

September 21 - 23, 2007

**15th Complete Course
in External Skeletal Fixation**

Presented by Department of
Veterinary Clinical Sciences
Iowa State University
Ames, Iowa USA

A unique opportunity to join some of the most experienced surgeons and teachers anywhere for a 2.5 day orthopedic surgery course, including 6 laboratory sessions. Previous courses have been enthusiastically received and have attracted veterinarians from all over the world. Many participants find that repeating the course is extremely beneficial and allows them to refine the technical subtleties of external fixation after having experience with it from their 1st course. Approximately 30% of the material presented each year is new or changed from the previous years. The course is a comprehensive forum in which skills in orthopedics and external skeletal fixation can be developed and refined. Everyone is encouraged to learn at their own pace in an informal and interactive atmosphere.

Participants will receive a certificate for 25 hours of continuing education credit.

Program Faculty:

Dennis Aron, DVM, Dip. ACVS
Alan Cross, DVM, Dip. ACVS
Erick Egger, DVM, Dip. ACVS
Karl Kraus, DVM, Dip. ACVS
Arnold Lesser, DVM, Dip. ACVS
Ross Palmer, DVM, Dip. ACVS
Robert Radasch, DVM, Dip. ACVS
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**Ask about the
Optional 4th Day of
Hybrid ESF**

all devices, we will assume the surgeon desires the ability to handle a variety of patient sizes and breeds – not to include large animals. Also, the assumption is made that the practice owns basic IM pin and wire inventory and basic orthopedic instruments. The data presented here is taken from a lecture titled *Economics of ESF and Creating an ESF Pack* given by Bob Radasch, DVM at the recent **14th Complete Course in External Skeletal Fixation at Iowa State University**. I have increased Dr. Radasch's estimates of ESF start-up expense by adding 2.0mm drill bits, pins, and drill sleeves. Costs for bone plates and screws came from the catalog price list of a mid-range cost plate/screw supplier and interlocking nail costs were from the leading nail manufacturer's price list. Cost estimates:

IMEX™ SK™ ESF System

Equipment

Drill Bits (2 each)	2.0, 2.3, 3.1 and 3.9mm
Drill Sleeves	2.0, 2.3, 3.1 and 3.9mm
Wrenches (2 each)	7, 8 and 10mm
COST:	\$421.00

One-time Use Implants

10 Standard Thread INTERFACE™ Half-pins	2.0, 2.4, 3.2 and 4.0mm
2 Cancellous Thread INTERFACE™ Half-pins	2.4, 3.2 and 4.0mm
3 Standard Thread CENTERFACE™ Full-pins	2.0, 2.4, 3.2 and 4.0mm
2 Cancellous Thread CENTERFACE™ Half-pins	2.4, 3.2 and 4.0mm
6 Each Miniature INTERFACE™ Half-pins	.035", .045", .062", 5/64" and 3/32"
COST:	\$722.00

Re-usable Implants

10 Single Clamps	Mini, Small and Large
3 Double Clamps	Mini, Small and Large
Mini External Rods (1 each)	50, 75, 100, 125 and 150mm
Small Carbon Fiber External Rods (1 each)	50, 100, 150, 200 and 250mm
Small Titanium External Rods (1 each)	50, 100, 150, 200 and 250mm
Large Carbon Fiber External Rods (2 each)	50, 100, 150, 200, 250, 300 and 350mm
COST:	\$796.00

Total Cost \$1,939.00

Looking at these total set-up figures as capital expense to inventory a practice with any of the three devices, it is obvious why the SK™ ESF System is the most cost-effective extension of pin and wire fixation. Certainly, each system has its strengths and weaknesses; however, one system is the clear winner from a return on investment standpoint. Ideally, one would own all devices and use which device is best suited to each patient.

Among ESF devices, the SK™ by IMEX™ is uniquely designed to be the most economical by providing adequate fracture stability while using simple frames and requiring minimal equipment. IMEX™ pioneered the simple frame and minimal instrumentation philosophy at a time when most ESF companies promoted complex full-pin frames and bar augmentation applied with expensive instrumentation.

In addition, the SK™ ESF device is designed to be a modular system. If a practice desires increased orthopedic capability, the SK™ device can be readily upgraded to allow construction of hybrid ESF frames for treating problematic juxta-articular

fractures and certain growth deformities without necessitating purchase of another system.

Another way to consider the start-up cost and simplify ordering of a “maximal” IMEX™ SK™ ESF inventory would be to add the costs of the mini, small, and large SK™ starter kits (see chart in side panel), optional drill sleeves, and additional miniature Interface™ half-pins. ■

Bone Plates and Screws

Equipment

Depth Gages	1.5/2.0mm and 2.7/3.5mm
Tap Handle	
Bone Taps	1.5, 2.0, 2.7 and 3.5mm
Drill Bits	1.1, 1.5, 2.0, 2.5, 2.7, 3.5, and 4.0mm
Screw Drivers	1.5/2.0 and 2.7/3.5mm
Plate Benders	
Drill Guide/Inserts	1.5/2.0 and 2.7/3.5mm
Soft Tissue Guides	
Metal Autoclave Containers and Screw Racks	
COST:	\$4,242.00

One-time Use Implants

Screws (6 of each size and length)	Plates (1 of each size and length)
1.5mm (6 - 18mm)	2.0mm (4 5, 6, 7 and 8 holes)
2.0mm (6 - 18mm)	2.7mm (4 5, 6, 7, 8, 9, 10, 11, and 12 holes)
2.7mm (6 - 38mm)	3.5mm (5, 6, 7, 8, 9, 10, 11, 12, 13 and 14 holes)
3.5mm (10 - 36mm)	3.5mm Broad (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18 holes)
4.0mm (10 - 36mm)	
COST:	\$2,794.00
	COST:
	\$2,727.00

Total Cost \$9,763.00

Interlocking Nail

Equipment

Drill Jig	4.0/4.7 and 6.0/8.0
Femur Extension	4.0/4.7 and 6.0/8.0
Tibia Extension	4.0/4.7 and 6.0/8.0
Drill Guides	1.5, 2.0 and 2.5mm
Tap Guides	2.0, 2.7 and 3.5mm
Tap Handles	
Screw Drivers	2.0, 2.5 and 3.5mm
Guide Sleeves	
Depth Gauges	4.0/4.7 and 6.0/8.0
Extended Length Drill Bits	1.5, 2.0 and 2.5mm
Extended Length Taps	2.0, 2.7 and 3.5mm
Reamer	4.0, 4.7, 6.0, and 8.0mm
Attachment Screws	
Hex Driver	
Insertion Tool	
Instrument and Implant Trays	
COST:	\$6,215.00

Implants

Screws (2 of each size and length)	
2.0mm - 25	
2.7mm - 20	
3.5mm - 25	
Bolts	
2.0mm, 2.7 and 3.5mm	
Nails (1 of each size, length and hole configuration)	
4.0/4.7 - 10	
6.0/8.0 - 10	
COST:	\$2,060.00

Total Cost \$8,275.00