Routine immunization profile **Croatia**



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 ≥95% ^d ≥90% DTP3 coverage achieved in ≥90% of districts ^e	No No No	
	Measles elimination status ^b	Eliminated	F	Make evidence-based decisions about introduction of new vaccines*e	Yes	
2	Rubella elimination status ^b	Eliminated	5	5	NITAG made a recommendation about PCV NITAG made a recommendation about RV NITAG made a recommendation about HPV	Yes No Yes
3	Control hepatitis B infection ^c	Validation pending	6	Achieve financial sustainability of the national immunization programme**c	Yes	

 $[\]hbox{*New vaccines introduced or not introduced based on NITAG evidence-based recommendations}$

Demographic, income and health expenditure summary, 2017

4 189 353
38 014
37 889
191 606
615 359
2.9
3.9
112
12 570
12

Immunization schedule, 2017e

Birth	BCG
2M	DTaPHibHepBIPV
4M	DTaPHibHepBIPV
6M	DTaPHibHepBIPV
1Y	DTaPHibHepBIPV, MMR
5Y	Tdap
6Y	IPV, MMR
6Y 13Y	IPV, MMR HepB_Pediatric(3x)
	,



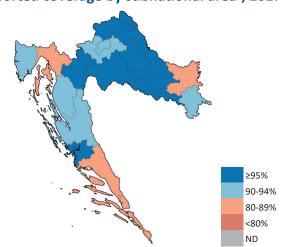
^{**}Country self-sufficient for procuring routine vaccines



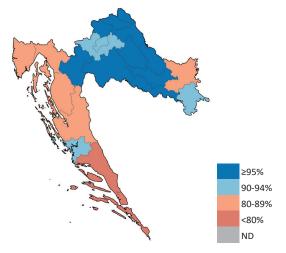
Vaccine coverage estimates, 2013-2017^d

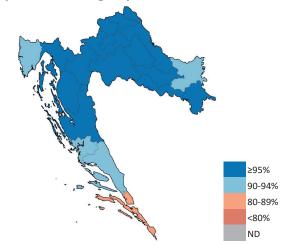
	2013	2014	2015	2016	2017
BCG	99	98	98	99	98
HepB-BD	98	98	NR	NR	NR
DTP1	98	98	98	98	98
DTP3	96	95	94	93	92
HepB3	96	95	94	93	94
Hib3	96	95	94	93	87
Pol3	96	95	94	93	92
PCV3	NR	NR	NR	NR	NR
Rotac	NR	NR	NR	NR	NR
RCV1	94	94	93	90	89
MCV1	94	94	93	90	89
MCV2	97	97	96	96	95
	100		50		0 ND NR

DTP3 reported coverage by subnational area[†], 2017^e



MCV1 reported coverage by subnational area[†], 2017^e MCV2 reported coverage by subnational area[†], 2017^e





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

	2013	2014	2015	2016	2017
Measles	0	16	206	4	7
Mumps	35	34	29	33	15
Rubella	1	0	1	2	0
Congenital rubella syndrome	0	0	0	0	0
Diphtheria	0	0	0	0	0
Tetanus	1	1	3	0	2
Pertussis	108	130	57	122	80
Hepatitis A	16	7	4	5	47
Varicella	24 407	22 818	22 858	22 306	18 058

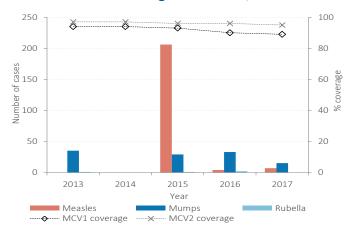
Surveillance with laboratory confirmation of cases, 2017^e

Measles	Yes
Rubella	Yes
Congenital rubella syndrome	Yes
Rotavirus	Yes
Invasive meningococcal disease	Yes
Invasive pneumococcal disease	Yes
Invasive <i>Haemophilus influenzae</i> disease	Yes

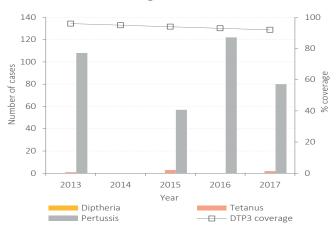
Note: Case-based surveillance (with laboratory confirmation of cases) assessed for measles, rubella, and congenital rubella syndrome. Hospital-based sentinel surveillance and/or population-based surveillance (both with laboratory confirmation of cases) assessed for rotavirus, invasive meningococcal disease,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



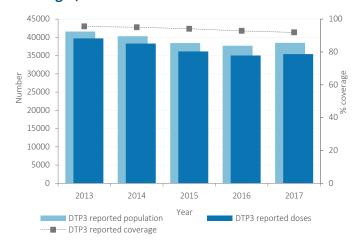
Number of reported measles, mumps and rubella cases^e and MCV coverage estimates^d, 2013-2017



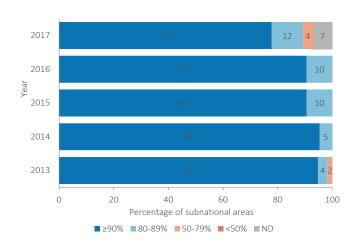
Number of reported diphtheria, tetanus and pertussis cases^e and DTP3 coverage estimates^d, 2013-2017



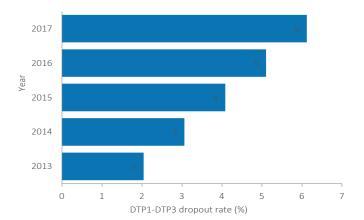
Reported target population, reported number of DTP3 doses administered and DTP3 reported coverage^e, 2013-2017



Percentage of districts by DTP3 reported coverage^e, 2013-2017



DTP1-DTP3 dropout rate, 2013-2017d



Note: Dropout rate is calculated using WUENIC

Immunization system characteristics, 2017

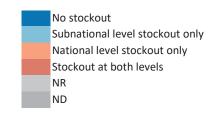
Sustained access to WHO accredited polio, measles, and rubella laboratories h	Yes
NITAG in place that meets six WHO criteria ^e	No
National system in place to monitor AEFIs ^e	Yes
Communication plan in place to respond to vaccine safety-related events ^e	No
Vaccine hesitancy assessment performed within last 5 years ^e	Yes
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 levele, 2013-2017

	2013	2014	2015	2016	2017
BCG	No	Both	ND	Both	No
DTP	No	Both	Both	No	No
НерВ	No	No	ND	No	No
Hib	No	No	ND	No	No
Pneumo	Both	NR	NR	NR	NR
Rota	NR	NR	NR	NR	NR
OPV	NR	NR	NR	NR	NR
IPV	No	No	ND	No	No
Measles	No	No	ND	No	No
HPV	*	*	*	No	ND
Π	Both	Both	ND	No	No



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	diptheria-tetanus-containing vaccine	ND	Data not available
DTP	diptheria-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
Нері	B hepatitis B	PCV3	pneumococcal conjugate vaccine , third dose
Нер	hepatitis B vaccine, third dose	Pol3	polio-containing vaccine, third dose
Нер	B-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

Map disclaimer

† The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

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