

Nirsevimab (secondary prevention of RSV infections, children during their 1st RSV season)

Resolution of: 15 August 2024 valid until: unlimited

Entry into force on: 15 August 2024 Federal Gazette, BAnz AT 02 10 2024 B2

Therapeutic indication (according to the marketing authorisation of 31 October 2022):

Beyfortus is indicated for the prevention of Respiratory Syncytial Virus (RSV) lower respiratory tract disease in neonates and infants during their first RSV season.

Beyfortus should be used in accordance with official recommendations.

Therapeutic indication of the resolution (resolution of 15 August 2024):

Prevention of Respiratory Syncytial Virus (RSV) lower respiratory tract disease in neonates and infants with an indication for secondary prevention during their first RSV season.

- 1. Additional benefit of the medicinal product in relation to the appropriate comparator therapy
- a) <u>Children with an indication for secondary prevention of lower respiratory tract infections</u> caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is indicated

Appropriate comparator therapy:

Palivizumab

Extent and probability of the additional benefit of nirsevimab compared to the appropriate comparator therapy:

An additional benefit is not proven.

b) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is not indicated</u>

Appropriate comparator therapy:

Monitoring wait-and-see approach

Extent and probability of the additional benefit of nirsevimab compared to the appropriate comparator therapy:

An additional benefit is not proven.

Study results according to endpoints:1

a) <u>Children with an indication for secondary prevention of lower respiratory tract infections</u> caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is indicated

Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/ risk of bias	Summary
Mortality	\leftrightarrow	No relevant differences for the benefit
		assessment.
Morbidity	\leftrightarrow	No relevant differences for the benefit
		assessment.
Health-related quality	Ø	No data available.
of life		
Side effects	\leftrightarrow	No relevant differences for the benefit
		assessment.

Explanations:

↑: statistically significant and relevant positive effect with low/unclear reliability of data

 \downarrow : statistically significant and relevant negative effect with low/unclear reliability of data

个个: statistically significant and relevant positive effect with high reliability of data

 $\downarrow \downarrow$: statistically significant and relevant negative effect with high reliability of data

 \varnothing : No data available.

n.a.: not assessable

MEDLEY study: RCT, nirsevimab vs palivizumab

Mortality

Study Endpoint	Nirsevimab			Palivizumab	Nirsevimab vs palivizumab
	N	Patients with event n (%)	N	Patients with event n (%)	RR [95% CI]; p value
MEDLEY (day 361)					
Overall mortality	614	5 (0.8)	304	1 (0.3)	2.48 [0.29; 21.10]; 0.449 ^{a)}

¹ Data from the dossier assessment of the IQWiG (A24-27) and from the addendum (A24-75), unless otherwise indicated.

Morbidity

Study Endpoint	Nirsevimab		Palivizumab		Nirsevimab vs palivizumab
	N	Patients with event n (%)	N	Patients with event n (%)	RR [95% Cl ^{a)}]; p value ^{a)}
MEDLEY (day 151)					
RSV-related infection of th	e lower res	piratory tract (co	mposi	te endpoint)	
Total	616	4 (0.6 ^{a)})	309	3 (1.0 ^{a)})	0.67 [0.15; 2.97]; 0.625
Hospitalisation	616	2 (0.3 ^{a)})	309	2 (0.6 ^{a)})	0.50 [0.07; 3.54]; 0.599
Primary	616	2 (0.3 ^{a)})	309	2 (0.6 ^{a)})	0.50 [0.07; 3.54]; 0.599
Nosocomial	616	0 (0 ^{a)})	309	0 (0 ^{a)})	_
Outpatient care	616	4 (0.6 a)	309	1 (0.3ª)	2.01 [0.23; 17.88]; 0.617
Accident and emergency department	616	1 (0.2 ^{a)})	309	0 (0 ^{a)})	1.51 [0.06; 36.89]; 0.573
Acute care	616	2 (0.3 ^{a)})	309	1 (0.3 ^{a)})	1.00 [0.09; 11.02]; > 0.999
Outpatient clinic	616	1 (0.2 ^{a)})	309	0 (0 ^{a)})	1.51 [0.06; 36.89]; 0.573
MEDLEY (day 361)					
RSV-related infection of th	e lower res	piratory tract (co	mposi	te endpoint)	
Total	616	12 (1.9)	309	7 (2.3)	0.86 [0.34; 2.16] ^{a)} ; 0.791 ^{a)}
Hospitalisation	616	5 (0.8)	309	3 (1.0)	0.84 [0.20; 3.48] ^{a)} ; 0.866 ^{a)}
Primary	616	-	309	_	_
Nosocomial	616	_	309	_	_
Outpatient care	616	11 (1.8ª)	309	4 (1.3 ^{a)})	1.38 [0.44; 4.30] ^{a)} ; 0.617 ^{a)}
Accident and emergency department	616	6 (0.1 ^{a)})	309	0 (0.0 ^{a)})	6.53 [0.37; 115.57] ^{a)} ; 0.089 ^{a)}

Acute care	616	3 (0.5 ^{a)})	309	1 (0.3 ^{a)})	1.50 [0.16; 14.41] ^{a)} ; 0.791 ^{a)}
Outpatient clinic	616	5 (0.8 ^{a)})	309	3 (0.1 ^{a)})	0.84 [0.20; 3.48] ^{a)} ; 0.866 ^{a)}

Health-related quality of life

No endpoints on health-related quality of life were collected.

Side effects

Study Endpoint	Nirsevimab			Palivizumab	Nirsevimab vs palivizumab	
	N	Patients with event n (%)	N	Patients with event n (%)	RR [95% CI] p value;	
MEDLEY (day 361)						
Total adverse events	(prese	ented additionally)				
	614 444 (72.3)		304	215 (70.7)	_	
Serious adverse events (SAE)						
	614	80 (13.0)	304	38 (12.5)	1.04 [0.73; 1.50] 0.870 ^{a)}	
Severe adverse events (CTCAE grade 3 or 4)						
	614	50 (8.1)	304	25 (8.2)	0.99 [0.63; 1.57] 0.979 ^{a)}	
Therapy discontinuat	Therapy discontinuation due to adverse events					
	614	1 (0.2)	304	0 (0.0)	1.49 [0.06; 36.41] 0.599 ^{a)}	

a) IQWiG's own calculation

Abbreviations used:

CTCAE = Common Terminology Criteria for Adverse Events; CI = confidence interval; N = number of patients evaluated; n = number of patients with (at least one) event; RR = relative risk; RSV = Respiratory Syncytial Virus; VR = VRSV = VR

b) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is not indicated</u>

No adequate data are available to allow an assessment of the additional benefit.

Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/ risk of bias	Summary
Mortality	n.a.	There are no assessable data.
Morbidity	n.a.	There are no assessable data.
Health-related quality	Ø	No data available.
of life		
Side effects	n.a.	There are no assessable data.

Explanations:

↑: statistically significant and relevant positive effect with low/unclear reliability of data

↓: statistically significant and relevant negative effect with low/unclear reliability of data

↑↑: statistically significant and relevant positive effect with high reliability of data

 $\downarrow \downarrow$: statistically significant and relevant negative effect with high reliability of data

Approx. 52,000 – 66,000 patients

 \emptyset : No data available.

n.a.: not assessable

2. Number of patients or demarcation of patient groups eligible for treatment

- a) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is indicated</u>
- b) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is not indicated</u>

Approx. 450 patients

3. Requirements for a quality-assured application

The requirements in the product information are to be taken into account. The European Medicines Agency (EMA) provides the contents of the product information (summary of product characteristics, SmPC) for Beyfortus (active ingredient: nirsevimab) agreed upon in the context of the marketing authorisation at the following publicly accessible link (last access: 28 March 2024):

https://www.ema.europa.eu/en/documents/product-information/beyfortus-epar-product-information en.pdf

4. Treatment costs

Annual treatment costs:

a) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is indicated</u>

Designation of the therapy	Annual treatment costs/ patient		
Medicinal product to be assessed:			
Nirsevimab	€ 427.33		
Appropriate comparator therapy:			
Palivizumab	€ 5,560.14 - € 13,335.20		

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 15 July 2024)

Costs for additionally required SHI services: not applicable

b) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is not indicated</u>

Designation of the therapy	Annual treatment costs/ patient		
Medicinal product to be assessed:			
Nirsevimab	€ 427.33		
Appropriate comparator therapy:			
Monitoring wait-and-see approach	Not calculable		

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 15 July 2024)

Costs for additionally required SHI services: not applicable

Designation of medicinal products with new active ingredients according to Section 35a, paragraph 3, sentence 4 SGB V that can be used in a combination therapy with the assessed medicinal product

In the context of the designation of medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V, the following findings are made:

- a) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is indicated</u>
 - No medicinal product with new active ingredients that can be used in a combination therapy and fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.
- b) <u>Children with an indication for secondary prevention of lower respiratory tract infections caused by Respiratory Syncytial Virus (RSV) in whom palivizumab is not indicated</u>
 - No medicinal product with new active ingredients that can be used in a combination therapy that fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.

The designation of combinations exclusively serves the implementation of the combination discount according to Section 130e SGB V between health insurance funds and pharmaceutical companies. The findings made neither restrict the scope of treatment required to fulfil the medical treatment mandate, nor do they make statements about expediency or economic feasibility.