RSD INJECTION PHANTOM

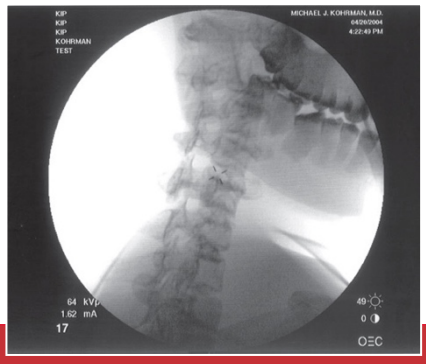
Model Number: RS-1300

RSD INJECTION PHANTOM

- Instrumental for teaching, training, and maintaining skills
- Reviews fluoroscopy system
- Eliminates biohazards associated with cadavers

RSD Injection Phantom helps one learn and hone skills for proper needle placement for a variety of interventional techniques. Fluoroscopic needle placement can be taught or practiced realistically without fear of biological contamination hazards associated with fresh or frozen cadavers.

Fluoroscopically, the look and feel of the anatomical landmarks is important and can be demonstrated with the use of RSD Injection Phantom. Needle placement for caudals, epidurals, selective nerve and root blocks, medial branch blocks, facet injections and sympathetic blocks can all be demonstrated. Practice RF needle-placement along with disc needle-placement plus injection techniques for shoulder, hip and symphysis pubis, all in the convenience and safety of your own laboratory or teaching facility.



Repeatable. Durable. Necessary.

Radiology Support Devices, Inc., represents over 30 years of product innovation, development, and testing to deliver the finest human equivalent radiological subjects. As the original standard, our phantoms have proven to be consistent and reliable devices that endure the most rigorous use.

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SIZE*	Male ART
HEIGHT	175 cm | 5 ft 9 in
WEIGHT	73.5 kg | 162 lbs

*Sectional Size Equivalent

MATERIAL	DENSITY (g/cc)
RSD SOFT TISSUE	1.08
RSD CORTICAL BONE	1.18
RSD TRABECULAR BONE	1.17

RSD SOFT TISSUE

Energy (MeV)	mean HU	Calculated M	μ (ICRU 44)	% difference	Ratio
00.08	60.30	0.1948	0.1932	0.0080	0.9921
00.10	52.88	0.1797	0.1795	0.0015	0.9985
00.12	57.10	0.1717	0.1709	0.0044	0.9956
00.14	52.95	0.1623	0.1624	0.0007	1.0007
00.20	--	0.1477	0.1439	0.0261	0.9746
00.30	--	0.1245	0.1246	0.0004	1.0004
00.60	--	0.0950	0.0941	0.0101	0.9900
00.80	--	0.0825	0.0826	0.0013	1.0013
01.00	--	0.0744	0.0743	0.0018	0.9982
02.00	--	0.0520	0.0519	0.0018	0.9982
03.00	--	0.0351	0.0357	0.0171	1.0174
06.00	--	0.0288	0.0291	0.0088	1.0088
08.00	--	0.0252	0.0255	0.0098	1.0099
10.00	--	0.0229	0.0232	0.0149	1.0151
15.00	--	0.0203	0.0203	0.0015	0.9985
20.00	--	0.0189	0.0189	0.0017	1.0017

RSD CORTICAL BONE

Energy (MeV)	mean HU	Calculated μ	μ (ICRU 44)	% difference	Ratio
00.08	1365	0.4345	0.4280	0.0151	0.9851
00.10	1048	0.3496	0.3562	0.0184	1.0188
00.12	0977	0.3211	0.3274	0.0191	1.0195
00.14	0902	0.2932	0.2986	0.0180	1.0184
00.20	--	0.2511	0.2513	0.0009	1.0009
00.30	--	0.2155	0.2137	0.0084	0.9916
00.60	--	0.1596	0.1598	0.0011	1.0011
00.80	--	0.1403	0.1402	0.0010	0.9990
01.00	--	0.1274	0.1261	0.0106	0.9895
02.00	--	0.0883	0.0885	0.0017	1.0017
03.00	--	0.0611	0.0625	0.0229	1.0235
06.00	--	0.0512	0.0525	0.0246	1.0253
08.00	--	0.0468	0.0474	0.0120	1.0121
10.00	--	0.0446	0.0444	0.0039	0.9962
15.00	--	0.0410	0.0409	0.0016	0.9984
20.00	--	0.0393	0.0397	0.0102	1.0103

RSD SPONGIOSA

Energy (MeV)	mean HU	Calculated μ	μ (ICRU 44)	% difference	Ratio
00.08	551	0.2849	--	--	--
00.10	515	0.2586	--	--	--
00.12	439	0.2337	--	--	--
00.14	318	0.1541	--	--	--

Linear Attenuation Data:

Monte Carlo simulation was used to calculate linear attenuation coefficients as a function of beam. Monte Carlo results were validated with linear attenuation coefficients derived from Hounsfield Unit measurements at discreet energy levels. RSD Phantom material linear attenuation data was compared to NIST data using ICRU Report 44 compositions of human tissues. NIST data was interpolated when necessary.

MODEL NUMBER:

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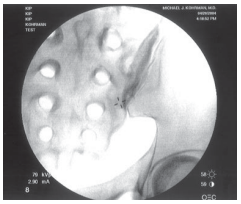

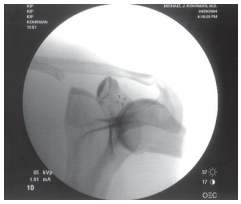

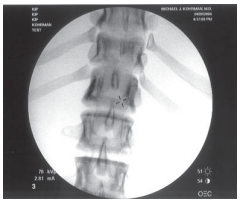

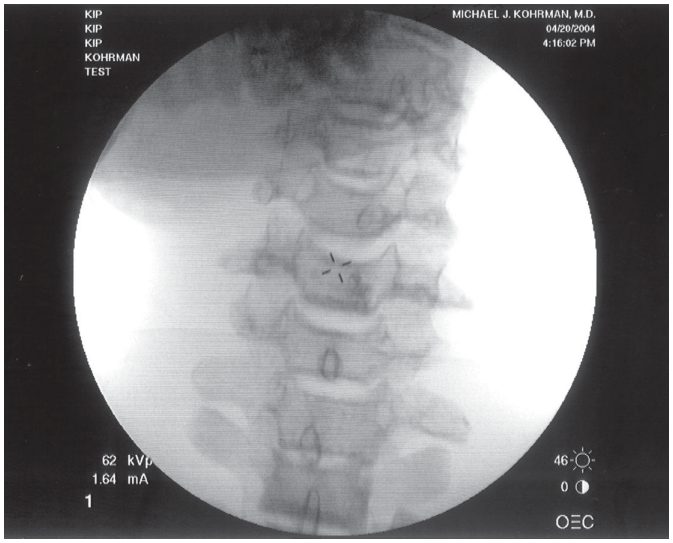

MADE IN USA

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