

## Recommended Vaccine Stock Levels

In order to reduce the amount of vaccines that are discarded through cold chain events the following table has been developed to demonstrate appropriate stock levels for vaccines made available through state and commonwealth funded immunisation programs.

Number of children per cohort	50	100	200	300
<b>Number of vaccines required per fortnight</b>				
<b>Cohort 1: 6 week, 4 months and 6 month schedule points</b>				
Infanrix hexa	6	12	24	36
Rotarix	4	8	16	24
Prevenar	4	8	16	24
Bexsero	4	8	16	24
<b>Cohort 2: 12 month schedule points</b>				
MMR	2	4	8	12
Prevenar	2	4	8	12
Nimenrix	2	4	8	12
Bexsero	2	4	8	12
<b>Cohort 3: 18 month schedule point</b>				
ActHIB	2	4	8	12
DTPa	2	4	8	12
MMRV	2	4	8	12
<b>Cohort 4: 4 year old schedule point</b>				
DTPa/IPV	2	4	8	12

If a surgery has approximately **200** children aged less than 12 months attending their service per year, a fortnightly stock level for Infanrix hexa should be 24 vaccines.

### How is this calculated?

- 200 children attend the surgery per year
- 3 doses of Infanrix hexa required per child = 600 vaccines
- Average out over the year (26 fortnightly deliveries)  $600 \div 26 = 23.07$
- Stock level should be approximately 24, with fortnightly orders to maintain the stock level.

If the surgery has only **100** children that attend per year, the surgery should only have a stock level of 12 Infanrix hexa per fortnight.

### How is this calculated?

- 100 children attend per year to the surgery
- 3 doses of Infanrix hexa required per child = 300 vaccines
- Averaging this out over the year (26 fortnightly deliveries)  $300 \div 26 = 11.5$
- Stock level should be approximately 12, with fortnightly orders to maintain the stock level.

# SA Health, Vaccine Distribution Centre

## Fact Sheet: Vaccine Stock Levels

### **Why is reducing vaccine wastage important?**

Whilst National Immunisation Program and state government funded vaccines are free for the public and immunisation providers, that does not mean they come at no cost.

One cold chain breach reported to the Immunisation Section resulted in wastage of vaccine with a total value of almost \$40,000. Whilst there are occasions where wastage is unavoidable (power blackout, fridge failure) it is important to understand that vaccines are precious (and sometimes expensive) resources that need to be managed carefully. There are strategies everyone can implement to reduce the likelihood of wastage.

### **Will VDC be monitoring orders?**

To reduce wastage and leakage of vaccines, the SA Health Vaccine Distribution Centre will enhance its monitoring and management strategies around the volume of vaccines ordered and distributed with the aim to minimise wastage as much as possible.

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## For more information

**Immunisation Section**  
**Communicable Disease Control Branch**  
**SA Health,**  
**Citi Centre, 11 Hindmarsh Square**  
**Adelaide SA 5000**  
**Telephone: 1300 232 272**  
[www.sahealth.sa.gov.au/immunisationprovider](http://www.sahealth.sa.gov.au/immunisationprovider)

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