

Routine immunization profile

Monaco

Progress towards achieving European Vaccine Action Plan goals, 2017

Goal	Indicator	Status	Goal	Indicator	Status
1	Sustain polio-free status ^a (Current risk)	Yes (Intermediate)	4	Meets vaccination coverage targets DTP3 national immunization coverage $\geq 95\%$ ^d $\geq 90\%$ DTP3 coverage achieved in $\geq 90\%$ of districts ^{*e}	Yes Yes ND
2	Measles elimination status ^b	Eliminated	5	Make evidence-based decisions about introduction of new vaccines ^{**e} NITAG made a recommendation about PCV NITAG made a recommendation about RV NITAG made a recommendation about HPV	Yes
	Rubella elimination status ^b	Eliminated			Yes Yes Yes
3	Control hepatitis B infection ^c	Validation pending			6

*Only one administrative level in the country

**New vaccines introduced or not introduced based on NITAG evidence-based recommendations

***Country self-sufficient for procuring routine vaccines

Demographic, income and health expenditure summary, 2017

Total Population ^f	38 695
Live births	453
Surviving infants	449
<5 years	2277
<15 years	6997
Neonatal mortality rate (per 1000 live births) ^f	1.7
Infant mortality rate (per 1000 live births) ^f	2.7
Number of districts ^e	1
GNI (per capita, in USD) ^g	ND
Health spending as % of total government expenditure ^g	8

Immunization schedule, 2017^e

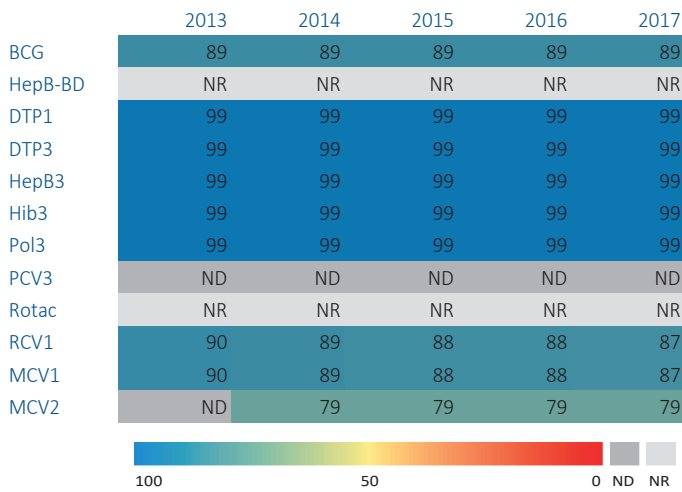
2M	DTaPHib, DTIPV, HepB_Pediatric, HIB, PCV
3M	DTaPHibIPV
4M	DTaPHibHepBIPV, DTIPV, HepB_Pediatric, HIB, PCV
5M	MenC_conj
11M	DTIPV, HepB_Pediatric, HIB
12M	MenC_conj, MMR, PCV
16M	MMR
16-18M	DTaPHibHepBIPV
6Y	DTIPV
11Y	HPV*
11-13Y	DTaPIPv
26-28Y	DTaPIPv, IPV, TdaPIPv

*Second dose +6M

Note: Diphtheria, tetanus, and poliovirus vaccines are mandatory; other vaccines in the immunization schedule are recommended^d



Vaccine coverage estimates, 2013-2017^d

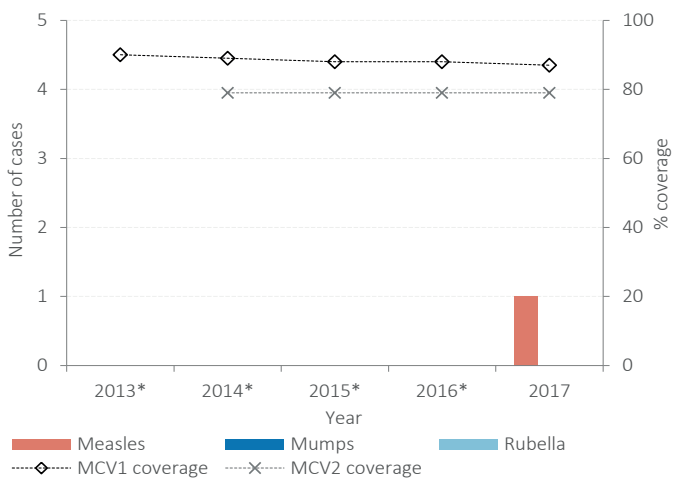


Number of reported cases of vaccine-preventable diseases, 2013-2017^{e,i}

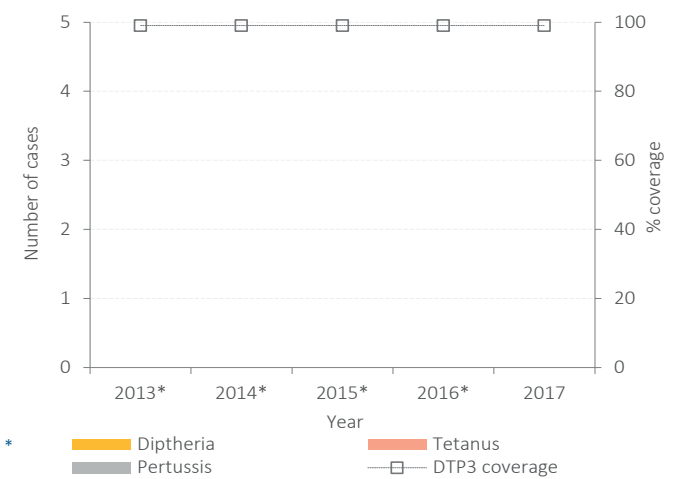
	2013*	2014*	2015*	2016*	2017
Measles					1
Mumps					ND
Rubella					ND
Congenital rubella syndrome					0
Diphtheria					0
Tetanus					0
Pertussis					0
Hepatitis A					ND
Varicella					ND

*No JRF submitted

Number of reported measles, mumps and rubella cases^e and MCV coverage estimates^d, 2013-2017



Number of reported diphtheria, tetanus and pertussis cases^e and DTP3 coverage estimates^d, 2013-2017

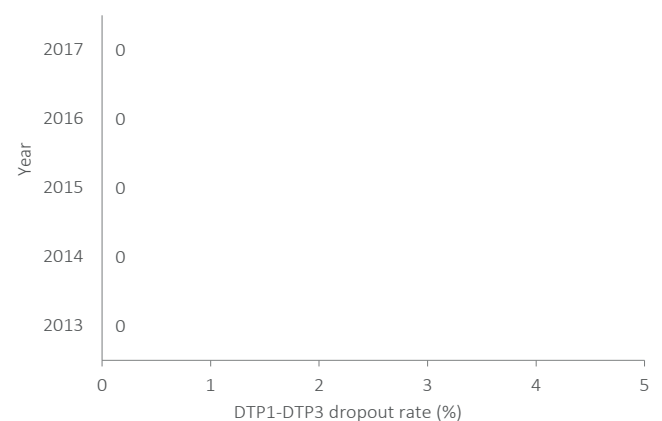


Surveillance with laboratory confirmation of cases, 2017^e

Measles	Yes
Rubella	No
Congenital rubella syndrome	No
Rotavirus	No
Invasive meningococcal disease	No
Invasive pneumococcal disease	No
Invasive <i>Haemophilus influenzae</i> disease	No

Note: Case-based surveillance (with laboratory confirmation of cases) assessed for measles, rubella, and congenital rubella syndrome. Hospital-based sentinel surveillance and/or population-based surveillance (both with laboratory confirmation of cases) assessed for rotavirus, invasive meningococcal disease, invasive pneumococcal disease, and invasive *Haemophilus influenzae* disease.

DTP1-DTP3 dropout rate, 2013-2017^d



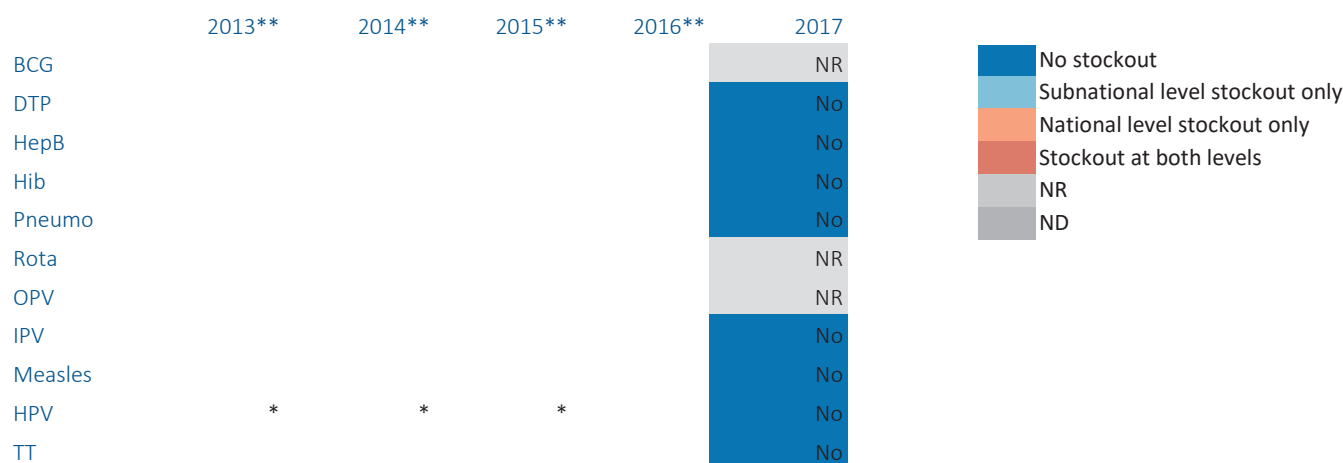
Note: Dropout rate is calculated using WHOENR

Immunization system characteristics, 2017

Sustained access to WHO accredited polio, measles, and rubella laboratories ^h	Yes
NITAG in place that meets six WHO criteria ^e	No
National system in place to monitor AEFIs ^e	No
Communication plan in place to respond to vaccine safety-related events ^e	Yes
Vaccine hesitancy assessment performed within last 5 years ^e	No
Mandatory proof of immunization at school entry ^e	Yes

Note: The six WHO NITAG criteria are 1. legislative or administrative basis for the advisory group; 2. formal written terms of reference; 3. at least five different areas of expertise represented among core members; 4. at least one meeting per year; 5. circulation of the agenda and background documents at least one week prior to meetings; 6. mandatory disclosure of any conflict of interest

Vaccine stockouts by administrative level^{e,i}, 2013-2017



*Data on HPV stockouts have only been collected in JRF since 2016

** No JRF Submitted

Abbreviations

AEFI	Adverse event following immunization	MCV1	measles-mumps-rubella vaccine, first dose
BCG	Bacille Calmette-Guerin vaccine for tuberculosis	MCV2	measles-mumps-rubella vaccine, second dose
CRS	congenital Rubella Syndrome	MMR	measles-mumps-rubella vaccine
DT	diphtheria-tetanus-containing vaccine	ND	Data not available
DTP	diphtheria-tetanus-pertussis-containing vaccine	NITAG	National Immunization Technical Advisory Group
DTP1	diphtheria-tetanus-pertussis-containing vaccine, first dose	NR	Not relevant as vaccine not included in immunization schedule
DTP3	diphtheria-tetanus-pertussis-containing vaccine, third dose	OPV	oral polio vaccine
GNI	Gross national income	PCV	pneumococcal conjugate vaccine
HepB	hepatitis B	PCV3	pneumococcal conjugate vaccine, third dose
HepB3	hepatitis B vaccine, third dose	Pol3	polio-containing vaccine, third dose
HepB-BD	hepatitis B vaccine, birth dose	RCV1	rubella-containing vaccine, first dose
Hib	Haemophilus influenzae type b	Rotac	rotavirus vaccine-complete series
Hib3	Haemophilus influenzae type b vaccine, third dose	Td	tetanus-diphtheria-containing vaccine
HPV	human papillomavirus	TT	tetanus toxoid vaccine
IPV	inactivated polio vaccine	W,M,Y	Weeks, Months, Years
MCV	measles-containing vaccine		

Data sources

- a European Regional Commission for Certification of Poliomyelitis eradication (RCC) meeting report: www.euro.who.int/32ndRCC
- b European Regional Verification Commission for Measles and Rubella Elimination (RVC) meeting report: www.euro.who.int/7thRVC
- c European Vaccine Action Plan 2015–2020 Midterm report
- d WHO/UNICEF Estimates of National Immunization Coverage (WUENIC): (http://www.who.int/immunization/monitoring_surveillance/data/en/)
- e WHO/UNICEF Joint Reporting Form on immunization (JRF)
- f World Population Prospects: The 2017 Revision, New York, United Nations
- g World Bank, World Development Indicators
- h Polio Laboratory Network: www.euro.who.int/poliolabnetwork & Personal communication based on annual accreditation process of the European Measles and Rubella Laboratory Network
- i Communication with the country