

# Intradermal Microdialysis: An Approach to Investigating Novel Mechanisms of Microvascular Dysfunction in Humans

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jove.com/video/65579

## Materials

Name	Company	Catalog Number	Comments
1 mL syringes	BD Syringes	302100	
Acetylcholine	United States Pharmacopeia	1424511	Pilot data collected in our lab indicate drying acetylcholine increases variability of CVC response; do not dry, store in desiccator
Alcohol swabs	Mckesson	191089	
Baby Bee Syringe Drive	Bioanalytical Systems, Incorporated	MD-1001	In this study the optional 3-syringe bracket (catalog number MD-1002) was utilized
CMA 30 Linear Microdialysis Probes	Harvard Apparatus	CMA8010460	
Connex Spot Monitor	WelchAllyn	74CT-B	automated blood pressure monitor
Hive Syringe Pump Controller	Bioanalytical Systems, Incorporated	MD-1020	Controls up to 4 Baby Bee Syringe Drives
LabChart 8	AD Instruments		**PowerLab hardware and LabChart software must be compatible versions
Lactated Ringer's Solution	Avantor (VWR)	76313-478	
Laser Doppler Blood FlowMeter	Moor Instruments	MoorVMS-LDF	
Laser Doppler probe calibration kit	Moor Instruments	CAL	
Laser Doppler VP12 probe	Moor Instruments	VP12	
Linear Microdialysis Probes	Bioanalytical Systems, Inc.	MD-2000	
N <sup>G</sup> -nitro-L-arginine methyl ester	Sigma Aldrich	483125-M	L-NAME
Povidone-iodine / betadine	Dynarex	1202	
PowerLab C Data Acquisition Device	AD Instruments	PLC01	**
PowerLab C Instrument Interface	AD Instruments	PLCI1	**
Probe adhesive discs	Moor Instruments		attach local heating unit to skin
Skin Heater Controller	Moor Instruments	moorVMS-HEAT 1.3	

Small heating probe	Moor Instruments	VHP2	
Sterile drapes	Halyard	89731	
Sterile gauze	Dukal Corporation	2085	
Sterile surgical gloves	Esteem Cardinal Health	8856N	catalogue number followed by the initials of the glove size, then the letter "B" (e.g., 8856NMB for medium)
Surgical scissors	Cole-Parmer	UX-06287-26	