Index

Symbols
2004 National Sample Survey of Registered Nurses  201, 204, 206

A
Access Control standard  157
Accountability and Oversight  195
Active Enforcement (AE)  43, 45, 47
admission, discharge and transfer (ADT)  2
Affordable Healthcare for America Bill  1, 2, 10
Alliance for Health Information Technology (AHIT)  191, 192
American Association of Colleges of Nursing  203, 206
American Medical Informatics Association (AMIA)  8, 16, 52, 65
American National Standards Institute (ANSI)  52
American Recovery and Reinvestment Act of 2009 (ARRA)  4, 5, 10, 11, 13, 122
Americans with Disabilities Act (ADA)  25, 26, 27, 29, 32, 34
Asia Pacific Association for Medical Informatics (APAMI)  75
Australia  43, 45, 49
Australian College of Health Informatics (ACHI)  75
Austria  46
autonomy  44

B
Belgium  46
beneficence  183
Binomial Subjective Opinion  137
biometric cryptosystem-based solution  115
biometrics  151, 152, 157, 158, 159, 160, 161, 162, 163, 164
Biometric technology  151, 152, 157, 158, 159, 160, 161, 162
Business Continuity (BC)  94, 96, 97, 99
business impact analysis (BIA)  96
Business perspective  79

C
California HealthCare  23
Canada  43, 45, 46
Centers for Medicare and Medicaid Services (CMS)  122, 156
certificate authority (CA)  123, 127
cohere thesis of privacy  181
Collection Limitation  194
comparative effectiveness  1, 2, 3, 4, 5, 11, 12, 13, 15, 16, 19, 20
Computerized Provider Order Entry (CPOE)  173
computer revolution  101
Computer Science Corporation (CSC)  117
confi dentiality  44, 49
customer relationship management (CRM) systems  47

data accessibility  212
data corruption  93
data exchanges  52, 63
data protection laws  43, 44, 45, 48, 49
data protection protocols  28
Data Quality and Security Safeguards  194
data warehouses  28
Decisional Privacy 187, 188, 199
decision trust 134, 135
Denmark 46
Department of Justice (DOJ) 156
De Raeve 204, 206
Dirichlet Probability Density Functions 135
Dirichlet Probability Reputation Scores 136
disabled population 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40
Disaster Recovery (DR) 94, 95, 96, 97, 98, 99, 105
Disaster Recovery Institute 94, 95, 96, 97, 100
distinctiveness thesis of privacy 181
Dixon, Pam 116
Domestic migration 202
Dynamic Computing Corporation 174

E
e-discovery 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114
eHealth 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 84, 85, 86, 87, 88, 89, 90, 91
eHealth perspective 79, 80
EHR medical data 131
Eide, Asbjorn 26
EigenTrust 133
electronically stored information (ESI) 102, 103, 107, 111, 112
electronic collection 93
electronic health records (EHR) 1, 20, 22, 40, 43, 44, 48, 50-60, 63, 64, 101, 102, 112, 116-123, 126, 129, 130, 131, 132, 134, 138, 140-149, 180, 191, 192, 194
electronic medical records (EMR) 3, 4, 10, 11, 14, 20, 118, 191, 192
electronic medical records (EMR) systems 53, 130, 131, 148
electronic patient records (EPR) 76
electronic protected health information (EPI) 122, 126, 128, 156, 157
E-medicine 179, 180, 181, 183, 184, 185, 186, 187, 188, 189, 193, 195
Employer ID Numbers (EIN) 191
enterprise resource planning (ERP) systems 47
enterprise risk management (ERM) 52, 60

Equal Employment Opportunity Commission (EEOC) 26
ethical justification 182
European justification Data Protection Directive (EUDPD) 45
European Union (EU) 43, 45, 47, 49
extract, transform, and load (ETL) 75

F
Fair and Accurate Credit Transactions Act (FACTA) 153
fair information practices (FIPs) 190, 194, 195
federal rules of civil procedure (FRCP) 104, 107, 109, 112, 113
Federal Trade Commission (FTC) 156
flow management 67
France 46
Freeman, Elizabeth 27, 39

G
genetic testing 23
Germany 46
global nursing shortage 200, 202
Government Accounting Office (GAO) 189, 190
government regulations 51, 53, 54, 55, 58, 64, 65
Gramm-Leach-Bliley Act (GLBA) 46
gross domestic product (GDP) 208

H
Health and Human Services (HHS) 51, 52, 57, 58, 61, 102, 156, 180, 190, 191, 192
healthcare 115-128, 180, 183-190, 193, 194, 195, 196, 200, 201, 202, 203, 205, 207-217
Healthcare Authority (HA) 139, 140, 141, 142, 143, 145, 146, 147
healthcare clearinghouses 7
healthcare costs 3, 6
healthcare delivery 180
healthcare delivery processes 216
healthcare industry 93, 166, 167, 168, 171, 172, 173, 174, 175, 176, 178
Healthcare IS 209, 213, 214
healthcare IT marketplace 209
healthcare organisations (HCO) 74, 77, 80, 84, 86, 87, 89, 90, 96
healthcare payment data stream 1
healthcare professionals 180, 184, 185, 186, 187, 188, 189, 194
healthcare provision 207
Healthcare Technology Resiliency 96
healthcare technology systems 93, 96
health data 93
health disparities 201
Health & Human Services (HHS) 116, 117, 122, 129
health informatics 73, 74
health information 101, 102, 105, 106, 108, 110, 111, 113
health information exchange (HIE) 51, 52, 118, 119, 120, 122, 191, 192
health information management (HIM) 102, 103, 104, 105, 107, 110, 111, 114
Health Information Management Systems Society (HIMSS) 55, 61, 77
Health Information Organization (HIO) 118, 119
health information oversight (HIO) 191, 192
Health Information Portability and Accountability Act of 1996 (HIPAA) 7, 8, 10, 12, 13, 14, 16, 23, 24, 27, 28, 29, 31, 32, 33, 39, 46, 48, 51, 53, 54, 55, 57, 58, 59, 61, 62, 64, 95, 106, 122, 123, 124, 125, 128, 156, 157, 159, 160, 162, 163, 167, 190-197
Health Information Security and Privacy Committee (HISPC) 51, 52, 53, 62
Health Information Technology for Economic and Clinical Health (HITECH) Act 51, 57, 58, 59, 123, 129, 167
Health Information Technology (HIT) 50, 115, 117, 123
Health IT systems 47
health kiosks 66, 68, 70
health kiosks, hospital wayfinding 66
health kiosks, patient self-registration 66
Health Resources and Services Administration 201, 202, 206
health sector reform 202
HIPAA Privacy Rule 156
HIPAA Security Rule 156, 157
Hippocrates 44, 48, 49
Hippocratic Database (HDB) 43, 45, 47, 48, 49
Hippocratic Oath 44, 184
historical and cultural variation, thesis of 182
historical variation 182
human cost 155
human rights 46
I
Iceland 46
identity theft 44, 151, 152, 153, 154, 155, 156, 161, 162, 164
Identity Theft Penalty Enhancement Act (IT-PEA) 153
Identity Theft Task Force (ITTF) 156
Illinois Department of Revenue (IDOR) 158
Improve infection control 168
Independent perspective 79
Individual Participation and Control 194
Informational privacy 186, 187, 188
information and communication technologies (ICTs) 74, 75, 76, 77, 78, 89, 90, 180
information systems (IS) 158, 160, 161, 163, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216
informed consent 44
Institute of Medicine (IOM) 180, 188
Institutional Review Board (IRB) 8, 12
instrumental value 183, 184
International Business Machines (IBM) 117
International Medical Informatics Association (IMIA) 75
International Monetary Fund (IMF) 76
international recruiting of nurses 202
ISACA organization 89
IS controls 51, 56
IS vision 209, 210, 211, 212, 213, 214, 215, 216
IT Governance 72, 73, 74, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 89, 90, 91
IT initiative 208
IT initiatives  207, 208, 211, 215
IT projects  207, 208, 210, 211, 212, 214

J
Japan  43, 45
Java database connectivity (JDBC)  47

K
Kennedy Shriver, Eunice  25
kiosk functions  67
kiosk hardware  66
kiosks  66, 67, 68, 69, 70, 71

L
Litigation Response Team  110
Logica systems integrator  66, 67, 68, 70
Luxembourg  46

M
Managed Care Organizations (MCO)  23
management practices  216
Massachusetts Institute of Technology (MIT)  97
meaningful use  4, 5, 6, 10, 11, 12, 15, 17
medical care  207
Medical Data Trustworthiness Assessment (MDTA) protocol  130, 133, 134, 138,
139, 140, 141, 142, 143, 144, 145, 147, 148
Medic Alert  169
medical metadata  130, 140, 141
Medical privacy  179, 180, 186, 189, 192
medical records  22, 23, 27, 31, 32, 33, 36, 37,
38, 40
medical specialty systems  2, 6
Multinomial Bayesian systems  135
Multinomial Subjective Opinion  137

N
National Alliance for Health Information Technology (NAHIT)  117, 118, 128
National Health Information Network (NHIN)  1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16,
17, 21, 50, 52, 191, 192, 194, 195
National Provider IDs (NPI)  191
National Sample Survey Data  204
Nationwide Health Information Network (NHIN)  115, 116, 117, 118, 119, 120,
121, 122, 124, 125, 127, 128
NCR kiosk operator  66, 67, 70, 71
Netherlands  46
network security  28, 35
NHIN Health Information Exchanges (NHIE)  119
non-malfeasance  44, 183
Norway  46
Nursing, Ethical Implications for  203
Nursing Shortage  202

O
Office of Civil Rights (OCR)  156
Office of Technology Assessment (OTA)  180
Office of the National Coordinator for Health Information Technology  4, 5, 8, 9, 10,
11, 12, 15, 17, 54, 55, 102, 117, 128, 191, 196
Office of the U.S. National Coordinator for Health Information Technology (ONCHIT)  75
online healthcare services  22
open database connectivity (ODBC)  47
Openness and Transparency  194
Organization for Economic Cooperation and Development (OECD)  45, 46, 47, 49,
190

P
Patient Administration Systems (PAS)  76
Patient and employee management  168
patient calling  67
patient-centric facilitation  207
patient health information  179, 180, 185, 187,
188, 193, 194
patient health record (PHR)  191, 192, 194
patient self-registration  66, 67, 70
Patient Support Systems  212
patient treatment processes  207, 209
patient wayfinding  67
Peel, Deborah  28, 33
Peer-to-Peer (P2P) networks  133, 150
PeerTrust  133, 150
Index

personal data 56, 57, 58
personal health information (PHI) 179, 184, 188, 189, 190, 192, 194, 195
Personal Health Record (PHR) 117, 118, 119, 122, 124, 126
personal health services 66
personal information 43, 44, 45, 46, 49
PKI cryptographic scheme 115
prima facie moral rule 185
primum non nocere 183
principle of confidentiality 185
principle of patient control 193
principle of public responsibility 193
privacy 4-17, 21-49
privacy, concept of 179, 182, 183, 186
privacy criterion thesis 182
privacy loss 44
privacy, physical 187, 188
procedural criteria 186
Process owners 79
Projected Supply, Demand, and Shortages of Registered Nurses: 2000-2020 201
Public Key Infrastructure (PKI) 115, 121, 123, 126, 127, 128
Purpose Specification 194

R

Radio Frequency Identification (RFID) 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178
radio frequency identifier device (RFID) technology 167, 168, 169, 170, 171, 172, 174, 175
radiology 2, 5, 6
radiology management systems 6
Ramiller and Swanson 210
record locator services 52
Recovery Point Objectives (RPO) 94, 95, 96, 98, 99
Recovery Time Objectives (RTO) 94, 95, 96, 98, 99
regional health information organization (RHIO) 118, 119, 191, 192
Rehabilitation Act of 1973 25
reliability trust 130, 134
Remedies and Sanctions 195
Reputation Centre (RC) 140, 141, 142, 143, 144, 145, 146, 147
RFID tags 167, 168, 170, 172, 174, 175, 178
risk of data loss 93
robotics 67
robot pickers 67
robot surgeons 67
role-based access control (RBAC) 47

S

Savience kiosk operator 67, 68
security 22, 23, 24, 25, 26, 28, 29, 34, 35, 36, 40
security breaches 26
security risk assessment 55
Sedona Guidelines 106
self-determination 44
service oriented architecture (SOA) 75
SmartCardAlliance 173, 178
Social Security Disability Insurance (SSDI) 25
Spain 46
Spoliation 105
Strong Authentication 122
Structured Query Language (SQL) 47
Subjective Opinion Probability Expectation 138
Sullivan Commission 205, 206
Sullivan, Leon 205
Sweden 46
Switzerland 46

T

Tarasoff v. Regents of the University of California 185, 186
Telemedicine 180, 188, 189, 194, 196, 197
the thesis of the privacy criterion 182
Track medical assets 168
Track medical records 168
Track medication and medical supply charges 168
transactional healthcare data 2
Transmission Security standard 157
TRAVOS system 133, 134, 150
UK National Health Service (NHS)  213, 214, 216
Unique Patient IDs (UPI)  191
United States  43, 46, 47, 48
U.S. Department of Veterans Affairs  153
U.S. nursing shortage  200

VeriChip  169, 170, 178

Veterans Administration (VA) healthcare system  27, 28
Voice biometric data analysis  161

Wellpoint Group Ltd.  67
Wellpoints  67, 68, 70, 71
World Privacy Forum (WPF)  116

Y2K problem  7, 8, 20