sets with intent to identify, problem of, 96–98

no human subject if data not identifiable, policy of, 108–109, 159

non-identified data, means of identifying, 96–98, 119–120

ordering and retrievability of data affecting status of data, 91 personal data, defined, 8, 42, 87–92

personal data, under EU Data Protection Directive, 87, 88, 89–90, 91

personally identifiable data, under US HIPAA Privacy Rule, 99–103, 104

rare data as identifiers, 95, 106 researchers, when data are not identifiable to, 107–108, 158

risk assessments, 99-100, 103

social/behavioral research integrated with health research, 15

terminology pertaining to, 105–107 US Office for Human Research

Protections (OHRP) on, 108–109 see also de-identification of data, reidentification of data

implicit versus explicit consent, 77 individual participation principle, OECD guidelines, 39

information

data versus, 7

see also data and biospecimens fair information practices, US tendency to cast privacy protections as, 32 Information Commissioner, UK, 76, 90,

informed consent see consent

Institute of Medicine, US, 62, 63, 65, 66, 77, 103, 105

Institutes of Health Research, Canada, 57 Institutional Review Board (IRB) system, US, 56, 60, 61, 77

integration of different fields of health research, 5

intellectual property, data and biospecimens as, 23

International Cancer Genome Consortium, 28, 114, 139

International Conference of Data Protection and Privacy Commissioners, 156

International Conference on

Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use, 58

international transfers of data, 152–156

under binding corporate rules, 155 from Canada, 153

with consent, 155

under contractual agreements, 152–153, 154, 156

EU Data Protection Directive on exportation of personal data from EU, 42, 154–156

EU-US Safe Harbor Agreement, 154, 155

future progress, actions and policies likely to contribute to, 159 public interest exemption for, 155

special conditions in access agreements regarding, 144

universal standards, importance of developing, 156–157

US Safe Harbor self-certification framework for, 48

IRB (Institutional Review Board) system, US see Institutional Review Board (IRB) system, US

Japan

broad privacy and data protection regimes in, 50

health-related privacy regimes in, 58 Japanese Personal Information Protection Act, 50

Japanese Pharmaceuticals and Medical Devices Agency, 58



Index

Cambridge University Press 978-1-107-02087-0 - Privacy, Confidentiality, and Health Research William W. Lowrance Index More information

> jurisdictional conditions in access specialized laws and regulations, 59-60 agreements, 144 in UK, 58, 65-66 in US, 52–53, 54, 55–57, 58, 60, 61, 62 identified or potentially identifiable data, Kaiser Permanente Research Program on Genes, Environment, and Health, specific protections for, 159 27, 139 inconsistencies, complexities, and key-coding, 59, 104–105, 108, 118, 148 redundancies, 6, 35–36, 62–66 knowledge privacy, as legal concept, 30-32 see under defined, 8 particular items by name or country generalizable, 8, 24, 25-26 Lee, Lisa, 54 Kohane, Isaac, 115 Levin, Avner, 49 Liddell, Kathleen, 73 Laurie, Graeme, 30 Liechtenstein, subject to EU Data Protection Directive, 41 law enforcement access to data, 6, 132-135, 159 Limited Data Sets under US HIPAA laws, regulations, and guidelines Privacy Rule, 95, 102-103 breaches of security, notification linking of data requirements for, 135-136 access agreement limitations on, 144 broad privacy and data protection defined, 146 regimes, 35-51 as form of access, 146 defined, 36 with intent to identify, 96-98, 119 in APEC countries, 50-51 privacy-preserving data linkage systems, in Australia, 49-50 105, 146-149 in Canada, 48-49 longitudinal studies see cohort and other of Council of Europe, 40 longitudinal studies of EU, 40-47 European strategies regarding, 37, 38, Manitoba Centre for Health Policy (MHCP), University of Manitoba historical background to development "Pledge of Privacy," 127 of, 36-38 Population Health Research Data Repository, 28, 148 Manson, Neil, 68, 71, 75 in Japan, 50 confidentiality, as legal concept, matching of data, 96, 119, 146 33-34 consent material transfer agreements for biospecimen sharing, 142 legitimacy in seeking, 71 regulations and requirements, 75 McGuire, Amy, 116 waiver of rights not legally allowed in, McGuire, Sean, 116 Medicaid, US, 53 Medical Ethics (Percival, 1849), 14 data use agreements, enforcement of, 136-137 Medical Research Council, UK, 65, 138 enforcement and sanctions, use of, Medicare, US, 53 135 - 137Medicines and Healthcare Products Regulatory Agency, UK, 58-59 health specific privacy regimes, 52-66 in Australia, 64-65 Mendelian genetic conditions, 112–113 in Canada, 53, 57, 63-64 metadata, 7 clinical trials, 57-59 MHCP see Manitoba Centre for Health described, 36 Policy ethics review systems, 60-61, 63, 65 Million Women Study, 27 health care and payment regimes, Morris, Andrew, 35 52 - 53multifactor genetic conditions, 112-113 human-subject protection, 54-57 inconsistencies, complexities, and National Center for Health Statistics, US,

> > 54, 150

National Health and Nutrition Examination

Study (NHANES), US, 27

redundancies, problem of, 62-66

product postmarketing data, 58-59

public health regimes, 53-54

183



184 Index

National Health Service (NHS), UK Caldicott Guardians, 65, 128 consent requirements, 75 Data Protection Act and, 65 Information Centre for Health and Social Care, 148 Million Women Study, based on NHS Breast Screening Centres, 27 Proportionate Review Service, fast-track review, 107 research without consent, conditions allowing for, 82 subjects, approaching and selecting, 81 UK Biobank data from, 17 use of data without patient consent, 45 National Health Service (NHS) Act, UK, 65, 82, 83-84 National Information Governance Board, UK, 65, 82, 83, 131 National Institutes of Health, US, 121, 133-135, 138 National Research Act, US (1974), 60 National Research Council, US, 106 Nazi doctors, medical experiments prosecuted, 67, 68 A New Pathway for the Regulation and Governance of Health Research (Academy of Medical Sciences, UK, 2011), 65, 66 newborn blood screening, 15, 112 NHANES (National Health and Nutrition Examination Study), US, 27 Nicholson, Mary Jo, 49 non-identified data, means of identifying, 96-98, 119-120 non-research access, requests for, 132-135, 159 Norway, subject to EU Data Protection

OECD see Organisation for Economic Cooperation and Development (OECD) privacy principles
Office for Human Research Protections (OHRP), US, 108–109, 149
O'Neill, Onora, 68, 71, 75
Ontario Personal Health Information
Protection Act (PHIPA),
Canada, 53

breaches of security, in case of, 135-136

de-identified data, in case of incidental

identification of, 144 Nuffield Council on Bioethics, UK, 65

Directive, 41

notification requirements

Nuremberg Code, 67

openness and transparency access to data, open, 140-141 EU Data Protection Directive on, 42 as OECD privacy principle, 39 opt-in versus opt-out consent agreements, 77-78 Organisation for Economic Co-operation and Development (OECD) privacy principles, 38–40 Canadian Standards Association, Model Code for the Protection of Personal Information based on, 48 Council of Europe Convention 108 compared to, 40 Japanese Personal Information Protection Act aligned with, 50 ownership of data and biospecimens, 22-24

participants see subjects
patient outcome registries, 13
penalties and enforcement, 135–137
Percival, Thomas, 14
personal data, identifiability of see
identifiability
Personal Genome Project (PGP), Harvard
University, 121–122, 123–124, 141
personal health records (PHRs), 11
Personal Information Protection and
Electronic Documents Act
(PIPEDA), Canada, 48–49, 53, 128, 153
Personal Privacy in an Information Society
(US Congressional Commission,

1977), 38
PHIPA (Ontario Personal Health
Information Protection Act),
Canada see Ontario Personal Health

Information Protection Act

(PHIPA), Canada
PIPEDA (Personal Information Protection
and Electronic Documents Act),
Canada see Personal Information
Protection and Electronic
Documents Act (PIPEDA), Canada

platforms, 18
consent problems with, 5, 85
data flow via, 18
defined, 18
examples of, 26–28
opportunities afforded by, 5
police access to data, 6, 132–135
pooling data, 146, 147
Population Health Research Data
Repository, MHCP, 28, 148

primary versus secondary use of data, 9-10



Index 185

product postmarketing regimes,

58-59

principal investigators (PIs), 126, 141 Privacy Act, Australia see Australian Privacy Act Privacy Act, Canada, 48 Privacy Act, US, 38, 47, 59, 92 privacy, confidentiality, and health research, 1-6, xiii-xiv access to data, 140-152 see also access to data conflict between privacy and research, problem with framing issue as, 1 consent issues, 67-86 see also consent counterclaims to right to privacy, 31 data and biospecimens, 7-26 see also data and biospecimens data sharing, 138-140 see also data sharing definitions confidentiality, 33-34 distinguishing privacy and confidentiality, 32, 33 privacy, 29-33 research, 24-26 safeguards, 34 e-health revolution and, 10-11, xiii-xiv fundamental human right, privacy as, 30 - 32future progress, actions and policies likely to contribute to, 158-159 genetics and genomics, 111-123 see also genetics and genomics importance of privacy protection to successful research process, 3-4 integration of different types of health research, 5 laws, regulations, and guidelines on, 35-51, 52-66 see also laws, regulations, and guidelines personally identifiable data, 87-110 see also personal data and identifiability as public-interest cause see public interest safeguards and responsibilities regarding, 125-137 see also safeguards and responsibilities scale-based problems with, 5 scientific opportunities, new developments in, 5 vulnerability of health care versus health research data, 4 privacy officers, 128 privacy-preserving data linkage systems, 105, 146-149 privacy risk assessments, 131-132

professional competency requirements for access to data, 142 profiling, 89, 90, 96, 119 "pseudonymized" or "pseudoanonymized" data, 104, 106 public access to data see access to data public health practice distinguished from research, 25-26 public health regimes, 53-54 Public Health Service Act, US, 54 public interest cost of health care and, 2 EU Data Protection Directive on, 44 future progress, actions and policies likely to serve, 159 health research as, 1-3 international transfers from EU/EEA on grounds of, 155 privacy protection in, 3-4 Public Population Project in Genomics, public research resource platforms see platforms purpose limitations on access to data, 143 purpose specification principle, OECD guidelines, 39 race, and data sensitivity, 21-22 re-identification of data non-identified data, means of identifying, 96-98 retaining possibility of, 98-99 recontacting subjects access agreements, conditions in, 143 genotype-driven recontact, 115-116 records see electronic health records; electronic medical records; personal health records Records, Computers, and the Rights of Citizens (US HEW Advisory Committee on Automated Personal Data Systems, 1973), 37 registries, 12-13 defined, 12-13 EU Data Protection Directive failing to accommodate, 44 Medical Ethics (Percival, 1849), on research use of hospital, 14 patient outcome registries, 13 regulatory regimes see laws, regulations, and guidelines



186 Index

relatives of research subjects	privacy, 30–32
communication of genetic findings to,	waiving of legal rights not allowed in
123, 159	consent agreements, 71
familial risk data, improvements in	to withdraw consent, 67
collection, storage, and retrieval of,	risk assessments
122–123	identifiability, 99–100, 103
implications of a person's genotype for,	privacy, 131–132
120	security, 130
privacy and confidentiality protections needed for, 5	rules see laws, regulations, and guidelines
recruitment, genotype-driven,	safe harbors
115–116	data safe harbors/data havens/data
relocation of projects, access agreement	enclaves/data research centers,
conditions regarding, 144	149–151
Report of the Committee on Privacy (Younger	EU-US Safe Harbor Agreement on
Report, UK House of Lords,	transfers of data, 154, 155
1972), 37	four different arrangements termed as,
research	100
activities preparatory to, 80 defined, 24–26	US HIPAA Privacy Rule, removal of prohibited identifiers under,
EU Data Protection Directive's failure to	100–102
define, 44	safeguards and responsibilities, 125–137
public health practice distinguished,	accountability principle, OECD
25–26	guidelines, 40
see also privacy, confidentiality, and health	broad consent, as supporting, 77
research	day-to-day operational safeguards, listing
research data centers (data enclaves),	of, 125–126
149–151	definition of safeguard, 34, 125
research participants/subjects see subjects	enforcement and sanctions, 135-137
research platforms see platforms	formal responsibility roles, 126-129
researchers	MHCP pledge of privacy, 127
data controllers and processors, 127	non-research access, requests for,
non-identifiability of data in hands of,	132–135
107–108, 158	privacy risk assessments, 131–132
responsibilities of see safeguards and	retention of data and biospecimens, 129
responsibilities	security and cybersecurity, importance of
third-party access to data, legal power to	attention to, 130–131
resist, 6	security safeguards principle, OECD
resource platforms see platforms	guidelines, 39
responsibilities see safeguards and	stewardship, concept of, 129
responsibilities restricted access to data, 141	sanctions and enforcement, 135–137 secondary use of data
retention of data and biospecimens,	distinguishing from primary use, 9–10
129, 144	EU Data Protection Directive on, 43
Rethinking Informed Consent in Bioethics	security of data
(Manson and O'Neill), 68	access to data, security as condition of,
return or destruction of data or	144, 159
biospecimens at conclusion of	breaches, documented incidents of, 4
project, 144	concept and elements of, 130–131
Richards, Martin, 73	as distinguished from privacy and
rights	confidentiality, 34
consent as, 67	as OECD privacy principle, 39
disassociated data or biospecimens,	sensitivity of data, 18-22
adhering to, 67	ancestry, race, and ethnicity as
to know data about self, 23, 39, 43	controversial categories, 21–22



Index 187

within Canada, 153

within EU/EEA, 153

Council, 152 UK Data Archive, 27, 139

85-86

see also international transfers of data

trust, consent viewed as delegation of,

UK Biobank Ethics and Governance

transparency see openness and transparency

UK Biobank, 17, 27, 78-79, 132, 139, 152

Canadian PIPEDA on, 48 categories of sensitive data, 20 de-identification considerations and, 94 EU Data Protection Directive on, 22, 42, 43, 44 key-coding, encryption of, 104 as policy issue, 22 sharing data see data sharing single nucleotide polymorphisms (SNPs), 114 social/behavioral research integrated with health research, 15 Social Security Numbers (SSNs), US, 96-98 Solove, Daniel, 29 Statistics Act, Canada, 150 Statistics Canada, 150 stewardship, 129 subjects access agreements, conditions regarding recontacting subjects in, 143 access to data about self EU Data Protection Directive on suspension of, 43 as general principle, 23 approaching and selecting for research, 80-81, 158 in clinical trials, 57-59 communication of genetic findings to, 123, 159 consent of see consent data-subjects, definition of, 8 Declaration of Helsinki on protection of, 36, 54–55, 60, 67, 68, 71, 78financial or other payback for use of data, issue of, 24 genotype-driven recontacting and recruitment of, 115-116 individual participation principle, OECD guidelines, 39 policy of no human subject if no personal data involved, 108-109, 159 terminology alternatives for, 8 see also relatives of research subjects Sweden, early privacy legislation in, 38 Switzerland, data protection law parallel to EU data protection laws, 41

termination of projects, access agreement conditions regarding, 144 third-party access to data see access to data Thomas, Richard, 81, 139, 150 transfers of data access agreements, onward transfer limitations in, 144

Understanding Privacy (Solove, 2008), 29 unique bits of data, and identifiability, 95, 106 United Kingdom breach of confidence in English common law, 33 Caldicott Guardians in, 65, 128 health-related privacy regimes in, 58, 65-66 Principle Investigators (PIs) in, 126 Report of the Committee on Privacy (1972, Younger Report), 37 research without consent, conditions allowing for, 82-84 United Kingdom laws and regulations Clinical Trials Regulations, 65 Data Protection Act see Data Protection Act, UK

Health and Social Care Act, 65, 83 Human Fertilisation and Embryology Act, 65 Human Rights Act, 30 Human Tissue Act, 14, 65, 83–84 National Health Service (NHS) Act, 65, 82, 83–84

United Kingdom organizations and agencies

Academy of Medical Sciences, 35, 65, 66 Cancer Research UK, 65 Economic and Social Research Council,

65
General Practice Research Database (GPRD), 28, 148
Human Genetics Commission, 65
Human Tissue Authority, 83–84
Information Commissioner, 76, 90, 107
Medical Research Council, 65, 138
Medicines and Healthcare Products
Regulatory Agency, 58–59
National Health Service (NHS) see
National Health Service (NHS), UK
National Information Governance Board, 65, 82, 83, 131

Nuffield Council on Bioethics, 65



188 Index

United States Canadian approach to privacy compared, 49 Certificates of Confidentiality in, 133-135 consent not involving waiver of legal rights in, 71 few omnibus privacy and data protection regimes in, 47-48 health-related privacy regimes in, 52-53, 54, 55–57, 58, 60, 61, 62 IRB system, 56, 60, 61, 77, 149 Medicare and Medicaid, 53 Personal Privacy in an Information Society (1977), 38principal investigators (PIs) in, 126 privacy protections generally cast as fair information practices in, 32 Records, Computers, and the Rights of Citizens (1973), 37 research without consent, conditions allowing for, 81, 84 Social Security Numbers (SSNs), 96-98 transfers of data from EU/EEA to academic, noncommercial, and governmental organizations, 156 EU-US Safe Harbor arrangement for commercial organizations, 154, 155 United States laws and regulations Confidential Information Protection and Statistical Efficiency Act, 150 Federal Common Rule see Federal Common Rule on Protection of Human Subjects, US Federal Trade Commission Act, 47 Food, Drug, and Cosmetic Act, 57 Freedom of Information Act (FOIA), 59, Genetic Information Nondiscrimination Act (GINA), 137 Health Information Technology Economic and Clinical Health (HITECH) Act, 10 Health Insurance Portability and Accountability Act (HIPAA) see Health Insurance Portability and Accountability Act National Research Act, 60 Privacy Act, 38, 47, 59, 92 Public Health Service Act, 54 United States organizations and agencies

Agency for Healthcare Research and Quality, 54 Centers for Disease Control and Prevention (CDC), 54, 133-135 Food and Drug Administration, 58, 133-135 Institute of Medicine, 62, 63, 65, 66, 77, 103, 105 National Center for Health Statistics, 54, 150 National Institutes of Health, 121, 133-135, 138 National Research Council, 106 Office for Human Research Protections (OHRP), 108-109, 149 Veterans Health Administration, 53 United States v. Karl Brandt et al., 67 Universal Declaration of Human Rights, 30 universal standards for international transfers, importance of developing, 156-157 University of Manitoba see Manitoba Centre for Health Policy (MHCP), University of Manitoba use limitation principle, OECD guidelines, 39 Vanderbilt University BioVU Program, 28, 115, 148 Veterans Health Administration, US, 53 vulnerable people consent by, 74 data sensitivity and, 21 laws and regulations protecting, in research, 59-60 public health regimes aimed to help, 54 waiver of legal rights prohibited in consent agreements, 71 Walport, Mark, 81, 139, 150 Wellcome Trust, 65, 121, 138 Wellcome Trust Case Control Consortium, 27, 153 Western Australia Data Linkage System, 28, withdrawal of consent, 78-79, 143 World Medical Association, 54 Younger Report (Report of the Committee on Privacy, UK House of Lords, 1972), 37