

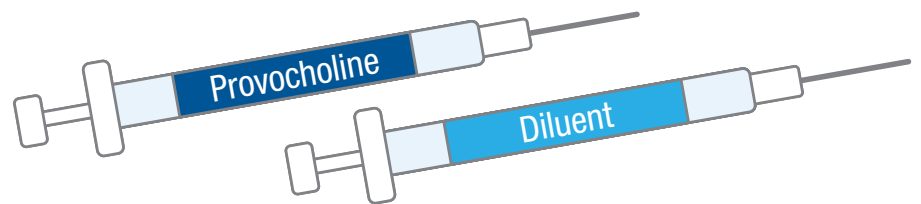
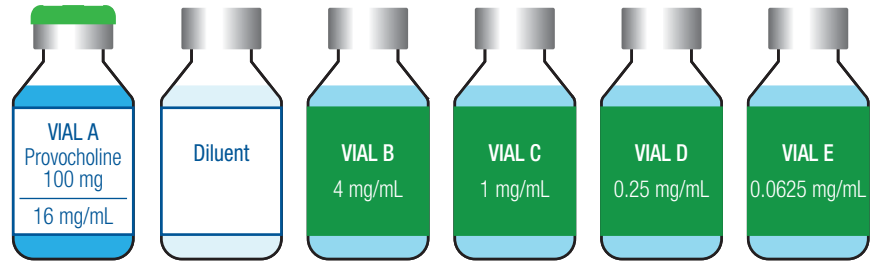
# 5

# Steps to Diluting Methacholine Chloride ATS “Short” - Quadrupling Doses

Dilution Sequence Protocol for Provocholine 100 mg/vial (US NDC № 64281-100-06)

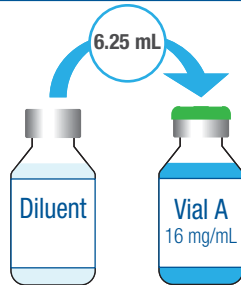
## Getting Started

1. Attach labels to sterile empty vials.
2. Wipe down the stoppers of the Provocholine vial, diluent vial, and sterile empty vials with alcohol prep pads.
3. Label two (2) appropriately sized syringes (one for Provocholine, one for diluent), and attach needles to each.



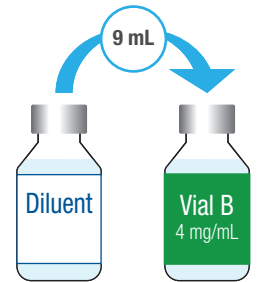
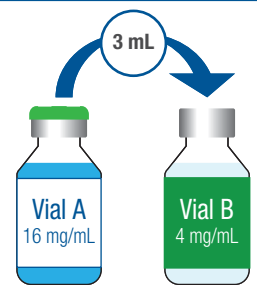
### 1 Preparing Vial A 16 mg/mL Solution

1. Using the diluent needle and syringe, draw 6.25 mL of diluent and transfer the 6.25 mL of diluent to the Provocholine 100 mg vial.
2. Shake well.



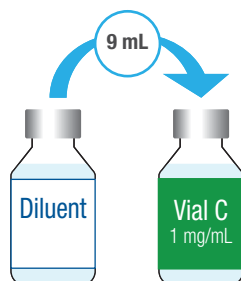
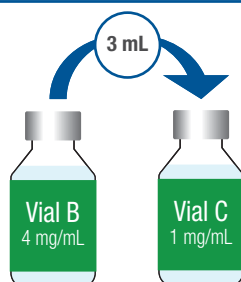
### 2 Preparing Vial B 4 mg/mL Solution

1. Using the Provocholine needle and syringe, draw 3 mL of solution from Vial A and transfer to Vial B.
2. Using the diluent needle and syringe, draw 9 mL of diluent and transfer to Vial B.
3. Shake well.



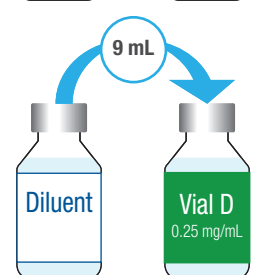
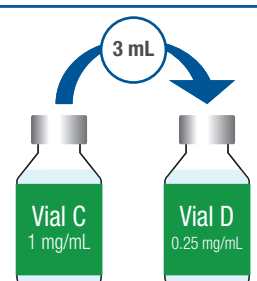
### 3 Preparing Vial C 1 mg/mL Solution

1. Using the Provocholine needle and syringe, draw 3 mL of solution from Vial B and transfer to Vial C.
2. Using the diluent needle and syringe, draw 9 mL of diluent and transfer to Vial C.
3. Shake well.



### 4 Preparing Vial D 0.25 mg/mL Solution

1. Using the Provocholine needle and syringe, draw 3 mL of solution from Vial C and transfer to Vial D.
2. Using the diluent needle and syringe, draw 9 mL of diluent and transfer to Vial D.
3. Shake well.

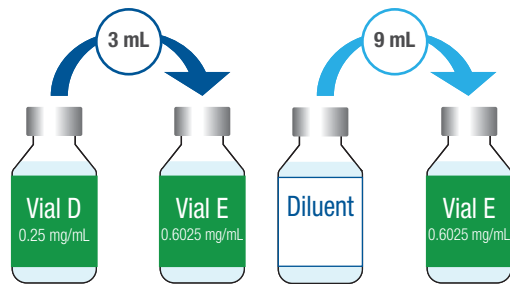


**Provocholine**<sup>®</sup>  
(methacholine chloride)  
[www.provocholine.com](http://www.provocholine.com)

## 5 Preparing Vial E

0.0625 mg/mL Solution

- Using the Provocholine needle and syringe, draw 3 mL of solution from Vial D and transfer to Vial E.
- Using the diluent needle and syringe, draw 9 mL of diluent and transfer to Vial E.
- Shake well.



### NOTE

- Transfer all dilutions (in vials A through E) to nebulizer through the 0.22  $\mu\text{m}$  sterile bacterial retentive filter (Millex GV®).\*

\*Do not attach filter until AFTER solution has been drawn into syringe.

## Dilution Check Sheet and Control Record

### PROVOCHOLINE DILUTIONS FOR CHALLENGE TESTING

Date \_\_\_\_\_ Prepared by \_\_\_\_\_ Checked by \_\_\_\_\_  
 Provocholine (see label on vial) Lot Number \_\_\_\_\_ Expiration Date \_\_\_\_\_  
 Diluent \_\_\_\_\_ Lot Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Take Provocholine	Add diluent (Shake well!)	Obtain dilution	Vial name	Initial / Date
Provocholine 100 mg	6.25 mL	16 mg/mL	Vial A - 16 mg/mL	
3 mL from Vial A	9 mL	4 mg/mL	Vial B - 4 mg/mL	
3 mL from Vial B	9 mL	1 mg/mL	Vial C - 1 mg/mL	
3 mL from Vial C	9 mL	0.25 mg/mL	Vial D - 0.25 mg/mL	
3 mL from Vial D	9 mL	0.0625 mg/mL	Vial E - 0.0625 mg/mL	

## Storage Instructions

- Provocholine powder should be stored at 59° to 86°F (15° to 30°C).
- Dilutions A through E (16 mg/mL through 0.0625 mg/mL) should be stored at 36° to 46°F (2° to 8°C) in a refrigerator for no more than 2 weeks.
- Freezing does not affect the stability of dilutions A through E (16 mg/mL through 0.0625 mg/mL).

**For technical support, please contact us at 519.751.3602 | 1.800.287.7686**

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