*‘Epidemiology and Infection’*

**Current prevalence of chronic hepatitis B and C virus infection in the general population, blood donors and pregnant women in the EU/EEA: a systematic review.**

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The geographical search strategy was developed by ECDC and underwent one testing round with the following results: NPV of 98∙4% and a PPV of 66∙4% in Embase© and NPV of 97∙6% and a PPV of 65∙2% in PubMed®. The geographical search strategy was not applied to the Cochrane Library.

## Pubmed search

Date of the search: 16/03/2015

Language limit: no limitis

Dates limits: from 2005 to 2015

No of results: 4541

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OR Zilin\*[tw] OR Trnava[tw] OR Trnav\*[tw] OR Presov[tw] OR Presov\*[tw] OR Kosic\*[tw] OR (Martin[tw] AND (city[tw] OR Svaty[tw])) OR Poprad[tw])) OR (Slovakia[ad] OR Slovensk\*[ad] OR Slovak\*[ad] OR Bratislav\*[ad] OR Trnav\*[ad] OR Nitrian\*[ad] OR Nitra[ad] OR Trencian\*[ad] OR Trencin[ad] OR Banskobystri\*[ad] OR "Banska Bystrica"[ad] OR Zilina[ad] OR Zilin\*[ad] OR Trnava[ad] OR Trnav\*[ad] OR Presov\*[ad] OR Kosic\*[ad] OR (Martin[ad] AND (city[ad] OR Svaty[ad])) OR Poprad[ad])) OR ((((Romania[tw] OR Rumania[tw] OR Roumania[tw] OR Romanian[tw] OR Roman[tw] OR Bucharest[tw] OR Bucuresti[tw] OR Alba[tw] OR Brasov[tw] OR Covasna[tw] OR Harghita[tw] OR Mures[tw] OR Sibiu[tw] OR Bacau[tw] OR Botosani[tw] OR Iasi[tw] OR Neamt[tw] OR Suceava[tw] OR Vaslui[tw] OR Bihor[tw] OR "Bistrita Nasaud"[tw] OR Cluj[tw] OR Maramures[tw] OR Salaj[tw] OR "Satu Mare"[tw] OR Arges[tw] OR Calarasi[tw] OR Dambovita[tw] OR Giurgiu[tw] OR Ialomita[tw] OR Prahova[tw] OR Teleorman[tw] OR Braila[tw] OR Buzau[tw] OR Constanta[tw] OR Galati[tw] OR Tulcea[tw] OR Vrancea[tw] OR Dolj[tw] OR Gorj[tw] OR Mehedinti[tw] OR (Olt[tw] AND (river[tw] OR county[tw] OR region[tw] OR judetul[tw] OR Raul[tw])) OR Valcea[tw] OR Vilcea[tw] OR Arad[tw] OR "Caras-Severin"[tw] OR Hunedoara[tw] OR Timis[tw] OR Ilfov[tw] OR Timisoara[tw] OR Constanta[tw] OR Craiova[tw] OR Ploiesti[tw] OR Oradea[tw] OR "Cluj-Napoca"[tw] OR Deva[tw])) OR (Romania[ad] OR Rumania[ad] OR Roumania[ad] OR Romanian[ad] OR Roman[ad] OR Bucharest[ad] OR Bucuresti[ad] OR Alba[ad] OR Brasov[ad] OR Covasna[ad] OR Harghita[ad] OR Mures[ad] OR Sibiu[ad] OR Bacau[ad] OR Botosani[ad] OR Iasi[ad] OR Neamt[ad] OR Suceava[ad] OR Vaslui[ad] OR Bihor[ad] OR "Bistrita Nasaud"[ad] OR Cluj[ad] OR Maramures[ad] OR Salaj[ad] OR "Satu Mare"[ad] OR Arges[ad] OR Calarasi[ad] OR Dambovita[ad] OR Giurgiu[ad] OR Ialomita[ad] OR Prahova[ad] OR Teleorman[ad] OR Braila[ad] OR Buzau[ad] OR Constanta[ad] OR Galati[ad] OR Tulcea[ad] OR Vrancea[ad] OR Dolj[ad] OR Gorj[ad] OR Mehedinti[ad] OR (Olt[ad] AND (river[ad] OR county[ad] OR region[ad] OR judetul[ad] OR Raul[ad])) OR Valcea[ad] OR Vilcea[ad] OR Arad[ad] OR "Caras-Severin"[ad] OR Hunedoara[ad] OR Timis[ad] OR Ilfov[ad] OR Timisoara[ad] OR Constanta[ad] OR Craiova[ad] OR Ploiesti[ad] OR Oradea[ad] OR "Cluj-Napoca"[ad] OR Deva[ad])) OR (((Portugal[tw] OR Portugues\*[tw] OR Lisboa[tw] OR Lisbon[tw] OR Leira[tw] OR Santarem[tw] OR Beja[tw] OR Faro[tw] OR Evora[tw] OR Portalegre[tw] OR "Castelo Branco"[tw] OR Guarda[tw] OR Aveiro[tw] OR Viseu[tw] OR Braganca[tw] OR "Vila real"[tw] OR "Viana do Castelo"[tw] OR Alentejo[tw] OR Azores[tw] OR Acores[tw] OR Madeira[tw] OR "Os Montes"[tw] OR (Ave[tw] AND (community[tw] OR intermunicipal[tw] OR comunidade[tw])) OR Mondego[tw] OR Vouga[tw] OR Beira[tw] OR Cavado[tw] OR Lafoes[tw] OR Douro[tw] OR Porto[tw] OR Tejo[tw] OR Minho[tw] OR Setubal[tw] OR Pinhal[tw] OR "Serra da Estrela"[tw] OR Tamega[tw] OR Algarve[tw] OR Gaia[tw] OR Amadora[tw] OR Braga[tw] OR (Agualva[tw] AND Cacem[tw]) OR Funchal[tw] OR Coimbra[tw] OR Almada[tw])) OR (Portugal[ad] OR Portugues\*[ad] OR Lisboa[ad] OR Lisbon[ad] OR Leira[ad] OR Santarem[ad] OR Beja[ad] OR Faro[ad] OR Evora[ad] OR Portalegre[ad] OR "Castelo Branco"[ad] OR Guarda[ad] OR Aveiro[ad] OR Viseu[ad] OR Braganca[ad] OR "Vila real"[ad] OR "Viana do Castelo"[ad] OR Alentejo[ad] OR Azores[ad] OR Acores[ad] OR Madeira[ad] OR "Os Montes"[ad] OR (Ave[ad] AND (community[ad] OR intermunicipal[ad] OR comunidade[ad])) OR Mondego[ad] OR Vouga[ad] OR Beira[ad] OR Cavado[ad] OR Lafoes[ad] OR Douro[ad] OR Porto[ad] OR Tejo[ad] OR Minho[ad] OR Setubal[ad] OR Pinhal[ad] OR "Serra da Estrela"[ad] OR Tamega[ad] OR Algarve[ad] OR Gaia[ad] OR Amadora[ad] OR Braga[ad] OR (Agualva[ad] AND Cacem[ad]) OR Funchal[ad] OR Coimbra[ad] OR Almada[ad])) OR (((Poland[ad] OR Polska[ad] OR Polish[ad] OR Polski[ad] OR Pole[ad] OR Poles[ad] OR Polak[ad] OR Polka[ad] OR Polacy[ad] OR Polacy[ad] OR Warsaw[ad] OR Warszawa[ad] OR Wielkopolskie[ad] OR Pomerania\*[ad] OR Pomorskie[ad] OR Kuyavian[ad] OR Kujawsko[ad] OR Malopolskie[ad] OR Lodz[ad] OR Lodzkie[ad] OR Silesia\*[ad] OR Slask[ad] OR Dolnoslaskie[ad] OR Lublin[ad] OR Lubelskie[ad] OR Lubus[ad] OR Lubusz[ad] OR Lubuskie[ad] OR Masovia[ad] OR Mazowske[ad] OR Masovian[ad] OR Mazowieckie[ad] OR Opole[ad] OR Opolskie[ad] OR Podlaskie[ad] OR Podlachia[ad] OR Podlasie[ad] OR Subcarpathian\*[ad] OR Carpathian\*[ad] OR Podkarpackie[ad] OR Swietokrzyskie[ad] OR Slaskie[ad] OR Slask[ad] OR "Varmia Mazuria"[ad] OR "Varmian Mazurian"[ad] OR "Varmia Masuria"[ad] OR "Varmian Masurian"[ad] OR "Warmia Mazury"[ad] OR "Warminsko Mazurskie"[ad] OR Zachodniopomorskie[ad] OR Krakow[ad] OR Cracow[ad] OR Wroclaw[ad] OR Poznan[ad] OR Gdansk[ad] OR Szczecin[ad] OR Bydgoszcz[ad] OR Katowice[ad] OR Bialystok[ad] OR Olsztyn[ad] OR Kielce[ad] OR "Zielona Gora"[ad] OR Torun[ad] OR "Gorzow Wielkopolski"[ad])) OR (Poland[tw] OR Polska[tw] OR Polish[tw] OR Polski[tw] OR Pole[tw] OR Poles[tw] OR Polak[tw] OR Polka[tw] OR Polacy[tw] OR Polacy[tw] OR Warsaw[tw] OR Warszawa[tw] OR Wielkopolskie[tw] OR Pomerania\*[tw] OR Pomorskie[tw] OR Kuyavian[tw] OR Kujawsko[tw] OR Malopolskie[tw] OR Lodz[tw] OR Lodzkie[tw] OR Silesia\*[tw] OR Slask[tw] OR Dolnoslaskie[tw] OR Lublin[tw] OR Lubelskie[tw] OR Lubus[tw] OR Lubusz[tw] OR Lubuskie[tw] OR Masovia[tw] OR Mazowske[tw] OR Masovian[tw] OR Mazowieckie[tw] OR Opole[tw] OR Opolskie[tw] OR Podlaskie[tw] OR Podlachia[tw] OR Podlasie[tw] OR Subcarpathian\*[tw] OR Carpathian\*[tw] OR Podkarpackie[tw] OR Swietokrzyskie[tw] OR Slaskie[tw] OR Slask[tw] OR "Varmia Mazuria"[tw] OR "Varmian Mazurian"[tw] OR "Varmia Masuria"[tw] OR "Varmian Masurian"[tw] OR "Warmia Mazury"[tw] OR "Warminsko Mazurskie"[tw] OR Zachodniopomorskie[tw] OR Krakow[tw] OR Cracow[tw] OR Wroclaw[tw] OR Poznan[tw] OR Gdansk[tw] OR Szczecin[tw] OR Bydgoszcz[tw] OR Katowice[tw] OR Bialystok[tw] OR Olsztyn[tw] OR Kielce[tw] OR "Zielona Gora"[tw] OR Torun[tw] OR "Gorzow Wielkopolski"[tw])) OR (((Netherlands[ad] OR Nederland\*[ad] OR Dutch\*[ad] OR Amsterdam[ad] OR Drenthe[ad] OR Flevoland[ad] OR Friesland[ad] OR Fryslan[ad] OR Gelderland[ad] OR Guelders[ad] OR Groningen[ad] OR Limburg[ad] OR "North Brabant"[ad] OR "Noord Brabant"[ad] OR Holland[ad] OR Overijssel[ad] OR Overissel[ad] OR Utrecht[ad] OR Zeeland[ad] OR Rotterdam[ad] OR Hague[ad] OR Eindhoven[ad] OR Tilburg[ad] OR Almere[ad] OR Breda[ad] OR Nijmegen[ad] OR Nimeguen[ad])) OR (Netherlands[tw] OR Nederland\*[tw] OR Dutch\*[tw] OR Amsterdam[tw] OR Drenthe[tw] OR Flevoland[tw] OR Friesland[tw] OR Fryslan[tw] OR Gelderland[tw] OR Guelders[tw] OR Groningen[tw] OR Limburg[tw] OR "North Brabant"[tw] OR "Noord Brabant"[tw] OR Holland[tw] OR Overijssel[tw] OR Overissel[tw] OR Utrecht[tw] OR Zeeland[tw] OR Rotterdam[tw] OR Hague[tw] OR Eindhoven[tw] OR Tilburg[tw] OR Almere[tw] OR Breda[tw] OR Nijmegen[tw] OR Nimeguen[tw])) OR (Malta[tw] OR Maltese[tw] OR Valletta[tw] OR Gozo[tw] OR Ghawdex[tw] OR Malta[ad] OR Maltese[ad] OR Valletta[ad] OR Gozo[ad] OR Ghawdex[ad]) OR (Luxembourg\*[tw] OR Luxemburg[tw] OR Letzebuerg[tw] OR Diekirch[tw] OR Grevenmacher[tw] OR Luxembourg\*[ad] OR Luxemburg[ad] OR Letzebuerg[ad] OR Diekirch[ad] OR Grevenmacher[ad]) OR (((Lithuania\*[tw] OR "Lietuvos Respublika"[tw] OR Lietuva[tw] OR lietuviu[tw] OR Vilnius[tw] OR Vilniaus[tw] OR Kaunas[tw] OR Kauno[tw] OR Klaipeda[tw] OR Klaipedos[tw] OR Panevezys[tw] OR Panevezio[tw] OR Siauliai[tw] OR Siauliu[tw] OR Alytus[tw] OR Alytaus[tw] OR Taurages[tw] OR Taurage[tw] OR Marijampoles[tw] OR Marijampole[tw] OR Telsiu[tw] OR Telsiai[tw] OR Utenos[tw] OR Utena[tw] OR Mazeikiai[tw] OR Jonava[tw] OR Mazeikiu[tw] OR Jonavos[tw])) OR (Lithuania\*[ad] OR "Lietuvos Respublika"[ad] OR Lietuva[ad] OR lietuviu[ad] OR Vilnius[ad] OR Vilniaus[ad] OR Kaunas[ad] OR Kauno[ad] OR Klaipeda[ad] OR Klaipedos[ad] OR Panevezys[ad] OR Panevezio[ad] OR Siauliai[ad] OR Siauliu[ad] OR Alytus[ad] OR Alytaus[ad] OR Taurages[ad] OR Taurage[ad] OR Marijampoles[ad] OR Marijampole[ad] OR Telsiu[ad] OR Telsiai[ad] OR Utenos[ad] OR Utena[ad] OR Mazeikiai[ad] OR Jonava[ad] OR Mazeikiu[ad] OR Jonavos[ad])) OR (((Latvi\*[tw] OR Latvija\*[tw] OR Riga[tw] OR Courland[tw] OR Kurzeme[tw] OR Kurland[tw] OR Latgale[tw] OR Lettgallia[tw] OR Latgola[tw] OR Vidzeme[tw] OR Vidumo[tw] OR Semigallia[tw] OR Semigalia[tw] OR Zemgale[tw] OR Pieriga[tw] OR Daugavpils[tw] OR Dinaburg[tw] OR Liepaja[tw] OR Libau[tw] OR Jelgava[tw] OR Jurmala[tw] OR Jekabpils[tw] OR Jakobstadt[tw] OR Rezekne[tw] OR Rezne[tw] OR Rositten[tw] OR Valmiera[tw] OR Wolmar[tw] OR Ventspils[tw] OR Windau[tw])) OR (Latvi\*[ad] OR Latvija\*[ad] OR Riga[ad] OR Courland[ad] OR Kurzeme[ad] OR Kurland[ad] OR Latgale[ad] OR Lettgallia[ad] OR Latgola[ad] OR Vidzeme[ad] OR Vidumo[ad] OR Semigallia[ad] OR Semigalia[ad] OR Zemgale[ad] OR Pieriga[ad] OR Daugavpils[ad] OR Dinaburg[ad] OR Liepaja[ad] OR Libau[ad] OR Jelgava[ad] OR Jurmala[ad] OR Jekabpils[ad] OR Jakobstadt[ad] OR Rezekne[ad] OR Rezne[ad] OR Rositten[ad] OR Valmiera[ad] OR Wolmar[ad] OR Ventspils[ad] OR Windau[ad]))) OR ((((Italy[tw] OR Italia\*[tw] OR Rome[tw] OR Roma[tw] OR Abruzzo[tw] OR Abruzzi[tw] OR Basilicata[tw] OR Lucania[tw] OR Calabria[tw] OR Campania[tw] OR "Emilia Romagna"[tw] OR "friuli venezia giulia"[tw] OR Lazio[tw] OR Latium[tw] OR Liguria\*[tw] OR Lombardy[tw] OR Lombardia[tw] OR Marche[tw] OR Marches[tw] OR Molisano[tw] OR Molise[tw] OR Piedmont\*[tw] OR Piemonte[tw] OR Sardinia[tw] OR Sardegna[tw] OR Sicily[tw] OR Sicilia[tw] OR Toscana[tw] OR Tuscany[tw] OR Trentino[tw] OR Trento[tw] OR Umbria[tw] OR Veneto[tw] OR Triveneto[tw] OR Puglia[tw] OR Apulia[tw] OR Bolzano[tw] OR Bozen[tw] OR Milan[tw] OR Milano[tw] OR Naples[tw] OR Napoli[tw] OR Turin[tw] OR Torino[tw] OR Palermo[tw] OR Genoa[tw] OR Genova[tw] OR Bologna[tw] OR Florence[tw] OR Firenze[tw] OR Bari[tw] OR Catania[tw] OR Venezia[tw] OR Venice[tw] OR Padova[tw] OR Padua[tw] OR Siena[tw] OR Bologna[tw] OR Trieste[tw] OR Urbino[tw] OR Aosta[tw] OR Aoste[tw] OR Perugia[tw] OR Brescia[tw] OR Cagliari[tw] OR Catanzaro[tw] OR "L Aquila"[tw] OR Ancona[tw])) OR (Italy[ad] OR Italia\*[ad] OR Rome[ad] OR Roma[ad] OR Abruzzo[ad] OR Abruzzi[ad] OR Basilicata[ad] OR Lucania[ad] OR Calabria[ad] OR Campania[ad] OR "Emilia Romagna"[ad] OR "friuli venezia giulia"[ad] OR Lazio[ad] OR Latium[ad] OR Liguria\*[ad] OR Lombardy[ad] OR Lombardia[ad] OR Marche[ad] OR Marches[ad] OR Molisano[ad] OR Molise[ad] OR Piedmont\*[ad] OR Piemonte[ad] OR Sardinia[ad] OR Sardegna[ad] OR Sicily[ad] OR Sicilia[ad] OR Toscana[ad] OR Tuscany[ad] OR Trentino[ad] OR Trento[ad] OR Umbria[ad] OR Veneto[ad] OR Triveneto[ad] OR Puglia[ad] OR Apulia[ad] OR Bolzano[ad] OR Bozen[ad] OR Milan[ad] OR Milano[ad] OR Naples[ad] OR Napoli[ad] OR Turin[ad] OR Torino[ad] OR Palermo[ad] OR Genoa[ad] OR Genova[ad] OR Bologna[ad] OR Florence[ad] OR Firenze[ad] OR Bari[ad] OR Catania[ad] OR Venezia[ad] OR Venice[ad] OR Padova[ad] OR Padua[ad] OR Siena[ad] OR Bologna[ad] OR Trieste[ad] OR Urbino[ad] OR Aosta[ad] OR Aoste[ad] OR Perugia[ad] OR Brescia[ad] OR Cagliari[ad] OR Catanzaro[ad] OR "L Aquila"[ad] OR Ancona[ad])) OR (((Ireland[tw] OR Eire[tw] OR Irish\*[tw] OR Dublin[tw] OR Fingal[tw] OR "Dun Laoghaire"[tw] OR Wicklow[tw] OR Wexford[tw] OR Carlow[tw] OR Kildare[tw] OR Meath[tw] OR Louth[tw] OR Monaghan[tw] OR Cavan[tw] OR Longford[tw] OR Westmeath[tw] OR Offaly[tw] OR Laois[tw] OR Kilkenny[tw] OR Waterford[tw] OR Cork[tw] OR Kerry[tw] OR Limerick[tw] OR Tipperary[tw] OR Clare[tw] OR Galway[tw] OR Mayo[tw] OR Roscommon[tw] OR Sligo[tw] OR Leitrim[tw] OR Donegal[tw] OR Drogheda[tw] OR Dundalk[tw] OR Swords[tw] OR Bray[tw] OR Navan[tw] OR Munster[tw] OR Leinster[tw] OR Connacht[tw])) OR (Ireland[ad] OR Eire[ad] OR Irish\*[ad] OR Dublin[ad] OR Fingal[ad] OR "Dun Laoghaire"[ad] OR Wicklow[ad] OR Wexford[ad] OR Carlow[ad] OR Kildare[ad] OR Meath[ad] OR Louth[ad] OR Monaghan[ad] OR Cavan[ad] OR Longford[ad] OR Westmeath[ad] OR Offaly[ad] OR Laois[ad] OR Kilkenny[ad] OR Waterford[ad] OR Cork[ad] OR Kerry[ad] OR Limerick[ad] OR Tipperary[ad] OR Clare[ad] OR Galway[ad] OR Mayo[ad] OR Roscommon[ad] OR Sligo[ad] OR Leitrim[ad] OR Donegal[ad] OR Drogheda[ad] OR Dundalk[ad] OR Swords[ad] OR Bray[ad] OR Navan[ad] OR Munster[ad] OR Leinster[ad] OR Connacht[ad])) OR (((Hungar\*[tw] OR Budapest[tw] OR Transdanubia[tw] OR Magyarorszag[tw] OR magyar[tw] OR Dunantuli[tw] OR Dunantul[tw] OR "Great Plain"[tw] OR "Alfold es eszak"[tw] OR "Eszak Alfold"[tw] OR "Del Alfold"[tw] OR Bacs[tw] OR Kiskun[tw] OR "Northen Alfold"[tw] OR "Sourthen Alfold"[tw] OR Baranya[tw] OR Bekes[tw] OR borsod[tw] OR Abauj[tw] OR Zemplen[tw] OR Fovaros[tw] OR Csongrad[tw] OR Fejer[tw] OR gyor[tw] OR moson[tw] OR sopron[tw] OR hajdu[tw] OR bihar[tw] OR Heves[tw] OR "jasz nagykun szolnok"[tw] OR komarom[tw] OR esztergom[tw] OR Nograd[tw] OR Pest[tw] OR Somogy[tw] OR szabolcs[tw] OR szatmar[tw] OR bereg[tw] OR Tolna[tw] OR Vas[tw] OR Veszprem[tw] OR Zala[tw] OR Zalaegerszeg[tw] OR Debrecen[tw] OR Miskolc[tw] OR Szeged[tw] OR Pecs[tw] OR Gyor[tw] OR Nyiregyhaza[tw] OR Kecskemet[tw] OR Szekesfehervar[tw] OR Szombathely[tw] OR Bekescsaba[tw] OR Eger[tw] OR Tatabanya[tw] OR Salgotarjan[tw] OR Kaposvar[tw] OR Szekszard[tw])) OR (Hungar\*[ad] OR Budapest[ad] OR Transdanubia[ad] OR Magyarorszag[ad] OR magyar[ad] OR Dunantuli[ad] OR Dunantul[ad] OR "Great Plain"[ad] OR "Alfold es eszak"[ad] OR "Eszak Alfold"[ad] OR "Del Alfold"[ad] OR Bacs[ad] OR Kiskun[ad] OR "Northen Alfold"[ad] OR "Sourthen Alfold"[ad] OR Baranya[ad] OR Bekes[ad] OR borsod[ad] OR Abauj[ad] OR Zemplen[ad] OR Fovaros[ad] OR Csongrad[ad] OR Fejer[ad] OR gyor[ad] OR moson[ad] OR sopron[ad] OR hajdu[ad] OR bihar[ad] OR Heves[ad] OR "jasz nagykun szolnok"[ad] OR komarom[ad] OR esztergom[ad] OR Nograd[ad] OR Pest[ad] OR Somogy[ad] OR szabolcs[ad] OR szatmar[ad] OR bereg[ad] OR Tolna[ad] OR Vas[ad] OR Veszprem[ad] OR Zala[ad] OR Zalaegerszeg[ad] OR Debrecen[ad] OR Miskolc[ad] OR Szeged[ad] OR Pecs[ad] OR Gyor[ad] OR Nyiregyhaza[ad] OR Kecskemet[ad] OR Szekesfehervar[ad] OR Szombathely[ad] OR Bekescsaba[ad] OR Eger[ad] OR Tatabanya[ad] OR Salgotarjan[ad] OR Kaposvar[ad] OR Szekszard[ad])) OR (((Greece[ad] OR "Hellenic republic"[ad] OR Greek\*[ad] OR Ellada[ad] OR "Elliniki Dimokratia"[ad] OR Hellas[ad] OR Hellenes[ad] OR Attica[ad] OR Attiki[ad] OR Makedonia[ad] OR Macedonia[ad] OR Thraki[ad] OR Thrace[ad] OR Crete[ad] OR Kriti[ad] OR Epirus[ad] OR Ipeiros[ad] OR "Ionia Nisia"[ad] OR "Ionion neson"[ad] OR "Ionian islands"[ad] OR "North aegean"[ad] OR "Aegean islands"[ad] OR "Nisoi Agaiou"[ad] OR "Notio Aigaio"[ad] OR Peloponnese[ad] OR Peloponnisos[ad] OR "Voreio Aigaio"[ad] OR "South aegean"[ad] OR Thessaly[ad] OR Thessalia[ad] OR Cycklades[ad] OR Kiklades[ad] OR Dodecanese[ad] OR Dodekanisa[ad] OR "Mount athos"[ad] OR "Omicronros Alphathos"[ad] OR Athens[ad] OR Athina[ad] OR Thessaloniki[ad] OR Thessalonica[ad] OR Patras[ad] OR Patra[ad] OR Heraklion[ad] OR Heraclion[ad] OR Iraklion[ad] OR Irakleion[ad] OR Iraklio[ad] OR Larissa[ad] OR Larisa[ad] OR Volos[ad] OR Rhodes[ad] OR Rodos[ad] OR Ioannina[ad] OR Janina[ad] OR Yannena[ad] OR Chania[ad] OR Chalcis[ad] OR Chalkida[ad] OR Alexandroupoli[ad])) OR (Greece[tw] OR "Hellenic republic"[tw] OR Greek\*[tw] OR Ellada[tw] OR "Elliniki Dimokratia"[tw] OR Hellas[tw] OR Hellenes[tw] OR Attica[tw] OR Attiki[tw] OR Makedonia[tw] OR Macedonia[tw] OR Thraki[tw] OR Thrace[tw] OR Crete[tw] OR Kriti[tw] OR Epirus[tw] OR Ipeiros[tw] OR "Ionia Nisia"[tw] OR "Ionion neson"[tw] OR "Ionian islands"[tw] OR "North aegean"[tw] OR "Aegean islands"[tw] OR "Nisoi Agaiou"[tw] OR "Notio Aigaio"[tw] OR Peloponnese[tw] OR Peloponnisos[tw] OR "Voreio Aigaio"[tw] OR "South aegean"[tw] OR Thessaly[tw] OR Thessalia[tw] OR Cycklades[tw] OR Kiklades[tw] OR Dodecanese[tw] OR Dodekanisa[tw] OR "Mount athos"[tw] OR "Omicronros Alphathos"[tw] OR Athens[tw] OR Athina[tw] OR Thessaloniki[tw] OR Thessalonica[tw] OR Patras[tw] OR Patra[tw] OR Heraklion[tw] OR Heraclion[tw] OR Iraklion[tw] OR Irakleion[tw] OR Iraklio[tw] OR Larissa[tw] OR Larisa[tw] OR Volos[tw] OR Rhodes[tw] OR Rodos[tw] OR Ioannina[tw] OR Janina[tw] OR Yannena[tw] OR Chania[tw] OR Chalcis[tw] OR Chalkida[tw] OR Alexandroupoli[tw])) OR (((German\*[ad] OR Deutschland[ad] OR Deutsch\*[ad] OR Bundesrepublik[ad] OR Westdeutschland[ad] OR Ostdeutschland[ad] OR Baden[ad] OR Wuerttemberg[ad] OR Wurttemberg[ad] OR Bayern[ad] OR Bavaria[ad] OR Berlin[ad] OR Brandenburg[ad] OR Bremen[ad] OR Hamburg[ad] OR Hessen[ad] OR Hesse[ad] OR Hessia[ad] OR Mecklenburg[ad] OR Vorpommern[ad] OR Pomerania[ad] OR Niedersachsen[ad] OR Neddersassen[ad] OR Saxony[ad] OR Niederbayern[ad] OR "North Rhine"[ad] OR Westphalia[ad] OR Westfalen[ad] OR "Rhineland Palatinate"[ad] OR "Rheinland Pfalz"[ad] OR Saarland[ad] OR Sachsen[ad] OR "Schleswig Holstein"[ad] OR Thuringia[ad] OR Thuringen[ad] OR Thueringen[ad] OR Freiburg[ad] OR Karlsruhe[ad] OR Calsruhe[ad] OR Stuttgart[ad] OR Tubingen[ad] OR Oberbayern[ad] OR "Upper palatinate"[ad] OR Oberpfalz[ad] OR Franken[ad] OR Franconia[ad] OR Oberfranken[ad] OR Mittelfranken[ad] OR Schwaben[ad] OR Unterfranken[ad] OR Swabia[ad] OR Darmstadt[ad] OR Giessen[ad] OR Giessen[ad] OR Kassel[ad] OR Arnsberg[ad] OR Cologne[ad] OR Koln[ad] OR Koeln[ad] OR Detmold[ad] OR Dusseldorf[ad] OR Duesseldorf[ad] OR Munster[ad] OR Muenster[ad] OR Munich[ad] OR Munchen[ad] OR Muenchen[ad] OR Frankfurt[ad] OR Dortmund[ad] OR Essen[ad] OR Nurnberg[ad] OR Nuernberg[ad] OR Nuremberg[ad] OR Hanover[ad] OR Hannover[ad] OR Leipzig[ad] OR Dresden[ad] OR Ruhrgebiet[ad] OR Revier[ad] OR Ruhrpott[ad] OR Pott[ad] OR Ruhr[ad])) OR (German\*[tw] OR Deutschland[tw] OR Deutsch\*[tw] OR Bundesrepublik[tw] OR Westdeutschland[tw] OR Ostdeutschland[tw] OR Baden[tw] OR Wuerttemberg[tw] OR Wurttemberg[tw] OR Bayern[tw] OR Bavaria[tw] OR Berlin[tw] OR Brandenburg[tw] OR Bremen[tw] OR Hamburg[tw] OR Hessen[tw] OR Hesse[tw] OR Hessia[tw] OR Mecklenburg[tw] OR Vorpommern[tw] OR Pomerania[tw] OR Niedersachsen[tw] OR Neddersassen[tw] OR Saxony[tw] OR Niederbayern[tw] OR "North Rhine"[tw] OR Westphalia[tw] OR Westfalen[tw] OR "Rhineland Palatinate"[tw] OR "Rheinland Pfalz"[tw] OR Saarland[tw] OR Sachsen[tw] OR "Schleswig Holstein"[tw] OR Thuringia[tw] OR Thuringen[tw] OR Thueringen[tw] OR Freiburg[tw] OR Karlsruhe[tw] OR Calsruhe[tw] OR Stuttgart[tw] OR Tubingen[tw] OR Oberbayern[tw] OR "Upper palatinate"[tw] OR Oberpfalz[tw] OR Franken[tw] OR Franconia[tw] OR Oberfranken[tw] OR Mittelfranken[tw] OR Schwaben[tw] OR Unterfranken[tw] OR Swabia[tw] OR Darmstadt[tw] OR Giessen[tw] OR Giessen[tw] OR Kassel[tw] OR Arnsberg[tw] OR Cologne[tw] OR Koln[tw] OR Koeln[tw] OR Detmold[tw] OR Dusseldorf[tw] OR Duesseldorf[tw] OR Munster[tw] OR Muenster[tw] OR Munich[tw] OR Munchen[tw] OR Muenchen[tw] OR Frankfurt[tw] OR Dortmund[tw] OR Essen[tw] OR Nurnberg[tw] OR Nuernberg[tw] OR Nuremberg[tw] OR Hanover[tw] OR Hannover[tw] OR Leipzig[tw] OR Dresden[tw] OR Ruhrgebiet[tw] OR Revier[tw] OR Ruhrpott[tw] OR Pott[tw] OR Ruhr[tw])) OR (((France[ad] OR French\*[ad] OR Francais[ad] OR Alsace[ad] OR Aquitaine[ad] OR Auvergne[ad] OR Brittany[ad] OR Bretagne[ad] OR Bourgogne[ad] OR Burgundy[ad] OR "Champagne Ardenne"[ad] OR "Franche Comte"[ad] OR "Ile de France"[ad] OR "Languedoc Roussillon"[ad] OR Limousin[ad] OR Lorraine[ad] OR Normandie[ad] OR Normandy[ad] OR "Midi Pyrenees"[ad] OR "Nord Pas de Calais"[ad] OR Loire[ad] OR Picardie[ad] OR Picardy[ad] OR "Poitou Charentes"[ad] OR Provence[ad] OR "Rhone Alpes"[ad] OR Corse[ad] OR Corsica[ad] OR Guiana[ad] OR Guyane[ad] OR Guadeloupe[ad] OR Martinique[ad] OR Reunion[ad] OR Mayotte[ad] OR Ain[ad] OR Aisne[ad] OR Allier[ad] OR "Alpes de Haute Provence"[ad] OR "Haute Alpes"[ad] OR "Alpes Maritimes"[ad] OR Ardeche[ad] OR Ardennes[ad] OR Ariege[ad] OR Aube[ad] OR Aude[ad] OR Aveyron[ad] OR "Bas Rhin"[ad] OR "Bouches du Rhone"[ad] OR Calvados[ad] OR Cantal[ad] OR Charente[ad] OR Cher[ad] OR Correze[ad] OR "Corse du Sud"[ad] OR "Cote d Or"[ad] OR "Cotes d Armor"[ad] OR "Cote d Azur"[ad] OR Creuse[ad] OR "Deux Sevres"[ad] OR Dordogne[ad] OR Doubs[ad] OR Drome[ad] OR Essonne[ad] OR Eure[ad] OR Finistere[ad] OR Gard[ad] OR Gers[ad] OR Gironde[ad] OR "Haute Corse"[ad] OR "Haute Garonne"[ad] OR "Haute Marne"[ad] OR "Hautes Alpes"[ad] OR "Haute Saone"[ad] OR "Haute Savoie"[ad] OR "Hautes Pyrenees"[ad] OR "Haute Vienne"[ad] OR "Haut Rhin"[ad] OR "Hauts de Seine"[ad] OR Herault[ad] OR "Ille et Vilaine"[ad] OR Indre[ad] OR Isere[ad] OR Jura[ad] OR Landes[ad] OR Loire[ad] OR Loiret[ad] OR (Lot[ad] AND (departement[ad] OR department[ad])) OR "Lot et Garonne"[ad] OR "Loir et Cher"[ad] OR Lozere[ad] OR Manche[ad] OR Marne[ad] OR Mayenne[ad] OR "Meurthe et Moselle"[ad] OR Meuse[ad] OR Morbihan[ad] OR Moselle[ad] OR (Nord[ad] AND (department[ad] OR departement[ad])) OR Nievre[ad] OR Oise[ad] OR Orne[ad] OR "Pas de calais"[ad] OR Paris[ad] OR "Puy de dome"[ad] OR "Pyrenees Atlantiques"[ad] OR "Pyrenees Orientales"[ad] OR Rhone[ad] OR Sarthe[ad] OR Savoie[ad] OR "Seine et Marne"[ad] OR "Seine Maritime"[ad] OR Somme[ad] OR Tarn[ad] OR "Territoire de Belfort"[ad] OR "Val de Marne"[ad] OR "Val d Oise"[ad] OR Var[ad] OR Vaucluse[ad] OR Vendee[ad] OR Vienne[ad] OR Vosges[ad] OR Yonne[ad] OR Yvelines[ad] OR Marseille[ad] OR Lyon[ad] OR Nice[ad] OR Nantes[ad] OR Strasbourg[ad] OR Montpellier[ad] OR Bordeaux[ad] OR Lille[ad] OR Toulouse[ad])) OR (France[tw] OR French\*[tw] OR Francais[tw] OR Alsace[tw] OR Aquitaine[tw] OR Auvergne[tw] OR Brittany[tw] OR Bretagne[tw] OR Bourgogne[tw] OR Burgundy[tw] OR "Champagne Ardenne"[tw] OR "Franche Comte"[tw] OR "Ile de France"[tw] OR "Languedoc Roussillon"[tw] OR Limousin[tw] OR Lorraine[tw] OR Normandie[tw] OR Normandy[tw] OR "Midi Pyrenees"[tw] OR "Nord Pas de Calais"[tw] OR Loire[tw] OR Picardie[tw] OR Picardy[tw] OR "Poitou Charentes"[tw] OR Provence[tw] OR "Rhone Alpes"[tw] OR Corse[tw] OR Corsica[tw] OR Guiana[tw] OR Guyane[tw] OR Guadeloupe[tw] OR Martinique[tw] OR Reunion[tw] OR Mayotte[tw] OR Ain[tw] OR Aisne[tw] OR Allier[tw] OR "Alpes de Haute Provence"[tw] OR "Haute Alpes"[tw] OR "Alpes Maritimes"[tw] OR Ardeche[tw] OR Ardennes[tw] OR Ariege[tw] OR Aube[tw] OR Aude[tw] OR Aveyron[tw] OR "Bas Rhin"[tw] OR "Bouches du Rhone"[tw] OR Calvados[tw] OR Cantal[tw] OR Charente[tw] OR Cher[tw] OR Correze[tw] OR "Corse du Sud"[tw] OR "Cote d Or"[tw] OR "Cotes d Armor"[tw] OR "Cote d Azur"[tw] OR Creuse[tw] OR "Deux Sevres"[tw] OR Dordogne[tw] OR Doubs[tw] OR Drome[tw] OR Essonne[tw] OR Eure[tw] OR Finistere[tw] OR Gard[tw] OR Gers[tw] OR Gironde[tw] OR "Haute Corse"[tw] OR "Haute Garonne"[tw] OR "Haute Marne"[tw] OR "Hautes Alpes"[tw] OR "Haute Saone"[tw] OR "Haute Savoie"[tw] OR "Hautes Pyrenees"[tw] OR "Haute Vienne"[tw] OR "Haut Rhin"[tw] OR "Hauts de Seine"[tw] OR Herault[tw] OR "Ille et Vilaine"[tw] OR Indre[tw] OR Isere[tw] OR Jura[tw] OR Landes[tw] OR Loire[tw] OR Loiret[tw] OR (Lot[tw] AND (departement[tw] OR department[tw])) OR "Lot et Garonne"[tw] OR "Loir et Cher"[tw] OR Lozere[tw] OR Manche[tw] OR Marne[tw] OR Mayenne[tw] OR "Meurthe et Moselle"[tw] OR Meuse[tw] OR Morbihan[tw] OR Moselle[tw] OR (Nord[tw] AND (department[tw] OR departement[tw])) OR Nievre[tw] OR Oise[tw] OR Orne[tw] OR "Pas de calais"[tw] OR Paris[tw] OR "Puy de dome"[tw] OR "Pyrenees Atlantiques"[tw] OR "Pyrenees Orientales"[tw] OR Rhone[tw] OR Sarthe[tw] OR Savoie[tw] OR "Seine et Marne"[tw] OR "Seine Maritime"[tw] OR Somme[tw] OR Tarn[tw] OR "Territoire de Belfort"[tw] OR "Val de Marne"[tw] OR "Val d Oise"[tw] OR Var[tw] OR Vaucluse[tw] OR Vendee[tw] OR Vienne[tw] OR Vosges[tw] OR Yonne[tw] OR Yvelines[tw] OR Marseille[tw] OR Lyon[tw] OR Nice[tw] OR Nantes[tw] OR Strasbourg[tw] OR Montpellier[tw] OR Bordeaux[tw] OR Lille[tw] OR Toulouse[tw])) OR (((Finland[tw] OR Finnish\*[tw] OR Suomi\*[tw] OR Lapland[tw] OR Lappi[tw] OR Lappland[tw] OR Ostrobothnia[tw] OR Pohjanmaa[tw] OR Osterbotten[tw] OR Kainuu[tw] OR Kajanaland\*[tw] OR Karelia[tw] OR Karjala[tw] OR Karelen[tw] OR Savonia[tw] OR Savo[tw] OR Savolax[tw] OR Pirkanmaa[tw] OR Birkaland[tw] OR Satakunta[tw] OR Satakunda[tw] OR Tavastia[tw] OR Tavastland[tw] OR "Paijat Hame"[tw] OR "Kanta Hame"[tw] OR Uusimaa[tw] OR Nyland[tw] OR Kymenlaakso[tw] OR Kymmenedalen[tw] OR Aland[tw] OR Ahvenanmaa[tw] OR Helsinki[tw] OR Helsingfors[tw] OR Espoo[tw] OR Esbo[tw] OR Tampere[tw] OR Tammerfors[tw] OR Vantaa[tw] OR Vanda[tw] OR Oulu[tw] OR Uleaborg[tw] OR Turku[tw] OR Abo[tw] OR Jyvaskyla[tw] OR Kuopio[tw] OR Lathi[tw] OR Lahtis[tw] OR Kouvola[tw])) OR (Finland[ad] OR Finnish\*[ad] OR Suomi\*[ad] OR Lapland[ad] OR Lappi[ad] OR Lappland[ad] OR Ostrobothnia[ad] OR Pohjanmaa[ad] OR Osterbotten[ad] OR Kainuu[ad] OR Kajanaland\*[ad] OR Karelia[ad] OR Karjala[ad] OR Karelen[ad] OR Savonia[ad] OR Savo[ad] OR Savolax[ad] OR Pirkanmaa[ad] OR Birkaland[ad] OR Satakunta[ad] OR Satakunda[ad] OR Tavastia[ad] OR Tavastland[ad] OR "Paijat Hame"[ad] OR "Kanta Hame"[ad] OR Uusimaa[ad] OR Nyland[ad] OR Kymenlaakso[ad] OR Kymmenedalen[ad] OR Aland[ad] OR Ahvenanmaa[ad] OR Helsinki[ad] OR Helsingfors[ad] OR Espoo[ad] OR Esbo[ad] OR Tampere[ad] OR Tammerfors[ad] OR Vantaa[ad] OR Vanda[ad] OR Oulu[ad] OR Uleaborg[ad] OR Turku[ad] OR Abo[ad] OR Jyvaskyla[ad] OR Kuopio[ad] OR Lathi[ad] OR Lahtis[ad] OR Kouvola[ad])) OR (((Estonia\*[tw] OR Eesti[tw] OR Esti[tw] OR Tallinn[tw] OR Harju[tw] OR Harjumaa[tw] OR Hiiu[tw] OR Hiiumaa[tw] OR "Ida Viru"[tw] OR "Ida Virumaa"[tw] OR Jarvamaa[tw] OR Jarva[tw] OR Jogevamaa[tw] OR Jogeva[tw] OR Laanemma[tw] OR Laane[tw] OR Parnu[tw] OR Parnumaa[tw] OR Polva[tw] OR Polvamaa[tw] OR Rapla[tw] OR Raplamaa[tw] OR Saare[tw] OR Saaremaa[tw] OR Tartu[tw] OR Tartumaa[tw] OR Valga[tw] OR Valgamaa[tw] OR Valgamaakond[tw] OR Viljandimaa[tw] OR Viljandi[tw] OR Voru[tw] OR Vorumaa[tw] OR Narva[tw] OR Parnu[tw] OR "Kohtla Jarve"[tw] OR Viljandi[tw] OR Rakvere[tw] OR Maardu[tw] OR Sillamae[tw] OR Kuressaare[tw])) OR (Estonia\*[ad] OR Eesti[ad] OR Esti[ad] OR Tallinn[ad] OR Harju[ad] OR Harjumaa[ad] OR Hiiu[ad] OR Hiiumaa[ad] OR "Ida Viru"[ad] OR "Ida Virumaa"[ad] OR Jarvamaa[ad] OR Jarva[ad] OR Jogevamaa[ad] OR Jogeva[ad] OR Laanemma[ad] OR Laane[ad] OR Parnu[ad] OR Parnumaa[ad] OR Polva[ad] OR Polvamaa[ad] OR Rapla[ad] OR Raplamaa[ad] OR Saare[ad] OR Saaremaa[ad] OR Tartu[ad] OR Tartumaa[ad] OR Valga[ad] OR Valgamaa[ad] OR Valgamaakond[ad] OR Viljandimaa[ad] OR Viljandi[ad] OR Voru[ad] OR Vorumaa[ad] OR Narva[ad] OR Parnu[ad] OR "Kohtla Jarve"[ad] OR Viljandi[ad] OR Rakvere[ad] OR Maardu[ad] OR Sillamae[ad] OR Kuressaare[ad]))) OR ((((Denmark[tw] OR Danish\*[tw] OR Danmark[tw] OR dansk\*[tw] OR Hovedstaden[tw] OR Midtjylland[tw] OR Nordjylland[tw] OR Sjaelland[tw] OR Sealand[tw] OR Syddanmark[tw] OR Jutland[tw] OR Jylland[tw] OR Nordjylland[tw] OR Sonderjyllands[tw] OR "Zealand region"[tw] OR "region Zealand"[tw] OR Hillerod[tw] OR Viborg[tw] OR Aalborg[tw] OR Alborg[tw] OR Soro[tw] OR Vejle[tw] OR Copenhagen[tw] OR Kobenhavn[tw] OR Arhus[tw] OR Aarhus[tw] OR Roskilde[tw] OR Odense[tw] OR Frederiksberg[tw] OR Esbjerg[tw] OR Gentofte[tw] OR Gladsaxe[tw] OR Randers[tw] OR Kolding[tw])) OR (Denmark[ad] OR Danish\*[ad] OR Danmark[ad] OR dansk\*[ad] OR Hovedstaden[ad] OR Midtjylland[ad] OR Nordjylland[ad] OR Sjaelland[ad] OR Sealand[ad] OR Syddanmark[ad] OR Jutland[ad] OR Jylland[ad] OR Nordjylland[ad] OR Sonderjyllands[ad] OR "Zealand region"[ad] OR "region Zealand"[ad] OR Hillerod[ad] OR Viborg[ad] OR Aalborg[ad] OR Alborg[ad] OR Soro[ad] OR Vejle[ad] OR Copenhagen[ad] OR Kobenhavn[ad] OR Arhus[ad] OR Aarhus[ad] OR Roskilde[ad] OR Odense[ad] OR Frederiksberg[ad] OR Esbjerg[ad] OR Gentofte[ad] OR Gladsaxe[ad] OR Randers[ad] OR Kolding[ad])) OR ((Czech\*[tw] OR Cesk\*[tw] OR Stredoces\*[tw] OR Jihoces\*[tw] OR Bohemia[tw] OR "Bohemian region"[tw] OR Kralovehradec\*[tw] OR "Hradec Kralove"[tw] OR Karlovars\*[tw] OR "Karlovy Vary"[tw] OR Liberec\*[tw] OR Moravskoslezs\*[tw] OR "Moravian Silesian"[tw] OR Olomouc\*[tw] OR Pardubic\*[tw] OR Plzen\*[tw] OR Pilsen[tw] OR Prage[tw] OR Praha[tw] OR Prag[tw] OR Jihomorav\*[tw] OR Moravia[tw] OR Moravian[tw] OR Morava[tw] OR Usteck\*[tw] OR Usti[tw] OR Vysocina[tw] OR Zlin[tw] OR Zlinsk\*[tw] OR "Ceske Budejovice"[tw] OR Budweis[tw] OR Brno[tw] OR Ostrava[tw])) OR (Czech\*[ad] OR Cesk\*[ad] OR Stredoces\*[ad] OR Jihoce\*[ad] OR Bohemia[ad] OR "Bohemian region"[ad] OR Kralovehradec\*[ad] OR "Hradec Kralove"[ad] OR Karlovars\*[ad] OR "Karlovy Vary"[ad] OR Liberec\*[ad] OR Moravskoslezsk\*[ad] OR "Moravian Silesian"[ad] OR Olomouc\*[ad] OR Pardubic\*[ad] OR Pardubice[ad] OR Plzen\*[ad] OR Pilsen[ad] OR Prage[ad] OR Praha[ad] OR Prag[ad] OR Jihomorav\*[ad] OR Moravia[ad] OR Moravian[ad] OR Morava[ad] OR Usteck\*[ad] OR Usti[ad] OR Vysocina[ad] OR Zlin[ad] OR Zlinsk\*[ad] OR "Ceske Budejovice"[ad] OR Budweis[ad] OR Brno[ad] OR Ostrava[ad]) OR (((Cyprus[tw] OR Cypriot\*[tw] OR Kypros[tw] OR Kibris[tw] OR kypriaki\*[tw] OR Nicosia[tw] OR Lefkosa[tw] OR Lefkosia[tw] OR Famagusta[tw] OR Magusa[tw] OR Ammochostos[tw] OR Gazimagusa[tw] OR Kyrenia[tw] OR Girne[tw] OR Keryneia[tw] OR Larnaca[tw] OR Larnaka[tw] OR Limassol[tw] OR Lemesos[tw] OR Limasol[tw] OR Leymosun[tw] OR Paphos[tw] OR Pafos[tw] OR Baf[tw] OR Gazibaf[tw] OR Protaras[tw] OR Pergamos[tw] OR Beyarmudu[tw] OR Morfou[tw] OR Guzelyurt[tw] OR Omorfo[tw] OR Morphou[tw] OR Aradippou[tw])) OR (Cyprus[ad] OR Cypriot\*[ad] OR Kypros[ad] OR Kibris[ad] OR kypriaki\*[ad] OR Nicosia[ad] OR Lefkosa[ad] OR Lefkosia[ad] OR Famagusta[ad] OR Magusa[ad] OR Ammochostos[ad] OR Gazimagusa[ad] OR Kyrenia[ad] OR Girne[ad] OR Keryneia[ad] OR Larnaca[ad] OR Larnaka[ad] OR Limassol[ad] OR Lemesos[ad] OR Limasol[ad] OR Leymosun[ad] OR Paphos[ad] OR Pafos[ad] OR Baf[ad] OR Gazibaf[ad] OR Protaras[ad] OR Pergamos[ad] OR Beyarmudu[ad] OR Morfou[ad] OR Guzelyurt[ad] OR Omorfo[ad] OR Morphou[ad] OR Aradippou[ad])) OR (((Croatia\*[tw] OR Hrvatsk\*[tw] OR hrvat[tw] OR Bjelovar[tw] OR "Bjelovarsko bilogorska"[tw] OR "Brod Posavina"[tw] OR "Brodsko posavska"[tw] OR "Dubrovnik Neretva"[tw] OR "dubrovacko neretvanska"[tw] OR Istria[tw] OR Istarska[tw] OR Karlovacka[tw] OR Karlovac[tw] OR "Koprivnicko krizevacka"[tw] OR Koprivnica[tw] OR Krizevci[tw] OR "Krapina Zagorje"[tw] OR "Krapinsko zagorska"[tw] OR "Lika Senj"[tw] OR "Licko senjska"[tw] OR Medimurska[tw] OR Medimurje[tw] OR Osijek[tw] OR Osjecko[tw] OR Baranja[tw] OR "Osjecko baranjska"[tw] OR "Pozega Slavonia"[tw] OR "Pozesko slavonska"[tw] OR "Primorje Gorski Kotar"[tw] OR "Primorsko goranska"[tw] OR "Sibensko kninska"[tw] OR "Sibensko kninske"[tw] OR Sibenik[tw] OR Knin[tw] OR Sisak[tw] OR "Sisacko moslavacka"[tw] OR Moslavina[tw] OR "Splitsko dalmatinska"[tw] OR Split[tw] OR Dalmatia[tw] OR Varazdin[tw] OR Varazdinska[tw] OR "Viroviticko-podravska"[tw] OR Virovitica[tw] OR Podravina[tw] OR "Vukovarsko srijemska"[tw] OR Vukovar[tw] OR Srijem[tw] OR Zadar[tw] OR Zadarska[tw] OR Zagreb[tw] OR Zagrebacka[tw] OR Rijeka[tw] OR "Velika gorica"[tw] OR "Slavonski brod"[tw] OR Pula[tw])) OR (Croatia\*[ad] OR Hrvatsk\*[ad] OR hrvat[ad] OR Bjelovar[ad] OR "Bjelovarsko bilogorska"[ad] OR "Brod Posavina"[ad] OR "Brodsko posavska"[ad] OR "Dubrovnik Neretva"[ad] OR "dubrovacko neretvanska"[ad] OR Istria[ad] OR Istarska[ad] OR Karlovacka[ad] OR Karlovac[ad] OR "Koprivnicko krizevacka"[ad] OR Koprivnica[ad] OR Krizevci[ad] OR "Krapina Zagorje"[ad] OR "Krapinsko zagorska"[ad] OR "Lika Senj"[ad] OR "Licko senjska"[ad] OR Medimurska[ad] OR Medimurje[ad] OR Osijek[ad] OR Osjecko[ad] OR Baranja[ad] OR "Osjecko baranjska"[ad] OR "Pozega Slavonia"[ad] OR "Pozesko slavonska"[ad] OR "Primorje Gorski Kotar"[ad] OR "Primorsko goranska"[ad] OR "Sibensko kninska"[ad] OR "Sibensko kninske"[ad] OR Sibenik[ad] OR Knin[ad] OR Sisak[ad] OR "Sisacko moslavacka"[ad] OR Moslavina[ad] OR "Splitsko dalmatinska"[ad] OR Split[ad] OR Dalmatia[ad] OR Varazdin[ad] OR Varazdinska[ad] OR "Viroviticko-podravska"[ad] OR Virovitica[ad] OR Podravina[ad] OR "Vukovarsko srijemska"[ad] OR Vukovar[ad] OR Srijem[ad] OR Zadar[ad] OR Zadarska[ad] OR Zagreb[ad] OR Zagrebacka[ad] OR Rijeka[ad] OR "Velika gorica"[ad] OR "Slavonski brod"[ad] OR Pula[ad])) OR (((Bulgaria\*[tw] OR Sofia[tw] OR Gabrovo[tw] OR Blagoevgrad[tw] OR "Pirin Macedonia"[tw] OR Burgas[tw] OR Dobrich[tw] OR Haskovo[tw] OR Kardzhali[tw] OR Kurdzhali[tw] OR Kyustendil[tw] OR Lovech[tw] OR Montana[tw] OR Pazardzhik[tw] OR Pernik[tw] OR Pleven[tw] OR Plovdiv[tw] OR Razgrad[tw] OR Rousse[tw] OR Ruse[tw] OR Shumen[tw] OR Sliven[tw] OR Silistra[tw] OR Smolyan[tw] OR "Stara Zagora"[tw] OR Targovishte[tw] OR Varna[tw] OR Tarnovo[tw] OR Vidin[tw] OR Vratsa[tw] OR Vratza[tw] OR Yambol[tw])) OR (Bulgaria\*[ad] OR Sofia[ad] OR Gabrovo[ad] OR Blagoevgrad[ad] OR "Pirin Macedonia"[ad] OR Burgas[ad] OR Dobrich[ad] OR Haskovo[ad] OR Kardzhali[ad] OR Kurdzhali[ad] OR Kyustendil[ad] OR Lovech[ad] OR Montana[ad] OR Pazardzhik[ad] OR Pernik[ad] OR Pleven[ad] OR Plovdiv[ad] OR Razgrad[ad] OR Rousse[ad] OR Ruse[ad] OR Shumen[ad] OR Sliven[ad] OR Silistra[ad] OR Smolyan[ad] OR "Stara Zagora"[ad] OR Targovishte[ad] OR Varna[ad] OR Tarnovo[ad] OR Vidin[ad] OR Vratsa[ad] OR Vratza[ad] OR Yambol[ad])) OR (((Belgi\*[tw] OR Belge[tw] OR Belgisch[tw] OR Brussel\*[tw] OR Bruxelles[tw] OR Bruxelloise[tw] OR Flemish[tw] OR Flamand[tw] OR Flemisch[tw] OR Flanders[tw] OR Flandern[tw] OR Flandre[tw] OR Vlaanderen[tw] OR Vlaams[tw] OR Flamande[tw] OR Waals[tw] OR Walloon\*[tw] OR Wallon\*[tw] OR Antwerp\*[tw] OR Anvers[tw] OR Ostflandern[tw] OR "Vlaams Brabant"[tw] OR Limbourg[tw] OR Limburg[tw] OR Hainault[tw] OR Hainaut[tw] OR Henegouwen[tw] OR Hennegau[tw] OR Liege[tw] OR Luik[tw] OR Luttich[tw] OR Namur[tw] OR Namen[tw] OR Westflandern[tw] OR "Waals Brabant"[tw] OR Ghent[tw] OR Gent[tw] OR Gand[tw] OR Charleroi[tw] OR Bruges[tw] OR Brugge[tw] OR Schaerbeek[tw] OR Schaarbeek[tw] OR Anderlecht[tw] OR Leuven[tw] OR Louvain[tw] OR Hasselt[tw] OR Mons[tw] OR Wavre[tw] OR Waver[tw])) OR (Belgi\*[ad] OR Belge[ad] OR Belgisch[ad] OR Brussel\*[ad] OR Bruxelles[ad] OR Bruxelloise[ad] OR Flemish[ad] OR Flamand[ad] OR Flemisch[ad] OR Flanders[ad] OR Flandern[ad] OR Flandre[ad] OR Vlaanderen[ad] OR Vlaams[ad] OR Flamande[ad] OR Waals[ad] OR Walloon\*[ad] OR Wallon\*[ad] OR Antwerp\*[ad] OR Anvers[ad] OR Ostflandern[ad] OR "Vlaams Brabant"[ad] OR Limbourg[ad] OR Limburg[ad] OR Hainault[ad] OR Hainaut[ad] OR Henegouwen[ad] OR Hennegau[ad] OR Liege[ad] OR Luik[ad] OR Luttich[ad] OR Namur[ad] OR Namen[ad] OR Westflandern[ad] OR "Waals Brabant"[ad] OR Ghent[ad] OR Gent[ad] OR Gand[ad] OR Charleroi[ad] OR Bruges[ad] OR Brugge[ad] OR Schaerbeek[ad] OR Schaarbeek[ad] OR Anderlecht[ad] OR Leuven[ad] OR Louvain[ad] OR Hasselt[ad] OR Mons[ad] OR Wavre[ad] OR Waver[ad])) OR (((Austria\*[tw] OR Vienna[tw] OR Wien[tw] OR Osterreich\*[tw] OR Sudosterreich[tw] OR Westosterreich[tw] OR Niederosterreich[tw] OR Burgenland[tw] OR Carinthia[tw] OR Karinthia[tw] OR Karnten[tw] OR Oberosterreich[tw] OR Styria[tw] OR Steiermark[tw] OR Salzburg[tw] OR Saizburg[tw] OR Tyrol[tw] OR Tirol[tw] OR Becs[tw] OR Vorarlberg[tw] OR Bregenz[tw] OR Linz[tw] OR Eisenstadt[tw] OR Innsbruck[tw] OR Graz[tw] OR Klagenfurt[tw] OR Polten[tw] OR Villach[tw] OR Wels[tw] OR Dornbirn[tw] OR Feldkirch[tw] OR Steyr[tw])) OR (Austria\*[ad] OR Vienna[ad] OR Wien[ad] OR Osterreich\*[ad] OR Sudosterreich[ad] OR Westosterreich[ad] OR Niederosterreich[ad] OR Burgenland[ad] OR Carinthia[ad] OR Karnten[ad] OR Oberosterreich[ad] OR Styria[ad] OR Steiermark[ad] OR Salzburg[ad] OR Saizburg[ad] OR Tyrol[ad] OR Tirol[ad] OR Becs[ad] OR Vorarlberg[ad] OR Bregenz[ad] OR Linz[ad] OR Eisenstadt[ad] OR Innsbruck[ad] OR Graz[ad] OR Klagenfurt[ad] OR Polten[ad] OR Villach[ad] OR Wels[ad] OR Dornbirn[ad] OR Feldkirch[ad] OR Steyr[ad]))) OR (((((((((Iceland[tw] OR Icelandic\*[tw] OR islenska\*[tw] OR Icelander\*[tw] OR islendinga\*[tw] OR Reykjavik[tw] OR Reykjavikurborg[tw] OR Hofudborgarsvaedid[tw] OR Sudurnes[tw] OR Vesturland[tw] OR Vestfirdir[tw] OR Westfjords[tw] OR Nordurland[tw] OR Austurland[tw] OR Sudurland[tw] OR Kopavogur[tw] OR Hafnarfjordur[tw])) OR (Iceland[ad] OR Icelandic\*[ad] OR islenska\*[ad] OR Icelander\*[ad] OR islendinga\*[ad] OR Reykjavik[ad] OR Reykjavikurborg[ad] OR Hofudborgarsvaedid[ad] OR Sudurnes[ad] OR Vesturland[ad] OR Vestfirdir[ad] OR Westfjords[ad] OR Nordurland[ad] OR Austurland[ad] OR Sudurland[ad] OR Kopavogur[ad] OR Hafnarfjordur[ad])) OR (Switzerland[tw] OR Schweiz[tw] OR Schweizerische[tw] OR Swiss[tw] OR Suisse[tw] OR Aargau[tw] OR Argovia[tw] OR Ausserrhoden[tw] OR "Outer Rhodes"[tw] OR Innerrhoden[tw] OR "Inner Rhodes"[tw] OR Basel[tw] OR Bern[tw] OR Berne[tw] OR Fribourg[tw] OR Freiburg[tw] OR Geneva[tw] OR Geneve[tw] OR Glarus[tw] OR Graubunden[tw] OR Grisons[tw] OR Grigioni[tw] OR jura[tw] OR Lucerne[tw] OR Luzern[tw] OR Neuchatel[tw] OR Zurich[tw] OR (Uri[tw] AND (canton[tw] OR Kanton[tw])) OR Schwyz[tw] OR Obwalden[tw] OR Nidwalden[tw] OR Zug[tw] OR Solothurn[tw] OR Schaffhausen[tw] OR Thurgau[tw] OR Thurgovia[tw] OR Ticino[tw] OR Tessin[tw] OR Vaud[tw] OR Valais[tw] OR Wallis[tw] OR "St Gallen"[tw] OR Lausanne[tw] OR Winterthur[tw] OR Winterthour[tw] OR Lugano[tw] OR Biel[tw] OR Bienne[tw])) OR (Switzerland[ad] OR Schweiz[ad] OR Schweizerische[ad] OR Swiss[ad] OR Suisse[ad] OR Aargau[ad] OR Argovia[ad] OR Ausserrhoden[ad] OR "Outer Rhodes"[ad] OR Innerrhoden[ad] OR "Inner Rhodes"[ad] OR Basel[ad] OR Bern[ad] OR Berne[ad] OR Fribourg[ad] OR Freiburg[ad] OR Geneva[ad] OR Geneve[ad] OR Glarus[ad] OR Graubunden[ad] OR Grisons[ad] OR Grigioni[ad] OR jura[ad] OR Lucerne[ad] OR Luzern[ad] OR Neuchatel[ad] OR Zurich[ad] OR (Uri[ad] AND (canton[ad] OR Kanton[ad])) OR Schwyz[ad] OR Obwalden[ad] OR Nidwalden[ad] OR Zug[ad] OR Solothurn[ad] OR Schaffhausen[ad] OR Thurgau[ad] OR Thurgovia[ad] OR Ticino[ad] OR Tessin[ad] OR Vaud[ad] OR Valais[ad] OR Wallis[ad] OR "St Gallen"[ad] OR Lausanne[ad] OR Winterthur[ad] OR Winterthour[ad] OR Lugano[ad] OR Biel[ad] OR Bienne[ad])) OR (Norway[tw] OR Norwegian\*[tw] OR Norge[tw] OR Noreg[tw] OR Norgga[tw] OR Ostfold[tw] OR Akershus[tw] OR Oslo[tw] OR Hedmark[tw] OR Oppland[tw] OR Buskerud[tw] OR Vestfold[tw] OR Telemark[tw] OR "Aust Agder"[tw] OR "Vest Agder"[tw] OR Rogaland[tw] OR Hordaland[tw] OR "Sogn og fjordane"[tw] OR "Sogn and fjordane"[tw] OR "sogn fjordane"[tw] OR "More og Romsdal"[tw] OR "More and Romsdal"[tw] OR "More Romsdal"[tw] OR Trondelag[tw] OR Nordland[tw] OR Troms[tw] OR Finnmark[tw] OR Bergen[tw] OR Stavanger[tw] OR Sandnes[tw] OR Trondheim[tw] OR Kristiansand[tw] OR Drammen[tw] OR Fredrikstad[tw] OR Sarpsborg[tw] OR Porsgrunn[tw] OR Skien[tw] OR Tonsberg[tw] OR Alesund[tw])) OR (Norway[ad] OR Norwegian\*[ad] OR Norge[ad] OR Noreg[ad] OR Norgga[ad] OR Ostfold[ad] OR Akershus[ad] OR Oslo[ad] OR Hedmark[ad] OR Oppland[ad] OR Buskerud[ad] OR Vestfold[ad] OR Telemark[ad] OR "Aust Agder"[ad] OR "Vest Agder"[ad] OR Rogaland[ad] OR Hordaland[ad] OR "Sogn og fjordane"[ad] OR "Sogn and fjordane"[ad] OR "sogn fjordane"[ad] OR "More og Romsdal"[ad] OR "More and Romsdal"[ad] OR "More Romsdal"[ad] OR Trondelag[ad] OR Nordland[ad] OR Troms[ad] OR Finnmark[ad] OR Bergen[ad] OR Stavanger[ad] OR Sandnes[ad] OR Trondheim[ad] OR Kristiansand[ad] OR Drammen[ad] OR Fredrikstad[ad] OR Sarpsborg[ad] OR Porsgrunn[ad] OR Skien[ad] OR Tonsberg[ad] OR Alesund[ad])) OR (Liechtenstein[tw] OR Vaduz[tw] OR Triesenberg[tw] OR Triesen[tw] OR Schellenberg[tw] OR Schaan[tw] OR Ruggell[tw] OR Planken[tw] OR Mauren[tw] OR Gamprin[tw] OR Eschen[tw] OR Balzers[tw])) OR (Liechtenstein[ad] OR Vaduz[ad] OR Triesenberg[ad] OR Triesen[ad] OR Schellenberg[ad] OR Schaan[ad] OR Ruggell[ad] OR Planken[ad] OR Mauren[ad] OR Gamprin[ad] OR Eschen[ad] OR Balzers[ad])) OR ("European Union"[Mesh] OR "Europe"[MeSH] OR Europa[tw] OR Europe\*[tw] OR Scandinavia\*[tw] OR Scandinavia\*[ad] OR Mediterranean[tw] OR "EEA countries"[tw] OR "EU country"[tw] OR "EU countries"[tw] OR Mediterranean[ad] OR Europe\*[ad] OR Baltic[tw] OR Baltic[ad] OR Yugoslavia[tw] OR Jugoslavija[tw] OR Jugoslavija[AD] OR Yugoslavia[ad] OR "EU country"[tw] OR "Eu countries"[tw] OR global\*[tw] OR world[tw] OR worldwide[tw])** |  |

## Embase search (Embase.com)

Date of the search: 16/03/2015

Language limit: no limits

Date limits: from 2005 to 2015

No of results: 7801

| No. | Query | Results |
| --- | --- | --- |
| #9 | **#1** AND **#7** AND [2005-2015]/py | **7801** |
| #8 | **#1** AND **#7** | **12837** |
| #7 | **#4** OR **#5** OR **#6** | **24163** |
| #6 | (**epidemiolog\*** NEAR/5 (**'hepatitis b'** OR **'hepatitis c'** OR **hepaciviru\*** OR **'hbv'** OR **'hcv'** OR **hbsag** OR **'hbs ag'** OR **'australia antigen'** OR **'australia antigens'**)):ti | **1146** |
| #5 | (**prevalence** NEAR/5 (**'hepatitis b'** OR **'hepatitis c'** OR **hepaciviru\*** OR **'hbv'** OR **'hcv'** OR **hbsag** OR **'hbs ag'** OR **'australia antigen'** OR **'australia antigens'**)):ab,ti | **10785** |
| #4 | **#2** AND **#3** | **20368** |
| #3 | **'hepatitis b'**/exp OR **'hepatitis c'**/exp OR **'hepatitis b virus'**/exp OR **'hepatitis c virus'**/exp OR **'hepatitis b'**:ab,ti OR **'hepatitis c'**:ab,ti OR **hepaciviru\***:ab,ti OR **'hbv'**:ab,ti OR **'hcv'**:ab,ti OR **hbsag**:ab,ti OR **'hbs ag'**:ab,ti OR **'hepatitis b antibody'**/exp OR **'hepatitis b surface antigen'**/exp OR **'australia antigen'**:ab,ti OR **'australia antigens'**:ab,ti OR **'hepatitis c antigen'**/exp OR **'hepatitis c antibody'**/exp | **201216** |
| #2 | **'prevalence'**/exp OR **'seroepidemiology'**/exp OR **'disease surveillance'**/exp OR **'sero epidemiology'**:ab,ti OR **'sero epidemiological'**:ab,ti OR **'sero epidemiologic'**:ab,ti OR **seroepidemiolog\***:ab,ti OR **surveillance**:ti OR **serolog\***:ti OR **serosurvey\***:ab,ti OR **seroprevalence\***:ab,ti OR **'population surveillance'**:ab,ti | **513612** |
| #1 |  | **11070462** |
|  | |  |  |  | | --- | --- | --- | | #1.8 | **#1.1** OR **#1.3** OR **#1.4** OR **#1.5** OR **#1.6** OR **#1.7** | **11070462** | | #1.7 | **'united kingdom'**:ad OR **britain**:ad OR **british**:ad OR (**england**:ad NOT **'new england'**:ad) OR **english**:ad OR **scotland**:ad OR **scottish**:ad OR **wales**:ad OR **welsh**:ad OR **'northen ireland'**:ad OR **london**:ad OR **'east midlands'**:ad OR **'west midlands'**:ad OR **yorkshire**:ad OR **'east anglia'**:ad OR **bedfordshire**:ad OR **hertfordshire**:ad OR **essex**:ad OR **peterborough**:ad OR **cambridgeshire**:ad OR **norfolk**:ad OR **suffolk**:ad OR **luton**:ad OR **bedford**:ad OR **'southend on sea'**:ad OR **thurrock**:ad OR **derbyshire**:ad OR **nottinghamshire**:ad OR **leicestershire**:ad OR **rutland**:ad OR **lincolnshire**:ad OR **derby**:ad OR **leicester**:ad OR **northamptonshire**:ad OR **nottingham**:ad OR **'tyne and wear'**:ad OR **'tees valley'**:ad OR **'durham'**:ad OR **darlington**:ad OR **hartlepool**:ad OR **'stockton on tees'**:ad OR **northumberland**:ad OR **teesside**:ad OR **sunderland**:ad OR **cumbria**:ad OR **cheshire**:ad OR **manchester**:ad OR **lancashire**:ad OR **merseyside**:ad OR (**blackburn**:ad AND **darwen**:ad) OR **blackpool**:ad OR **chester**:ad OR **liverpool**:ad OR **sefton**:ad OR **warrington**:ad OR **wirral**:ad OR **berkshire**:ad OR **buckinghamshire**:ad OR **oxfordshire**:ad OR **hampshire**:ad OR **'isle of wight'**:ad OR **kent**:ad OR **surrey**:ad OR **sussex**:ad OR (**brighton**:ad AND **hove**:ad) OR **'milton keynes'**:ad OR **portsmouth**:ad OR **southampton**:ad OR **devon**:ad OR **dorset**:ad OR **somerset**:ad OR **gloucestershire**:ad OR **wiltshire**:ad OR **bath**:ad OR **bournemouth**:ad OR **poole**:ad OR **bristol**:ad OR **plymouth**:ad OR **swindon**:ad OR **torbay**:ad OR **herefordshire**:ad OR **staffordshire**:ad OR **birmingham**:ad OR **coventry**:ad OR **dudley**:ad OR **sandwell**:ad OR **shropshire**:ad OR **solihull**:ad OR **'stoke on trent'**:ad OR **telford**:ad OR **wrekin**:ad OR **walsall**:ad OR **warwickshire**:ad OR **wolverhampton**:ad OR **worcestershire**:ad OR **barnsley**:ad OR **doncaster**:ad OR **rotherham**:ad OR **bradford**:ad OR **calderdale**:ad OR **kirklees**:ad OR **kingston**:ad OR **leeds**:ad OR **sheffield**:ad OR **wakefield**:ad OR (**york**:ad NOT **'new york'**:ad) OR **antrim**:ad OR **ards**:ad OR **armagh**:ad OR **ballymena**:ad OR **ballymoney**:ad OR **banbridge**:ad OR **carrickfergus**:ad OR **castlereagh**:ad OR **coleraine**:ad OR **cookstown**:ad OR **craigavon**:ad OR (**down**:ad AND (**district**:ad OR **council**:ad)) OR **dungannon**:ad OR **fermanagh**:ad OR **larne**:ad OR **limavady**:ad OR **lisburn**:ad OR **magherafelt**:ad OR **moyle**:ad OR (**newry**:ad AND **mourne**:ad) OR **newtownabbey**:ad OR **omagh**:ad OR **strabane**:ad OR **londonderry**:ad OR **tyrone**:ad OR **belfast**:ad OR **aberdeen**:ad OR **aberdeenshire**:ad OR **angus**:ad OR **dundee**:ad OR (**argyll**:ad AND **bute**:ad) OR **clackmannanshire**:ad OR **fife**:ad OR **ayrshire**:ad OR **dunbartonshire**:ad OR **lothian**:ad OR **renfrewshire**:ad OR **edinburgh**:ad OR **falkirk**:ad OR **glasgow**:ad OR **highland\***:ad OR **inverclyde**:ad OR **midlothian**:ad OR **moray**:ad OR **lanarkshire**:ad OR (**perth**:ad AND **kinross**:ad) OR **stirling**:ad OR **'orkney islands'**:ad OR **'eileanan siar'**:ad OR **'shetland islands'**:ad OR **bridgend**:ad OR **'neath port talbot'**:ad OR **cardiff**:ad OR (**vale**:ad AND **glamorgan**:ad) OR **'central valleys'**:ad OR **conwy**:ad OR **denbighshire**:ad OR **flintshire**:ad OR **wrexham**:ad OR **'gwent valleys'**:ad OR **gwynedd**:ad OR (**isle**:ad AND **anglesey**:ad) OR **'monmouthshire'**:ad OR **'newport'**:ad OR **powys**:ad OR **swansea**:ad OR **ceredigion**:ad OR **carmarthenshire**:ad OR **pembrokeshire**:ad OR **'merthyr tydfil'**:ad OR **'rhondda cynon taff'**:ad OR **'blaenau gwent'**:ad OR **caerphilly**:ad OR **torfaen**:ad OR **caithness**:ad OR **'sutherland and ross'**:ad OR **cromarty**:ad OR **teeside**:ad OR **tyneside**:ad OR **wearside**:ad OR **'west mercia'**:ad OR **avon**:ad OR **ulster**:ad OR **derry**:ad OR **medway**:ad OR **'east riding'**:ad OR **'west riding'**:ad OR **'lake district'**:ad OR **'peak district'**:ad OR **cumberland**:ad OR **dartmoor**:ad OR **exmoor**:ad OR **'united kingdom'**:ab,ti OR **britain**:ab,ti OR **british**:ab,ti OR (**england**:ab,ti NOT **'new england'**:ab,ti) OR **english**:ab,ti OR **scotland**:ab,ti OR **scottish**:ab,ti OR **wales**:ab,ti OR **welsh**:ab,ti OR **'northen ireland'**:ab,ti OR **london**:ab,ti OR **'east midlands'**:ab,ti OR **'west midlands'**:ab,ti OR **yorkshire**:ab,ti OR **'east anglia'**:ab,ti OR **bedfordshire**:ab,ti OR **hertfordshire**:ab,ti OR **essex**:ab,ti OR **peterborough**:ab,ti OR **cambridgeshire**:ab,ti OR **norfolk**:ab,ti OR **suffolk**:ab,ti OR **luton**:ab,ti OR **bedford**:ab,ti OR **'southend on sea'**:ab,ti OR **thurrock**:ab,ti OR **derbyshire**:ab,ti OR **nottinghamshire**:ab,ti OR **leicestershire**:ab,ti OR **rutland**:ab,ti OR **lincolnshire**:ab,ti OR **derby**:ab,ti OR **leicester**:ab,ti OR **northamptonshire**:ab,ti OR **nottingham**:ab,ti OR **'tyne and wear'**:ab,ti OR **'tees valley'**:ab,ti OR **'durham'**:ab,ti OR **darlington**:ab,ti OR **hartlepool**:ab,ti OR **'stockton on tees'**:ab,ti OR **northumberland**:ab,ti OR **teesside**:ab,ti OR **sunderland**:ab,ti OR **cumbria**:ab,ti OR **cheshire**:ab,ti OR **manchester**:ab,ti OR **lancashire**:ab,ti OR **merseyside**:ab,ti OR (**blackburn**:ab,ti AND **darwen**:ab,ti) OR **blackpool**:ab,ti OR **chester**:ab,ti OR **liverpool**:ab,ti OR **sefton**:ab,ti OR **warrington**:ab,ti OR **wirral**:ab,ti OR **berkshire**:ab,ti OR **buckinghamshire**:ab,ti OR **oxfordshire**:ab,ti OR **hampshire**:ab,ti OR **'isle of wight'**:ab,ti OR **kent**:ab,ti OR **surrey**:ab,ti OR **sussex**:ab,ti OR (**brighton**:ab,ti AND **hove**:ab,ti) OR **'milton keynes'**:ab,ti OR **portsmouth**:ab,ti OR **southampton**:ab,ti OR **devon**:ab,ti OR **dorset**:ab,ti OR **somerset**:ab,ti OR **gloucestershire**:ab,ti OR **wiltshire**:ab,ti OR **bath**:ab,ti OR **bournemouth**:ab,ti OR **poole**:ab,ti OR **bristol**:ab,ti OR **plymouth**:ab,ti OR **swindon**:ab,ti OR **torbay**:ab,ti OR **herefordshire**:ab,ti OR **staffordshire**:ab,ti OR **birmingham**:ab,ti OR **coventry**:ab,ti OR **dudley**:ab,ti OR **sandwell**:ab,ti OR **shropshire**:ab,ti OR **solihull**:ab,ti OR **'stoke on trent'**:ab,ti OR **telford**:ab,ti OR **wrekin**:ab,ti OR **walsall**:ab,ti OR **warwickshire**:ab,ti OR **wolverhampton**:ab,ti OR **worcestershire**:ab,ti OR **barnsley**:ab,ti OR **doncaster**:ab,ti OR **rotherham**:ab,ti OR **bradford**:ab,ti OR **calderdale**:ab,ti OR **kirklees**:ab,ti OR **kingston**:ab,ti OR **leeds**:ab,ti OR **sheffield**:ab,ti OR **wakefield**:ab,ti OR (**york**:ab,ti NOT **'new york'**:ab,ti) OR **antrim**:ab,ti OR **ards**:ab,ti OR **armagh**:ab,ti OR **ballymena**:ab,ti OR **ballymoney**:ab,ti OR **banbridge**:ab,ti OR **carrickfergus**:ab,ti OR **castlereagh**:ab,ti OR **coleraine**:ab,ti OR **cookstown**:ab,ti OR **craigavon**:ab,ti OR (**down**:ab,ti AND (**district**:ab,ti OR **council**:ab,ti)) OR **dungannon**:ab,ti OR **fermanagh**:ab,ti OR **larne**:ab,ti OR **limavady**:ab,ti OR **lisburn**:ab,ti OR **magherafelt**:ab,ti OR **moyle**:ab,ti OR (**newry**:ab,ti AND **mourne**:ab,ti) OR **newtownabbey**:ab,ti OR **omagh**:ab,ti OR **strabane**:ab,ti OR **londonderry**:ab,ti OR **tyrone**:ab,ti OR **belfast**:ab,ti OR **aberdeen**:ab,ti OR **aberdeenshire**:ab,ti OR **angus**:ab,ti OR **dundee**:ab,ti OR (**argyll**:ab,ti AND **bute**:ab,ti) OR **clackmannanshire**:ab,ti OR **fife**:ab,ti OR **ayrshire**:ab,ti OR **dunbartonshire**:ab,ti OR **lothian**:ab,ti OR **renfrewshire**:ab,ti OR **edinburgh**:ab,ti OR **falkirk**:ab,ti OR **glasgow**:ab,ti OR **highland\***:ab,ti OR **inverclyde**:ab,ti OR **midlothian**:ab,ti OR **moray**:ab,ti OR **lanarkshire**:ab,ti OR (**perth**:ab,ti AND **kinross**:ab,ti) OR **stirling**:ab,ti OR **'orkney islands'**:ab,ti OR **'eileanan siar'**:ab,ti OR **'shetland islands'**:ab,ti OR **bridgend**:ab,ti OR **'neath port talbot'**:ab,ti OR **cardiff**:ab,ti OR (**vale**:ab,ti AND **glamorgan**:ab,ti) OR **'central valleys'**:ab,ti OR **conwy**:ab,ti OR **denbighshire**:ab,ti OR **flintshire**:ab,ti OR **wrexham**:ab,ti OR **'gwent valleys'**:ab,ti OR **gwynedd**:ab,ti OR (**isle**:ab,ti AND **anglesey**:ab,ti) OR **'monmouthshire'**:ab,ti OR **'newport'**:ab,ti OR **powys**:ab,ti OR **swansea**:ab,ti OR **ceredigion**:ab,ti OR **carmarthenshire**:ab,ti OR **pembrokeshire**:ab,ti OR **'merthyr tydfil'**:ab,ti OR **'rhondda cynon taff'**:ab,ti OR **'blaenau gwent'**:ab,ti OR **caerphilly**:ab,ti OR **torfaen**:ab,ti OR **caithness**:ab,ti OR **'sutherland and ross'**:ab,ti OR **cromarty**:ab,ti OR **teeside**:ab,ti OR **tyneside**:ab,ti OR **wearside**:ab,ti OR **'west mercia'**:ab,ti OR **avon**:ab,ti OR **ulster**:ab,ti OR **derry**:ab,ti OR **medway**:ab,ti OR **'east riding'**:ab,ti OR **'west riding'**:ab,ti OR **'lake district'**:ab,ti OR **'peak district'**:ab,ti OR **cumberland**:ab,ti OR **dartmoor**:ab,ti OR **exmoor**:ab,ti OR **sweden**:ad OR **sverige**:ad OR **swedish**:ad OR **svenska**:ad OR **stockholm\***:ad OR **norrland**:ad OR **svealand**:ad OR **mellansverige**:ad OR **smaland**:ad OR **sydsverige**:ad OR **vastsverige**:ad OR **orebro**:ad OR **ostergotland\***:ad OR **vastergotland\***:ad OR **skara\***:ad OR **bohus\***:ad OR **dalsland**:ad OR **narke**:ad OR **sodermanland**:ad OR **uppsala**:ad OR **uppland**:ad OR **vastmanland\***:ad OR **jamtland\***:ad OR **harjedalen**:ad OR **vasternorrland\***:ad OR **dalarna**:ad OR **kopparberg**:ad OR **gavleborg\***:ad OR **gastrikland**:ad OR **halsingland**:ad OR **varmland\***:ad OR **gotland\***:ad OR **oland**:ad OR **jonkoping\***:ad OR **kalmar\***:ad OR **kronoberg\***:ad OR **blekinge**:ad OR **skane\***:ad OR **norrbotten\***:ad OR **vasterbotten\***:ad OR **lappland**:ad OR **angermanland**:ad OR **medelpad**:ad OR **halland\***:ad OR **gotaland\***:ad OR **gothenburg**:ad OR **goteborg\***:ad OR **malmo\***:ad OR **vasteras**:ad OR **linkoping**:ad OR **helsingborg**:ad OR **halsingborg**:ad OR **norrkoping**:ad OR **gavle**:ad OR **umea**:ad OR **lulea**:ad OR **karlstad**:ad OR **kalmar**:ad OR **huddinge**:ad OR **solna**:ad OR **ostersjo\***:ad OR **malaren\***:ad OR **malardalen**:ad OR **sweden**:ab,ti OR **sverige**:ab,ti OR **swedish**:ab,ti OR **svenska**:ab,ti OR **stockholm\***:ab,ti OR **norrland**:ab,ti OR **svealand**:ab,ti OR **mellansverige**:ab,ti OR **smaland**:ab,ti OR **sydsverige**:ab,ti OR **vastsverige**:ab,ti OR **orebro**:ab,ti OR **ostergotland\***:ab,ti OR **vastergotland\***:ab,ti OR 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OR **burgos**:ad OR **caceres**:ad OR **cadiz**:ad OR **castellon**:ad OR **castello**:ad OR **'ciudad real'**:ad OR **cordoba**:ad OR **cuenca**:ad OR **eivissa**:ad OR **ibiza**:ad OR **formentera**:ad OR **'el hierro'**:ad OR **fuerteventura**:ad OR **girona**:ad OR **gerona**:ad OR **'gran canaria'**:ad OR **granada**:ad OR **guadalajara**:ad OR **guipuzcoa**:ad OR **gipuzkoa**:ad OR **huelva**:ad OR **huesca**:ad OR **jaen**:ad OR **'la gomera'**:ad OR **'la palma'**:ad OR **lanzarote**:ad OR **leon**:ad OR **lleida**:ad OR **lerida**:ad OR **lugo**:ad OR **malaga**:ad OR **mallorca**:ad OR **majorca**:ad OR **menorca**:ad OR **minorca**:ad OR **murcia**:ad OR **ourense**:ad OR **orense**:ad OR **palencia**:ad OR **pontevedra**:ad OR **salamanca**:ad OR **segovia**:ad OR **sevilla**:ad OR **seville**:ad OR **soria**:ad OR **tarragona**:ad OR **tenerife**:ad OR **teruel**:ad OR **toledo**:ad OR **valencia**:ad OR **valladolid**:ad OR **vizcaya**:ad OR **biscay**:ad OR **zamora**:ad 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**roma**:ab,ti OR **abruzzo**:ab,ti OR **abruzzi**:ab,ti OR **basilicata**:ab,ti OR **lucania**:ab,ti OR **calabria**:ab,ti OR **campania**:ab,ti OR **'emilia romagna'**:ab,ti OR **'friuli venezia giulia'**:ab,ti OR **lazio**:ab,ti OR **latium**:ab,ti OR **liguria\***:ab,ti OR **lombardy**:ab,ti OR **lombardia**:ab,ti OR **marche**:ab,ti OR **marches**:ab,ti OR **molisano**:ab,ti OR **molise**:ab,ti OR **piedmont\***:ab,ti OR **piemonte**:ab,ti OR **sardinia**:ab,ti OR **sardegna**:ab,ti OR **sicily**:ab,ti OR **sicilia**:ab,ti OR **toscana**:ab,ti OR **tuscany**:ab,ti OR **trentino**:ab,ti OR **trento**:ab,ti OR **umbria**:ab,ti OR **veneto**:ab,ti OR **triveneto**:ab,ti OR **puglia**:ab,ti OR **apulia**:ab,ti OR **bolzano**:ab,ti OR **bozen**:ab,ti OR **milan**:ab,ti OR **milano**:ab,ti OR **naples**:ab,ti OR **napoli**:ab,ti OR **turin**:ab,ti OR **torino**:ab,ti OR **palermo**:ab,ti OR **genoa**:ab,ti OR **genova**:ab,ti OR **florence**:ab,ti OR **firenze**:ab,ti OR **bari**:ab,ti OR **catania**:ab,ti OR **venezia**:ab,ti OR **venice**:ab,ti OR **padova**:ab,ti OR **padua**:ab,ti OR **siena**:ab,ti OR **bologna**:ab,ti OR **trieste**:ab,ti OR **urbino**:ab,ti OR **aosta**:ab,ti OR **aoste**:ab,ti OR **perugia**:ab,ti OR **brescia**:ab,ti OR **cagliari**:ab,ti OR **catanzaro**:ab,ti OR **'l aquila'**:ab,ti OR **ancona**:ab,ti OR **italy**:ad OR **italia\***:ad OR **rome**:ad OR **roma**:ad OR **abruzzo**:ad OR **abruzzi**:ad OR **basilicata**:ad OR **lucania**:ad OR **calabria**:ad OR **campania**:ad OR **'emilia romagna'**:ad OR **'friuli venezia giulia'**:ad OR **lazio**:ad OR **latium**:ad OR **liguria\***:ad OR **lombardy**:ad OR **lombardia**:ad OR **marche**:ad OR **marches**:ad OR **molisano**:ad OR **molise**:ad OR **piedmont\***:ad OR **piemonte**:ad OR **sardinia**:ad OR **sardegna**:ad OR **sicily**:ad OR **sicilia**:ad OR **toscana**:ad OR **tuscany**:ad OR **trentino**:ad OR **trento**:ad OR **umbria**:ad OR **veneto**:ad OR **triveneto**:ad OR **puglia**:ad OR **apulia**:ad OR **bolzano**:ad OR **bozen**:ad OR **milan**:ad OR **milano**:ad OR **naples**:ad OR **napoli**:ad OR **turin**:ad OR **torino**:ad OR **palermo**:ad OR **genoa**:ad OR **genova**:ad OR **florence**:ad OR **firenze**:ad OR **bari**:ad OR **catania**:ad OR **venezia**:ad OR **venice**:ad OR **padova**:ad OR **padua**:ad OR **siena**:ad OR **bologna**:ad OR **trieste**:ad OR **urbino**:ad OR **aosta**:ad OR **aoste**:ad OR **perugia**:ad OR **brescia**:ad OR **cagliari**:ad OR **catanzaro**:ad OR **'l aquila'**:ad OR **ancona**:ad OR **ireland**:ab,ti OR **eire**:ab,ti OR **irish\***:ab,ti OR **dublin**:ab,ti OR **fingal**:ab,ti OR **'dun laoghaire'**:ab,ti OR **wicklow**:ab,ti OR **wexford**:ab,ti OR **carlow**:ab,ti OR **kildare**:ab,ti OR **meath**:ab,ti OR **louth**:ab,ti OR **monaghan**:ab,ti OR **cavan**:ab,ti OR **longford**:ab,ti OR **westmeath**:ab,ti OR **offaly**:ab,ti OR **laois**:ab,ti OR **kilkenny**:ab,ti OR **waterford**:ab,ti OR 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## Cochrane Library (CDSR, DARE, HTA, EED)

Date of the search: 12/03/2015

Language limits: no limits

Date limits: 2005-2015

Number of results:

* CDSR: 3
* DARE: 7
* HTA: 2
* EED: 25

**ID Search Hits**

#1 MeSH descriptor: [Prevalence] explode all trees 3943

#2 MeSH descriptor: [Population Surveillance] explode all trees 585

#3 MeSH descriptor: [Seroepidemiologic Studies] explode all trees 134

#4 seroprevalence\* or seroepidemiolog\* or "sero epidemiologic" or "sero epidemiological" or "sero epidemiology" or serosurvey\* or serolog\* or epidemiolog\* or surveillance:ti,ab,kw 15921

#5 #1 or #2 or #3 or #4 19532

#6 MeSH descriptor: [Hepatitis B] explode all trees 1939

#7 MeSH descriptor: [Hepatitis B Antibodies] explode all trees 555

#8 MeSH descriptor: [Hepatitis B Antigens] explode all trees 940

#9 MeSH descriptor: [Hepatitis B virus] explode all trees 671

#10 MeSH descriptor: [Hepatitis C] explode all trees 2287

#11 MeSH descriptor: [Hepatitis C Antigens] explode all trees 15

#12 MeSH descriptor: [Hepatitis C Antibodies] explode all trees 112

#13 MeSH descriptor: [Hepacivirus] explode all trees 1001

#14 "hepatitis b" or "hepatitis c" or hepaciviru\* or "hbv" or "hcv" or "hbsag" or "hbs ag" or "Australia Antigen" or "Australia Antigens":ti,ab,kw Publication 6994

#15 #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 8380

#16 #15 and #5 517

**Supplementary Table S2.** Study inclusion and exclusion criteria

|  |  |
| --- | --- |
| **Inclusion criteria** | **Exclusion criteria** |
| Articles published in 2005 or later reporting data from population sampled from the year 2000 onwards, including studies with data collection ending after 2000 (irrespective of start date) | Articles falling outside the specified sampling period or publication date range |
| Articles reporting data from one or more EU/EEA MS and/or any of their regions/districts | Articles reporting data on non EU/EEA countries only |
| Articles reporting HBsAg/anti-HCV (and DNA/RNA) prevalence rates in humans | Articles not reporting data on HBsAg/anti-HCV prevalence or DNA/RNA or if virological markers tested for were not specified  Article reporting only self-reported (i.e. unconfirmed) HBsAg/anti-HCV prevalence |
| Articles reporting data from the general population and/or key subgroups | Articles reporting data on specific high-risk groups only i.e. MSM, PWID |
|  | Articles reporting modelled data only |
|  | Articles reporting only data from a study not conducted in humans, environmental studies, technology assessments (studies on diagnostic and/or laboratory methods) |
|  | Opinion papers, editorials, guidelines or recommendations , perspectives and correspondence articles, systematic reviews or meta-analysis |
|  | Articles reporting data on the general population or pregnant women in countries with a population of >5 million inhabitants, but has a sample size <100 participants or has a sample size <50 participants for countries with a population of <5 million |

**Supplementary Table S3.** List and definition of key subgroups included in the systematic review

|  |  |
| --- | --- |
| **Population category** | **Definition** |
| **General population** | People living in a defined geographical area (all ages or adults only), excluding specific low risk populations such as children |
| Patients attending community and primary care settings, excluding hospitalized patients |
| Workforce or specific professional groups (e.g. workplace screening) excluding health care workers and specific recreational/ sports-related population sub-groups |
| **Pregnant women** | Pregnant women undergoing antenatal care screening |
| **Blood donors** | First-time blood donors (pre-screened and non-pre-screened) |

**Supplementary Table S4.** Variables used in Data Extraction

|  |  |  |
| --- | --- | --- |
| **Variable** | **Description** | **Values** |
| PMID | PubMed identifier, accession number | Numerical |
| Study ID | The ID links each study to the source article | Alpha-numerical (PMID plus a, b, c…. for each study) |
| First author | Surname of first author of the article |  |
| Year of publication | Year of publication of the article | Year: yyyy |
| Type of publication | Type of publication | Original article; review; report; abstract; commentary; erratum |
| Exclusion | If required, reason for exclusion |  |
| Disease | Disease for which the study report prevalence estimates | HBV; HCV; both |
| Country | Country for which the study report prevalence estimates | Country name |
| Period of sampling | Year/s during which study sampling was conducted | Year: yyyy |
| Population coverage | Coverage of the population by the sampling design in geographic/demographic terms | National; regional; multicentre; single centre/local |
| Population | Target population sampled in the study | General population; pregnant women; MSM; prisoner |
| Study population details | Narrative field for any further relevant information on the study population |  |
| Sampling approach | Description of sampling approach | Random sampling; convenience sampling; respondent-driven (i.e. snowballing); exhaustive (screening); not specified; other |
| Sample size | Total sample size (for all estimates) | Numerical |
| Response rate | Percentage of respondents | % |
| Type of sample | Description of sample type | Serum, saliva; dry blood spot |
| Type of test | Description of laboratory test used | HBsAg; HBV DNA; HBV rapid test; Anti-HCV; anti-HCV immunoblot; HCV RNA; HCV rapid test |
| Age group | Description of age group | 0-17 (children); >17 (adults); all |
| Mean / median age | Mean or median age of study population | Numerical |
| Age range | Minimum and maximum age of study population | Numerical |
| Prevalence number per estimate | Number screened and number positive (HBsAg, HBV DNA, anti-HCV, HCV RNA) | Numerical |
| Prevalence % per estimate | Prevalence estimate (HBsAg, HBV DNA, anti-HCV, HCV) | % |
| 95%CI per estimate | Calculated using Fisher method for 95% CI | % |
| Standardized | Weighted/standardized prevalence estimate available | Yes/No |
| Comments |  |  |

##### **Supplementary Table S5.** Risk of bias framework for general population studies

|  |  |  |
| --- | --- | --- |
| **Domain** | **Scores and description** | |
| Age | 0 | 1 |
| Clear age bias (towards children for example), not representative for the general population; no information | No clear bias in age profile of respondents; representative for the general population age distribution |
| Gender | 0 | 1 |
| Clear bias in gender; no information to suggest representativeness for the general population | No clear bias in gender distribution of subjects; could be considered representative if information is limited |
| Sampling method | 0 - Non-random or non-exhaustive  1 - Exhaustive or random and <50/60% response rate or no info  2 - Exhaustive or random and >50/60% response rate | |
| Geographical coverage | 0 – Single centre/local; 1 – Multi-centre/local or regional; 2 – Multi-centre/national | |

**Supplementary Table S6**. Risk of bias framework for studies among pregnant women

|  |  |  |
| --- | --- | --- |
| **Domain** | **Scores and description** | |
| Sampling method | 0 | 1 |
| Non-random or non-exhaustive | Exhaustive or random |
| Geographical coverage | 0 – Single centre/local; 1 – Multi-centre/local or regional; 2 – Multi-centre/national | |

**Supplementary Table S7.** Extracted and pooled (where possible) HBsAg prevalence estimates for the general population from included studies

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Author (Publ.Year)** | **Geographical coverage** | **Sampling period** | **Sampling method** | **Study population details** | **Age range** | **Sample size** | **Prevalence of HBsAg (95%CI)** |
| **Belgium\*** | Quoilin (2007) ([1](#_ENREF_23)) | Regional | 2002 | Random | Region of Flanders | Standardized | Standardized | 0∙7% (0∙5- 0∙8) |
| Belgium | Quoilin (2007) ([1](#_ENREF_23)) | Regional | 2002 | Random | Region of Flanders | 0 to >65 | 1,830 | 0∙7% (0∙4 - 1∙2) |
| Belgium | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002-2003 | Convenience | Geographically and gender representative residual lab samples | 1 to 15 | 1,175 | 0∙7% (0∙3 - 1∙3) |
| Belgium | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002-2003 | Convenience | Geographically and gender representative residual lab samples | 16 to 39 | 321 | 0∙6% (0∙1 - 2∙2) |
| **Croatia\*** | Vilibic-Cavlek (2014) ([3](#_ENREF_25)) | Multi-centre | 2010-2011 | Convenience | Multi-centre study of patients attending a medical check-up, covers 20% of regions | 20 to 80 | 2,009 | 0∙7% (0∙4 - 1∙2) |
| Croatia | Burek (2010) (4) | Multi-centre | 2005-2007 | N/R | Multi-centre study of staff in 20 prisons (10∙9% of all prison staff) | N/R | 259 | 2∙3% (0∙9 - 5∙0) |
| **Czech Republic\*** | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2001 | Random |  | Standardized | Standardized | 0∙6% |
| Czech Republic | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2001 | Random |  | 16 to >40 years | 1,669 | 0∙4% (0∙1-0∙8) |
| Czech Republic | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2001 | Random |  | 1 to 15 years | 975 | 0∙3% (0∙1-0∙9) |
| Czech Republic | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2001 | Random |  | 16 to 39 years | 1,148 | 0∙2% (0∙0-0∙6) |
| Czech Republic | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2001 | Random |  | >40 years | 521 | 0∙8% (0∙2-2∙0) |
| **France\*** | Meffre (2010) ([5](#_ENREF_27)) | National | 2004 | Random | National sample obtained via primary health care insurance units | 18 to 80 | 18,230 | 0∙7% (0∙5 - 0∙9) |
| France | Bottero (2014) (6) | Multi-centre | 2010-2011 | Convenience | Multi-centre screening study in Paris region includes multiple risk groups such as migrants and PWID | Mean age 33 | 3,929 | 2∙2% (1∙7 - 2∙7) |
| Germany# | Poethko-Müller (2013) ([7](#_ENREF_29)) | National | 2008 - 2011 | Random | National coverage, DEGS1 study | 18 to 79 | 7,047 | 0∙3% (0∙2 - 0∙6) |
| Germany# | Huetter (2014) ([8](#_ENREF_30)) | Local | 2002 | Random | Residents of Leutkirch, South Germany | 18 to 65, mean age 39∙4 | 2,256 | 0∙7% (0∙4 - 1∙1) |
| Germany | Wolffram (2015) (9) | Regional | 2012-2013 | Convenience | Check-up 35+ attendees (mid-life health check) in Northern Rhine Westphalia | Mean age 57∙5 | 21,008 | 0∙5% (0∙4 - 0∙6) |
| **Germany\*** | Pooled | Pooled | 2002; 2008-2011 | Pooled | Pooled | Pooled | 9,303 | 0∙4% (0∙3 – 0∙5) |
| **Greece\*** | Drositis (2013) ([10](#_ENREF_32)) | Regional | 2006-2010 | Random | Adult residents of Arkalochori, a province in Crete | Mean age 52 | 876 | 3∙3% (2∙2 - 4∙7) |
| Greece | Dounias (2005) ([11](#_ENREF_33)) | Local | 1999-2001 | Convenience | Municipal solid waste workers | Mean age 42 | 159 | 7∙5% (4∙0 - 12∙8) |
| **Hungary\*** | Treso (2012) ([12](#_ENREF_34)) | National | 2007-2009 | Convenience | Prison staff | 21 to 60 | 1,066 | 0∙4% (0∙1 - 1∙0) |
| **Ireland\*** | Talento (2010) (13) | National | 1992-2009 | Exhaustive | Living and deceased solid organ donors | N/R | 1,478 | 0∙1% (0∙0 - 0∙4) |
| Ireland | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2003 | Convenience | Geographically and gender representative residual lab samples | 1 to 15 | 877 | 0∙0% (0∙0 - 0∙9) |
| Ireland | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2003 | Convenience | Geographically and gender representative residual lab samples | 16 to >40 | 1,658 | 0∙1% (0∙0 - 0∙4) |
| Ireland | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2003 | Convenience | Geographically and gender representative residual lab samples | 16 to 39 | 1,194 | 0∙1% (0∙0 - 0∙5) |
| Ireland | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2003 | Convenience | Geographically and gender representative residual lab samples | >40 | 464 | 0∙2% (0∙0 - 1∙2) |
| Italy# | Cozzolongo (2009) ([14](#_ENREF_36)) | Local | 2005-2007 | Random | GP records in Bari, Apuglia | 18 to 93, mean age 47 | 2,195 | 0∙5% (0∙3 - 1∙0) |
| Italy# | Pendino (2005) ([15](#_ENREF_37)) | Local | 2002-2003 | Random | Census data from Cittanova, Calabria | 12 to 95 | 1,645 | 0∙8% (0∙4 - 1∙3) |
| Italy# | Floreani (2006) ([16](#_ENREF_38)) | Local | 2001 | Random | Residents of Arsita (Central Italy) | >8 | 142 | 0∙7% (0∙0 - 3∙9) |
| Italy | Boccalini (2013) ([17](#_ENREF_39)) | Regional | 2009 | Convenience | Residual blood samples from 0∙05% of residents in Tuscany | 1 to 50 | 1,071 | 2∙0% (1∙2 – 3∙0) |
| Italy | Fabris (2008) ([18](#_ENREF_40)) | Local | 2002 | Exhaustive | Vicenza, North East Italy. A broken sewer pipe prompted HAV vaccination, subjects were also tested for HBV/HCV | Mean age 42∙1 | 965 | 1∙0% (0∙5 - 1∙9) |
| Italy | Del Corno (2006) ([1](#_ENREF_41)9) | Local | N/R | Random | Four towns in Isola Bergamasca (Northern Italy) | 20 to 70 | 2,829 | 5∙8% (5∙0 - 6∙7) |
| Italy | Dazzani (2009) ([2](#_ENREF_42)0) | Local | 2008 | Convenience | Survey of residents in Bagnacavallo (Emilia-Romagna) | 30 to 60 | 3,207 | 0∙6% (0∙4 - 1∙0) |
| Italy | De Paschale (2012) (21) | Local | 2007-2008 | Convenience | Hospital lab samples from Legnano Hospital in Northern Italy | Mean age 51∙4 | 22,758 | 2∙1% (2∙0 - 2∙3) |
| Italy | Da Villa (2007) (22) | Local | 2006 | N/R | Cohort in Afragola, Naples | 6 to 58 | 1,540 | 0∙9% (0∙5 - 1∙5) |
| Italy | Squeri (2006) (23) | Local | 2005 | Convenience | Municipal solid waste workers | 20 to 68 | 327 | 4∙0% (2∙1 - 6∙7) |
| **Italy\*** | Pooled | Pooled | 2001; 2002-2003; 2005-2007 | Pooled | Pooled | Pooled | 3,982 | 0∙7% (0∙4 – 1∙0) |
| **The Netherlands\*** | Hahné (2012) ([24](#_ENREF_18)) | National | 2006-2007 | Random | National study (Pienter 2) | >18 months | 6,246 | 0∙2% (0∙1 - 0∙4) |
| The Netherlands | Veldhuijzen (2009) (2[5](#_ENREF_53)) | Local | 2004 | Random | Rotterdam municipal population register | 18 to 65 | 284 | 0∙7% (0∙1 - 2∙5) |
| Poland | Hartleb (2012) ([26](#_ENREF_46)) | National | N/R | Exhaustive | Study among elderly population∙ Sample from national population register, 42∙6% response | >65, mean age 79∙4 | 3,826 | 1∙1% (0∙8 - 1∙5) |
| Poland | Pszenny (2012) ([27](#_ENREF_47)) | Regional | 2000-2008 | Convenience | Retrospective study among deceased potential blood donors, 75% male | N/R | 4,774 | 0∙9% (0∙7 - 1∙2) |
| **Romania\*** | Gheorghe (2013) ([28](#_ENREF_48)) | National | 2006-2008 | Random | National cross-sectional population survey | 18 to 69 | 13,127 | 4∙4% (4∙0 - 4∙8) |
| Romania | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002 | Convenience | Geographically and gender representative residual lab samples | 1 to 15 | 630 | 5∙1% (3∙5 - 7∙1) |
| Romania | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002 | Convenience | Geographically and gender representative residual lab samples | 16 to >40 | 629 | 6∙2% (4∙4 - 8∙4) |
| Romania | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002 | Convenience | Geographically and gender representative residual lab samples | 16 to 39 | 276 | 7∙6% (4∙8 - 11∙4) |
| Romania | Nardone (2009) ([2](#_ENREF_24)) | N/R | 2002 | Convenience | Geographically and gender representative residual lab samples | >40 | 353 | 5∙1% (3∙0 - 7∙9) |
| Slovakia | Nardone (2009) ([2](#_ENREF_24)) | National | 2002 | Random |  | 1 to 15 | 1,623 | 0∙1% (0∙0 - 0∙4) |
| **Slovakia\*** | Nardone (2009) ([2](#_ENREF_24)) | National | 2002 | Random |  | 16 to >40 | 1,946 | 1∙1% (0∙7 - 1∙6) |
| Slovakia | Nardone (2009) ([2](#_ENREF_24)) | National | 2002 | Random |  | 16 to 39 | 1,270 | 0∙9% (0∙4 - 1∙5) |
| Slovakia | Nardone (2009) ([2](#_ENREF_24)) | National | 2002 | Random |  | >40 | 676 | 1∙5% (0∙7 - 2∙7) |
| Spain# | Pedraza-Flechas (2014) ([29](#_ENREF_49)) | Regional | 2008-2009 | Random | Attendees of blood extraction centres in region of Madrid∙ Bi-stage, cluster stratified sampling | 16 to 80 | 3,695 | 0∙7% (0∙5 - 1∙0) |
| Spain# | Lopez-Izquierdo (2007) ([30](#_ENREF_50)) | Regional | 2003 | Random | Study in Valladolid∙ Stratified random sampling based on health card | N/R | 364 | 0∙0% (0∙0 - 1∙0) |
| Spain# | Salleras (2007) ([31](#_ENREF_51)) | Regional | 2002 | Random | Two stage cluster sample from municipal electoral registers in Catalonia | 15 to >65 | 1,296 | 1∙4% (0∙8 -2∙2) |
| Spain | Salleras (2007) ([31](#_ENREF_51)) | Regional | 2002 | Random | Two stage cluster sample from schools and municipal electoral registers in Catalonia | 5 to >65 | 2,620 | 0∙7% (0∙4 - 1∙1) |
| Spain | Salleras (2007) ([31](#_ENREF_51)) | Regional | 2002 | Random | Two stage cluster sample from schools in Catalonia | 5 to 14 | 1,324 | 0∙0% (0∙0 - 0∙3) |
| Spain | Calleja-Panero (2013) ([32](#_ENREF_52)) | Multi-centre | 2007-2010 | Convenience | Study in Murcia and Madrid of working population at yearly insurance check-up∙ 73% male∙ | 42 | 5,017 | 0∙7% (0∙5 - 1∙0) |
| **Spain\*** | Pooled | Pooled | 2002; 2003; 2008-2009 | Pooled | Pooled | Pooled | 5,355 | 0∙8% (0∙6 - 1∙1) |
| United Kingdom | Pepas (2011) ([33](#_ENREF_54)) | Local | 2007-2009 | Exhaustive | Patients undergoing Assisted Reproductive Treatment at Guy & St Thomas Hospital, London | N/R | 3,910 | 1∙7% (1∙3 - 2∙2) |

# Estimates that were used for the pooled estimate

\* Higher quality estimate

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**Supplementary Table S8.** Extracted and pooled (where possible) anti-HCV prevalence estimates for the general population from included studies

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Author (Publ.Year)** | **Geographical coverage** | **Sampling period** | **Sampling**  **method** | **Study population details** | **Age range** | **Sample size** | **Prevalence of**  **anti-HCV (95% CI)** |
| **Belgium\*** | Quoilin (2007) ([1](#_ENREF_23)) | Regional | 2002 | Random | Region of Flanders | 0 to >65 | 1,830 | 0∙1% (0∙0 - 0∙4) |
| Croatia | Burek (2010) ([2](#_ENREF_26)) | Multi-centre | 2005-2007 | N/R | Multi-centre study of staff in 20 prisons (10∙9% of all prison staff) | N/R | 259 | 0∙0% (0∙0 - 1∙4) |
| **Croatia\*** | Vilibic-Cavlek (2014) ([3](#_ENREF_25)) | Multi-centre | 2010-2011 | Convenience | Multi-centre study of patients attending a medical check-up, covers 20% of regions | 20 to 80 | 1,930 | 0∙9% (0∙6 - 1∙5) |
| **France\*** | Meffre (2010) ([4](#_ENREF_27)) | National | 2004 | Random | National sample obtained via primary health care insurance units | 18 to 80 | 18,230 | 0∙8% (0∙7 - 1∙1) |
| France | Sahajian (2007) ([5](#_ENREF_55)) | Multi-centre | 2003-2004 | Mixed | Under-privileged populations sampled via primary care services∙ Includes a small number of homeless people (n=89) and former/active PWID (n=16) | 18 to >60 | 944 | 4∙7% (3∙4 - 6∙2) |
| France | Poynard (2009) ([6](#_ENREF_56)) | Multi-centre | N/R | Convenience | Attendees of social security health centres | >40 | 7,463 | 0∙9% (0∙7 - 1∙1) |
| Germany# | Poethko-Müller (2013) ([7](#_ENREF_29)) | National | 2008-2011 | Random | National coverage: DEGS1 study | 18 to 79 | 7,047 | 0∙3% (0∙1 - 0∙5) |
| Germany# | Huetter (2014) ([8](#_ENREF_30)) | Local | 2002 | Random | Residents of Leutkirch, South Germany | 18 to 65, mean age 39∙4 | 2,256 | 0∙6% (0∙3 – 1∙0) |
| Germany | Wolffram (2015) (9) | Regional | 2012-2013 | Convenience | Check-up 35+ attendees (mid-life health check) in Northern Rhine Westphalia | Mean age 57∙5 | 21,008 | 1∙0% (0∙8 – 1∙1) |
| **Germany\*** | Pooled | Pooled | 2002; 2008-2011 | Pooled | Pooled | Pooled | 9,303 | 0∙4% (0∙3 – 0∙5) |
| **Greece\*** | Drositis (2013) (10) | Regional | 2006-2010 | Random | Adult residents of Arkalochori, a province in Crete | Mean age 52 | 876 | 2∙2% (1∙3 - 3∙4) |
| **Hungary\*** | Treso (2012) ([11](#_ENREF_34)) | National | 2007-2009 | Convenience | Prison staff | 21 to 60 | 1,066 | 0∙5% (0∙2 - 1∙1) |
| **Ireland\*** | Talento (2010) ([12](#_ENREF_35)) | National | 1992-2009 | Exhaustive | Living and deceased solid organ donors | N/R | 1,478 | 0∙1% (0∙0 - 0∙4) |
| Italy# | Cozzolongo (2009) (1[3](#_ENREF_36)) | Local | 2005-2007 | Random | GP records in Bari, Apuglia | 18 to 93, mean age 47 | 2,195 | 2∙6% (2∙0 - 3∙4) |
| Italy# | Pendino (2005) ([14](#_ENREF_37)) | Local | 2002-2003 | Random | Census data from Cittanova, Calabria | 12 to 95 | 1,645 | 6∙5% (5∙4 - 7∙8) |
| Italy# | Floreani (2006) ([15](#_ENREF_38)) | Local | 2001 | Random | Residents of Arsita (Central Italy) | >8 | 697 | 10∙2% (8∙0 - 12∙7) |
| Italy# | Petti (2006) ([16](#_ENREF_57)) | Local | N/R | Random | GP registration∙ Local coverage | >25 | 289 | 16∙3% (12∙2 - 21∙0) |
| Italy | Petti (2006) ([16](#_ENREF_57)) | Local | N/R | Random | GP registration∙ Local coverage | 25-49 | 133 | 3∙0% (0∙8 - 7∙5) |
| Italy | Petti (2006) ([16](#_ENREF_57)) | Local | N/R | Random | GP registration∙ Local coverage | >50 | 156 | 27∙6% (20∙7 - 35∙3) |
| Italy | Parisi (2014) ([17](#_ENREF_58)) | Local | 2011-2014 | Convenience | Milan∙ Hospital (2 points in one location), STI clinics (n=1) and GPs (n=6) | >18 | 4,507 | 0∙6% (0∙4 - 0∙9) |
| Italy | Guadagnino (2013) ([18](#_ENREF_59)) | Local | 2010 | Random | Study in a small town in Calabria | >18 | 1,012 | 5∙7% (4∙4 - 7∙4) |
| Italy | Fabris (2008) ([20](#_ENREF_40)) | Local | 2002 | Exhaustive | Vicenza, North East Italy. A broken sewer pipe prompted HAV vaccination, subjects were also tested for HBV/HCV | Mean age 42∙1 | 965 | 2∙6% (1∙7 - 3∙8) |
| Italy | Montella (2005) (21) | Regional | 2000-2002 | Convenience | Naples, residual sera from primary care tests | 19 to 65 | 1,972 | 8∙2% (7∙0 - 9∙5) |
| Italy | Del Corno (2006) (22) | Local | N/R | Random | Four towns in Isola Bergamasca (Northern Italy) | 20 to 70 | 960 | 4∙7% (3∙4 - 6∙2) |
| Italy | Dazzani (2009) ([2](#_ENREF_42)3) | Local | 2008 | Convenience | Survey of residents in Bagnacavallo (Emilia-Romagna) | 30 to 60 | 3,207 | 1∙1% (0∙8 - 1∙5) |
| Italy | De Paschale (2012) (2[4](#_ENREF_43)) | Local | 2007-2008 | Convenience | Hospital lab samples from Legnano Hospital in Northern Italy | Mean age 51∙4 | 425 | 4∙7% (2∙9 - 7∙2) |
| Italy | Squeri (2006) ([25](#_ENREF_45)) | Local | 2005 | Convenience | Municipal solid waste workers | 20 to 68 | 327 | 0∙9% (0∙2 - 2∙7) |
| **Italy\*** | Pooled | Pooled | N/R | Pooled | Pooled | Pooled | 4,826 | 5∙9% (5∙2 – 6∙6) |
| **Latvia\*** | Tolmane (2011) (2[6](#_ENREF_61)) | National | 2008 | Random | GP registration | 18 to 94 | 1,459 | 2∙4% (1∙7 - 3∙3) |
| Lithuania | Liakina (2012) ([2](#_ENREF_62)7) | National (covering 75% of population) | 2010 | Convenience | Shopping centre attendees  (62% female) | N/R | 1,514 | 2∙4% (1∙7 - 3∙4) |
| Lithuania | Liakina (2012) ([2](#_ENREF_62)7) | National (covering 75% of population) | 2010 | Convenience | Shopping centre attendees  (62% female) | Mean across age ranges |  | 2∙8% |
| Lithuania | Liakina (2012) ([2](#_ENREF_62)7) | National (covering 75% of population) | 2010 | Convenience | Shopping centre attendees  (62% female) | Standardized |  | 2∙8% |
| Lithuania | Liakina (2012) ([2](#_ENREF_62)7) | National (covering 75% of population) | 2010 | Convenience | Shopping centre attendees  (62% female) | Standardized to European population |  | 2∙9% |
| **The Netherlands\*** | Vriend (2013) ([28](#_ENREF_66)) | National | 2006-2007 | Random | National study (Pienter 2) | 15 to 79 | 4,046 | 0∙1% (0∙0 - 0∙2) |
| The Netherlands | Veldhuijzen (2009) (29) | Local | 2004 | Random | Rotterdam municipal population register | 18 to 65 | 284 | 1∙1% (0∙2 - 3∙1) |
| The Netherlands | Slavenburg (2008) (30) | Regional | 2006 | Convenience | GP attendees in Arnhem and Nijmegen who had blood taken as part of clinical work up | N/R | 2,200 | 0∙2% (0∙1 - 0∙5) |
| Poland | Hartleb (2012) (31) | National | N/R | Exhaustive | Study of elderly population, sample from national population register | >65, mean age 79∙4 | 3,826 | 2∙9% (2∙4 - 3∙5) |
| Poland | Flisiak (2011) ([3](#_ENREF_63)2) | Multi-centre | 2009-2010 | Convenience | Consecutive patients in a GP outpatient clinic, 65∙4% female | Mean age 45 | 1,203 | 0∙9% (0∙5 - 1∙6) |
| Poland | Pszenny (2012) (33) | Regional | 2000-2008 | Convenience | Retrospective study among deceased potential blood donors, regional in scope, 75% male | N/R | 4,733 | 2∙6% (2∙2 - 3∙1) |
| **Romania\*** | Gheorghe (2010) (3[4](#_ENREF_48)) | National | 2006-2008 | Random | National cross-sectional pop. survey | 18 to 69 | 13,146 | 3∙2% (2∙9 - 3∙6) |
| **Slovakia\*** | Schreter (2007) ([35](#_ENREF_64)) | National | 2002 | Random | Residual serum samples | 15 to 69 | 2,124 | 2∙0% (1∙4 - 2∙7) |
| **Spain\*** | Lopez-Izquierdo (2007) (36) | Regional | 2003 | Random | Study in Valladolid, stratified random sampling based on health card | N/R | 364 | 1∙1% (0∙3 - 2∙8) |
| Spain | Caballeria (2014) (37) | Multi-centre | 2010-2011 | Random | Multi-centre study, invitation-based screening via GP registers in Barcelona | 20 to 90, mean age 50∙6 | 238 | 0∙4% (0∙0 - 2∙3) |
| Spain | Caballeria (2014) ([37](#_ENREF_65)) | Multi-centre | 2010-2011 | Convenience | Multi-centre study, screening via flyers and posters in GP offices in Barcelona | Mean age 51∙2 | 69 | 1∙5% (0∙0 - 7∙8) |
| Spain | Calleja-Panero (2013) ([38](#_ENREF_52)) | Multi-centre | 2007-2010 | Convenience | Study in Murcia and Madrid of working population at yearly insurance check-up, 73% male | 42 | 5,017 | 0∙6% (0∙4 - 0∙9) |
| United Kingdom | Pepas (2011) (39) | Local | 2007-2009 | Exhaustive | Patients undergoing Assisted Reproductive Treatment at Guy & St Thomas Hospital, London | N/R | 3,953 | 0∙4% (0∙3 - 0∙7) |
| United Kingdom | Balogun (2009) (40) | Regional | 2000 | Convenience | Residual serum samples from Public Health and National Health Service Laboratories in England and Wales for routine diagnostic examination | >16 | 5,068 | 1∙2% (0∙9 - 1∙5) |

# Estimates that were used for the pooled estimate

\* Higher quality estimate

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**Supplementary Table S9.** Risk of bias assessment and characteristics of the general population studies included in the HBV and HCV prevalence analysis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Study Characteristics*** | | | | ***Risk of Bias Assessment*** | | | | |
| **Authors** | **Publication Year** | **Virus** | **Country** | **Age Bias (0 or 1)** | **Gender Bias**  **(0 or 1)** | **Sampling method**  **(0, 1 or 2)** | **Population coverage**  **(0, 1 or 2)** | **Total**  **Score**  **(0 - 6)** |
| Quoilin | 2007 | Both | Belgium | 1 | 1 | 1 | 1 | 4 |
| Nardone | 2009 | HBV | Belgium | 0 | 1 | 0 | 2 | 3 |
| Vilibic-Cavlek | 2014 | Both | Croatia | 1 | 1 | 0 | 2 | 4 |
| Burek | 2010 | Both | Croatia | 1 | 0 | 1 | 1 | 3 |
| Nardone | 2009 | HBV | Czech Republic | 0 | 1 | 1 | 2 | 4 |
| Meffre | 2010 | Both | France | 1 | 1 | 1 | 2 | 5 |
| Sahajian | 2007 | HCV | France | 1 | 1 | 0 | 1 | 3 |
| Bottero | 2014 | HBV | France | 1 | 1 | 0 | 1 | 3 |
| Poynard | 2009 | HCV | France | 0 | 1 | 0 | 1 | 2 |
| Huetter | 2014 | Both | Germany | 1 | 1 | 2 | 0 | 4 |
| Poethko-Müller | 2013 | Both | Germany | 1 | 1 | 1 | 2 | 5 |
| Wolffram | 2015 | Both | Germany | 0 | 1 | 0 | 1 | 2 |
| Dounias | 2005 | HBV | Greece | 1 | 0 | 0 | 0 | 1 |
| Drositis | 2013 | Both | Greece: Crete | 1 | 1 | 2 | 0 | 4 |
| Treso | 2012 | Both | Hungary | 1 | 1 | 0 | 2 | 4 |
| Nardone | 2009 | HBV | Ireland | 0 | 1 | 0 | 2 | 3 |
| Talento | 2010 | Both | Ireland | 1 | 1 | 2 | 2 | 6 |
| Floreani | 2006 | Both | Italy | 1 | 1 | 2 | 0 | 4 |
| Fabris | 2008 | Both | Italy | 1 | 1 | 1 | 0 | 3 |
| Squeri | 2006 | Both | Italy | 1 | 0 | 0 | 0 | 1 |
| Da Villa | 2007 | HBV | Italy | 1 | 1 | 0 | 0 | 2 |
| Dazzani | 2009 | Both | Italy | 1 | 1 | 0 | 0 | 2 |
| Boccalini | 2013 | HBV | Italy | 1 | 1 | 0 | 1 | 3 |
| Guadagnino | 2013 | HCV | Italy | 1 | 1 | 1 | 0 | 3 |
| Montella | 2005 | HCV | Italy | 1 | 1 | 0 | 1 | 3 |
| Pendino | 2005 | Both | Italy | 1 | 1 | 2 | 0 | 4 |
| Cozzolongo | 2009 | Both | Italy | 1 | 1 | 2 | 1 | 5 |
| De Paschale | 2012 | Both | Italy | 1 | 1 | 0 | 0 | 2 |
| Parisi | 2014 | HCV | Italy | 1 | 1 | 0 | 1 | 3 |
| Petti | 2006 | HCV | Italy | 1 | 1 | 2 | 0 | 4 |
| Petti | 2006 | HCV | Italy | 1 | 1 | 2 | 0 | 4 |
| Petti | 2006 | HCV | Italy | 1 | 1 | 2 | 0 | 4 |
| Giacomoni | 2010 | Both | Italy | 0 | 1 | 0 | 0 | 1 |
| Del Corno | 2006 | Both | Italy | 1 | 1 | 1 | 0 | 3 |
| Tolmane | 2011 | HCV | Latvia | 1 | 1 | 2 | 2 | 6 |
| Liakina | 2012 | HCV | Lithuania | 0 | 0 | 0 | 2 | 2 |
| Pszenny | 2012 | Both | Poland | 0 | 0 | 0 | 1 | 1 |
| Flisiak | 2011 | HCV | Poland | 1 | 0 | 0 | 1 | 2 |
| Hartleb | 2012 | Both | Poland | 0 | 1 | 1 | 2 | 4 |
| Nardone | 2009 | HBV | Romania | 0 | 1 | 0 | 2 | 3 |
| Gheorghe | 2013 | HBV | Romania | 1 | 1 | 2 | 2 | 6 |
| Gheorghe | 2010 | HCV | Romania | 1 | 1 | 2 | 2 | 6 |
| Nardone | 2009 | HBV | Slovakia | 0 | 1 | 1 | 2 | 4 |
| Schreter | 2007 | HCV | Slovakia | 1 | 1 | 2 | 2 | 6 |
| Salleras | 2007 | HBV | Spain | 0 | 1 | 2 | 0 | 3 |
| Salleras | 2007 | HBV | Spain | 1 | 1 | 2 | 0 | 4 |
| Salleras | 2007 | HBV | Spain | 0 | 1 | 2 | 0 | 3 |
| Lopez-Izquierdo | 2007 | Both | Spain | 1 | 1 | 2 | 0 | 5 |
| Calleja-Panero | 2013 | Both | Spain | 0 | 1 | 0 | 1 | 2 |
| Pedraza-Flechas | 2014 | HBV | Spain | 1 | 1 | 2 | 1 | 5 |
| Caballeria | 2014 | HCV | Spain | 1 | 1 | 1 | 0 | 3 |
| Caballeria | 2014 | HCV | Spain | 1 | 1 | 0 | 0 | 2 |
| Veldhuijzen | 2009 | Both | The Netherlands | 1 | 1 | 1 | 0 | 3 |
| Slavenburg | 2008 | HCV | The Netherlands | 1 | 1 | 0 | 0 | 2 |
| Hahné | 2012 | HBV | The Netherlands | 1 | 1 | 1 | 2 | 5 |
| Vriend | 2013 | HCV | The Netherlands | 1 | 1 | 1 | 2 | 5 |
| Pepas | 2011 | Both | UK: England | 0 | 1 | 2 | 0 | 3 |
| Balogun | 2009 | HCV | UK: England & Wales | 1 | 1 | 0 | 1 | 3 |

# Estimates that were used for the pooled estimate

\* Higher quality estimate

**Supplementary Table S10.** Extracted and pooled (where possible) HBsAg prevalence estimates for pregnant women from included studies

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Author**  **(Publ. Year)** | **Geographical coverage** | **Sampling period** | **Sampling method** | **Study population details** | **Age range** | **Sample size** | **Prevalence estimate (95%CI)** |
| Denmark# | Moller (2014) (1) | National | 2013 | Exhaustive | National antenatal screening programme | N/R | 60,977 | 0∙3% (0∙2 - 0∙3) |
| Denmark# | Harder (2011) (2) | National | 2005-2007 | Exhaustive | National antenatal screening programme | N/R | 140,376 | 0∙3% (0∙2 - 0∙3) |
| **Denmark\*** | Pooled | Pooled | 2005-2007; 2013 | Pooled | Pooled | Pooled | 201,353 | 0∙3% (0∙2 – 0∙3) |
| **France\*** | Richaud-Eyraud (2015) (3) | National | 2011 | N/R | ELFE cohort study, national sample | 25 to 34, mean age 30 | N/R | 0∙8% (0∙6 - 1∙1) |
| France | Braillon (2010) (4) | Regional | 2006 | Random | Regional coverage, lookback study design | Mean age 29 | 1,112 | 0∙2% (0∙0 - 0∙6) |
| Germany | Lobstein (2011) (5) | Local | 2006-2010 | Exhaustive | Deliveries in one hospital | N/R | 8,193 | 0∙5% (0∙3 - 0∙7) |
| Germany | Alba-Alejandre (2008) (6) | Local | 2001-2008 | Exhaustive | Antenatal screening in Leutkirch hospitals, South Germany | N/R | 15,873 | 0∙8% (0∙7 - 1∙0) |
| **Greece\*** | Papaevangelou (2006) (7) | National | 2003 | Exhaustive | National antenatal screening programme | N/R | 3,384 | 2∙9% (2∙4 -3∙5) |
| Greece | Karatapanis (2012) (8) | Local | 2009-2011 | Exhaustive | Antenatal screening attendees | Mean age 27∙2 | 1,304 | 1∙2% (0∙6 - 1∙9) |
| Greece | Karatapanis (2012) (76) | Local | 2009-2011 | Exhaustive | Antenatal screening non-attendees screened post-partum | Mean age 26∙6 | 1,000 | 5∙3% (4∙0 - 6∙9) |
| Greece | Elefsiniotis (2010) (9) | Local | 2008-2009 | Exhaustive | Consecutive women delivering at the ObGyn department | N/R | 1,826 | 3∙8% (3∙0 - 4∙8) |
| Greece | Kafkoula (2009) (10) | Local | 2005-2007 | Exhaustive | Antenatal screening at Thriassio General Hospital | N/R | 2,188 | 0∙0% (0∙0 - 0∙3) |
| Greece | Betsas (2006) (11) | Local | 2004 | Exhaustive | Attendees of the University of Thessaloniki antenatal clinic | Mean age 32∙3 (Greek-born); 27∙1 (Migrant) | 544 | 3∙5% (2∙1 - 5∙4) |
| Ireland | Connell (2010) (12) | Local | 2004-2009 | Exhaustive | Antenatal screening lab data from Galway hospital | N/R | 24,008 | 0∙2% (0∙2 - 0∙4) |
| Italy# | Spada (2014) (13) | Multi-centre | 2008-2009 | Exhaustive | Multi-centre study in 41 hospitals across 13 regions | 14 to 53 | 16,858 | 0∙9% (0∙7 - 1∙0) |
| Italy# | Ruffini (2014) (14) | Regional | 2011-2012 | Exhaustive | Regional study, one-third migrant women | >17 | 10,093 | 0∙8% (0∙6 - 1∙0) |
| **Italy\*** | Pooled | Pooled | 2008-2009; 2011-2012 | Pooled | Pooled | Pooled | 26,951 | 0∙8% (0∙7 – 1∙0) |
| The Netherlands# | Op de Coul (2011) (15) | National | 2006 | Exhaustive | National antenatal screening programme | N/R | 186,137 | 0∙3% (0∙3 - 0∙4) |
| The Netherlands# | Op de Coul (2011) (15) | National | 2007 | Exhaustive | National antenatal screening programme | N/R | 190,140 | 0∙3% (0∙3 - 0∙3) |
| The Netherlands# | Op de Coul (2011) (15) | National | 2008 | Exhaustive | National antenatal screening programme | N/R | 185,941 | 0∙4% (0∙4 - 0∙4) |
| **The Netherlands\*** | Pooled | Pooled | 2006-2008 | Pooled | Pooled | Pooled | 562,218 | 0∙3% (0∙3 – 0∙4) |
| **Norway\*** | Kristiansen (2009) (16) | Regional | 2003-2004 | Exhaustive | Multi-centre study in all hospitals and delivery rooms in Northern Norway | 16 to 44, mean age 29∙3 | 1,668 | 0∙1% (0∙0 - 0∙3) |
| Slovakia | Kristian (2013) (17) | Regional | 2008-2009 | Convenience | Residual serum samples from regional departments of clinical microbiology, Eastern Slovakia | N/R | 13,798 | 2∙1% (1∙9 - 2∙4) |
| Slovakia | Kristian (2010) (18) | Regional | 2000-2004 | Convenience | Residual serum samples from nine regional departments of clinical microbiology, Eastern Slovakia | N/R | 10,739 | 2∙3% (2∙1 - 2∙6) |
| **Spain\*** | Salleras (2009) (19) | Regional | 2008-2009 | Random /  Exhaustive | Regional antenatal screening programme | 15 to 49 | 1,534 | 0∙1% (0∙0 - 0∙5) |
| Spain | Lopez-Fabal (2013) (20) | Local | 2007-2010 | Convenience | Study in a hospital and a health centre in Madrid | 19 to 49, mean age 30 | 6,939 | 0∙9% (0∙6 - 1∙1) |
| Spain | Sampedro (2010) (21) | Local | 2007-2008 | Exhaustive | Single centre study, 8∙4% migrants | N/R | 4,169 | 0∙6% (0∙4 - 0∙9) |
| United Kingdom# | Schnier (2014) (22) | National | 2009-2010 | Exhaustive | Antenatal screening from 4 laboratories (covering 60% of Scottish population) | 15 to 44 | 129,171 | 0∙3% (0∙3 - 0∙3) |
| United Kingdom# | Godbole (2013) (23) | Local | 2007-2010 | Exhaustive | Antenatal screening in 4 London hospitals | 15 to 46, mean age 29 | 38,227 | 1∙0% (0∙9 - 1∙2) |
| United Kingdom | Pepas (2011) (24) | Local | 2003 | N/R | Antenatal screening at Guy & St Thomas Hospital, London | N/R | 25,082 | 1∙4% (1∙3 - 1∙6) |
| **United Kingdom\*** | Pooled | Pooled | 2007-2010 | Pooled | Pooled | Pooled | 167,398 | 0∙5% (0∙4 – 0∙5) |

# Estimates that were used for the pooled estimate

\* Higher quality estimate

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**Supplementary Table S11.** Extracted and pooled (where possible) anti-HCV prevalence estimates for pregnant women from included studies

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Author (Publ. Year)** | **Geographical coverage** | **Sampling period** | **Sampling method** | **Study population details** | **Age range** | **Sample size** | **Prevalence estimate (95%CI)** |
| Austria | Diab-Elschahawi (2013) (1) | Local | 2009-2011 | Exhaustive | Universal antenatal screening at Vienna University Hospital | 18 to 43 | 4,222 | 1∙7% (1∙4 - 2∙2) |
| Greece | Kafkoula (2009) (2) | Local | 2005-2007 | Exhaustive | Antenatal screening at Thriassio General Hospital | N/R | 2,188 | 1∙3% (0∙9 - 1∙8) |
| Ireland | Lambert (2013) (3) | Local | 2007-2008 | Exhaustive | Antenatal care attendees of Rotunda hospital | N/R | 8,976 | 0∙9% (0∙7 - 1∙1) |
| Ireland | Martyn (2011) (4) | Local | 2006 | Exhaustive | Deliveries at a single hospital | N/R | 4,666 | 1∙4% (1∙1 - 1∙8) |
| Ireland | Martyn (2011) (4) | Local | 2007 | Exhaustive | Deliveries at a single hospital | N/R | 9,222 | 0∙7% (0∙6 - 0∙9) |
| Italy | Ruffini (2014) (5) | Regional | 2011-2012 | Exhaustive | Regional study, one third migrant women | >17 | 9,977 | 0∙4% (0∙3 - 0∙5) |
| Italy | Veronesi (2007) (6) | Local | 1996-2001 | Exhaustive | All deliveries at the hospital in Palma | N/R | 13,025 | 0∙8% (0∙7 - 1∙0) |
| Italy | Lagana (2015) (7) | Local | 2003-2013 | Convenience | Out-patient clinic attendees, mostly migrant women | N/R | 320 | 0∙9% (0∙2 - 2∙7) |
| The Netherlands | Urbanus (2011) (8) | Local | 2003 | Random | Antenatal screening in Amsterdam, 64% non-Dutch | >15 | 4,563 | 0∙3% (0∙2 - 0∙5) |
| Norway | Kristiansen (2009) (9) | Regional | 2003-2004 | Exhaustive | Multi-centre study in all hospitals and delivery rooms in Northern Norway | 16 to 44, mean age 29∙3 | 1,668 | 0∙9% (0∙5 - 1∙5) |
| Slovenia | Kopilovic (2015) (10) | National | 2013 | Exhaustive | Residual sera from antenatal screening | N/R | 9,574 | 0∙1% (0∙1 - 0∙2) |
| Slovenia | Kopilovic (2015) (10) | National | 2009 | Exhaustive | Residual sera from antenatal screening | N/R | 8,064 | 0∙1% (0∙0 - 0∙2) |
| Slovenia | Kopilovic (2015) (10) | National | 2003 | Exhaustive | Residual sera from antenatal screening | N/R | 7,281 | 0∙2% (0∙1 - 0∙3) |
| Slovenia | Kopilovic (2015) (10) | National | 2003, 2009 & 2013 | Exhaustive | Residual sera from antenatal screening | N/R | 24,919 | 0∙1% (0∙1 - 0∙2) |
| Spain | Seisdedos (2011) (11) | Multi-centre  (6 regions) | 2012 | Random | HIV- women screened in 6 regions | N/R | 8,555 | 0∙2% (0∙1 - 0∙3) |

# Estimates that were used for the pooled estimate

\* Higher quality estimate

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**Supplementary Table S12.** Risk of bias assessment and characteristics of the studies in pregnant women included in the HBV and HCV prevalence analysis

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Study Characteristics*** | | | | ***Risk of Bias Assessment*** | | |
| **Authors** | **Publication Year** | **Virus** | **Country** | **Sampling method  (0 or 1)** | **Population coverage (0, 1 or 2)** | **Total Score**  **(0 - 3)** |
| Diab-Elschahawi | 2013 | HCV | Austria | 1 | 0 | 1 |
| Moller | 2014 | HBV | Denmark | 1 | 2 | 3 |
| Harder | 2011 | HBV | Denmark | 1 | 2 | 3 |
| Braillon | 2010 | HBV | France | 1 | 0 | 1 |
| Richaud-Eyraud | 2015 | HBV | France | 1 | 1 | 2 |
| Alba-Alejandre | 2009 | HBV | Germany | 1 | 0 | 1 |
| Lobstein | 2011 | HBV | Germany | 1 | 0 | 1 |
| Papaevangelou | 2006 | HBV | Greece | 1 | 2 | 3 |
| Betsas | 2006 | HBV | Greece | 1 | 0 | 1 |
| Kafkoula | 2009 | Both | Greece | 1 | 0 | 1 |
| Elefsiniotis | 2010 | HBV | Greece | 1 | 0 | 1 |
| Karatapanis | 2012 | HBV | Greece | 1 | 0 | 1 |
| Karatapanis | 2012 | HBV | Greece | 1 | 0 | 1 |
| Martyn | 2011 | HCV | Ireland | 1 | 0 | 1 |
| Martyn | 2011 | HCV | Ireland | 1 | 0 | 1 |
| O'Connell | 2010 | HBV | Ireland | 1 | 0 | 1 |
| Lambert | 2013 | HCV | Ireland | 1 | 0 | 1 |
| Veronesi | 2007 | HCV | Italy | 1 | 0 | 1 |
| Lagana | 2015 | Both | Italy | 0 | 0 | 0 |
| Spada | 2011 | HBV | Italy | 1 | 2 | 3 |
| Ruffini | 2014 | HBV | Italy | 1 | 1 | 2 |
| Ruffini | 2014 | HCV | Italy | 1 | 1 | 2 |
| Kristiansen | 2009 | HBV | Norway | 1 | 1 | 2 |
| Kristian | 2010 | HBV | Slovakia | 0 | 1 | 1 |
| Kristian | 2013 | HBV | Slovakia | 0 | 1 | 1 |
| Kopilovic | 2015 | HCV | Slovenia | 1 | 2 | 3 |
| Kopilovic | 2015 | HCV | Slovenia | 1 | 2 | 3 |
| Kopilovic | 2015 | HCV | Slovenia | 1 | 2 | 3 |
| Kopilovic | 2015 | HCV | Slovenia | 1 | 2 | 3 |
| Kopilovic | 2015 | HCV | Slovenia | 1 | 2 | 3 |
| Lopez-Fabal | 2013 | HBV | Spain | 0 | 1 | 1 |
| Seisdedos | 2011 | HCV | Spain | 1 | 2 | 3 |
| Sampedro | 2010 | HBV | Spain | 1 | 0 | 1 |
| Salleras | 2009 | HBV | Spain | 1 | 1 | 2 |
| Op de Coul | 2011 | HBV | The Netherlands | 1 | 2 | 3 |
| Op de Coul | 2011 | HBV | The Netherlands | 1 | 2 | 3 |
| Op de Coul | 2011 | HBV | The Netherlands | 1 | 2 | 3 |
| Urbanus | 2011 | HCV | The Netherlands | 1 | 0 | 1 |
| Pepas | 2011 | Both | UK, England | 1 | 0 | 1 |
| Godbole | 2013 | HBV | UK, England | 1 | 1 | 2 |
| Schnier | 2014 | HBV | UK, Scotland | 1 | 1 | 2 |

**Supplementary Table S13.** Data used forHBsAg and anti-HCV prevalence estimate for the EU/EAA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Countries** | **Total Population\*** | **HBV prevalence estimate (95%CI)** | **Estimated number of chronic HBV cases** | **HCV prevalence estimate (95%CI)** | **Estimated number of chronic HCV cases** | **Source HBV prevalence estimate** | **Source HCV prevalence estimate** |
| **Austria** | 8,506,889 | 0∙099% (0∙072 – 0∙132) | 8,422 | 0∙039% (0∙023 – 0∙061) | 2,322 | Blood donor data | Blood donor data |
| **Belgium** | 11,203,992 | 0∙7% (0∙5-0∙8) | 78,428 | 0∙1% (0∙0-0∙4) | 7,843 | Higher-quality estimates | Higher-quality estimates |
| **Bulgaria** | 7,245,677 | 3∙224% (3∙039 - 3∙418) | 233,601 | 0∙342% (0∙282 – 0∙410) | 17,346 | Blood donor data | Blood donor data |
| **Croatia** | 4,246,809 | 0∙7% (0∙5-0∙9) | 29,728 | 0∙9% (0∙6-1∙5) | 26,755 | Higher-quality estimates | Higher-quality estimates |
| **Cyprus** | 858,000 | 0∙441% (0∙270 - 0∙681) | 3784 | 0∙221% (0∙106 – 0∙405) | 1,327 | Blood donor data | Blood donor data |
| **Czech Republic\*\*** | 10,512,419 | 0∙6% (0∙34-0∙99) | 63,075 | 0∙216% (0∙177 – 0∙261) | 15,895 | Higher-quality estimates | Blood donor data |
| **Denmark** | 5,627,235 | 0∙016% (0∙004 – 0∙040) | 900 | 0∙016% (0∙004 – 0∙040) | 630 | Blood donor data | Blood donor data |
| **Estonia** | 1,315,819 | 0∙267% (0∙128 – 0∙490) | 3,513 | 0∙959% (0∙673 – 1∙326) | 8,833 | Blood donor data | Blood donor data |
| **Finland** | 5,451,270 | 0∙000% (0∙000 – 0∙019) | 0 | 0∙025% (0∙008 – 0∙059) | 954 | Blood donor data | Blood donor data |
| **France** | 65,835,579 | 0∙7% (0∙5-0∙9) | 460,849 | 0∙8% (0∙7-1∙1) | 368,679 | Higher-quality estimates | Higher-quality estimates |
| **Germany** | 80,767,463 | 0∙4% (0∙3-0∙5) | 323,070 | 0∙4% (0∙3-0∙5) | 226,149 | Higher-quality estimates | Higher-quality estimates |
| **Greece** | 10,926,807 | 3∙3% (2∙2-4∙7 | 360,585 | 2∙2% (1∙3-3∙4) | 168,273 | Higher-quality estimates | Higher-quality estimates |
| **Hungary** | 9,877,365 | 0∙4% (0∙1-1∙0) | 39,509 | 0∙5% (0∙2-1∙1) | 34,571 | Higher-quality estimates | Higher-quality estimates |
| **Iceland** | 325,671 | 0∙072% (0∙002 – 0∙398) | 234 | 0∙000% (0∙000 – 0∙264) | 0 | Blood donor data | Blood donor data |
| **Ireland** | 4,605,501 | 0∙1% (0∙0-0∙4) | 4,606 | 0∙1% (0∙0-0∙4) | 3,224 | Higher-quality estimates | Higher-quality estimates |
| **Italy** | 60,782,668 | 0∙7% (0∙4-1∙0) | 425,479 | 5∙9% (5∙2-6∙6) | 2,510,324 | Higher-quality estimates | Higher-quality estimates |
| **Latvia\*\*\*** | 2,001,468 | 1,127% | 22,557 | 2∙4% (1∙7-3∙3) | 33,625 | Blood donor data | Higher-quality estimates |
| **Liechtenstein** | 37,129 | - | - | - | - | - | - |
| **Lithuania** | 2,943,472 | 0∙560% (0∙468 – 0∙665) | 16,483 | 2∙9% (2∙10-3∙85) | 59,752 | Blood donor data | Lower-quality estimates |
| **Luxembourg** | 549,680 | 0∙000% (0∙000 – 0∙406) | 0 | 0∙221% (0∙027 – 0∙794) | 850 | Blood donor data | Blood donor data |
| **Malta** | 425,384 | 0∙174% (0∙047 – 0∙445) | 740 | 0∙043% (0∙001 – 0∙242) | 128 | Blood donor data | Blood donor data |
| **The Netherlands** | 16,829,289 | 0∙2% (0∙1-0∙4) | 33,659 | 0∙1% (0∙0-0∙2) | 11,781 | Higher-quality estimates | Higher-quality estimates |
| **Norway** | 5,107,970 | 0∙028% (0∙009 – 0∙065) | 1,430 | 0∙033% (0∙012 – 0∙073) | 1,180 | Blood donor data | Blood donor data |
| **Poland** | 38,017,856 | 0∙450% (0∙425 – 0∙476) | 171,080 | 2∙9% (2∙4-3∙5) | 771,762 | Blood donor data | Lower-quality estimates |
| **Portugal\*\*\*** | 10,427,301 | 0∙094% | 9,802 | 0∙165% | 12,044 | Blood donor data | Blood donor data |
| **Romania** | 19,947,311 | 4∙4% (4∙0-4∙8) | 877,682 | 3∙2% (2∙9-3∙6) | 446,820 | Higher-quality estimates | Higher-quality estimates |
| **Slovakia** | 5,415,949 | 1∙1% (0∙7-1∙6) | 59,575 | 2∙0% (1∙4-2∙7) | 75,823 | Higher-quality estimates | Higher-quality estimates |
| **Slovenia** | 20,61,085 | 0∙087% (0∙043 – 0∙155) | 1,793 | 0∙016% (0∙002 – 0∙057) | 231 | Blood donor data | Blood donor data |
| **Spain** | 46,512,199 | 0∙8% (0∙6-1∙1) | 372,098 | 1∙1% (0∙3-2∙8) | 358,144 | Higher-quality estimates | Higher-quality estimates |
| **Sweden** | 9,644,864 | 0∙043% (0∙026 – 0∙065) | 4,147 | 0∙059% (0∙040 – 0∙085) | 3,983 | Blood donor data | Blood donor data |
| **United Kingdom** | 64,308,261 | 1∙7% (1∙3-2∙2) | 1,093,240 | 0∙9% (0∙7-1∙1) | 405,142 | Lower-quality estimates | Lower-quality estimates |
| ***Total*** | ***512,318,382*** | ***0∙9% (0∙7-1∙2)*** | ***4,700,068*** | ***1∙1% (0∙9-1∙4)*** | ***5,574,391*** | **-** | **-** |

\* Eurostat 2014  
\*\* Back-calculated 95%CI from reported prevalence and sample size  
\*\*\* No sample size reported