

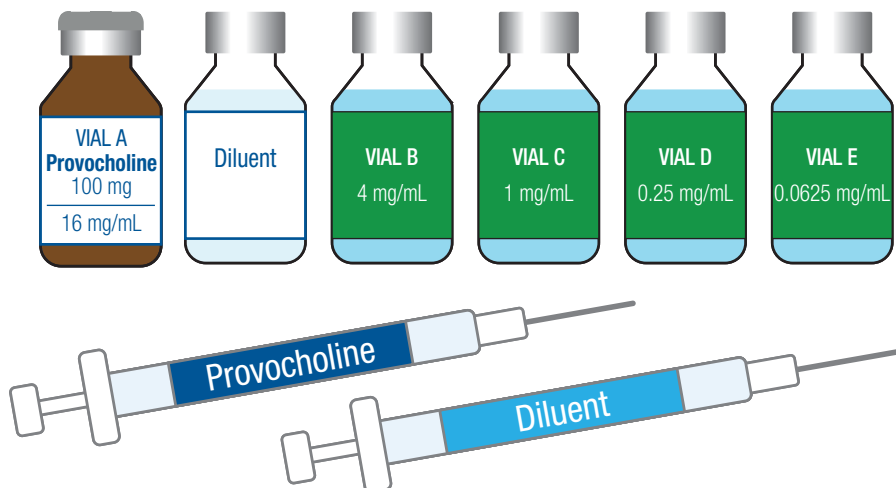
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Steps to Diluting Methacholine Chloride ATS “Short” - Quadrupling Doses

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

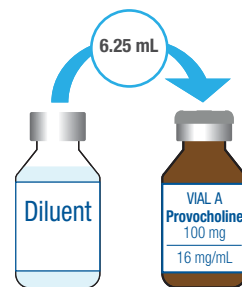
Getting Started

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.



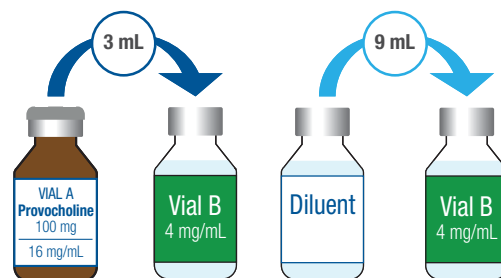
1 Preparing Vial A 16 mg/mL Solution

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



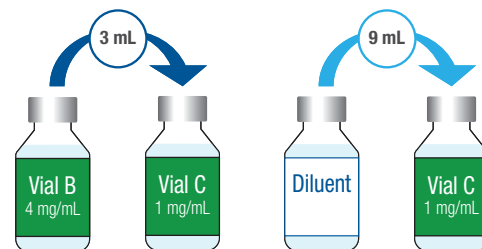
2 Preparing Vial B 4 mg/mL Solution

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



Provocholine[®]
(methacholine chloride)
www.provocholine.com



NOTE

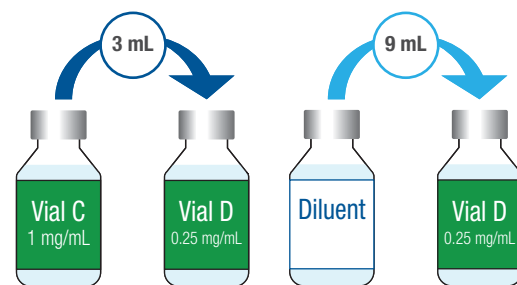
1. Transfer all dilutions (in vials A through E) to nebulizer through the 0.22 µm sterile bacterial retentive filter (Millex GV®).*
2. Be sure to follow your institutional policy for needle and sharps safety.

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

4 Preparing Vial D

0.25 mg/mL Solution

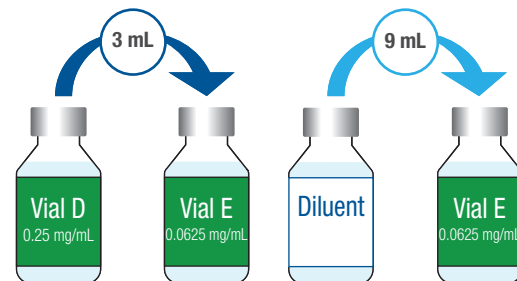
- Using the Provocholine needle and syringe, draw 3 mL of solution from Vial C and transfer to Vial D.
- Using the diluent needle and syringe, draw 9 mL of diluent and transfer to Vial D.
- Shake well.



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.



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.
- Be sure to remove the Provocholine dilutions from the refrigerator 30 minutes prior to testing to allow them to warm to room temperature (59° to 77°F or 15° to 25°C as per World Health Organization).

For technical support, please contact us Toll-Free at 1-833-887-7686

®Provocholine (methacholine chloride USP) powder for solution, for inhalation, is marketed in the United States, Canada and other countries. Provocholine is indicated for the diagnosis of bronchial airway hyperreactivity in subjects who do not have clinically apparent asthma. Provocholine is a bronchoconstrictor agent for diagnostic purposes only and should not be used as a therapeutic agent. Provocholine inhalation challenge should be performed only under the supervision of a physician trained in and thoroughly familiar with all aspects of the technique of methacholine challenge, all contraindications, warnings and precautions, and the management of respiratory distress. Emergency equipment and medication should be immediately available to treat acute respiratory distress. For complete prescribing information, please consult the Package Insert which is available for download at www.provocholine.com or on request by calling Methapharm Medical Information at 1-800-287-7686 | 519-751-3602 ext. 7804 or faxing us at 1-877-718-9222. You are encouraged to report negative side effects of prescription drugs to the FDA. Visit MedWatch or call 1-800-FDA(332)-1088. Provocholine is a registered trademark of Methapharm Inc. Copyright © Methapharm Inc. 2017. This information is provided as a professional courtesy, and it is intended to provide data available to us that may assist you in deriving your own conclusions and opinions. This information is not intended to advocate any indications, dosage, or other claim that is not described in the package insert. This dilution sequence was prepared according to the Guidelines for Methacholine and Exercise Challenge Testing, published in 2000 by the American Thoracic Society. This protocol is commonly known as the "ATS Short," and is available for download at <http://www.thoracic.org/statements/resources/pfet/methacholine1-21.pdf>.

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