

Childhood Vaccine Program

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Vaccine Order Schedule Information: Economic Order Quantity and Recommended Order Quantity



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What do EOQ and ROQ stand for?

EOQ is Economic Order Quantity.

ROQ is Recommended Order Quantity.

EOQ is commonly referred to as your ordering schedule, however the Ordering Schedule is only one part of your EOQ.

What is EOQ and ROQ?

EOQ is the information you will see on your order page. This encompasses:

- Order frequency - how often an order should be placed
- Order timing - the time of the month an order should be placed
- Order schedule - the months that an order should be placed

Comments:

Inventory Last Submitted: 03/16/2018
Vaccine Administered Report Last Submitted: 03/16/2018
 Last Order Submitted: 03/11/2016 02:33:58 PM
 Order Set: --select--

Inventory Transaction Report | Lot Number Summary | Edit Temperature | Doses Administered Report

EOQ = Order Frequency: Monthly Order Timing: 16th to End of Month
 Order Schedule:

ROQ is an equation to determine the order quantity that is recommended to be placed within the EOQ schedule for the clinic. ROQ factors in a 30 day safety stock to help ensure a clinic does not run out of vaccine.

Example: Calculating ROQ for a provider ordering every month

Order Frequency: Monthly Order Timing: 16th to End of Month Order Schedule: = EOQ

Vaccine	Vaccine Name	Funding Source	Doses Used Last Month	Physical Inventory	Recommended Quantity	Order Quantity
HIB (PRP-OMP)	PedvaxHIB	SPLIT	30	104	0	0 ✓
HPV9	Gardasil 9 -syringe	SPLIT	75	122	30	20 !
IPV	IPOL	SPLIT	15	24	10	10 ✓
Meningococcal (MCV4)	MenQuadfi	SPLIT	48	139	0	20 !

Always round UP to next package size

Order based on need. Add a comment if an order is above ROQ

Should I apply EOQ to all orders?

While EOQ applies to most Childhood Vaccine Program (CVP) vaccines, it does not apply to seasonal influenza vaccines, COVID-19 vaccines, or vaccines with limited availability. Influenza vaccine and COVID-19 vaccine can be ordered as needed within assigned allocations.

What is the purpose of EOQ and ROQ?

The purpose of EOQ is to balance provider order size, order frequency, timing of orders, and inventory management. Having providers place vaccine orders according to their assigned order schedule (frequency and timing) more evenly distributes orders throughout each month, and throughout the year.

The purpose of ROQ is to work with EOQ in ensuring providers have enough vaccine to carry them to their next ordering time.

We do not want providers running out of vaccine due to inadequate supply. The ROQ tool was created to help manage the quantity of vaccines to order during a providers EOQ and ensure a safety stock. The safety stock is to ensure that providers have vaccine stock while allowing time for their new vaccine order to be received.

Always review the Vaccine Blurbs newsletter; this newsletter will let you know of important holiday shipping schedules.

Is participation of EOQ mandatory?

Yes. All providers enrolled in the Childhood Vaccine Program will be required to order according to their assigned EOQ.

How does EOQ benefit me?

Providers may receive their publicly funded childhood vaccines orders more quickly. Spreading orders throughout the month helps to alleviate the spike of orders that McKesson experiences at the beginning of each month.

Providers may be able to save time by creating larger, less frequent orders rather than a high volume of small orders.

Working with EOQ and ROQ takes the guesswork out of determining how much of each publicly funded childhood vaccine is needed for a given order cycle. The tools may help you save time and feel more confident you are ordering the right amount of vaccine. This way you do not have to worry about publicly funded vaccine wastage from ordering too much or running out of publicly funded vaccine from ordering too little.

What if I place an order outside of my EOQ?

Off schedule orders will be accepted. Providers may be contacted to discuss off-schedule ordering if appropriate exception reasons are not provided in the order. If you place an order outside your schedule, order enough vaccine to get you to the delivery of your next scheduled vaccine order.

Providers can contact the Childhood Vaccine Program regarding an order placed outside their EOQ.

We do not want providers running out of vaccine due to inadequate supply. If a provider needs help with ordering quantities, please contact us at WAChildhoodVaccines@doh.wa.gov.

What if I run out of vaccine?

No matter when you are scheduled to order, you may place an order if you are in danger of running out of publicly funded childhood vaccine. ROQ tools are designed to help you avoid running out of vaccine so this shouldn't happen very often when utilized.

CDC recommends that you keep a 30-day safety stock of publicly funded vaccines to help ensure you do not run out. Please use the Recommended Order Quantity tools to help ensure a safety stock.

How do I locate my EOQ?

1. Log into the Immunization Information System (IIS)
2. Select Orders/Transfers
3. Select Create/View Orders
4. Select Create Order
5. Locate your EOQ under your order set information
6. Cancel the order if you were not intending to create an order
7. Please see below image regarding EOQ within your order screen

EOQ and Your Order Screen

The below image is an example of what your order page will look like with an EOQ.

You can see the following within the green box:

- Order frequency - how often an order should be placed
- Order timing - the time of the month an order should be placed
- Order schedule - the months that an order should be placed

Comments:

Inventory Last Submitted: 03/16/2018
Vaccine Administered Report Last Submitted: 03/16/2018
Last Order Submitted: 03/11/2016 02:33:58 PM
Order Set: --select--

Inventory Transaction Report | Lot Number Summary | Edit Temperature | Doses Administered Report

EOQ = Order Frequency: Monthly Order Timing: 16th to End of Month
Order Schedule:

Calculating ROQ

ROQ is the recommended number of vaccine doses your facility should order based on your EOQ. ROQ is a guide and does not factor in seasonality or other reasons for increased need. Always remember, do NOT run out of vaccine. Order based on your facility's needs.

How to Manually Calculate Your ROQ

Your ROQ is your order frequency plus one month of safety stock (use the below multiplication key).

Start with	<div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">Order frequency</div> + <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">1 month safety stock</div> = <div style="border: 1px solid green; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">Order frequency and safety stock total</div> </div>		
Finish with	<div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid green; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">Order frequency and safety stock total</div> × <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">Doses used last month</div> - <div style="border: 1px solid gray; border-radius: 15px; padding: 10px; background-color: #e0e0e0;">Current physical inventory</div> = <div style="border: 1px solid green; border-radius: 15px; padding: 10px; background-color: #90c060; color: white; text-align: center;"> ROQ (rounded up to next package size) </div> </div>		
If you order every month, multiply doses used last month by 2	If you order every 2 months, multiply doses used last month by 3	If you order every 3 months, multiply doses used last month by 4	If you order every 6 months, multiply doses used last month by 7

ROQ and Your Order Screen

Recommended Order Quantity is the recommended amount of vaccine to order based on your EOQ. Please note that the example below does not take into consideration seasonality. If you order more vaccines during specific times of the year please make sure to order based on your facility's needs.

The below image provides an example of an ROQ calculation. The recommended order quantity should be rounded to the next package size when ordering.

Example: Calculating ROQ for a provider ordering every month

Order Frequency: Monthly Order Timing: 16th to End of Month
Order Schedule: = EOQ

Vaccine	Vaccine Name	Funding Source	Doses Used Last Month	Physical Inventory	Recommended Quantity	Order Quantity
HIB (PRP-OMP)	PedvaxHIB	SPLIT	30 X 2 = 60 -	104 = -44 →	0	0 ✓
HPV9	Gardasil 9 -syringe	SPLIT	75 X 2 = 150 -	122 = 28 →	30	20 !
IPV	IPOL	SPLIT	15 X 2 = 30 -	24 = 6 →	10	10 ✓
Meningococcal (MCV4)	MenQuadfi	SPLIT	48 X 2 = 96 -	139 = -43 →	0	20 !

Always round UP to next package size

Order based on need. Add a comment if an order is above ROQ

Placing an order outside your ROQ

Here is an example of placing an order with comments to indicate why an order quantity is greater than what is recommended.

Order Details								Comments
Vaccine	Vaccine Name	Funding Source	Dose Used Last Month	Physical Inventory	Order Quantity	Urgent	Priority Reason	Comments
DTaP	DAPTACEL	SPLIT	5	10	60	<input type="checkbox"/>	--select--	Clinic

The order quantity is outside the recommended order quantity amount. In this case please provide a comment. An example of a comment could be: Clinic event, back to school demand, increase in demand, scheduled appointments, etcetera. Providing a comment will help reduce delays in approving your order by letting us know why you needed to order outside your schedule or outside your recommended order quantity.