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Molecular Evolution and Increasing Macrolide Resistance of *Bordetella pertussis*, Shanghai, China, 2016–2022

Appendix 2

Appendix 2 Table 1. The age distributions of 1065 pertussis cases from 2016 to 2022 (n)

Age groups	Year						
	2016	2017	2018	2019	2020	2021	2022
0–1	11	157	174	160	9	38	82
>1–3y	0	13	7	19	0	3	31
>3–5y	0	4	1	4	0	16	49
>5–10y	0	3	2	6	0	75	183
>10y–12y	0	0	0	0	0	0	18
Total	11	177	184	189	9	132	363

Appendix 2 Table 2. The VNTRs profiles of fourteen MLVA types in this study

MLVA types	Number	MLVA profiles					
		VNTR1	VNTR3a	VNTR3b	VNTR4	VNTR5	VNTR6
MT195	76	8	6	0	7	6	8
MT28	74	8	7	0	7	6	8
MT27	59	8	7	0	7	6	7
MT104	38	8	6	0	7	6	10
MT55	18	8	6	0	7	6	9
MT158	3	8	7	0	7	7	7
MT16	3	8	6	0	7	6	7
MT29	2	8	7	0	7	6	9
MT114	2	8	7	0	7	6	4
MT30	1	8	7	0	7	6	10
MT32	1	8	7	0	8	6	7
untyped-1	1	8	7	0	8	6	14
untyped-2	4	8	6	7	7	6	5
untyped-3	1	8	6	0	7	5	3

Appendix 2 Table 3. Virulence genotype profiles and MLVA types of 283 BP isolates

Virulence genes allele and genotype profiles		MLVA types	Number	Frequency
<i>ptxP</i>	<i>ptxP1</i>	–	141	49.8%
	<i>ptxP3</i>	–	142	50.2%
<i>fhaB</i>	<i>fhaB1</i>	–	145	51.2%
	<i>fhaB3</i>	–	138	48.8%
<i>prn</i>	<i>prn1</i>	–	141	49.8%
	<i>prn2</i>	–	140	49.5%
	<i>prn3</i>	–	1	0.4%
	<i>prn9</i>	–	1	0.4%
<i>ptxC</i>	<i>ptxC1</i>	–	141	49.8%
	<i>ptxC2</i>	–	141	49.8%
	<i>ptxC3</i>	–	1	0.4%
<i>ptxA</i>	<i>ptxA1</i>	–	283	100.0%
	<i>ptxA2</i>	–	0	0.0%
<i>fim2</i>	<i>fim2-1</i>	–	283	100.0%
	<i>fim2-2</i>	–	0	0.0%
<i>fim3</i>	<i>fim3-1</i>	–	278	98.2%
	<i>fim3-2</i>	–	2	0.7%
	<i>fim3-4</i>	–	3	1.1%
<i>ptxP1/prn1/fhaB3/ptxC1/ptxA1/fim2-1/fim3-1</i>		16,27,30,55,104,195, untyped-3	138	48.7%
<i>ptxP3/prn2/fhaB1/ptxC2/ptxA1/fim2-1/fim3-1</i>		27,28,32,114,158, untyped-2	135	47.7%
<i>ptxP3/prn2/fhaB1/ptxC2/ptxA1/fim2-1/fim3-2</i>		27	3	1.1%
<i>ptxP1/prn1/fhaB1/ptxC1/ptxA1/fim2-1/fim3-4</i>		29, untyped-1	3	1.1%
<i>ptxP3/prn2/fhaB1/ptxC1/ptxA1/fim2-1/fim3-1</i>		28	2	0.7%
<i>ptxP3/prn3/fhaB1/ptxC3/ptxA1/fim2-1/fim3-1</i>		27	1	0.4%
<i>ptxP3/prn9/fhaB1/ptxC2/ptxA1/fim2-1/fim3-1</i>		28	1	0.4%