Table S1: Countries where protein-based meningococcal B vaccines have been approved as of April 2021.

		Bexs	sero®	Trumenba®		
WHO Region	Country	Approved	Approval year	Approved	Approval year	
Africa	South Africa	X	-	✓	2019	
Americas	Argentina	<b>√</b>	2015	✓	2019	
	Brazil	<b>√</b>	2015	<b>√</b>	2019	
	Canada	<b>√</b>	2013	<b>√</b>	2017	
	Chile	<b>√</b>	2014	<b>√</b>	2018	
	Colombia	×	-	<b>√</b>	2019	
	Costa Rica	×	-	<b>√</b>	2019	
	Dominican Republic	X	-	<b>√</b>	2018	
	Guatemala	X	-	<b>√</b>	2018	
	Panama	×	-	<b>√</b>	2018	
	Peru	X	-	<b>√</b>	2019	
	United States of America	<b>√</b>	2015	✓	2014	
	Uruguay	<b>√</b>	2014	X	-	
Eastern Mediterranean	Kuwait	×	-	<b>√</b>	2019	
	Saudi Arabia	✓	2020	X*	-	
	United Arab Emirates	<b>√</b>	NA	X	-	
Europe	Andorra	<b>√</b>	2013	X	-	
	Austria	<b>√</b>	2013	<b>√</b>	2017	
	Belarus	X	-	<b>√</b>	2018	
	Belgium	<b>√</b>	2013	<b>√</b>	2017	
	Bulgaria	✓	2013	✓	2017	
	Croatia	✓	2013	<b>√</b>	2017	
	Cyprus	✓	2013	<b>√</b>	2017	
	Czech Republic	✓	2013	✓	2017	
	Denmark	✓	2013	✓	2017	
	Estonia	✓	2013	✓	2017	
	Finland	<b>√</b>	2013	✓	2017	
	France	<b>√</b>	2013	✓	2017	
	Germany	✓	2013	✓	2017	
	Greece	<b>✓</b>	2013	✓	2017	
	Hungary	<b>√</b>	2013	✓	2017	
	Iceland	<b>√</b>	2013	✓	2017	
	Ireland	<b>√</b>	2013	✓	2017	

		Bexs	sero®	Trumenba®		
WHO Region	Country	Approved	Approval year	Approved	Approval year	
	Israel	✓	2016	✓	2020	
	Italy	✓	2013	<b>✓</b>	2017	
	Kazakhstan	×	-	✓	2019	
	Latvia	✓	2013	✓	2017	
	Liechtenstein	✓	2013	<b>✓</b>	2017	
	Lithuania	✓	2013	✓	2017	
	Luxembourg	✓	2013	<b>✓</b>	2017	
	Malta	✓	2013	<b>√</b>	2017	
	Netherlands	✓	2013	<b>√</b>	2017	
	Norway	✓	2013	<b>√</b>	2017	
	Poland	✓	2013	<b>√</b>	2017	
	Portugal	✓	2013	<b>√</b>	2017	
	Romania	✓	2013	<b>√</b>	2017	
	San Marino	✓	2013	<b>√</b>	2017	
	Slovakia	✓	2013	<b>✓</b>	2017	
	Slovenia	✓	2013	<b>✓</b>	2017	
	Spain	✓	2013	<b>√</b>	2017	
	Sweden	✓	2013	<b>✓</b>	2017	
	Switzerland	✓	2017	X	-	
	Turkey	✓	2018	X*	-	
	United Kingdom	✓	2013	<b>✓</b>	2017	
Western Pacific	Australia	✓	2013	<b>✓</b>	2017	
	Hong Kong	✓	2019	<b>✓</b>	2018	
	New Zealand	✓	2018	X	-	
	Singapore	X	-	<b>✓</b>	2017	

<sup>\*</sup> Currently undergoing evaluation for approval.

 $<sup>\</sup>mathbf{X}$  = Not approved;  $\checkmark$  = Approved.

Table S2: Recommended vaccination schedules for Bexsero® according to the manufacturer (GlaxoSmithKline), by age at first dose. This information was obtained from GSK's product monograph (https://ca.gsk.com/media/6309/bexsero.pdf).

Age at first dose	Recommended schedule	Boosters
2 to 5 months	3 doses at least 1 month apart OR 2 doses at least 2 months apart	1 dose in the 2 <sup>nd</sup> year of life, at least 6 months after the previous dose
6 to 11 months	2 doses at least 2 months apart	1 dose in the 2 <sup>nd</sup> year of life, at least 2 months after the previous dose
12 to 23 months	2 doses at least 2 months apart	1 dose 12-23 months after the previous dose
2 years and older	2 does at least 1 month apart	1 dose if at risk, as per guideline recommendations

Note: Pfizer's recommended vaccination schedule for Trumenba $^{\text{®}}$  is not tabulated here because all relevant details are reported in the main article given the lack of variation by age.

Table S3: Policies for the use of meningococcal B (MenB) vaccines in 24 countries where at least one protein-based MenB vaccine (i.e. Bexsero® and Trumenba®) is approved. For each country, the following details are reported: 1) approval status of Bexsero® and Trumenba®, along with their respective approval years and indication for use as per the regulatory authority; 2) year of first introduction of a national policy for the use of MenB vaccines; 3) target groups for whom MenB vaccination is recommended as per the national policy, along with the timing and number of doses included in the dosing schedule, where specified. Any changes to the national policy that occurred after its first introduction are also reported where relevant. Dosing schedules listed reflect most up to date vaccination policy reports obtained by our research team. The current dosing recommendations may have changed or may not have been publicly available.

G . 1	Approved M	IenB vaccines		National vaccination policy
Country	Bexsero®	Trumenba <sup>®</sup>	Year	Target group and recommended schedule
Andorra	Approval: 2013 Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2016	Recommended for the following groups:  1) All infants 2) Individuals with medical risk conditions (splenectomized), but subject to a fee.  Schedule: in infants, first 2 doses of Bexsero® recommended at age 2 and 4 months, respectively, followed by a third booster dose at age 13 months. Dosing schedule for other age groups not specified.
Australia	Approval: 2013 Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2020	Recommended for the following groups:  1) Indigenous children (Aboriginal and Torres Strait Islanders) from 6 weeks of age, with a 3-year catch-up program for indigenous children aged less than 2 years old until June 30, 2023.  2) Individuals with medical risk conditions (asplenia, hyposplenia, complement deficiency, individuals undergoing treatment with eculizumab, HIV infection regardless of CD4+ cell count, individuals receiving hematopoietic stem cell transplantation).  Schedule: 3 doses of Bexsero®, administered at age 2, four and 12 months for indigenous children; 2 doses 1-2 months apart in older children and adults.  Note: In the state of South Australia, a MenB immunization program for all infants was introduced in 2018, followed by the implementation of a school-based immunization program with Bexsero® targeting children aged 15-16 years.
Austria	Approval: 2013 Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2017	Recommended for the following groups:  1) All infants, but subject to a fee, with catch-up vaccinations until age 18. Recommendation introduced in 2020.  2) Individuals with medical risk conditions (congenital or acquired immunodeficiencies with residual T- and/or B-cell function, hypogammaglobulinemia, asplenia, splenectomy, at least 2 weeks prior to initiation of treatment with eculizumab, at least 1 month prior to initiation of treatment with severe B- and/or T-cell immunosuppressive/biological therapy).  3) Individuals at increased risk of exposure (household contacts of cases, men who have sex with men, laboratory staff in contact with meningococcal isolates, healthcare workers from pediatric/infectious disease/intensive care units, military personnel).  Schedule: in infants, first dose of Bexsero® required at age 3 months, followed by 2 doses 1 month apart given at age 4-6 months. For catch-up vaccination between age 6 and 18 and in adults at risk, only 2 doses are required. Trumenba® can be given from age 10 onwards with 2 doses 6 months apart.
Brazil	Approval: 2015  Indication: age 2 months to 50 years	Approval: 2019 Indication: age 10 years and older	2015	Recommended by the Brazilian Pediatric Society, but subject to a fee, for the following groups:  1) Infants and toddlers under 2 years of age. 2) Children older than 2 years of age and adolescents.  Schedule: in children under 2 years of age, 2 doses of Bexsero® 2 months apart (at 3 and 5 months of age), followed by a booster dose in the second year of life (12-15 months of age); in children older than 2 and in adolescents, 2 doses of Bexsero® 2 months apart.

G 1	Approved M	IenB vaccines		National vaccination policy
Country	Bexsero®	Trumenba®	Year	Target group and recommended schedule
Canada	Approval: 2013  Indication: age 2 months to 25 years.	Approval: 2017 Indication: age 10 to 25 years.	2014	Recommended for the following groups:  1) Children from birth to 17 years of age with underlying medical conditions.  2) Individuals aged 18 years and older with medical risk conditions (congenital or acquired complement deficiencies, functional or anatomic asplenia, individuals starting treatment with eculizumab; could be considered in case of HIV infection).  3) Individuals with increased risk of exposure (household contacts, laboratory personnel with routine exposure to meningococcal isolates, military personnel).  Bexsero® or Trumenba® recommended in certain jurisdictions for outbreak control or if hypervirulent strains emerge.  Schedule: in infants, 2 to 3 doses of Bexsero® 2 months apart + booster dose during the second year of life; in children 1-10 years of age, 2 doses of Bexsero® at least 2 months apart; in children >10 years of age and in adults, 2 doses of Bexsero® at least 1 month apart. If Trumenba® is utilized, the first 2 doses are to be given 1 month apart, followed by a 3rd dose within 6 months since the start of the cycle.
Czech Republic	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2020	Recommended for the following groups:  1) All infants (fully reimbursed if immunization is started before age 6 months).  2) Children and adults with medical risk conditions (impaired spleen function, after hematopoietic cell transplantation, congenital or acquired immunodeficiencies, after an invasive meningococcal or pneumococcal infection).  Schedule: first dose of Bexsero® at age 2-3 months, second dose at age 4-6 months, third dose at age 12-15 months. Dosing schedule for other risk groups not specified.
Finland	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2020	Recommended for the following groups:  1) Individuals with medical risk conditions (complement deficiencies, individuals starting treatment with eculizumab or ravulizumab, spleen deficiency, spleen failure including patients with sickle cell anemia and those with chronic graft-versus-host-disease following stem cell transplantation).  Schedule: in infants and children under age 2 years, 2-3 doses of Bexsero® at least 1-2 months apart, plus a possible booster dose; 2 doses at least 1 month apart in individuals older than 2 years of age.
France	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older Note: not in the market	2014	Recommended for the following groups:  1) All infants. Recommendation introduced in 2021.  2) Individuals with medical risk conditions (complement deficiencies, individuals receiving anti-C5 treatments, functional or anatomic asplenia, after hematopoietic cell transplantation).  3) Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates).  Schedule: in infants 2 doses of Bexsero® at least 2 months apart, plus a booster dose at age 12-15 months or during the second year of life; in toddlers 1-2 years old, 2 doses at least 2 months apart, followed by a booster dose 12-23 months later; in children aged 2 and older, 2 doses at least 1 month apart, with a booster dose every 5 years. Individuals aged 10 years and older can be vaccinated with either Bexsero® or Trumenba®, and the latter should be given as per manufacturer's recommendations (2 or 3-dose schedule).
Germany	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2014	<ul> <li>Recommended for the following groups:         <ul> <li>Individuals with medical risk conditions (complement deficiencies, individuals starting treatment with eculizumab, asplenia, hypogammaglobulinemia</li> <li>Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates).</li> </ul> </li> <li>Schedule: 3 doses of Bexsero® in infants aged 2-5 months; 2 doses in children aged ≥ 6 months and in adults. Trumenba® can be given instead of Bexsero® to those aged 10 years and older, as per manufacturer's instructions (2- or 3-dose schedule).</li> </ul>

G . 1	Approved M	Approved MenB vaccines		National vaccination policy			
Country	Bexsero®	Bexsero® Trumenba®		Target group and recommended schedule			
Greece	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2017	Recommended for the following groups:  1) Infants, children, and adolescents with medical risk conditions (anatomical or functional asplenia, congenital or acquired complement deficiencies, individuals starting treatment with eculizumab).  Schedule: for Bexsero®, 3 doses at least 1 month apart are required if vaccination starts within age 6 months, followed by a booster dose at least 6 months later. 2 doses at least 2 months apart if vaccination starts between age 6 and 11 months, with a booster dose during the second year of life. 2 doses 2 months apart in older children up to age 10. 2 doses 1 month apart in children aged 11 and older. A 3-dose schedule is recommended for Trumenba® (0, 1-2, 6 months).			
Hungary	Approval: 2013  Indication: age 2 months and older	Approval: 2017  Indication: age 10 years and older	2018	Recommended but subject to a fee, for the following groups:  1) Individuals under the age of 25. 2) Children and adults with medical risk conditions (asplenia, immunodeficiencies).  Schedule: in infants 3 doses of Bexsero® 1 month apart are required, followed by a booster dose during the second year of life; children aged 1 or older and adults need 2 doses 1 month apart. Trumenba® can be used in individuals aged 10 years and older as per manufacturer's instructions (2- or 3-dose schedule).			
Ireland	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2016	Recommended for the following groups:  1) All infants. 2) Individuals with medical risk conditions (impaired spleen function, prior to treatment with complement inhibitors, after hematopoietic stem cell transplantation, 6-months post-chemotherapy in children, certain solid organ transplant recipients). 3) Individuals at increased risk of exposure (laboratory personnel working with meningococcal isolates, household contacts of MenB cases).  Schedule: in infants 3 doses of Bexsero® are required, given at 2, 4 and 12 months of age. For children aged 1 and older, 2 doses are needed. Trumenba® available for use starting at age 10 (2 doses 6 months apart).			
Italy	Approval: 2013  Indication: age 2 months and older	Approval: 2017  Indication: age 10 years and older	2017	Recommended for the following groups:  1) All infants.  Schedule: 4 doses of Bexsero® if vaccination cycle is started before 6 months of age, to be given at age 3, 5, 6 and 13-15 months.			
Lithuania	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2015	Recommended for the following groups:  1) All infants. 2) Individuals with medical risk conditions (asplenia, prior to treatment with complement inhibitors, after hematopoietic stem cell transplantation, kidney disease).  Schedule: in infants, 3 doses of Bexsero® to be given at age 3, 5, and 12-15 months. For older individuals, 2 doses of Bexsero® 2 months apart (booster dose after 5 years also recommended to individuals with asplenia).			

G	Approved M	IenB vaccines		National vaccination policy
Country	Bexsero®	Trumenba®	Year	Target group and recommended schedule
Malta	Approval: 2013  Indication: age 2 months and older	Approval: 2017  Indication: age 10 years and older	2020	Recommended for the following groups:  1) All infants.  Schedule: 3 doses of Bexsero® to be given at age 2, 4, and 12 months.
New Zealand	Approval: 2018  Indication: age 2 months and older	Not approved	2020	Recommended, but subject to a fee, for the following groups:  1) All infants, children and adults with medical risk conditions (congenital or acquired complement deficiencies, functional or anatomical asplenia, HIV infection, after hematopoietic stem cell transplantation, individuals receiving immunosuppressive treatments).  2) Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates, individuals living in communal or overcrowded accommodations).  Schedule: in infants, 2 doses of Bexsero® 2 months apart, followed by a booster dose during the second year of life; in children aged 1-10 years, 2 doses 2 months apart; in individuals aged 11-50 years, 2 doses 1 month apart.
Norway	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2014	Recommended for the following groups:  1) Individuals with medical risk conditions (asplenia, congenital or acquired complement deficiencies, individuals starting treatment with eculizumab).  2) Individuals with increased risk of exposure (close contacts of cases, laboratory personnel working with meningococcal isolates, travel to areas with higher incidence of meningococcal B disease, adolescents participating in large gatherings, men who have sex with men).  Schedule: in infants 3 doses of Bexsero® are required (2 doses 2 months apart, and a third dose 6-8 months later); in children 1-2 years old, 2 doses 2 months apart are needed; in children older than 2, 2 doses 1 month apart. Trumenba® can be utilized in individuals aged 10 and older as per manufacturer's recommendations (2- or 3-dose schedule).
Poland	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2018	Recommended, but subject to a fee. for the following groups:  1) All infants. Recommendation introduced in 2020,  2) Children and adults with medical risk conditions (congenital immunodeficiencies, functional or anatomical asplenia, HIV infection, individuals starting treatment with eculizumab, after hematopoietic stem cell transplantation, certain malignancies and rheumatic diseases).  3) Children and adults with increased risk of exposure (close contacts of cases, laboratory personnel, individuals living in overcrowded communities).  Schedule: vaccines to be administered as per manufacturer's instructions; no further details provided.
Portugal	Approval: 2013  Indication: age 2 months and older	Approval: 2017  Indication: age 10 years and older	2020	Recommended for the following groups:  1) All infants. 2) Individuals under age 50 with medical risk conditions (functional or anatomical asplenia, hyposplenia, congenital complement deficiencies, individuals starting treatment with eculizumab).  Schedule: in infants, 2 doses of Bexsero® at least 2 months apart (2 and 4 months of age), followed by a booster dose during the second year of life (12 months of age); in children 1-2 years of age, 2 doses 2 months apart, with a booster dose by the age of 5; children > 2 years old, 2 doses 2 months apart. Trumenba® can be given starting at age 10 as per manufacturer's instructions.

G .	Approved MenB vaccines		National vaccination policy			
Country	Bexsero®	Trumenba <sup>®</sup>	Year	Target group and recommended schedule		
San Marino	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2017	Recommended for the following groups: 3) All infants. 4) Individuals with medical risk conditions (splenectomy).  Schedule: in infants, first 2 doses of Bexsero® to be given at 4 and 7 months of age, respectively, followed by a third booster dose to be given within the second year of life. Dosing schedule for older age groups not reported.		
Spain	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2015	Recommended for the following groups:  1) Individuals with medical risk conditions (complement deficiencies, individuals starting treatment with eculizumab, asplenia or severe spleen dysfunction).  2) Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates).  Schedule: in infants under 6 months of age, 3 doses of Bexsero® at least 1 month apart, followed by a booster dose during the second year of life; in infants older than 6 months, 2 doses at least 2 months apart, with a booster dose during the second year of life; children 1-10 years of age, 2 doses at least 2 months apart; children > 10 years and adults, 2 doses at least 1 month apart. Trumenba® can be used in individuals aged 10 and older as per manufacturer's instructions.  Note: Canary Islands and Castilla y Leon have introduced an infant immunization program in 2019.		
United Kingdom	Approval: 2013  Indication: age 2 months and older	Approval: 2017 Indication: age 10 years and older	2015	Recommended for the following groups:  1) All infants. 2) Individuals with medical risk conditions (asplenia, splenic dysfunction, complement disorders, prior to treatment with eculizumab). Recommendation introduced in 2016.  Schedule: 2 doses of Bexsero® to be given at age 2 and 4 months, followed by a booster at 12 months of age; in older children and adults, 2 doses to be given 1-2 months apart.		
United States	Approval: 2015  Indication: age 10 to 25 years	Approval: 2014 Indication: age 10 to 25 years	2015	Recommended for the following groups:  1) Individuals aged 16-23 years. 2) Individuals aged 10-25 years with medical risk conditions (persistent complement deficiencies, individuals starting treatment with complement inhibitors, anatomical or functional asplenia, HIV infection). 3) Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates, military recruits, men who have sex with men).  Schedule: 2 doses 1 month apart if Bexsero® is used; 2 doses 6 months apart if Trumenba is used in individuals aged 10 or older; for both vaccines, a booster dose is recommended under select circumstances.		
Uruguay	Approval: 2014  Indication: age 2 months and older	Not approved	2018	Recommended for the following groups:  1) Individuals with medical risk conditions (hematopoietic stem cell transplantation, child malignancies, complement deficiencies, individuals starting treatment with eculizumab, functional or anatomical asplenia, HIV infection, primary and acquired immunodeficiencies).  2) Individuals with increased risk of exposure (laboratory personnel working with meningococcal isolates).  Schedule: in infants under 6 months of age, 3 doses of Bexsero® 1 month apart, with a booster dose during the second year of life; between age 6 months and 2 years, 2 doses 2 months apart, with a booster dose 12-24 months later; children aged 2-10 years, 2 doses at least 2 months apart; from age 11 onwards, 2 doses at least 1 month apart.		