# SPECIALTY PROCEDURE NEEDLES







To meet the diverse and sophisticated Specialty Procedure Needle requirements of the clinical practitioner and scientific researcher, Popper & Sons offers an extensive selection of standard products. With a commitment to quality, beginning with raw materials and continuing through every manufacturing operation, **Popper** Needles provide value and reliability. Our engineering design team works closely with medical professionals to offer advanced instruments for the latest technical breakthroughs.

#### **SPECIALTY NEEDLES**

#### ANESTHESIA

An extensive selection of the most widely accepted needles designed for caudel, epidural, intravenous, local, retrobulbar, spinal and topical anesthesia.

#### BIOPSY

To obtain desired specimens in specific applications, a variety of instruments are offered for use in bone marrow, liver, kidney, muscle, plueral and synovial biopsies.

#### CARDIOLOGY

Specialized instrumentation to meet the needs for applications in the field of cardiology, including blood sampling, catherization in Seldinger technique, arterial, intravenous, blood transfusion, catherization and cardiac puncture.

#### RADIOLOGY

For specific radiological procedures, we manufacture a comprehensive group of instruments for use in angiocardiography, discography, myelography, sialography, ventriculography and lymphedema.

#### **ADDITIONAL PROCEDURES**

Allergy, pneumothorax, lacrimal, tonsil, hemorrhoidal, and variscosity needles.

#### **CUSTOM STERILE and NON-STERILE NEEDLES**

- Quotations available for on request for variations of lengths and gauges on non-sterile types, listed on the following pages.
- Sterile Disposable Needles for larger quantity purchases, we can quote on selected types.
- Extended delivery should be anticipated for all special order items.

#### CUSTOM NEEDLES ARE AVAILABLE, CALL OR FAX YOUR SPECIAL REQUIREMENTS.



# **ANESTHESIA NEEDLES**

Anesthesiology is one of medicine's most critical and delicate disciplines. To meet the exacting demands of Anesthesiologists, Popper & Sons offers an extensive selection of outstanding quality Needles. **Popper** Needles provide increased comfort, control and sensitivity, so that the practitioner can perform with confidence. Our broad range of standard products and custom fabrication capabilities allow the Anesthesiologist to choose a Needle for their specific application. Popper is dedicated to providing new products that make the work of Anesthesiologists safer and simpler.

# **CAUDAL ANESTHESIA, CONTINUOUS**

## **Hingson-Edwards Caudal Needle**



This malleable needle with special small hose end fitting is easily connected to small bore tubing. The security stop allows for cannula recovery in case of mishap while the opening on back of bevel helps to prevent clogging. Close fitting stylet has matched point.

Cat. No. Description 7782 19G x 3"		
7782 19G x 3"	Cat. No.	Description
	7782	19G x 3"

# **Lundy-Irving Caudal Needle**



Used to introduce catheter. Has a large spool type female luer hub. Spinal point has edges dulled to prevent ureteral catheter damage. Close fitting stylet has matched point.

# **Thin Wall Needle**



Has a female luer hub, sharp pointed thin-wall cannula and a fitted stylet with matched beveled point.

 Cat. No.
 Description

 7500
 16G TW x 3"

 Cat. No.
 Description

 7339
 18G TW x 2 1/2"

7339 18G I W x 2 1/2"



# **ANESTHESIA NEEDLES**

# **EPIDURAL, CONTINUOUS**

# **Crawford Epidural Thin Wall Needle**



Used with vinyl tubing for continuous epidural anesthesia. Has a female luer hub, 40° beveled cannula and fitted stylet with matching point.

# **Hustead Epidural Needle**



This modified Tuohy point needle directs catheter during insertion. Special point geometry allows for accurate positioning in epidural space while the short bevel reduces risk of dura 
 Cat. No.
 Description

 7503
 18G TW x 3 1/2"

 7576
 17G TW x 3 1/2"

 Cat. No.
 Description

 7789
 16G TW x 3 1/2"

penetration. Special rounded needle heel helps prevent catheter cut off if withdrawal is necessary.

# **Tuohy Needle**



Thin-wall needle with Needle Lock Hub and Fitted Stylet with matched bevelled point. They have Deflected (HUBER) points with heel of bevel dulled to prevent tubing from being cut. Tubing may be directed into sub-arachnoid or epidural space either cephalad or cauded.

Cat. No. Description	Cat. No. Description
7533         18G TW x 3"           7686         18G TW x 3 1/2"           7534         17G TW x 3"           7687         17G TW x 3 1/2"           7536         17G TW x 7"	7535         16G TW x 3"           7688         16G TW x 3 1/2"           7537         16G TW x 7"           7790         14G TW x 3"



Cat. No. Description

18G TW x 3"

17G TW x 3"

16G TW x 3"

7538

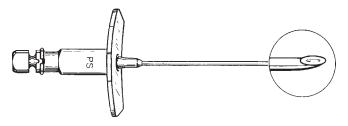
7539

7540

# **ANESTHESIA NEEDLES**

# EPIDURAL CONTINUOUS continued

# Tuohy (Weiss-Type) Needle



Like standard Tuohy, but with a gripping shield, used in continuous epidural anesthesia. Tubing can easily be introduced.

# **INTRAVENOUS ANESTHESIA**

# Intravenous and Arterial Thin Wall Short Bevel Needles



Designed for use in intravenous and intra-arterial applications as well as nerve block procedures, these needles feature an 18° point bevel. Thin wall needles are suitable for use with plastic tubing. Cat. No. Description 7134 14G TW x 1 1/2

# LOCAL ANESTHESIA Security Stop (Regional Block) Needles



Have female luer hub with sharp pointed cannula. A security bead is affixed one-eighth inch from the hub to help in withdrawal in case of accidental breakage. The regular bevel is ideal for infiltration anesthesia. The short bevel design provides optimum feel upon insertion into subcutaneous tissues, facia, ligaments and sheath surrounding the nerve bundle. Also available with deflected point for special procedures.

Cat. No. Description	Cat. No. Description	Cat. No. Description
REGULAR BEVEL	SHORT BEVEL	DEFLECTED POINT
7505         22G x 1 1/2"           7506         22G x 2"           7508         22G x 3"           7509         22G x 4"           7510         20G x 4"           7511         20G x 5"           7512         20G x 6"	7516         22G x 2"           7517         22G x 3"           7518         22G x 4"           7795         22G x 5"           7519         20G x 4"           7797         20G x 5"	7514 25G x 5/8"



# **ANESTHESIA NEEDLES**

# LOCAL ANESTHESIA continued

# **Bailey Fontonal - Security Stop Needle**

Has security stop positioned 1/2" from point. Fitted with standard female luer hub, sharp pointed cannula and a fitted stylet with matched beveled point.

 Cat. No.
 Description

 7504
 20G x 6"

## PUDENDAL, PARACERVICAL and PARASYMPATHETIC NERVE BLOCK NEEDLES

### **Freeman Needle**

This three piece needle set includes a 17G guide cannula with bulbous tip 5" long and 20G-6" short bevel needle, which when passed through the guide extends approximately 5/8" beyond the bulbous tip. The bulbous tip prevents trauma during injection to the surrounding tissue. This set is designed to relieve labor pains of uterine origin.

Cat. No. Description

7550 20G x 6"

# **Nerve Block Needle**



Has short bevel point, female luer hub and fitted stylet with matched beveled point.

Cat. No.	Description	Cat. No.	Description
7520	20G - 6" Parasympathetic	7522	19G - 5" Sympathetic
7521	20G - 5" Sympathetic	7523	18G - 6" Sympathetic

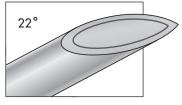


# SPINAL ANESTHESIA NEEDLES and MATCHED POINT SETS

These needle sets are manufactured to strict standards providing assurance of perfectly "matched bevels". They incorporate Type 304 Stainless Steel Needles and Stylets (Obturators) to assure needle point strength, sharpness and integrity of point geometry. The brass chrome plated needle lock hubs and stylet caps have matching serial numbers to facilitate matching after sterilization. Care is taken to align the point of the needle with the flat of the hub. The hub slot and cap guide are aligned with the point of the needle for easier orientation. This careful matching helps to prevent seepage.

Quincke Babcock Needles and Thin Wall Intravenous Anesthesia and Cardiovascular Needles are designed for the anesthesia of the lower body area by injection into the subarachnoid space surrounding the spinal cord. They are also used in cardiovascular procedures.

# **Quincke Babcock Needles - Standard Sizes**

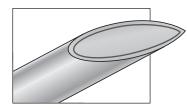


REGULAR QUINCKE BEVEL

CUSTOM MADE SIZES ARE AVAILABLE

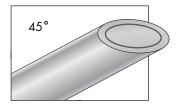
Cat. No. Description	Cat. No.	Description	Cat. No.	Description
Cat. No.         Description           7300         26G x 3 1/           7352         25G x 3"           7301         25G x 3 1/           7302         24G x 3 1/           7303         22G x 1 1/           7304         22G x 2 1           7305         22G x 2 1/           7306         22G x 3"           7307         22G x 3 1/           7308         22G x 4"           7354         22G x 5"           7310         20G x 2"	2" 7311 7312 7313 7314 7314 7315 7316 7319 7320 7321	Description 20G x 2 1/2" 20G x 3" 20G x 3 1/2" 20G x 4" 20G x 5" 20G x 6" 19G x 3" 19G x 3 1/2" 19G x 4" 18G x 3" 18G x 3 1/2"	Cof. No. 7326 7327 7328 7329 LONG LE 7372 7373 7376 7374 7370 7375 7371	17G x 3" 17G x 3 1/2" 17G x 4" 17G x 6"

## Thin-Wall Intravenous Anesthesia and Cardiovascular Needles



Cat. No.	Description	Cat. No.	Description
7333	21G TW x 6"	7343	17G TW x 7"
7334	20G TW x 1 1/2"	7344	16G TW x 1 1/2"
7335	20G TW x 2"	7345	16G TW x 2"
7336	20G TW x 6"	7346	15G TW x 2"
7337	19G TW x 1 1/2"	7347	14G TW x 2"
7338	18G TW x 1 1/2"	7348	13G TW x 2"
7339	18G TW x 2 1/2"	7349	12G TW x 2"
7340	18G TW x 4 1/4"	7343	120 110 2
7341	18G TW x 6"		

# **Pitkin Spinal Needles**



 Cat. No.
 Description
 Cat. No.
 Description

 7360
 22G x 3"
 7361
 20G x 3"

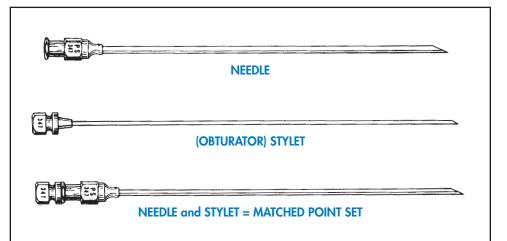
 7363
 20G x 4"

**PITKIN NEEDLE** 



# CUSTOM MADE SPINAL ANESTHESIA NEEDLES and MATCHED POINT SETS

To broaden the range of the standard matched point sets, a wider selection of these needles can be obtained in a choice of gauges, lengths and five point styles to meet exacting individual requirements.



- Type 304 Stainless Steel Needles with Stainless Fitted Stylet (Obturators) with "MATCHED BEVELS".
- Chrome Plated Needle Lock Hubs and Obturator (Stylet) Caps with Matching Serial Numbers.
- Point of Needles Aligned with Flat of Hub; Hub Slot and Cap Guide Aligned with Point of Needles.

4 PO	INT STYLES	<b>REGULAR WALL</b>	THIN WALL*	GAUGE	S LENGTHS
regular Quincke Bevel	22°	Cat. No. 7420 (For 22° Needles)	Cat. No. 7423 (For 22° Needles)	26 to 2 24 to 1	
SHORT QUINCKE BEVEL	30°	Cat. No. 7421 (For 30° Needles)	Cat. No. 7424 (For 30° Needles)		
PITKIN BEVEL	45°	Cat. No. 7422 (For 45° Needles)	Cat. No. 7425 (For 45° Needles)	Specify Com • CATALO	
BLUNT END	90°	Cat. No. 7426 (For 90° Needles)	Cat. No. 7427 (For 90° Needles)	• STYLE • GAUGE • LENGTH • MINIMUN	<li>I One Dozen - One gauge,</li>
ECHO- GENIC TIP	22°	Cat. No. 7428 (Echogenic Tip)	Cat. No. 7429 (Echogenic Tip)		length and shape. Boxed - Overpacked Boxes) per Shelf Pack.

\*THIN WALL - 25 to 12 Gauge Inclusive

For Special Requirements Our Technical Staff Is Available For Consultation

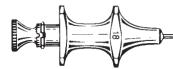
#### CUSTOM MADE NEEDLES AVAILABLE - CALL/FAX YOUR SPECIAL REQUIREMENTS - ALL NEEDLES FURNISHED NON-STERILE



# **ANESTHESIA NEEDLES**

# **SPINAL ANESTHESIA**

# **Barker Needle**



Has large spool type female luer hub and a sharp pointed cannula, fitted stylet has a matched beveled point.

 Cat. No.
 Description

 7531
 19G x 3 1/2"

# **Hingson-Ferguson Needle**



This malleable needle with special small hose end fitting is easily connected to small bore tubing. The security stop allows for cannula recovery in case of mishap while the opening on 
 Cat. No.
 Description

 7782
 19G x 3"

back of bevel helps prevent clogging. Close fitting stylet has matched point.



# **ANESTHESIA NEEDLES**

# SPINAL ANESTHESIA continued

# **Whitacre Needle**



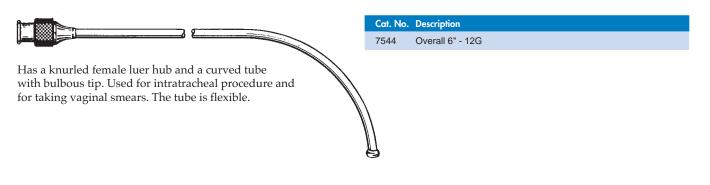
Has female luer hub and sharp pencil point which dilates the tissue. This allows for a more complete closure of the dura tissue. The point geometry reduces spinal fluid seepage lessening the chance of postoperative headache. Small side hole positioned

Cat. No. Description	Cat. No. Description
7541 22G x 3"	THIN WALL 7887 26G TW x 3 1/2" 7888 25G TW x 3 1/2"

close to point permits the use of a reduced amount of solution with precise directional flow for longer duration anesthetization. Blunt end stylet blocks side hole when fully inserted.

# **TOPICAL ANESTHESIA**

# **Abraham Laryngeal Tube**





Cat. No. Description

Cat. No. Description

16G x 3 1/2"

7588

14G x 6"

13G x 3 1/4"

7809

7585

# **BIOPSY NEEDLES**

All **Popper** Biopsy Needles are precision ground and contoured with extremely keen cutting edges, providing the physician with optimum size and shape biopsy specimens. With the increase in the number of procedures being performed using different techniques, the wide selection of instruments offered, many in varying gauges and lengths, accommodate the wide spectrum of professional needs. All of our biopsy needles feature the same outstanding quality and reliability that stands behind all **Popper** products. As new advances in medicine develop we will continue to expand the range of instruments manufactured. If information is required concerning modifications to those needles illustrated or entirely new needles, our technical staff is available for consultation.

# LIVER, KIDNEY and SOFT TISSUE BIOPSY

# **Aspirating Trocar Needle**



Has blunt tapered end and a contoured cap on the closely fitted stylet, which has a protruding trocar point.

# **Chiba Type Needle**



Extremely flexible thin wall outer cannula with matched stylet features short bevel with buffed heel.

Also avialable with ECHO-GENIC<sup>™</sup> Tip see page 33B

Cat. No. Description	Cat. No. Description
7750 23G TW x 6"	7752 22G TW x 6"
7751 23G TW x 8"	7753 22G TW x 8"

# **Cone Biopsy Needle**



Has a blunt end chamfered to a sharp cutting edge and a matching closely fitted blunt end stylet.

# **Fine Lung Biopsy Needle**

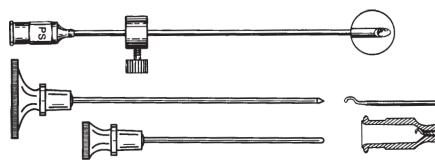
A thin wall needle with female luer hub, sharp pointed cannula and a fitted stylet with matched beveled point. Used for needle aspiration biopsy of hilar and mediastinal masses.

Cat. No.	Description
7885	20G TW x 5 1/2"



# LIVER, KIDNEY and SOFT TISSUE BIOPSY continued

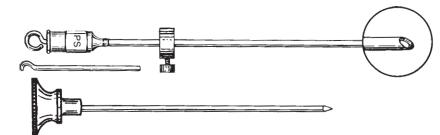
# **Menghini Technique Aspirating Needle Set**



Consists of five parts, including a thin wall needle with special beveled tip which is sharpened around the edge. Sharp pointed trocar is used for initial skin pierce. Special shaped Biopsy Stop (curved pin) eliminates loss in handling and prevents damage to specimen should the biopsy be drawn into the cannula or into the syringe. Fitted obturator is used for securing biopsy stop in position and to clean the cannula. Adjustable needle stop provides controlled depth penetration for maximum safety.

Cat. No.	Description	Cat. No.	Description
7571 7572	19G TW x 1 5/8" 18G TW x 1 5/8"	7573	Adjustable Needle Stop 19G to 15G
7563	19G TW x 2 3/4"	7580	Biopsy Stop, 19G
7564	18G TW x 2 3/4"	7581	Biopsy Stop, 18G
7565	17G TW x 2 3/4"	7582	Biopsy Stop, 17G
7566	16G TW x 2 3/4"	7583	Biopsy Stop, 16G
7567	15G TW x 2 3/4"	7584	Biopsy Stop, 15G
7568	18G TW x 4 3/4"		
7569	17G TW x 4 3/4"		
7570	16G TW x 4 3/4"		

# **Klatskin Needle**



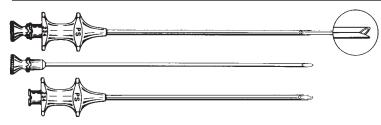
Modified Menghini Technique needle consists of five parts including a thin wall needle with beveled point chamfered to a sharp cutting edge. Initial skin pierce is made with sharp trocar point. Blunt end obturator used for securing biopsy stop in position. Suction syringe is used to aspirate biopsy.

Cat. No.	Description
7870	19G TW x 2 1/4"
7600	16G TW x 4"
7573	Adjustable Needle Stop 19G to 15G
7580	Biopsy Stop, 19G
7583	Biopsy Stop, 16G



# LIVER, KIDNEY and SOFT TISSUE BIOPSY continued

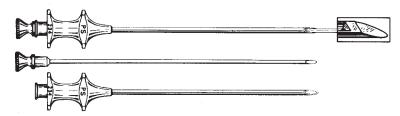
# Silverman, Standard (3 Piece) Needle with Split Cannula



Has large spool type hub for firm gripping; outer cannula has sharp beveled point and a fitted stylet with matched point. Split inner cannula, made with special drawn biopsy tubing, has sharp points and keen cutting edges which protrude beyond outer cannula.

Cat. No.	. Description	
7605 7593 7594	14G x 3 3/8" 14G TW x 2 3/8" 14G TW x 3 3/8"	

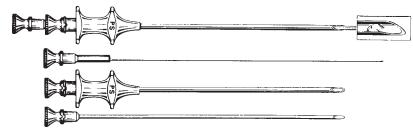
# Vim Silverman, (Franklin 3 Piece) Needle with Split Cannula (Filled Tip)



This three piece needle has a large spool type hub for firm gripping; outer cannula has sharp beveled point and a fitted stylet with matched point. Split inner cannula has special distal filled tips which close on and pinch off the biopsied tissue. This special design helps to lessen the possibility of biopsy failure. There is no need therefore to rotate the outer cannula over the inner cannula to free the specimen.

Cat. No.	Description
7607	14G TW x 3 3/8"
7608	14G TW x 4 1/2"
7609	14G TW x 6"

# Silverman, Modified (4 Piece) Needle with Split Cannula (Snare)



This four piece modification has an outer 14G thin wall cannula with sharp beveled point and a fitted stylet with matched point. The inner biopsy cannula has sharp keen cutting edges and a special snare at the distal end for biopsy retention. These snares help to sever, rather than tear the biopsied tissue. A fitted stylet is provided for biopsy removal.

Cat. No.	Description
7595	14G x 3 3/8"
7596	14G TW x 4 1/2"



# LIVER, KIDNEY and SOFT TISSUE BIOPSY continued

# **Quincke Babcock Needle**



 Cat. No.
 Description

 7322
 18G x 3"

Cat. No. Description

20G TW x 5 1/2"

7829

Has a female luer hub, sharp pointed cannula and a fitted stylet with matched beveled point.

# Wescott\* Type Biopsy Needle



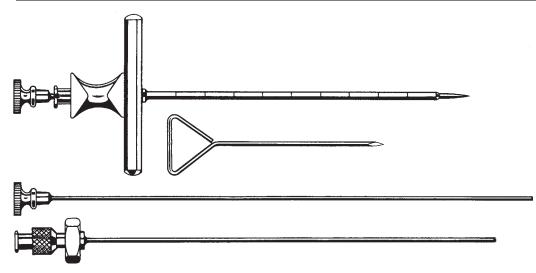
This two piece thin wall needle features a special slotted opening, 2.2mm in length located approximately 3mm from the needle tip. This opening creates a second cutting edge besides the needle tip itself, this combination permits larger amounts of biopsied tissue to be aspirated, adequate for both histologic and cytologic sampling. Used for Direct Percutaneous Needle Aspiration of Localized Pulmonary Lesions for both superficial and deep lesions.

\*Wescott is a registered trademark of Becton, Dickinson and Co.



# **BONE MARROW ASPIRATION and TRANSFUSION**

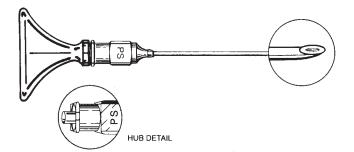
# **Ackerman Bone Biopsy Set**



Used to biopsy the pelvis, sternum, vertebrae, and bones of the cranium and face. Consists of an outer guide with 1cm graduations which has an inner pencil pointed stylet, a trephine needle, obturator and skin piercing trocar.

Cat. No.	Description
3045	12G x 4"

# **Bierman Needle**





Used for multiple bone aspirations from the posterior iliac spinous area. This special 16 gauge needle features a Deflected (Huber) pointed cannula which extends through the female luer lock hub, thus providing increased security during needle introduction. Matched inner stylet features extra wide concave cap for greater handling ease.

# **Conrad Crosby Needle**



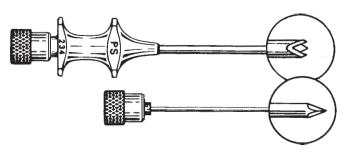
Used for biopsy of the iliac crest. Has a large spool hub for firm gripping, short outer cannula with beveled point and a fitted stylet with matched point. Split inner 17G cannula extends 1/2" beyond outer cannula.





# **BONE MARROW ASPIRATION and TRANSFUSION** continued

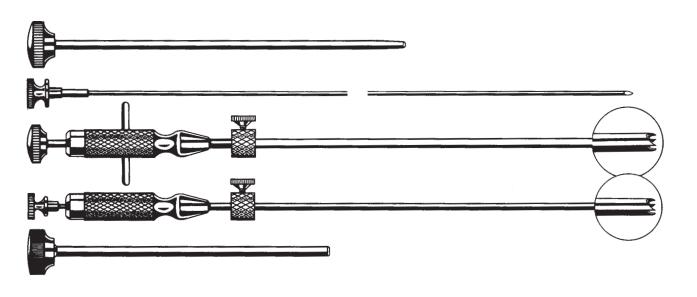
# **Gardner Type Bone Marrow Biopsy Needle**



Has large spool type female luer hub and a sharp 3 sided trephine type point which is aligned with the facets of the matched trocar pointed fitted stylet. Stylet includes a male luer lock hub, which engages with the female luer spool hub to prevent retraction during biopsy procedures.

Cat. No.	Description
7873	13G x 1 1/2"

# **Harlow Wood Spinal Biopsy Set**



Obtains an adequate specimen for histological examination and offers both a 2mm and 3mm internal bore from toothed trephines in the same set.

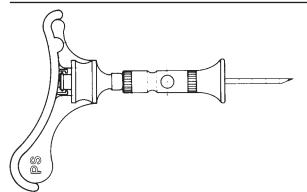
 Cat. No.
 Description

 8057
 6 1/2G x 4 21/32"



# **BONE MARROW ASPIRATION and TRANSFUSION** continued

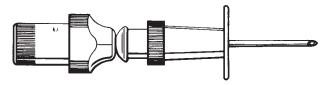
## "I" – Illinois Sternal/Iliac Type Bone Marrow Aspiration Needle



# Cat. No. Description 7833 16G x 1 5/8"

This two piece needle set is used for bone marrow aspiration in either a Sternal or Iliac approach. The adjustable depth penetration stop is usually removed during the Iliac approach but easily screws down for proper depth of cannula penetration during a Sternal approach. The contoured saddle handle provides optimum results with minimum hand pressure and added gripping comfort.

# Illinois Sternum/Iliac Aspiration Needle

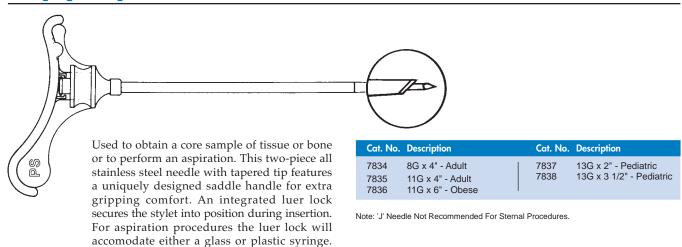


Equivalent to Baxter V. Mueller University of Illinois Needle. V. Mueller is a registered trademark of Baxter Healthcare Corp

Cat. No.	Description		
7832	15G x 1"		

This improved design all stainless steel needle is used for bone marrow aspiration in either a Sternal or Iliac approach. The female luer spool hub accepts all glass or plastic syringes. The knurled stylet cap with male luer lock engages the female luer spool hub to prevent retraction during biopsy procedures.

# "J" – Jamshidi\* Type Bone Marrow Biopsy/Aspiration Needle



Similar to Baxter Jamshidi Needle. Jamshidi is a registered trademark of Baxter Healthcare Corp.



# **BONE MARROW ASPIRATION and TRANSFUSION** continued

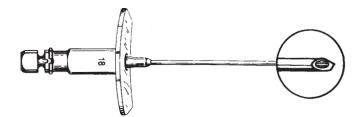
# **Jones Sternal Puncture Needle**



Cat. No.	Description
7561	16G x 1"

Has a large knurled luer lock hub and looped wire clamp,  $30^{\circ}$  point with fitted stylet.

# **Morrison Bone Biopsy Needle**



Cat. No.	Description
7875	18G x 1 1/2"

beveled point.

Has a female luer lock hub attached to a gripping shield. Cannula has a medium bevel with unique feature of the right side of the bevel being slightly lower than the left. Fitted stylet has matched



# BONE MARROW ASPIRATION and TRANSFUSION continued

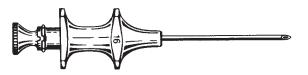
# **Osgood Needle**



Cat. No.	Description
7555	19G x 1/2"
7556	18G x 1"
7557	16G x 1 5/16"

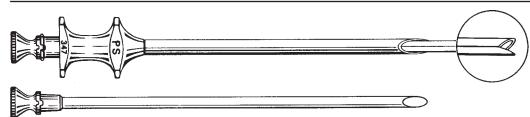
Used for bone marrow biopsy and transfusion. These extremely fine and short gauge needles are commonly used for procedures on babies and neonates.

# **Rosenthal Needle**



Used for bone marrow and transfusion. Has large spool type female luer hub and a sharp pointed cannula; fitted stylet has a matched beveled point.

<b>Large Type Silverman N</b>	eedle
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This 3 piece needle is used for biopsy of the iliac crest. The 13 gauge inner special split cannula extends 1/2" beyond the sharp pointed 10 gauge outer cannula. Includes a fitted matched stylet which is used with the outer cannula for initial puncture. Optional gripping handle can be used for easier manipulation.

Cat. No.	Description
7606	10G x 3"
7819	Gripping Handle

# Cat. No. Description 7558 18G x 1" 7552 16G x 3/4" 7559 16G x 1 5/16"

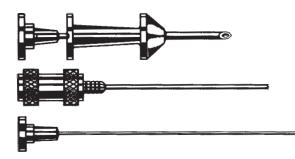
7553

16G x 2"



# **BONE MARROW ASPIRATION and TRANSFUSION** continued

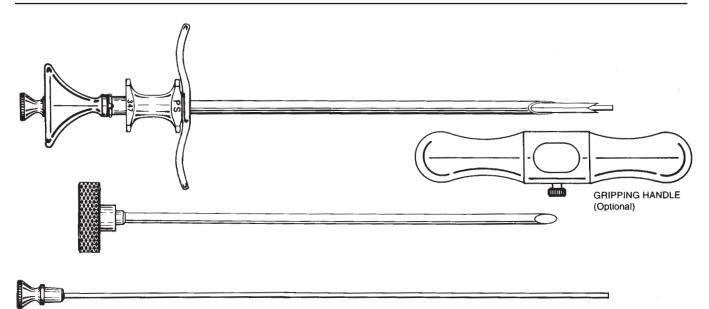
# **Turkels Bone Marrow Set (with Trephine)**



Cat. No.	Description
8060	12G x 25/32"
8061	14G x 25/32"

This needle is utilized in the administration of fluids through bone marrow. The unique design of this needle safely pierces the skin and allows the trephine needle to be inserted to safely cut into the anterior bony wall, retaining broken particles as a core, thus preventing blockage and clots within the marrow and needle.

# Westerman Jensen Needle



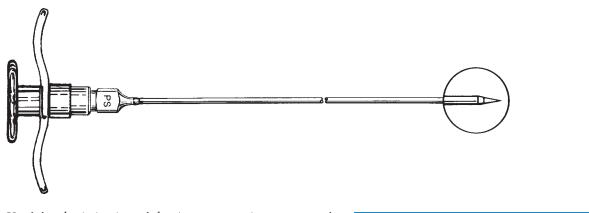
Used for biopsy of the iliac crest. Has large spool female luer hub with special finger grips and a 10 Gauge short beveled outer cannula. Fitted stylet has a male luer lock cap which, for security, engages the female luer hub of the outer cannula during insertion. The 13 Gauge split inner cannula protrudes 1/2" beyond the outer cannula. An optional plastic Gripping Handle offers easier manipulation. Extra 13 Gauge inner cannula are also available.

Cat. No.	Description
7820	10G x 4 1/4"
7819	Gripping Handle (optional)
7818	13G Split Inner Cannula (optional)



# BONE MARROW ASPIRATION and TRANSFUSION continued

# **Wolf Antrum Needle**

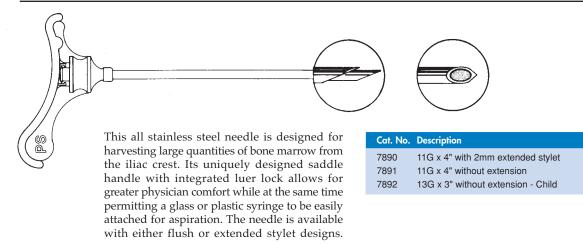


Used for the irrigation of the Antrum, restricts passage of splinters. Outer 15 gauge cannula has female luer hub and is blunt and tapered. This unique design helps to minimize bone trauma. Close fitting inner stylet with pencil point has finger grips and a male luer lock cap which engages for security the female luer hub of the outer cannula during insertion.

Cat. No.	Description
7872	15G x 3"

# **BONE MARROW TRANSPLANT NEEDLE**

# **Steis Bone Marrow Transplant/Aspiration Needle**

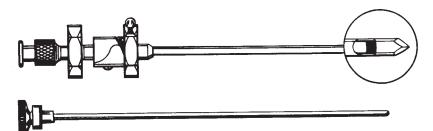




# **BONE MARROW TRANSPLANT NEEDLES** continued

## **PLEURAL BIOPSY**

# **Abrams' Pleural Biopsy (Punch) Needle Set**



This 3 piece needle set enables a specimen to be taken from the pleura with reduced risk of damage to the lung. It consists of two concentric tubes and a solid stylet used solely for cleaning after securing the biopsy specimen. Behind the trocar point is a deep notch which can be closed with a rotary movement of the inner tube thereby cutting and holding any engaged tissue. A locking clip holds the needle firmly in either the open or closed position to prevent inadvertent movement.

 Cat. No.
 Description

 8040
 8G x 3 1/2"



# **PLEURAL BIOPSY** continued

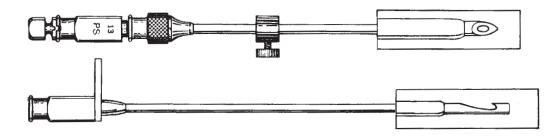
# Anderson (Abrams' Modified) Pleural Biopsy Punch



This instrument incorporates a three way stopcock as an integral part, thus eliminating an additional junction where air leakage may occur when used for combined Thoracentesis and Plueral Biopsy.

Cat. No.	Description	
8042	8G x 3 1/2"	

# **Cope Needle Set**



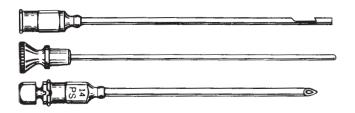
Consists of five parts including an 11G outer needle with tapered end and an adjustable needle stop. Inner 13G needle has beveled puncture point and fitted stylet. Inner 13G biopsy snare has hook shape for sample collection

Cat. No.	Description
7603	11G x 3"
7574	Adjustable Needle Stop, fits 11G to 14G



# **SYNOVIAL BIOPSY**

## **Parker Pearson**



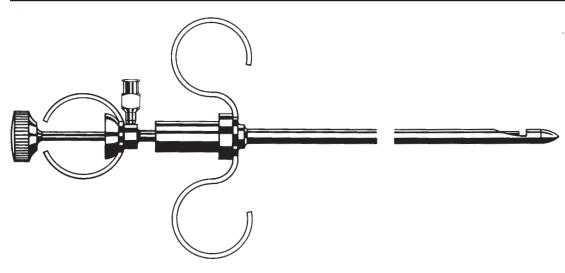
 Cat. No.
 Description

 7604
 14G TW x 2"

Consists of four parts including a 14G thin wall sharply beveled outer needle with fitted stylet. Specially made 15G inner needle has square cut end with hook shaped window and a round end fitted stylet.

## **MUSCLE BIOPSY**

# **U.C.H. Skeletal Muscle Biopsy**



For biopsies of muscles such as quadreceps femoris, gastrocneminus, tibialis anterior, deltoideus, pectorelis, biceps brachialis, triceps and erector spinae. Additional benefits of this product include an aspirating facility for use during the biopsy procedure and is economically preferable to open biopsy since it is essentially an out-patient procedure.

Cat. No.	Description
8065	8G x 3 1/8"
8066	7G x 4 3/4"
8067	6G x 4 3/4"
8068	1/4" O.D. Tubing x 4 3/4"



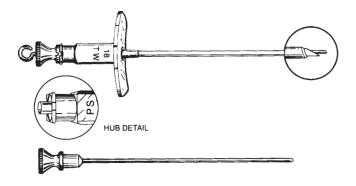
# CARDIOLOGY and RADIOLOGY NEEDLES

While the majority of arterial pressure monitoring, arterial blood sampling, cardiac output measurement and other similar cardiovascular and radiology procedures employ disposable needles and catheters, the **Popper** Needles listed in this section respond to individual medical procedures where Reuseable Needles continue to be "of choice".

The listing of Cardiovascular and Radiology Reuseable Procedure Needles which follow includes standard instruments, long familiar to physicians, as well as newer needles and modifications. This comprehensive range of instruments, manufactured to rigid standards for high quality workmanship and performance, have made the **Popper** Procedure Needles a choice of professionals worldwide.

# ARTERIOGRAPHY and PERCUTANEOUS VASCULAR CATHETERIZATION

# **Cournand Needle**

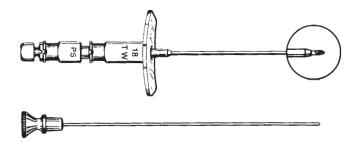


#### Cat. No. Description

7610 18G x 2 3/64"

For intermittent arterial blood sampling or catheterization. Most popular sizes include 18 gauge outer cannula with precision beveled point which is aligned with the sharp short beveled point of the 21G inner cannula (encircled illustration). Outer cannula extends 3/32" beyond luer hub to prevent blood coagulation inside the hub using the closely fitted round end obturator between aspirations. The kidney shape flange facilitates handling and retains the needle in position.

# **Seldinger Needle**

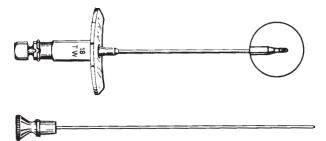


#### Cat. No. Description

7639 18G TW x 2 3/4" - Accepts Guide Sizes .035"/.038"

Used for cannulization or arterial catheterization employing the Seldinger technique. Needle assembly consists of four components including thin wall outer cannula with blunt tapered point. Inner cannula has a short sharp beveled point and a fitted stylet. Blunt rounded obturator is used to plug outer cannula after insertion. Chrome plated kidney shaped flange facilitates handling.

# **Seldinger Modified 3-Part Needle**



#### Cat. No. Description

7842 18G TW x 2 3/4" - Accepts Guide Sizes .035"/.038"

This needle assembly consists of a thin wall outer cannula with blunt tapered point, a short beveled cutting stylet and blunt obturator.



# CARDIOLOGY and RADIOLOGY NEEDLES

# **ARTERIAL, INTRAVENOUS and BLOOD TRANSFUSION**

# **Intra Uterine Fetal Transfusion (Tuohy) Needle**



Has a deflected beveled point with a dulled heel and a closely fitted stylet with a matched bevel point. Needle is used with vinyl tubing or catheter.

Cat. No.	Description
7536	17G TW x 7"
7537	16G TW x 7"

# **Lindeman Needle**



Has sharp pointed inner cannula for initial puncture, fitted tapered blunt middle cannula and outer cannula with luer hub. Both middle and outer cannula dilate puncture.

Cat. No.	t. No. Description
7653	53 18G x 1 5/16"
7654	54 16G x 1 5/16"

# **Titus Venoclysis Needle**



Also called B.C.H. Cannula. Has a blunt end cannula and a fitted round end stylet. A retention bead is positioned 1/4" from end of cannula to help keep it in the vein.

Cat. No.	Description	

7647 18G x 1 1/4"

(Needle may be ordered without retention bead as a custom version.)

# **Titus Venoclysis Needle with Security Stop**

Has round end stylet which is inserted into cannula to prevent clogging. Needle is used in pediatric work.

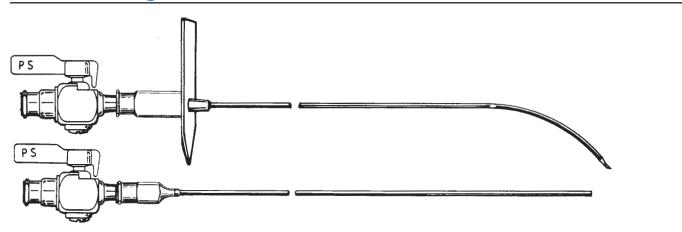
Cat. No.	Description
7648	22G x 1/2"
7649	20G x 1/2"



# CARDIOLOGY and RADIOLOGY NEEDLES

# **CATHERIZATION and CARDIAC PUNCTURE**

# **Brockenbrough Needle Set**



Used for transseptal left heart catheterization. Includes a Ross type puncture needle, integrated one-way stopcock hub and directional pointer, cannula has curved end with bevel point. Catheter guide has straight cannula with fully rounded blunt tip which is secured to one-way stopcock.

Cat. No.	Description		
7672	19G x 56cm (Child)		
7673	18G x 71cm (Adult)		

# **Cardiac Puncture and Catheterization Needle**



Has fitted stylet and matched bevel point. Used extensively in cardiovascular procedures for cardiac puncture or catheterization.

Cat. No.	Description	Cat. No.	Description
7333	21G TW x 6"	7342	17G TW x 1 1/2"
7334	20G TW x 1 1/2"	7343	17G TW x 7"
7335	20G TW x 2"	7344	16G TW x 1 1/2"
7336	20G TW x 6"	7345	16G TW x 2"
7337	19G TW x 1 1/2"	7346	15G TW x 2"
7338	18G TW x 1 1/2"	7347	14G TW x 2"
7339	18G TW x 2 1/2"	7348	13G TW x 2"
7340 7341	18G TW x 4 1/4" 18G TW x 6"	7349	12G TW x 2"

# **Direct Transthoracic Needle**



Has a blunt tapered end and a closely fitted stylet with a diamond shaped or trocar point. Needle can be used with a transventricular catheter for direct entry into the left ventricle. 
 Cat. No.
 Description

 7671
 18G TW x 6"



# CARDIOLOGY and RADIOLOGY NEEDLES

# **AORTOGRAPHY, ANGIOGRAPHY**

# **Dos Santos Needle**



For lumbar aortography and left ventriculography – Has luer lock hub and thin-wall cannula with closed short bevel point and see-through hole, for infusing the injection, 3.5 to 4mm from point. Has fitted stylet which occludes the side opening when fully inserted. Side hole creates a lateral dispersion of the X-ray opaque dye and thus minimizes the movement of the needle and extravasation.

	)

 Cat. No.
 Description

 7704
 18G TW x 7"

 7705
 17G TW x 7"

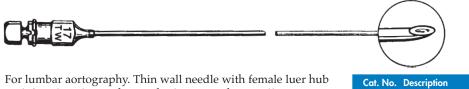
# **Lumbar Aortography Needle**



Has a female luer hub, sharp pointed thin wall cannula and a fitted stylet with matched bevel point.

Cat. No.	Description	Cat. No.	Description
7341	18G TW x 6"	7349	12G TW x 2"
7343	17G TW x 7"		

# **Touhy Needle**



and fitted stylet with matched point. The needle point is deflected (Huber\* type) with the heel of the bevel dulled.

\*Huber is a registered trademerk of Becton, Dickinson and Co.

 Cat. No.
 Description

 7536
 17G TW x 7"

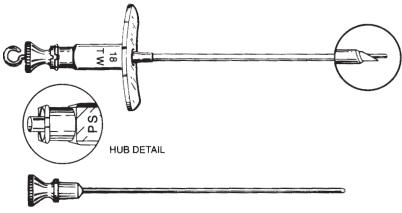
 7537
 16G TW x 7"



# CARDIOLOGY and RADIOLOGY NEEDLES

# **CEREBRAL ANGIOGRAPHY**

# **Cournand Needle**



For intermittent arterial blood sampling or catheterization. Most popular sizes include 18 gauge outer cannula with precision beveled point which is aligned with the sharp short beveled point of the 21G inner cannula (encircled illustration). Outer cannula extends 3/32" beyond luer hub to prevent blood coagulation inside the hub using the closely fitted round end obturator between aspirations. The kidney shape flange facilitates handling and retains the needle in position.

Cat. No.	Description
7610	18G x 2 3/64"
7614	18G TW x 2 3/64"

# **Dos Santos Needle**



For lumbar aortography and left ventriculography – Has luer lock hub and thin-wall cannula with closed short bevel point and see-through hole, for infusing the injection, 3.5 to 4mm from point. Has fitted stylet which occludes the side opening when fully inserted. Side hole creates a lateral dispersion of the X-ray opaque dye and thus minimizes the movement of the needle and extravasation.

Cat. No.	Description
7704	18G TW x 7"
7705	17G TW x 7"

# **Karras Needle**



Has luer lock hub and blunt tapered thin-wall cannula with close-fitting inner stylet with pencil point. For percutaneous retrograde brachial renal angiography. 
 Cat. No.
 Description

 7711
 17G TW x 3"



# CARDIOLOGY and RADIOLOGY NEEDLES

# **CHOLANGIOGRAPHY**

# **Chiba Type Transhepatic Cholangiography Needle**

Extremely flexible thin-wall outer cannula with matched stylet features a short bevel buffed heel. Used for the Radiographic Visualization of Bile Ducts, Renal Cystic Puncture as well as Biopsy Procedures.

Cat. No. De	escription	Cat. No.	Description
	3G TW x 6" 8G TW x 8"		22G TW x 6" 22G TW x 8"

# DISCOGRAPHY

# **Intradiscal Needle**



Used in the treatment of intervertebral disc herniation through chemonucleolysis. Quincke point provides safe and smooth insertion while matching stylets minimize undesirable leakage.

Cat. No.	Description	Cat. No.	Description
7372	22G x 6"	7370	18G x 4 1/2"
7373	22G x 8"	7325	18G x 6"
7376	22G x 9"	7375	18G x 7"
7374	22G x 10"	7371	18G x 8"



Cat. No. Description

19G x 3 1/2"

18G x 3 1/2"

16G x 3 1/2"

7729

7730

7732

# CARDIOLOGY and RADIOLOGY NEEDLES

# VENTRICULOGRAPHY

# **Cone Ventricular Round End Needle**



Has luer lock hub and cannula with closed rounded point with two side holes, spaced apart on opposite sides. Supplied with fitted stylet.

# **Thin Wall Needle**



Has luer lock hub and fitted stylet with matched beveled point.

Cat. No.	Description		Cat. No.	Description
7333	21G TW x 6"	T	7336	20G TW x 6"

Cat. No. Description

7734

7736

14G x 3 1/2"

12G x 3 1/2"

# **Dos Santos Needle**



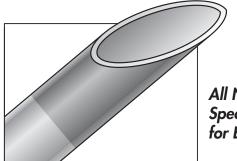
For lumbar aortography and left ventriculography – Has luer lock hub and thin-wall cannula with closed short bevel point and see-through hole, for infusing the injection, 3.5 to 4mm from point. Has fitted stylet which occludes the side opening when fully inserted. Side hole creates a lateral dispersion of the X-ray opaque dye and thus minimizes the movement of the needle and extravasation.

Cat. No.	Description
7704	18G TW x 7"
7705	17G TW x 7"



# ECHO-GENIC<sup>™</sup> NEEDLES For Use With Ultrasound

Our product line of needle points specially treated for use in ultrasound techniques provides many advantages over conventional interventional techiques. The method avoids patient exposure to X-rays, the required equipment is relatively compact and inexpensive, visualization of soft tissue organs is stable and three dimensional guidance is easily achieved. Ultrasound guidance has become the standard for biopsy diagnosis of abnormalities in fluid filled organs. Our new group of ECHO-GENIC<sup>™</sup> NEEDLES are made to the same rigid standards which has characterized Popper & Sons' long standing reputation as a high quality manufacturer of a wide range of biomedical needles.



All Needle Points Specially Treated for Echogenicity

# **Amniocentesis Needle with Echo-Genic Tip**



Used for aspiration of fluid from amniotic sac. Among indications for this procedure are: second trimester genetic diagnoses, evaluation of fetal lung maturity near term and surveillance of Rh-sensitive patients.

Cat. No.	Description	Cat. No.	Description
8023	22G TW x 3 1/2"	8027	20G TW x 3 1/2"
8024	22G TW x 4"	8028	20G TW x 4"
		8029	20G TW x 6"

# **Breast Lesion Localization Needle with Echo-Genic Tip**



Has female luer hub and sharp pointed cannula. Six .006" diameter wires are provided with each needle. Used for preoperative marking of nonpalpable breast lesions.

8019 20G TW x 2"	Cat. No.	. Description	
8020 20G TW x 3 1/2" 8021 20G TW x 5"			

# **Chiba Biopsy Needle with Echo-Genic Tip**



Extremely flexible thin wall outer cannula with matched stylet features short bevel with buffed heel. Also used for the Radiographic Visualization of Bile Ducts and Renal Cystic Puncture.

 Cat. No.
 Description

 8005
 22G TW x 6"

 8006
 22G TW x 8"

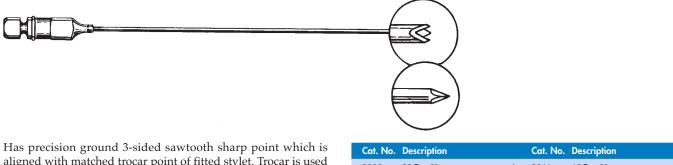
Also available with Standard Tip see page 11B

CUSTOM MADE NEEDLES AVAILABLE - CALL/FAX YOUR SPECIAL REQUIREMENTS - ALL NEEDLES FURNISHED NON-STERILE



# ECHO-GENIC<sup>™</sup> NEEDLES For Use With Ultrasound

# Franseen Biopsy Needle with Echo-Genic Tip

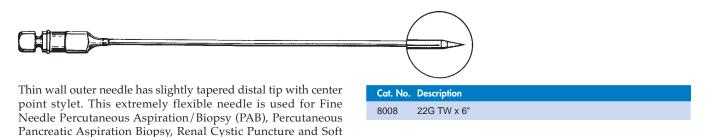


Has precision ground 3-sided sawtooth sharp point which is aligned with matched trocar point of fitted stylet. Trocar is used to introduce the needle. Used with suction syringe to aspirate biopsy.

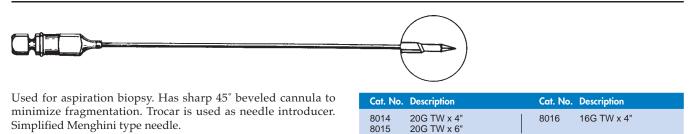
Tissue Biopsy.

Cat. No.	Description		Cat. No.	Description
8009	22G x 6"	1	8011	18G x 6"
8010	20G x 6"			

# **Madayag Biopsy Needle with Echo-Genic Tip**



# **Turner Biopsy Needle with Echo-Genic Tip**



REFERENCES: Henry O. Wheeler, Eric van Sonnenberg: "Intervetional Ultrasound" 1987. Hiroki Watanabe abd Masatoshi Makuuchi: "Interventional Real-Time Ultrasound" 1985.



# IN VITRO FERTILIZATION NEEDLES

**Popper** has developed these specialty treated Needles to meet the increased demands for IN VITRO FERTILIZATION procedures. We offer various lengths for TRANSVAGINAL SONOGRAPH-ICALLY GUIDED OOCYTE RECTRIEVAL through FOLLICLE ASPIRATION. The longer length Needles permit TRANS-VAGINAL PUNCTURE as an alternative with VAGINAL probe. The Needle is introduced through the vaginal fornix into the

ovary and, in cases of a high ovary, a TRANSVAGINAL -TRANSVESCICAL procedure may be used. With the specialy treated point, Ultrasound visualizes all medium and large follocles as well as the needle tip.

As a growing alternative to LAPAROSCOPY, this simple effective procedure can be achieved on an outpatient basis.

# Strasbourg-Fairfax<sup>™</sup> IVF Needles



- Extra sharp beveled point provides smooth and safe insertion
- Full length matching stylet
- Female luer end for attachment to syringes or aspiration adapter

Cat. No.	Description	Dimensions
7389 7390	17G TW x 12 1/2" 17G TW x 13"	0.058" OD 0.048" ID
7387	16G TW x 13"	0.065" OD 0.054" ID

REFERENCES: Profeeeur Pierre Dellenbach, Dept. of Obstetrics and Gynecology Center Médico-Chirugical et Obstérical de la Sécurité Sociale 19, rue Louis Pasteur Schiltigheim 67402 Stradsbourg Cédex France



Cat. No. Description

23G x 5/8"

7763

# PROCEDURE NEEDLES Miscellaneous

The prior pages of this Procedure Needle section are conveniently grouped into major product headings – Anesthesia, Biopsy, Cardiology and Radiology. In addition to the extensive selection of products within each major group, Popper also offers several types of small groups of needles under a single Miscellaneous heading. The last few pages in this section are dedicated to those miscellaneous Procedure Needles and as these groups grow, separate sections will be devoted to them.

# **EYE NEEDLES**

# **Lacrimal Straight**



Has luer lock hub, stainless steel cannula, blunt point, 3/4" reinforced extension.



# **Lacrimal Curved**



Has luer lock hub, stainless steel cannula, blunt point, 3/4" reinforced extension.

# **Lacrimal Stainless**



Has luer lock hub, stainless steel cannula with regular medical point.

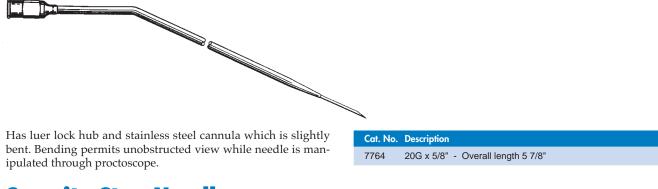
Cat. No.	Description	Cat. No.	Description
7102 7105	30G x 1/2" 30G x 1"	7106 7107	30G x 1 1/2" 30G x 2"
		7761	23G x 1" - Blunt Point



# PROCEDURE NEEDLES Miscellaneous

# **TONSIL - HEMORRHOIDAL NEEDLES**

# **Frankfeldt Needle**



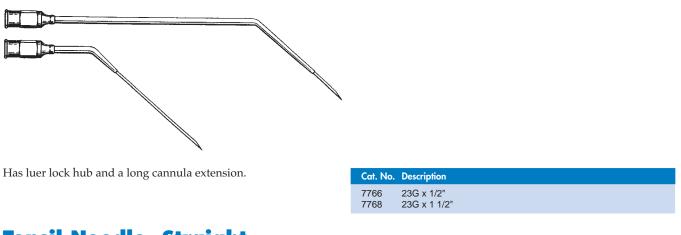
# **Security Stop Needle**



Has luer lock hub with sharp pointed cannula, with security stop affixed near the hub.

Cat. No.	Description
7510	20G x 4"

# **Tonsil Needle, Curved**



# Tonsil Needle, Straight



Has luer lock hub and a long cannula extension.

 Cat. No.
 Description

 7767
 23G x 3/4"



PROCEDURE NEEDLES Miscellaneous

## THORACENTESIS and PERICARDIOCENTESIS FLUID DRAINAGE

# Fluid Drainage - Hypodermic Type Needle



Has luer lock hub and stainless steel cannula with regular medical point. A 0.030" hole is found on the heel of the bevel.

Cat. No.	Description		
7681	18G TW x 3 1/2"		
7682	16G TW x 3 1/2"		

# Fluid Drainage - Spinal Type Needle



Has luer lock hub and thin wall outer cannula which is blunt and tapered. A thru hole 1/32" in diameter is 1/16" from the distal end. The fitted stylet has a short bevel.

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Cat. No. Description 7683 15G TW x 3"

# **Thoracentesis Needle**



Has a luer lock hub and stainless steel cannula with a tapered blunt end. Three 0.036" diameter holes are found within 1/2" of the distal blunt end. A fitted trocar stylet extends 5/32" from the distal end.

 Cat. No.
 Description

 7680
 14G x 2 1/2"

# **VARICOSITY NEEDLES**

# **Varicosity Needles**



Has luer lock hub, stainless steel cannula with regular medical point.

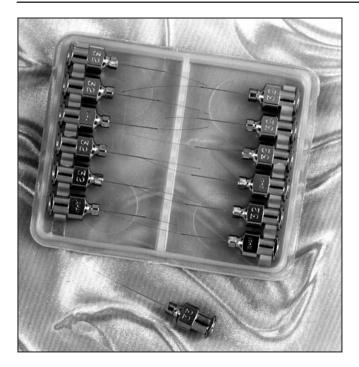
Cat. No.	Description	Cat. No.	Description
7102	30G x 1/2"	7106	30G x 1 1/2"
7105	30G x 1"	7107	30G x 2"

CUSTOM MADE NEEDLES AVAILABLE - CALL/FAX YOUR SPECIAL REQUIREMENTS



# PROCEDURE NEEDLES Miscellaneous

# **Sclerotherapy Micro-Needles**



High quality needles for vein sclerosing, dermatology and plastic surgery procedures. They are securely packaged and guaranteed to be Blockage Free with the included stylet wire shipped with each needle.

Packaging: 12 needles per box. Minimum order size: 1 box. Made in Japan.

Cat. No.	Description
7108	32G x 1/4"
7109	32G x 3/8"
7110	32G x 1/2"
7111	33G x 1/4"
7112	33G x 3/8"
7113	33G x 1/2"