# Mali

| Country context* | | |
|---|---|---|
| Population (000s) | 15,302 | |
| GNI per capita (PPP Int $) | 1,540 | |
| Physician density (per 10 000 population) | 0.08 | |
| Nurse & midwife density (per 10 000 population) | 0.43 | |
| Hospital bed density (per 10 000 population) | 1 | |

| | |
|---|---|
| Life expectancy at birth (years) | 57 |
| Total health expenditure (% GDP) | 7.1 |
| ICT Development Index rank | 144 |
| Mobile-cellular subscriptions (% population) | 98.38 |
| Internet users (% population) | 2.2 |

## 1. eHealth foundations

### National policies or strategies

| | Country response | Global "yes" response§ | Year adopted |
|---|---|---|---|
| National universal health coverage policy or strategy | Yes | 75% | 2009 |
| National eHealth policy or strategy | Yes | 58% | 2013 |
| National health information system (HIS) policy or strategy | Yes | 66% | 1998 |
| National telehealth policy or strategy | Yes | 22% | 2013 |

### Funding sources for eHealth

| | Country response | Global "yes" response§ | Funding source %** |
|---|---|---|---|
| Public funding | Yes | 77% | 50-75% |
| Private or commercial funding | Yes | 40% | Zero |
| Donor/non-public funding | Yes | 63% | <25% |
| Public-private partnerships | No | 42% | Zero |

### Multilingualism in eHealth

| | Country response | Global "yes" response§ | Year adopted |
|---|---|---|---|
| Policy or strategy on multilingualism | No | 28% | N/A |
| Government-supported Internet sites in multiple languages | Yes | 48% | |

### eHealth capacity building

| | Country response | Global "yes" response§ | Proportion** |
|---|---|---|---|
| Health sciences students – Pre-service training in eHealth | Yes | 74% | <25% |
| Health professionals – In-service training in eHealth | Yes | 77% | <25% |

## 2. Legal frameworks for eHealth

| Policy or legislation – purpose | Country response | Global "yes" response§ |
|---|---|---|
| Defines **medical jurisdiction, liability or reimbursement of eHealth services** such as telehealth | No | 31% |
| Addresses **patient safety and quality of care** based on data quality, data transmission standards or clinical competency criteria | No | 46% |
| Protects the **privacy of personally identifiable data** of individuals irrespective of whether it is in **paper or digital format** | No | 78% |
| Protects the **privacy of individuals' health-related data** held in electronic format in an **EHR** | No | 54% |
| Governs the **sharing of digital data between health professionals in other health services** in the same country through the use of an EHR | No | 34% |
| Governs the **sharing of digital data between health professionals in health services** in other countries through the use of an **EHR** | No | 22% |
| Governs the **sharing of personal and health data between research entities** | No | 39% |
| Allows **individuals electronic access to their own health-related data** when held in an **EHR** | No | 29% |
| Allows **individuals to demand their own health-related data be corrected** when held in an **EHR** if it is known to be inaccurate | No | 32% |
| Allows **individuals to demand the deletion of health-related data** from their **EHR** | No | 18% |
| Allows **individuals to specify which health-related data** from their **EHR** can be **shared with health professionals** of their choice | No | 28% |
| Governs **civil registration and vital statistics** | — | 76% |
| Governs **national identification management systems** | Yes | 65% |

## 3. Telehealth

| Telehealth programmes country overview | | |
|---|---|---|
| | **Health system level**** | **Programme type**** |
| Teleradiology | National | Pilot |
| Teledermatology | ‡ | ‡ |
| Telepathology | National | Pilot |
| Telepsychiatry | ‡ | ‡ |
| Remote patient monitoring | ‡ | ‡ |

## 4. Electronic Health Records (EHRs)

| EHR country overview | | |
|---|---|---|
| | **Country response** | **Year introduced** |
| National EHR system | No | N/A |
| Legislation governing the use of the national EHR system | ‡ | |
| **Health facilities with EHR** | **Use EHR** | **Facilities with EHR %**** |
| Primary care facilities (e.g. clinics and health care centres) | N/A | ‡ |
| Secondary care facilities (e.g. hospitals, emergency care) | N/A | ‡ |
| Tertiary care facilities (e.g. specialized care, referral from primary/secondary care) | N/A | ‡ |
| **Other electronic systems** | **Country response** | **Global "yes" response§** |
| Laboratory information systems | N/A | 35% |
| Pathology information systems | N/A | 18% |
| Pharmacy information systems | N/A | 33% |
| PACS | N/A | 26% |
| Automatic vaccination alerting system | N/A | 10% |
| **ICT-assisted functions** | **Country response** | **Global "yes" response§** |
| Electronic medical billing systems | Yes | 58% |
| Supply chain management information systems | Yes | 58% |
| Human resources for health information systems | Yes | 69% |

## 5. Use of eLearning in health sciences

| eLearning programmes country overview | | |
|---|---|---|
| **Health sciences students – Pre-service** | **Country response** | **Global "yes" response§** |
| Medicine | Yes | 58% |
| Dentistry | No | 39% |
| Public health | No | 50% |
| Nursing & midwifery | No | 47% |
| Pharmacy | No | 38% |
| Biomedical/Life sciences | Yes | 42% |
| **Health professionals – In-service** | **Country response** | **Global "yes" response§** |
| Medicine | Yes | 58% |
| Dentistry | No | 30% |
| Public health | Yes | 47% |
| Nursing & midwifery | No | 46% |
| Pharmacy | No | 31% |
| Biomedical/Life sciences | No | 34% |

# 6. mHealth

| mHealth programmes country overview | | |
|---|---|---|
| **Accessing/providing health services** | **Health system level\*\*** | **Programme type\*\*** |
| Toll-free emergency | National | Informal |
| Health call centres | National | Pilot |
| Appointment reminders | National | Informal |
| Mobile telehealth | Regional | Pilot |
| Management of disasters and emergencies | National | Pilot |
| Treatment adherence | National | Pilot |
| **Accessing/providing health information** | **Health system level\*\*** | **Programme type\*\*** |
| Community mobilization | National | Informal |
| Access to information, databases and tools | Regional, National | ‡ |
| Patient records | National | Pilot |
| mLearning | National | Pilot |
| Decision support systems | National | Pilot |
| **Collecting health information** | **Health system level\*\*** | **Programme type\*\*** |
| Patient monitoring | ‡ | ‡ |
| Health surveys | National | Established |
| Disease surveillance | National | Pilot |

# 7. Social media

| Social media and health | Country response | Global "yes" response§ | Year adopted |
|---|---|---|---|
| National policy or strategy on the use of social media by government organizations | No | 18% | N/A |
| Policy or strategy makes specific reference to its use in the health domain | ‡ | 5% | |
| **Health care organizations – use of social media** | **Country response** | **Global "yes" response§** | |
| Promote health messages as a part of health promotion campaigns | Yes | 78% | |
| Help manage patient appointments | No | 24% | |
| Seek feedback on services | Yes | 56% | |
| Make general health announcements | Yes | 72% | |
| Make emergency announcements | Yes | 59% | |
| **Individuals and communities – use of social media** | **Country response** | **Global "yes" response§** | |
| Learn about health issues | Yes | 79% | |
| Help decide what health services to use | No | 56% | |
| Provide feedback to health facilities or health professionals | No | 62% | |
| Run community-based health campaigns | Yes | 62% | |
| Participate in community-based health forums | No | 59% | |

# 8. Big data

| Policy or strategy – purpose | Country response | Global "yes" response§ | Year adopted |
|---|---|---|---|
| Governing the use of big data in the health sector | No | 17% | N/A |
| Governing the use of big data by private companies | No | 8% | N/A |

## LEGEND

**\*  Country context indicators**
ICT Development Index Rank. 2015 - https://www.itu.int/net4/ITU-D/idi/2015/
All other country indicators. Global Health Observatory. 2012-2014 -
http://www.who.int/gho

**\*\*  Glossary**
**§**  Indicates the percentage of participating Member States responding "Yes"
**—**  Don't know
**N/A** Not applicable
**‡**  Indicates question was unanswered
　　 Question not asked
**Zero** No funding

| | |
|---|---|
| **International level:** | Health entities in different geographic regions |
| **Regional level:** | Health entities in countries in the same geographic region |
| **National level:** | Referral hospitals, laboratories and health institutes (mainly public, but also private) |
| **Intermediate level:** | District or provincial facilities: public and private hospitals and health centres |
| **Local or peripheral level:** | Health posts, health centres providing basic level of care |
| **Informal:** | Use of ICT for health purposes in the absence of formal processes and policies |
| **Pilot:** | Testing and evaluating a programme |
| **Established:** | An ongoing programme that has been conducted for a minimum of 2 years and is planned to continue |