

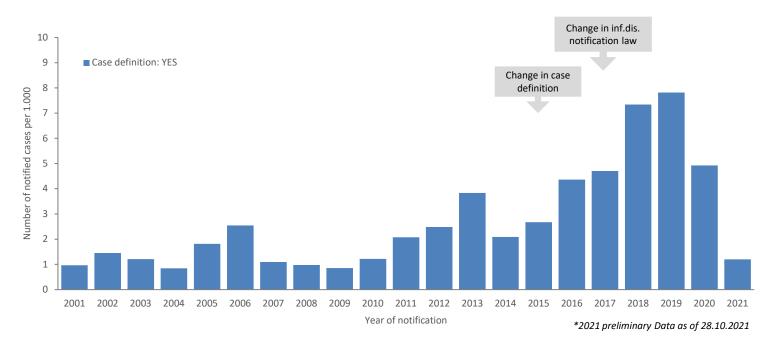


Data sources

- Surveillance data
- Epidemiology of hepatitis B, D and C in Germany the systematic review
 - Steffen G, Sperle I, Leendertz SA, Sarma N, Beermann S, Thamm R, Bremer V, Zimmermann R, Dudareva S. The epidemiology of Hepatitis B, C and D in Germany: A scoping review. PLoS One. 2020 Mar 9;15(3):e0229166.
 - Sperle I, Steffen G, Leendertz SA, Sarma N, Beermann S, Thamm R, Simeonova Y, Cornberg M, Wedemeyer H, Bremer V, Zimmermann R and Dudareva S (2020) Prevalence of Hepatitis B, C, and D in Germany: Results From a Scoping Review. Front. Public Health 8:424.
 - Steffen G, Sperle I, Harder T, Sarma N, Beermann S, Thamm R, Bremer V, Zimmermann R, Dudareva S. Hepatitis B vaccination coverage in Germany: systematic review. BMC Infect Dis. 2021 Aug 14;21(1):817
- Selected more recent publications from Germany

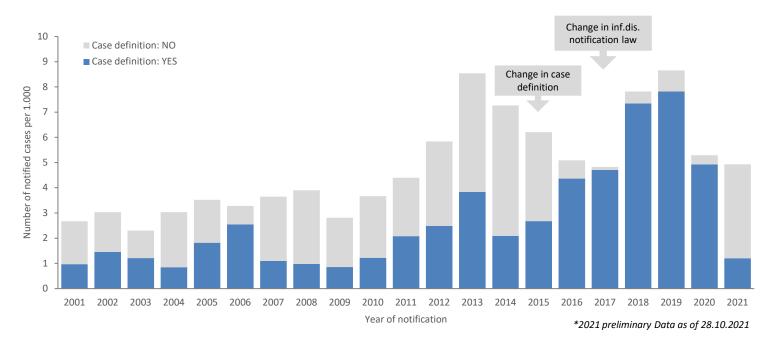


Number of notified hepatitis D cases per 1.000 population in Germany, 2001-2021*



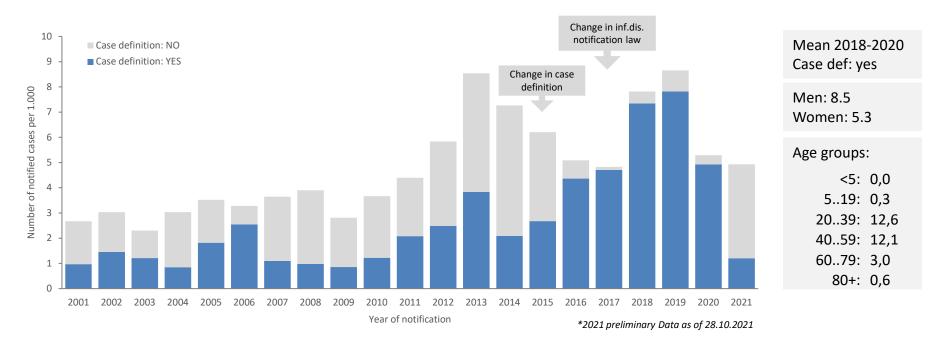


Number of notified hepatitis D cases per 1.000 population in Germany, 2001-2021*





Number of notified hepatitis D cases per 1.000 population in Germany, 2001-2021*





Epidemiology of hepatitis B, D and C in Germany - the systematic review

 \rightarrow Gathering of existing evidence und evidence gaps

 \rightarrow Identification of research gaps

→ Basis for future investigations/modeling of the burden of disease and monitoring of the viral hepatitis elimination goals

- Burden of disease
- Secondary diseases
- Treatment/Care
- Routes of transmission
- In consideration of vulnerable groups and gender aspects
- \rightarrow Systematic literature review (scoping & sytematic part)
- ightarrow Overview of existing secondary data
- ightarrow Publications published between 2005 and 2017

28.10.2021

Evidence on Hepatitis D in Germany

	Burden of disease			Sequelae			Care			
	Prevalence	Incidence	Mortality	Transmiss. routes	Acute liver failure	Liver cirrhosis	HCC	Diagnosis	Treatment	Liver transpl.
General population										
Blood donors										
Pregnant women										
People living with viral hepatitis										
Clinical populations										
Household contacts of People living with viral hepatitis										
Health care workers										
People living with HIV										
People in prisons										
Men who have sex with Men										
Migrant/mobile populations										
People who inject drugs										

28.10.2021



Prevalence of Hepatitis D in Germany

Publication	Data collectio period	n Place of data collection	Study type	Recruitment setting	Ν	Mean/media age (range)	Prevalence	Risk of bias
Erhardt 2010	Jan 1989- Dec 2008	Düsseldorf	Cohort	Hospital	N=1307	Not reported	5.1% (chronic HDV)	Low risk
Fischer et al. 2012	Dec 2004- Mar 2007	Nationwide	Cross- sectional	Centres with hepatologic focus (n=74)	N=1535	39.8 yrs. (mean)	1.4% (HDV)	Low risk
Reinheimer et al. 2012	Jan 2000 – Oct 2011	Frankfurt am Main	Cross- sectional	University Hospital Frankfurt	N=2844	Not described	7.4% (anti-HDV)	Low risk
Magistro 2014	Jan 2000 – Dec 2008	Ulm	Cross- sectional	Hepatology Unit, University Hospital	N=327	41.9 yrs. (mean) (17-81 yrs.)	0% (HDV)	Low risk

Population: VH population in care --> chronic HBV

28.10.2021



Mortality, transmission routes and care of hepatitis D in Germany

Publication	Data collectio period	n Place of data collection	Study type	Recruitment setting	Ν	Mean/media age (range)	Prevalence	Risk of bias	
Erhardt 2010	Jan 1989- Dec 2008	Düsseldorf	Cohort	Hospital	N=1307	Not reported	5.1% (chronic HDV)	Low risk	
Males 61% Mean age:	(n=40), fem 37 yrs	ales 39% (n=	=27)	ι	Transmission route (N=67): Unknown: 37.4% (n=25)				
	in 85.1%, ope 40.3% (r ean Area 29. ope 14.9% (n % (n=7)	9% (n=20)		ר נ פ	Transfusio Drug abus Sexual 10.	tory 19.4% (n=1 n/medical inter e 10.4% (n=7) 4% (n=7) isk factors: 9.0%	vention 13.49	% (n=9)	



Mortality, transmission routes and care of hepatitis D in Germany

Publication	Data collectio period		of data ction	Study type	Recruitment setting	N	Mean/media age (range)	Prevalence	Risk of bias
Erhardt 2010	Jan 1989- Dec 2008	Düssel	dorf	Cohort	Hospital	N=1307	Not reported	5.1% (chronic HDV)	Low risk
Type of Burder	n of Disease	N							
Cirrhosis		67	38.8%	(n=26)					
нсс		67	7.5% (n=5)					
Liver transplan	tation	67	7.5% (n=5)					
Mortality and S	Survival	67	Overal	l survival aft		aplan-Me	%, resulting in yea yer). Survival durir		
Therapy rate H	DV	67	Treatm	nent rate: 61	.2% (n=41)				
28.10.2021			Duda	reva: HepD (Germany data				10



Prevalence of antibodies against Hepatitis D virus (HDV) in blood donors in Northern Germany

- 167 donors with anti-HBc:
 - 9 (5.4 %) HBsAg and HBV DNA
 - 2 (1.2%) Anti-HDV
 - 4 (2.4 %) borderline result.
 - Nobady with HDV RNA

Juhl D, Chudy M, Görg S, Hennig H. Prevalence of antibodies against Hepatitis D virus (HDV) in blood donors in Northern Germany. Transfus Apher Sci. 2020 Jun;59(3):102721. doi: 10.1016/j.transci.2020.102721. Epub 2020 Jan 9. PMID: 31964608.