

Tandem® Microspheres

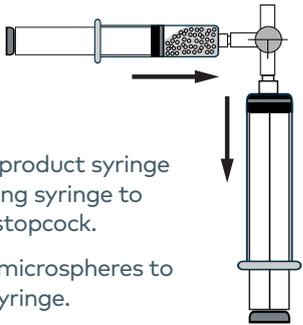
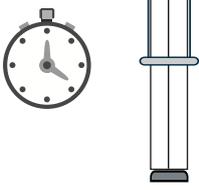
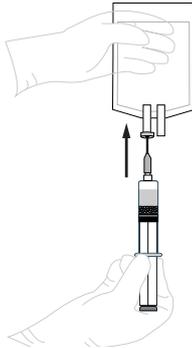
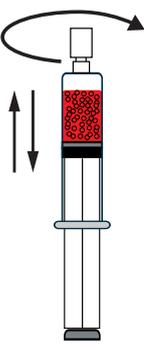
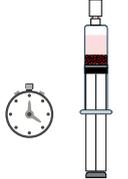
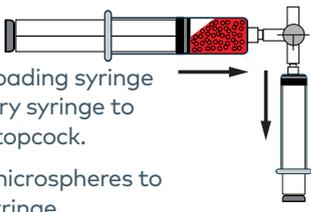
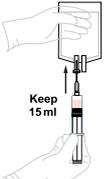
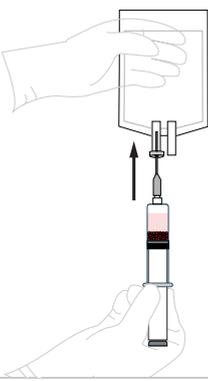
Loading Guide for Doxorubicin HCl 2 mg/ml Solution

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		
<p>1</p>  <p>Connect product syringe and loading syringe to a 3-way stopcock.</p> <p>Transfer microspheres to loading syringe.</p>	<p>2</p> <p>Gently swirl and allow microspheres to settle towards the plunger.</p> 	<p>3</p> <p>Attach filter needle to the syringe.</p> <p>Insert needle into a waste container and expel excess transport solution. DO NOT compress the microspheres.</p> 
DRUG LOADING		TRANSFER TO DELIVERY SYRINGE
<p>4</p> <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> 	<p>5</p> <p>Recap the syringe.</p> <p>Gently mix by inverting and swirling the syringe every 5 minutes. Hard shaking may cause foam.</p> <p>Minimum loading time is 120 minutes.</p> 	<p>6</p> <p>Gently swirl and allow microspheres to settle towards the plunger.</p> 
<p>8</p>  <p>Connect loading syringe and delivery syringe to a 3-way stopcock.</p> <p>Transfer microspheres to delivery syringe.</p>	<p>9</p> <p>Gently swirl and allow microspheres to settle towards the plunger.</p> 	<p>7</p> <p>Attach filter needle to the syringe. Insert needle into a waste container and expel transport solution with ~15 ml remaining.</p>  <p>Keep 15 ml</p>
TRANSFER TO DELIVERY SYRINGE (cont.)		SUPERNATANT REMOVAL
<p>STORAGE (OPTIONAL)</p> <p>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.</p>	<p>10</p> <p>Attach filter needle to the syringe.</p> <p>Insert needle into a waste container and expel excess supernatant. DO NOT compress the microspheres.</p> <p>Recap the syringe.</p> 	

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 Varian Medical Systems as a medical device manufacturer cannot and does not recommend specific treatment approaches.

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