
Viral hepatitis in Albania, Bosnia and Herzegovina, Montenegro, North Macedonia and Serbia

Marcelo C M Naveira

WHO Consultant (Viral Hepatitis)

TB, HIV/AIDS, Hepatitis and other infectious diseases unit

Division of Country Health Programmes (CHP)



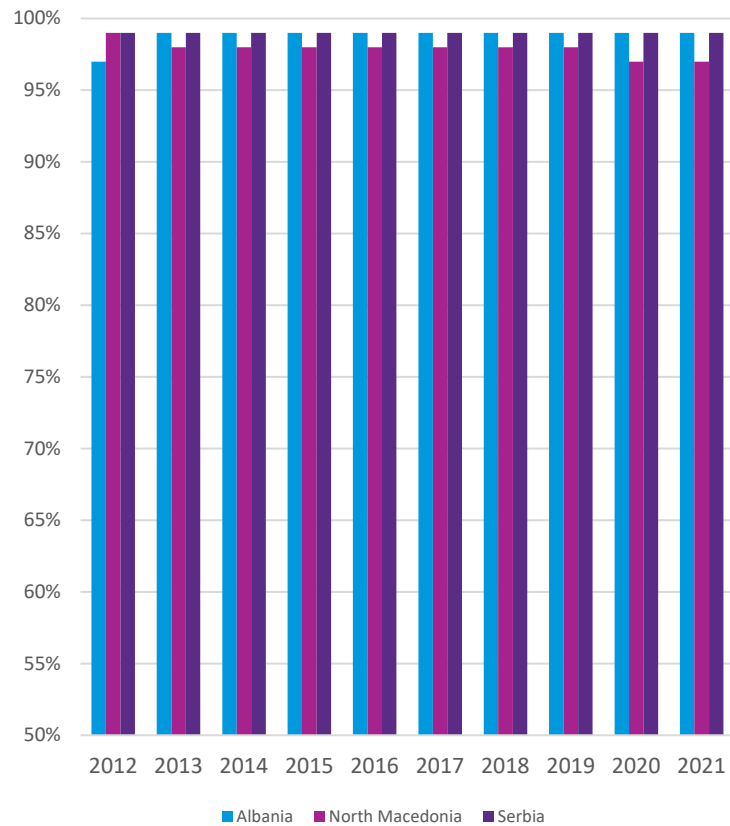
World Health
Organization

European Region

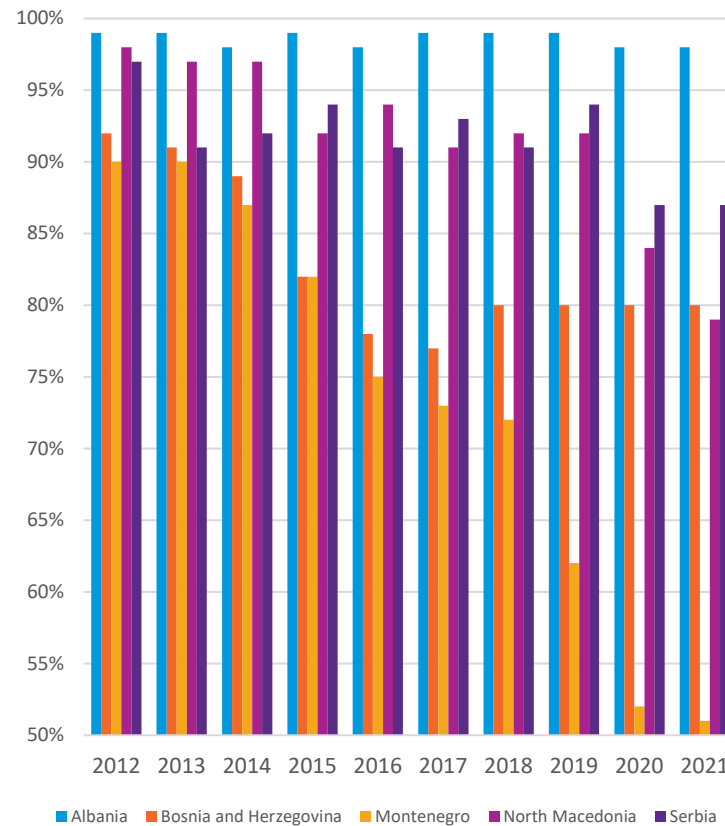


Immunization coverage

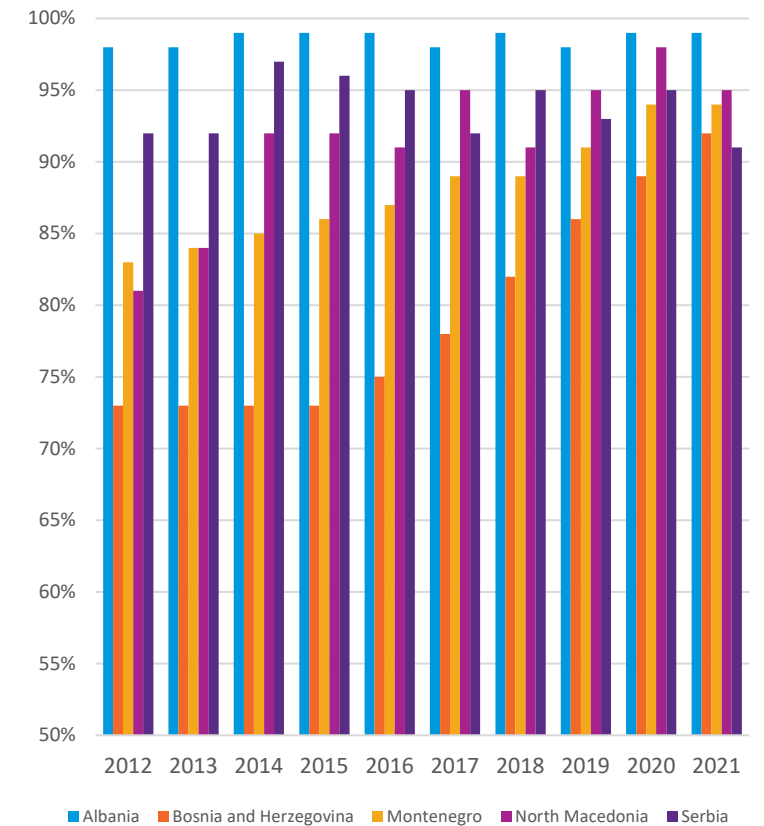
HepB BD (given within 24hrs of birth)



HepB3

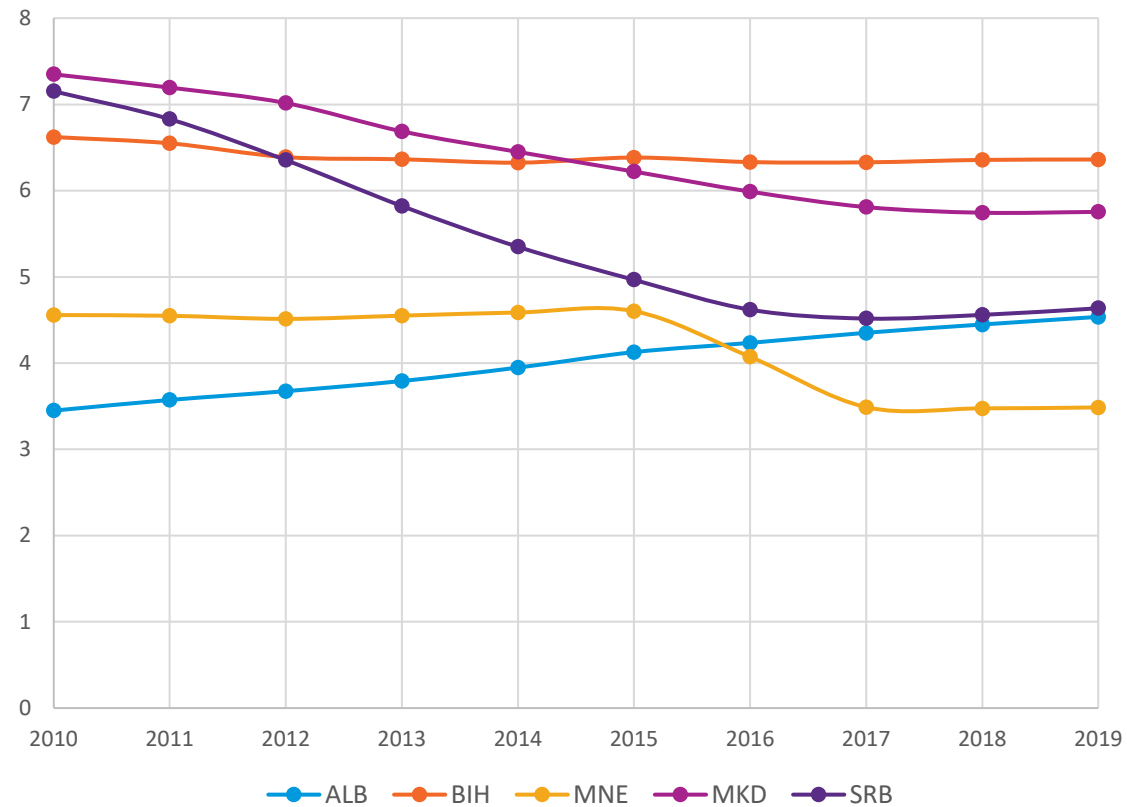


DTP3

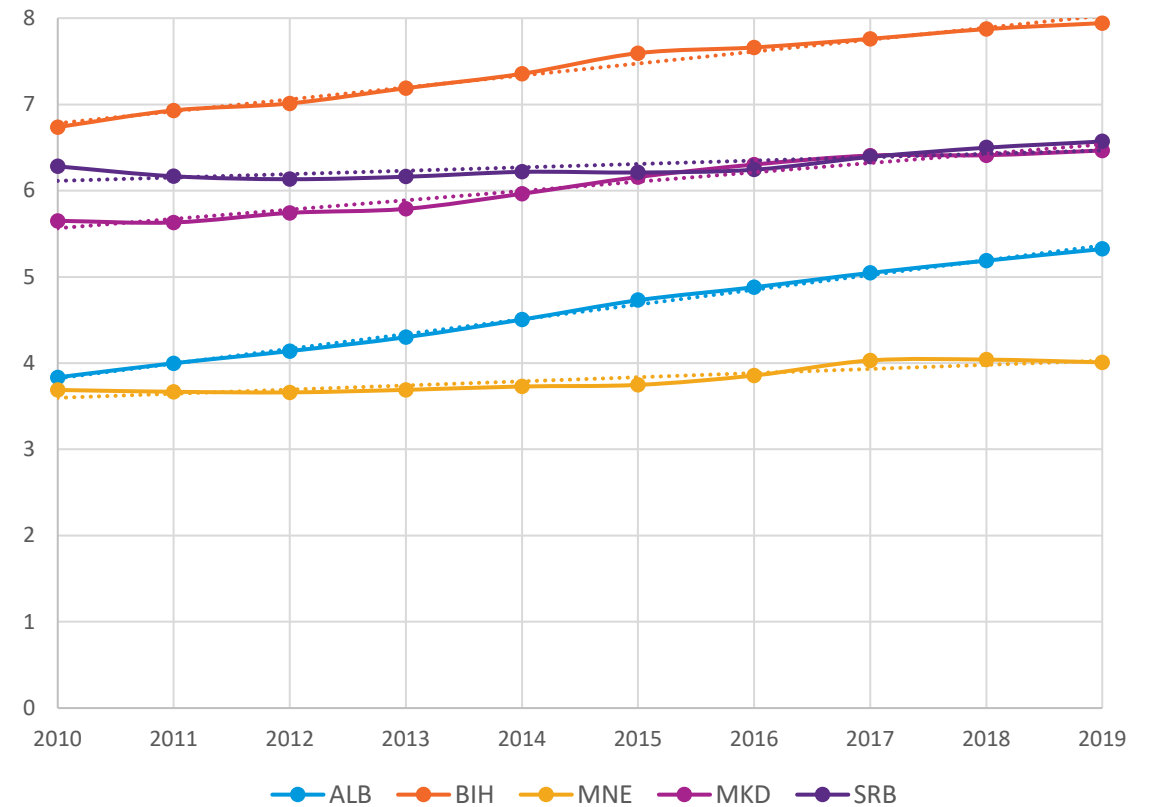


Total burden of disease

Hepatitis B (deaths per 100,000)



Hepatitis C (deaths per 100,000)



Strategic Direction 3: Impact targets

Indicator	Albania	Bosnia and Herzegovina	Montenegro	North Macedonia	Serbia
HBsAg prevalence in vaccinated cohorts <i>Baseline 2020: N/A</i> <i>Interim 2025 targets: 0.50%</i>	0.00% 1.7 (1.1-2.6) (2019)	0.01% 5.0 (3.3-7.2) (2019)	0.01% 5.2 (3.2-7.6) (2019)	0.01% 4.2 (2.7-6.2) (2019)	0.28% 3.1 (1.8-4.7) (2019)
Number of new Hepatitis B infections per year <i>Baseline 2020: 19,000 (20 per 100,000)</i> <i>Interim 2025 targets: 10,500 (11 per 100,000)</i>	2.96 (n=83) (ISHP, 2019)	0.8 (n=19) (ZZJZFBiH, 2020)	0.3 (n=5) (IPH, 2021)	1.4 (n=29) (IPH, 2021)	1.25 (n=87) (IZJZS, 2019)
Number of new Hepatitis C infections per year <i>Baseline 2020: 300,000 (62 per 100,000)</i> <i>Interim 2025 targets: 65,000 (13 per 100,000)</i>	0.64 (n=18) (ISHP, 2019)	0.4 (n=10) (ZZJZFBiH, 2020)	0.2 (n=1) (IPH, 2021)	0.1 (n=3) (IPH, 2021)	0.33 (n=23) (IZJZS, 2019)
Number of new HCV infections among PWID/yr <i>Baseline 2020: 8 per 1,000</i> <i>Interim 2025 targets: 3 per 1,000</i>	Not known	Not known	Not known	Not known	Not known
Number of deaths due to Hepatitis B per year <i>Baseline 2020: 43,000 (10 per 100,000)</i> <i>Interim 2025 targets: 28,000 (7 per 100,000)</i>	4.5	6.3	3.5	5.7	4.6
Number of deaths due to Hepatitis C per year <i>Baseline 2020: 64,000 (5 per 100,000)</i> <i>Interim 2025 targets: 53,000 (3 per 100,000)</i>	5.3	7.9	4.0	6.5	6.6

Strategic Direction 3: Coverage targets

Indicator	Albania	Bosnia and Herzegovina	Montenegro	North Macedonia	Serbia
Percentage of people living with HBV Dx/Tx <i>Baseline 2020: 19%/2% Interim 2025: 60%/50%</i>	? / ? / 2602* (MTU, 2022)	? / ? / ~380* (2021)	? / ? / 60 (IPH, 2022)	? / 592 / 535±50 (IPH, 2017) (2022)	? / ? / 2000 (2022)
Percentage of people living with HCV Dx/Tx <i>Baseline 2020: 24%/8% Interim 2025: 60%/50%</i>	? / ? / 294* (MTU, 2022)	? / No waiting list* 960 (DAAs) + 727 IFN (2021)	~2,000 / 354 / >114 (DAAs) + 68 IFN (KCCG, 2018) (IPH, 2022)	? / 1,279 / 259 (DAAs) + 459 IFN* (IPH, 2017) (2022)	? / ? / 5,500 (2022)
Vaccination coverage: HepB3 <i>Baseline 2020: 91% Interim 2025: 95%</i>	98%	80%	52%	79%	87%
% of pregnant women screened for HBsAg <i>Baseline 2020: 91% Interim 2025: 95%</i>	NK (antenatal % high)	NK	Recommended (antenatal % unclear)	NK	NK
% of newborns who received timely HepB-BD <i>Baseline 2020: >90% Interim 2025: 90%</i>	99%	N/A	N/A	97%	99%

Strategic Direction 3: Coverage targets

Indicator	Albania	Bosnia and Herzegovina	Montenegro	North Macedonia	Serbia
Percentage of blood units screened for bloodborne diseases <i>Baseline 2020: 95% Interim 2025: 100%</i>	100%	Not known	100%*	100%*	100%*
Percentage of injections in health care settings undertaken with safe injecting equipment <i>Baseline 2020: No data Interim 2025: 95%</i>	Not known	Not known	Not known	Not known	Not known
Minimum sterile injection equipment kits distributed per person per year for people who inject drugs, as part of a comprehensive package of harm-reduction services <i>Baseline 2020: 200 Interim 2025: 200</i>	42 (2019)	130 (2014)	74 (2020)	66 (2019)	2 (2018)
Percentage of opioid-dependent people who inject drugs who receive OST <i>Baseline 2020: No data Interim 2025: 40%</i>	11.2% (2019) 13-32% (2017) 6 sites	17% (61% among registered) 12 sites	Coverage unclear 5 sites	30.6% (2019) 16 sites	28.3% (2018) 23 sites

Strategic Direction 3: Supportive environment targets

Indicator	Albania	Bosnia and Herzegovina	Montenegro	North Macedonia	Serbia
% of countries that have a costed plan to eliminate hepatitis B and C with measurable targets and indicators <i>Baseline 2020: 33 Interim 2025: 42 (80%)</i>	No	No	Hepatitis response is contained in HIV NSP	No	No
% of countries with burden of disease estimates and annual or every 2 years reporting of the cascade of care <i>Baseline 2020: 36 (70%) Interim 2025: 40 (75%)</i>	<i>Not known</i>	<i>Not known</i>	<i>Not known</i>	<i>Not known</i>	<i>Not known</i>
Integration: % of PLWHIV tested/cured HCV <i>Baseline 2020: No data Interim 2025: 60%/50%</i>	<i>Not known</i>	<i>Not known</i>	100% Tx/Dx (2019)	<i>Not known</i>	<i>Not known</i>

Modelled estimates (CDAF, 2021)



Indicator		Albania	Bosnia and Herzegovina	Montenegro	North Macedonia	Serbia
Impact	Number of new Hepatitis B infections per year <i>Baseline 2020: 19,000 (20 per 100,000)</i> <i>Interim 2025 targets: 10,500 (11 per 100,000)</i>	40.0 (n=1,100)	50.0 (n=1,500)	8.0 (n=50)	16.0 (n=330)	14.0 (n=1,000)
	Number of new Hepatitis C infections per year <i>Baseline 2020: 300,000 (62 per 100,000)</i> <i>Interim 2025 targets: 65,000 (13 per 100,000)</i>	17.0 (480)	17.0 (540)	17.0 (100)	17.0 (340)	17.0 (1,100)
	Number of deaths due to Hepatitis B per year <i>Baseline 2020: 43,000 (10 per 100,000)</i> <i>Interim 2025 targets: 28,000 (7 per 100,000)</i>	20.0 (680)	10.0 (330)	7.0 (40)	6.0 (130)	7.0 (490)
	Number of deaths due to Hepatitis C per year <i>Baseline 2020: 64,000 (5 per 100,000)</i> <i>Interim 2025 targets: 53,000 (3 per 100,000)</i>	4.0 (110)	4.0 (120)	4.0 (20)	4.0 (80)	4.0 (260)
Coverage	Percentage of people living with HBV Dx/Tx <i>Baseline 2020: 19%/2% Interim 2025: 60%/50%</i>	4.0% / 0.1%	4.0% / 0.8%	20.0% / 2.0%	20.0% / 2.0%	20.0% / 1.0%
	Percentage of people living with HCV Dx/Tx <i>Baseline 2020: 24%/8% Interim 2025: 60%/50%</i>	18.0% / 1.0%	18.0% / 1.0%	18.0% / 1.0%	18.0% / 1.0%	18.0% / 1.0%

WHO & Partners - Acknowledgements

- **World Hepatitis Alliance**
- **National counterparts and health workforce**
- **CDA Foundation**
- **European Association for the Study of the Liver**
- **European Centre for Disease Prevention and Control**
- **US Centers for Disease Prevention and Control**
- **Viral Hepatitis Prevention Board**
- **WHO Collaborating Centres**
 - Robert Koch Institute (DEU)
 - National Center for Disease Control and Public Health (GEO)

