

# Tandem® Microspheres

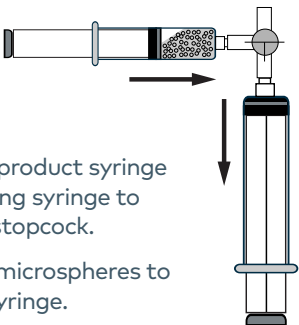
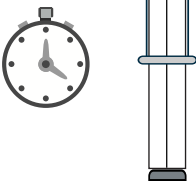
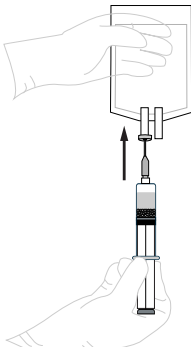
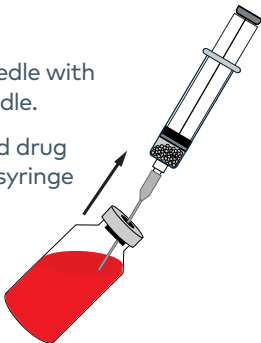
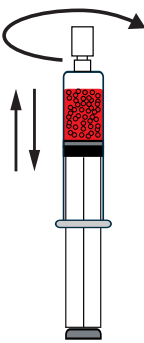
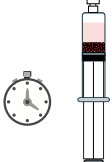
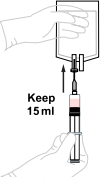
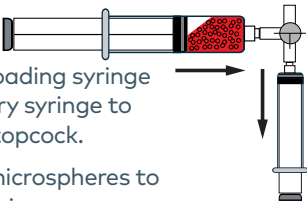
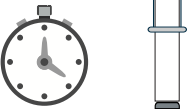
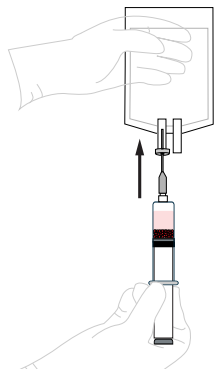
## Loading Guide for Doxorubicin HCl 2 mg/ml Solution

### Materials:

- Tandem Microspheres prefilled syringe
- 3-way stopcocks with Luer lock connectors (2)
- Loading syringe (60 ml or 100 ml syringe)
- 5 µm sterile filter needles (2)
- 18–20 gauge sterile needle
- Waste container (e.g., empty 100 ml solution bag)
- Doxorubicin hydrochloride (2 mg/ml solution)
- Delivery syringe (20 ml syringe)

Drug loading should be performed under controlled aseptic conditions.

Maximum loading dose:  
50 mg doxorubicin/ml microspheres

MICROSPHERES PREPARATION		
<b>1</b>  <p>Connect product syringe and loading syringe to a 3-way stopcock.</p> <p>Transfer microspheres to loading syringe.</p>	<b>2</b>  <p>Gently swirl and allow microspheres to settle towards the plunger.</p>	<b>3</b>  <p>Attach filter needle to the syringe.</p> <p>Insert needle into a waste container and expel excess transport solution. <b>DO NOT</b> compress the microspheres.</p>
DRUG LOADING		TRANSFER TO DELIVERY SYRINGE
<b>4</b>  <p>Replace filter needle with 18-20 gauge needle.</p> <p>Draw up required drug volume into the syringe and leave an air bubble for optimal mixing.</p>	<b>5</b>  <p>Recap the syringe.</p> <p><b>Gently mix</b> by inverting and swirling the syringe every 5 minutes. Hard shaking may cause foam.</p> <p>Minimum loading time is 120 minutes.</p>	<b>6</b>  <p>Gently swirl and allow microspheres to settle towards the plunger.</p>
TRANSFER TO DELIVERY SYRINGE (cont.)		<b>7</b>  <p>Attach filter needle to the syringe. Insert needle into a waste container and expel transport solution with ~15 ml remaining.</p>
TRANSFER TO DELIVERY SYRINGE (cont.)		SUPERNATANT REMOVAL
<b>8</b>  <p>Connect loading syringe and delivery syringe to a 3-way stopcock.</p> <p>Transfer microspheres to delivery syringe.</p>	<b>9</b>  <p>Gently swirl and allow microspheres to settle towards the plunger.</p>	<b>10</b>  <p>Attach filter needle to the syringe.</p> <p>Insert needle into a waste container and expel excess supernatant. <b>DO NOT</b> compress the microspheres.</p> <p>Recap the syringe.</p>
<b>STORAGE (OPTIONAL)</b> After drug loading is complete, if not used immediately, store in the dark at 2–8° C and use within 48 hours. Please refer to the drug manufacturer's package insert for specific drug information.		

CAUTION: The law restricts these devices to sale by or on the order of a physician.

Indications, contraindications, warnings, and instructions for use can be found in the product labeling supplied with each device. Vascular embolization is a procedure that has inherent risk and should only be performed by specialized physicians. For more information, please visit [www.varian.com/safety](http://www.varian.com/safety)

Information contained herein is for distribution outside the U.S. only. Products and features may not be available in all markets and specifications are subject to change without notice.

© 2020 Varian Medical Systems, Inc. Varian, Varian Medical Systems, Embozene, and Tandem logos are registered trademarks of Varian Medical Systems, Inc. All trademarks are the property of their respective owners.