Routine immunization profile **Bosnia and Herzegovina**



Progress towards achieving European Vaccine Action Plan goals, 2017

Goal	Indicator	Status	Goal	Indicator	Status
1	Sustain polio-free status ^a (Current risk)	Yes (High)	4	Meets vaccination coverage targets DTP3 national immunization coverage ≥95% ^d ≥90% DTP3 coverage achieved in ≥90% of districts ^e	No No No
2	Measles elimination status ^b	Endemic	_	Make evidence-based decisions about introduction of new vaccines*e	Yes
2	Rubella elimination status ^b	Endemic	3	NITAG made a recommendation about PCV NITAG made a recommendation about RV NITAG made a recommendation about HPV	Yes Yes 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

Total Population ^f	3 507 017
Live births	32 478
Surviving infants	32 271
<5 years	155 330
<15 years	495 521
Neonatal mortality rate (per 1000 live births) ^f	4
Infant mortality rate (per 1000 live births) ^f	4.9
Number of districts ^e	18
GNI (per capita, in USD) ^g	4910
Health spending as % of total government expenditure ^g	15



Immunization schedule, 2017e

Birth	BCG, HepB_Pediatric
1M	HepB_Pediatric
2M	DTaPHibIPV1
3M	*DTaPHibIPV
4M	DTaPHibIPV
10M	HepB_Pediatric, DTaPHibIPV
12M	MMR
18M	DTaPHibIPV*
2Y	OPV
5Y	DTaPIPV
6Y	MMR, OPV*, DT*
14Y	OPV, Td
18Y	ТТ

*Only in the Republic of Srpska

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

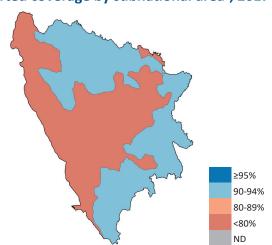
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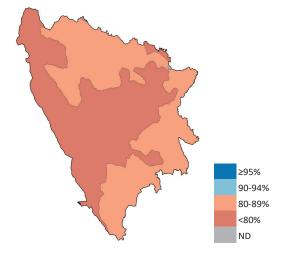
Vaccine coverage estimates, 2013-2017d

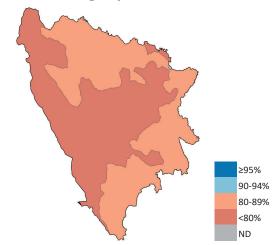
	2013	2014	2015	2016	2017
BCG	97	98	95	97	97
HepB-BD	ND	ND	ND	ND	ND
DTP1	94	92	89	90	92
DTP3	89	86	82	78	75
НерВ3	91	89	82	78	77
Hib3	93	79	78	69	68
Pol3	87	86	74	79	75
PCV3	NR	NR	NR	NR	NR
Rotac	NR	NR	NR	NR	NR
RCV1	92	89	83	68	69
MCV1	92	89	83	68	69
MCV2	93	92	88	78	80
	100		50		0 ND NR

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

	2013*	2014	2015	2016	2017
Measles		3000	1677	133	18
Mumps		ND	56	170	113
Rubella		ND	8	16	4
Congenital rubella syndrome		ND	ND	0	0
Diphtheria		ND	ND	0	0
Tetanus		ND	0	0	0
Pertussis		ND	12	20	122
Hepatitis A		ND	8	3	4
Varicella		ND	6366	14 582	8882

^{*}No JRF submitted

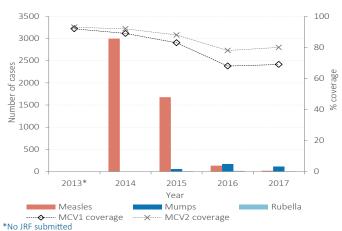
Surveillance with laboratory confirmation of cases, 2017^e

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

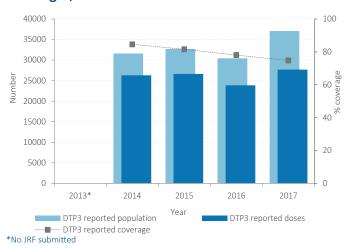
Note: Case-based surveillance (with laboratory confirmation of cases) assessed for measles, rubella, and congenital rubella syndrome. Hospital-based sentinel surveillance and/or population-based surveillance (both with laboratory confirmation of cases) assessed for rotavirus, invasive meningococcal disease,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



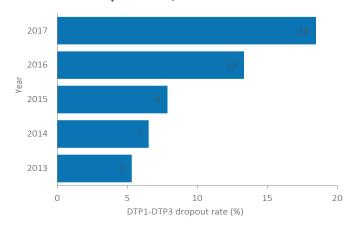
Number of reported measles, mumps and rubella cases^e and MCV coverage estimates^d, 2013-2017



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

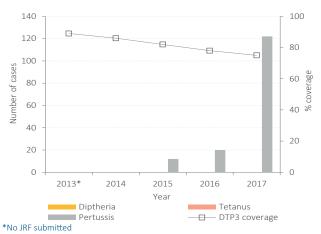


DTP1-DTP3 dropout rate, 2013-2017d

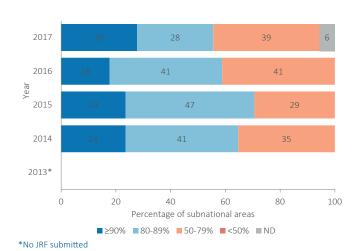


Note: Dropout rate is calculated using WUENIC

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



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



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	Yes*
National system in place to monitor AEFIs ^e	Yes
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 *Republic of Stoska meets 5 criteria	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

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Vaccine stockouts by administrative levele, 2013-2017

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



Abbreviations

AEF	=1	Adverse event following immunization	MCV1	measles-mumps-rubella vaccine, first dose
BCC	ŝ	Bacille Calmette-Guerin vaccine for tuberculosis	MCV2	measles-mumps-rubella vaccine, second dose
CRS	5	congenital Rubella Syndrome	MMR	measles-mumps-rubella vaccine
DT		diptheria-tetanus-containing vaccine	ND	Data not available
DTF)	diptheria-tetanus-pertussis-containing vaccine	NITAG	National Immunization Technical Advisory Group
DTF	P1	diphtheria-tetanus-pertussis-containing vaccine, first dose	NR	Not relevant as vaccine not included in immunization schedule
DTF	23	diphtheria-tetanus-pertussis-containing vaccine, third dose	OPV	oral polio vaccine
GN	I	Gross national income	PCV	pneumococcal conjugate vaccine
Нер	οВ	hepatitis B	PCV3	pneumococcal conjugate vaccine , third dose
Нер	оВ3	hepatitis B vaccine, third dose	Pol3	polio-containing vaccine, third dose
Нер	oB-BD	hepatitis B vaccine, birth dose	RCV1	rubella-containing vaccine, first dose
Hib)	Haemophilus influenzae type b	Rotac	rotavirus vaccine-complete series
Hib	3	Haemophilus influenzae type b vaccine, third dose	Td	tetanus-diphtheria-containing vaccine
HP\	V	human papillomavirus	TT	tetanus toxoid vaccine
IPV		inactivated polio vaccine	W,M,Y	Weeks, Months, Years
MC	CV	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

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

^{**}No IRE submitted