

APPENDIX 2

1. Pack dimension information

a. The following table gives an indication of the packaging dimensions for vaccines funded as at 1 July 2017.

It should be noted that packaging configuration determines the minimum order quantity for each vaccine type. If packaging configuration is one or ten doses per pack, then the minimum order quantity becomes one or ten respectively i.e. ordering is based on doses required not packs.

Vaccine	Abbreviation or common name	Proprietary name (manufacturer) of currently supplied vaccine	No of doses per pack	L (mm)	H (mm)	W (mm)
Adult Diphtheria-tetanus vaccine Booster	(Td)	ADT Booster (CSL)	5	173	102	25
Adult Diphtheria-tetanus-acellular pertussis	(Tdap)	Boostrix (GSK)	1	135	102	24
Adult Diphtheria-tetanus-acellular pertussis	(Tdap)	Boostrix (GSK)	10	178	105	30
Diphtheria-tetanus-acellular pertussisInactivated poliovirus- Hepatitis B-H. influenza type b vaccine	(DTaP-IPV- HepB/Hib)	Infanrix-hexa (GSK)	10	178	140	30
Paediatric Diphtheria-tetanus-acellular pertussis- Inactivated poliovirus vaccine	(DTaP-IPV)	Infanrix-IPV (GSK)	10	180	105	30
H. influenzae type b vaccine	(Hib)	Hiberix (GSK)	1	55	24	133
Hepatitis A vaccine paediatric	-	Havrix (GSK)	1	135	42	24
Hepatitis A vaccine (adult)	-	Harvix Junior (GSK)	1	135	42	24
Paediatric Hepatitis B vaccine 5 mcg/0.5 ml	(HepB)	HBvaxPRO (MSD)	1	85	30	30
Adult Hepatitis B vaccine 10 mcg/1.0ml	(HepB)	HBvaxPRO (MSD)	1	85	30	30
Adult Hepatitis B vaccine 40 mcg	(HepB)	HBvaxPRO (MSD)	1	85	30	30
Human papillomavirus vaccine	(HPV)	Gardasil9 (Seqirus)	10	150	95	87
MMR vaccine and diluent	(MMR)	Priorix (GSK)	10	178	142	29
Meningococcal (Groups A, C, Y and W135)	-	Menactra (Sanofi)	1	60	30	32

conjugate vaccine						
Meningococcal C conjugate vaccine	-	Neisvac-C (Pfizer)	10	110	255	30
Pneumococcal conjugate vaccine	(PCV13)	Prevenar 13 (Pfizer)	10	126	103	52
Pneumococcal conjugate vaccine	(PCV10)	Synflorix (GSK)	10	178	103	29
BCG vaccine and diluent	(BCG)	BCG Vaccine (Seqirus)	100	130	25	115
Pneumococcal polysaccharide vaccine	(23PPV)	Pneumovax 23 (MSD)	1	150	48	24
Inactivated Polio vaccine	(IPV)	IPOL (Sanofi Aventis)	1	130	32	24
Rotavirus live reassortant oral vaccine	-	Rotarix (GSK)	10	130	41	160
Varicella-zoster live attenuated vaccine	-	Varilrix (GSK)	10	142	178	29
Tuberculin PPD for Mantoux tests	-	Tubersol (Sanofi Pasteur)	10	62	37	30

Market Data

The stock on hand held by ProPharma fluctuates, however PHARMAC estimates the value of the stock held by ProPharma at any one time to be approximately \$3.5 million. Due to the potential fluctuations, PHARMAC staff estimate that a level of cover of up to NZD \$5 million per any one occurrence to be sufficient.

Table 1. Forecasted vaccines purchased (packs) and delivered (orders) to immunisation providers for financial year ending 30 June 2018.

VACCINE	Pack size	AKL	BOP	CAN	CC	CMU	HAW	HUT	LAK	MID	NLD	NLM	STH	SCA	TAI	TAR	WAK	WGI	WMA	WPA	WSC	Total packs
Bacillus Calmette-Geurin (BCG)	100 doses	63	8	9	5	0	6	11	5	3	6	5	6	2	3	5	12	0	3	0	2	150
Diphtheria and Tetanus (ADT Booster)	5 Doses	5,575	1,493	4,170	1,640	2,917	1,129	775	855	1,154	1,312	1,117	2,834	556	188	789	2,706	468	3,246	323	319	33,564
Diphtheria, Tetanus and Pertussis (Boostrix 1 Dose)	1 Dose	769	246	583	320	788	271	65	133	298	265	265	577	209	41	134	389	27	531	9	222	6,144
Diphtheria, Tetanus and Pertussis (Boostrix 10 Dose)	10 Doses	1,244	391	1,083	382	917	341	510	215	293	331	264	545	91	129	236	833	119	975	65	36	8,999
Diphtheria, Tetanus, Pertussis and Polio (Infanrix IPV)	10 Doses	798	284	689	411	878	244	218	174	268	283	185	400	74	85	180	607	72	763	63	42	6,716
Diphtheria, Tetanus, Pertussis, Polio, Hepatitis B and Haemophilus influenza type B (Infanrix-hexa)	10 Doses	2,167	778	1,906	1,108	2,339	622	579	506	649	653	422	1,075	218	248	482	1,672	238	2,085	151	97	17,995
Haemophilus influenza type B (Hiberix)	1 Dose	6,788	2,412	5,686	3,345	6,909	1,909	1,688	1,438	2,054	2,006	1,337	3,261	669	732	1,487	4,936	687	6,635	461	328	54,769
Hepatitis A (Havrix)	1 Dose	424	3	33	19	37	6	14	1	5	9	7	25	3	3	2	10	7	34	4	0	648
Hepatitis A (Havrix Junior)	1 Dose	26	5	14	10	23	2	47	1	3	7	67	6	3	2	3	8	3	23	2	0	252
Hepatitis B 5 mcg (HBvaxPRO)	1 Dose	1,579	315	1,268	700	608	165	205	129	245	209	208	360	75	34	138	491	36	1,076	30	28	7,896
Hepatitis B 10 mcg (HBvaxPRO)	1 Dose	1,886	279	1,006	454	1,810	309	220	402	258	505	197	483	20	65	53	813	274	633	23	8	9,696
Hepatitis B 40 mcg (HBvaxPRO)	1 Dose	568	17	64	145	28	16	12	0	12	51	7	67	2	3	3	203	3	57	0	0	1,260
Human Papillomavirus (Gardasil 9)	10 Doses	1,837	643	1,870	336	1,828	562	1,115	353	548	564	425	988	139	170	359	1,308	195	1,662	152	64	15,117
Measles, Mumps and Rubella (Priorix)	10 Doses	1,619	520	1,288	815	1,467	418	394	311	532	610	330	724	133	147	329	1,203	139	1,338	98	64	12,479
Meningococcal A, C, Y and W-135 (Menactra)	1 Dose	505	68	226	130	125	28	75	29	68	55	45	92	16	8	40	86	20	155	22	8	1,800
Meningococcal C (Neisvac-C)	1 Dose	31	7	8	21	21	5	30	1	8	9	0	5	1	1	4	12	0	16	0	0	180
Pneumococcal (PCV13) (Prevenar 13)	10 Doses	428	152	365	213	448	119	109	92	124	123	83	203	41	46	92	313	45	405	29	19	3,448
Pneumococcal (PCV10) (Synflorix)	10 Doses	2,529	900	2,156	1,262	2,651	703	645	542	732	725	491	1,200	241	275	542	1,851	264	2,394	169	111	20,384
Pneumococcal Polysaccharide (Pneumovax 23)	1 Dose	979	119	205	164	1,686	68	36	49	67	111	40	174	104	11	42	122	24	216	19	23	4,260
Poliomyelitis (IPOL)	1 Dose	1,362	154	474	515	388	105	174	77	266	120	269	261	23	26	77	532	48	318	6	14	5,208
Rotavirus (Rotarix)	10 Doses	1,136	389	963	571	1,202	322	306	244	330	307	215	547	109	124	243	824	115	1,062	77	47	9,134
Varicella (Varilrix)	10 doses	1,069	380	895	527	1,088	301	266	226	323	316	211	514	105	115	234	777	108	1,045	73	52	8,624
Mantoux Test (Tubersol)	10 Doses	186	32	57	33	0	38	19	9	19	33	5	89	6	3	28	45	6	2	0	10	622
Total Packs Purchased		33,538	9,581	24,990	13,107	28,119	7,677	7,504	5,785	8,250	8,600	6,187	14,420	2,837	2,455	5,494	19,726	2,896	24,639	1,774	1,491	229,068
Total Orders Distributed		2,533	941	2,339	1,160	1,764	664	553	495	692	901	692	1,536	397	181	620	1,476	260	1,796	145	133	19,278

Note that the quantity of orders does not refer to the number of packages sent – in many cases for large orders, several boxes may be required to safely distributed vaccines under cold chain conditions.

