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Product & Services Guide | September - December 2020

Is it time to add veterinary boarding to your practice?

Key articles:

- Anesthesia training and checklist
- Monitoring with a capnograph
- tPEMF™ and pain management: A clinical research update

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- - Physical therapy
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 - Scales



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Equipment & Technology

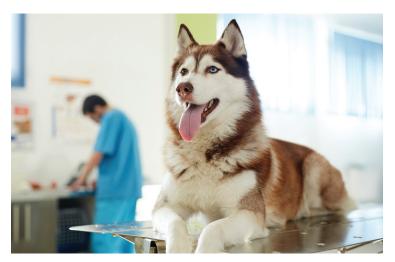
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48 months

(equipment cost x .0259)

at \$

Anesthesia training and checklists

By Jenny Flynn, LVT

When Midmark decided to sponsor the 2020 American Animal Hospital Association (AAHA) Anesthesia and Monitoring Guidelines for Cats and Dogs, we were excited to see the evolution of protocols and procedures that marked hundreds of hours of work by some of the most experienced leaders in the field. These guidelines promised to synthesize years of experience, wisdom and practice into a set of tools to help practitioners provide the best care possible for patients undergoing anesthetic procedures.



When you take the time to read and study the guidelines, you will quickly note how the importance of staff training and using checklists is stressed throughout the text. In this article, learn about our experience with training and checklists and the practical argument supporting their critical value for increased patient and staff safety.

Midmark customers and users of our Matrx[®] anesthesia machines and Cardell[®] vital signs monitors have at their disposal a team of highly trained clinical specialists who take calls from users experiencing trouble or asking questions about their equipment. This team fields thousands of calls each year and must often ask a series of routine questions to diagnose the root of the trouble and develop a plan for how to proceed.

In most cases, the trouble lies in either an equipment maintenance issue or, more generally, a gap in understanding of proper anesthetic procedures. To address these issues, Midmark launched the Anesthesia Monitoring Training and Education Network (AMTEN) to provide in-clinic training for clinical staff on the foundations and best practices for veterinary anesthesia.

According to the new AAHA guidelines, every clinician in your hospital should be well trained, and those operating the equipment should be well versed in its operation and maintenance.

In addition to training, using a pre-procedure checklist is vital to the anesthesia and monitoring process. Even highly trained staff need a written checklist to ensure routine tasks are completed before each case. One study noted that in over 70 percent of some 40,000 veterinary cases, human error was observed.¹ More than half the calls we receive in any given day could have been avoided had a pre-procedure checklist been followed.

In his landmark best seller, The Checklist Manifesto, Atul Gawande noted that checklists "remind us of the minimum necessary steps and make them explicit. They not only offer the possibility of verification but also instill a discipline of higher performance."

> For more information about the Midmark training and educational programs, please contact your Covetrus representative.

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At the 2020 Western Veterinary Conference, just as the new AAHA guidelines were being promoted, Midmark took an informal survey of fifty visitors to gauge the use of checklists in practice. The most difficult question for participants to answer asked for their top three preprocedure checklist items. We were surprised by how much thought this question required, not only for the majority who realized and admitted they did not use a written checklist at all, but also for those who said they did use a checklist but couldn't recall three specific tasks that should be done before every case.

Each veterinary practice should develop their own checklist. You can use the following tasks as a starting point and build consensus from there for your own unique list. Developing your list this way will help develop a sense of ownership and increase the likelihood of its use.

The new AAHA guidelines mention many of the following tasks. We have augmented some tasks based on our experience fielding thousands of troubleshooting calls.

Verbal confirmation of each task/step should be provided to the team to facilitate collaborative communication, and completion should be documented and initialed for the permanent patient record.

- Perform a leak test on anesthesia machine
- Ensure APL valve is open
- Check oxygen supply
- Confirm vaporizer is filled with anesthetic
- Ensure sodalime CO2 absorbent is fresh
- Confirm scavenging is connected
- Test monitoring accessories
- Check patient history for anesthetic implications
- Calculate emergency drugs
- Calculate intra-op drugs

Note that "check equipment" is not a specific enough checklist task. At least half a dozen items should be inspected, noted or checked and should each have their own checklist task. An ambiguous "check equipment" task increases the risk that steps will be missed, which may compromise the patient's safety.

 CLARKE, K. W. & HALL, L. W. (1990) A survey of anaesthesia in small animal practice: AVA/BSAVA report. Veterinary Anaesthesia and Analgesia 17, 4-10

About the author Jenny Flynn, LVT, is the Supervisor of Animal Health Clinical Specialists for Midmark Corp. Special thanks to Andrew Schultz, Jr., MBA, former Director of Monitoring and Critical Care for Midmark and the company's current Director of Business Development and Clinical Services, for his contribution to this article.

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004438	91800003	VMS [®] Anesthesia Machine - Mobile
030058	91800042	VMS [®] Anesthesia Machine - Wall Mount
035437	20232800	VMS [®] Anesthesia Machine - CM Table Mount
050032	8013-001	Multiparameter Monitor with Printer
050035	8013-002	Mutiparameter Monitor without Printer
050036	8013-003	Multiparameter Monitor with Invasive BP and Printer
050037	8013-004	Multiparameter Monitor with Invasive BP without Printer

Monitor not included.



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TIL

Is it time to add boarding to your veterinary practice?

Are you seeing a decline in traditional streams of revenue at your practice? Are you interested in adding another profit center? How about making money while you sleep?

Do you get client requests for boarding?

A medium-sized boarding operation could double a hospital's profits. According to an American Pet Products Association (APPA) national pet owners survey, 67 percent of US households include at least one pet.¹ That equates to 84.9 million homes! Of those homes, half house a dog and one fourth house a cat.

With so many canine and feline pets, it is not surprising that an estimated \$4.7 billion is spent on boarding each year.² Veterinarians have natural advantages to capture a portion of this spend.

The veterinarian advantage

One of the advantages for veterinarians is established trust. Your clients are more likely to board their pets with you, their chosen veterinarian, than at an unknown pet resort. Providing boarding along with your hospital services can give pet owners peace of mind. It can also offer you opportunities to increase revenue in dental procedures, vaccinations, grooming, and other related services as you connect with more animals outside of health-related visits.

Another advantage for veterinarians over independent boarding facilities is their built-in referral network their client base. Not only do clients provide an immediate source to fill your kennels, but their word-of-mouth recommendations are powerful. Social media and online ads can help, but word of mouth can be especially influential.



Designing your boarding space

Once you decide boarding would be a good addition for your hospital, consider how many kennels you want to support. We suggest you start with forty or more. Any fewer may not move the financial needle. With forty kennels, you will need approximately two staff members for walking and cleaning and one staff member to run the front desk. Hospital staff can share some existing teammates between the health services and boarding operations to help keep costs down.

Space is another important consideration for your new boarding operation. Forty to fifty square feet per kennel is typical. That size includes a 4-foot by 6-foot run, aisle space, and food preparation space. So, forty kennels would need approximately 2,000 square feet of space. Even though luxury suites may require more space, be sure to include them in your design. They are typically the first kennels to be sold out during peak boarding times.

A third consideration when you add boarding is financing. Make a budget and a plan. Contact the experts in hospital design at Midmark to help you plan your space. Hire an architect, consultant, or builder with relevant design experience, and they can recommend the various subset experts. When you visit your bank or lending institution, keep in mind the costs for hiring expert help. The good news is that veterinarians are considered ideal borrowers for most financial institutions.³

Seeing it all come together

John M. Strasser, DVM, of Carolina Ranch Animal Hospital and Resort in Garner, NC, notes that it can take five years for a new, stand-alone veterinary practice to break even. Yet for him, using a practice model that included boarding cut that time to two years.

"Providing veterinary services with boarding, grooming and daycare was an immediate hit," says Dr. Strasser. "There is great synergy because referrals and customers come from all sides of the business. Boarding provides immediate business because nearly every pet owner has that need." In the end, he explains, "we provide a one-stop shop by serving our customers through a single connection point all under one roof."

Ready to seize your opportunity? Boarding may be the service you need to boost your business and keep customers coming back.



Sources: 1. www.americanpetproducts.org/press_industrytrends.asp 2. American Pet Products Association 3. BBVA, an affiliate of Compass Bank

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Tired of replacing washers every year? Call Continental today for a free laundry analysis on upgrading to a lasting solution!

Vet clinic's solution to relentless laundry headache

Subpar laundry equipment, constant breakdowns, and laundry pileups relentlessly interrupted "business as usual" at Vondra Veterinary Clinic, in Lincoln, Nebraska. Veterinarian Jeremiah Vondra found himself replacing the clinic's homestyle washer/dryer pair every couple of years. Yet, with each new duo, laundry production and reliability problems persisted.

"Towels piled up saturated in dog urine, blood, and feces," said Vondra. "Sometimes laundry didn't get clean enough and we found ourselves running it through the washer a second time. Many times, the washers failed to operate. No matter how hard we tried, there were always four to five loads remaining at the end of the day. Something had to be done."

Feeling defeated, Vondra sought a lasting solution. He turned to J.H. Stuckey Distributing (Stuckey Distributing), in Omaha, for help. The full-service commercial laundry equipment supplier recommended the clinic replace its latest homestyle washer/dryer set with a commercial-grade, 20-pound capacity Continental Girbau washer and dryer. To save space, a stack unit was installed. Immediately thereafter, good things happened.

The homestyle washer/dryer problem

"The problem with homestyle washers from big box stores is that they aren't engineered for continuous, commercial use," said Joe Baber of Stuckey Distributing. "They certainly are not designed to handle the pet hair and contaminants found in vet clinic laundry because they rely on a pump that tends to get clogged with hair over and over again." As a result, Baber installed a commercial-grade E-Series washer with a gravity drain and trough system. "The gravity drain dumps waste water into a trough system where there's a screen that captures pet hair and other waste," said Baber. "Anything that gets past the screen is ground up by a commercial pump and then pumped into the drain, which prevents clogging. Laundry equipment operators simply clean the screen every day."

It's been two years and Vondra Vet Clinic hasn't had a service call. Even better? The new E-Series washer and dryer completes twice as much laundry per day – and gets it cleaner.

"We are caught up on laundry," said Vondra. "The washer spins out water really well and gets items a lot cleaner. It used to take us two hours to wash and dry a load of laundry with our homestyle equipment. Now it takes a little more than an hour to complete a load. We've gone from four to seven completed loads per day."







High-speed washer for more laundry production

This improvement in production is largely due to the washer's high extract speeds, which reach up to 300 G-force, about 200 G-force more than most toploads and 100-150 more than most similarly sized commercial models. "The high Gs spin out more moisture, which cuts dry time in half and explains the clinic's surge in laundry production," said Baber.

Programmability and auto injection

Finally, while homestyle washers and dryers don't offer much in the area of programmability, the E-Series pair at Vondra Vet Clinic do. The washer's Logi Pro Control allows for complete control over every variable of the wash process – from water temperatures and levels to rotation action, extract speed, and automatic chemical injection. The washer automatically injects detergent and bleach into each load at precisely the right time in the cycle, and at the correct water temperatures, and levels. Operators just load, enter a program number, and press start. Detergents aren't added manually, which prevents chemical overuse and resulting damage to fabrics, according to Vondra. "We don't waste any chemicals," he said, "which also saves us money."

The washer is highly efficient, using just 13.4 gallons of water per load. And, because its high-speed extract cuts drying time, Vondra Vet Clinic uses less natural gas and energy, as well.

Thanks to its E-Series washer/dryer pair, Vondra Vet Clinic has found a new and improved "business as usual."



SKU#	MFG#	DESCRIPTION
SKU#	MFG#	DESCRIPTION
070104	EH020PA102112200	EH20 Commercial Washing Machine, Soft Mount, 20 Pound Capacity
070108	EH030L110111100	EH30 Commercial Washing Machine, Soft Mount, 30 Pound Capacity
070109	EH040L110211100	EH40 Commercial Washing Machine, Soft Mount, 40 Pound Capacity
070110	GCWL1069CDS	LG Stackable Commercial Washing Machine
070111	GDL1329CGW3	LG Stackable Commercial Dryer, Gas
070112	GDL1329CEW3	LG Stackable Commercial Dryer, Electric
070113	KDGBGACW113TN01	KDG Commercial Dryer, 25 Pound Capacity, Gas
070114	KDEBGACW173TN01	KDE Commercial Dryer, 25 Pound Capacity, Electric
070115	KTO35N	CG3040 Dryer, 40 Pound Capacity, Gas, Non-Reversing
070116	KT035E	CG3040 Dryer, 40 Pound Capacity, Electric, Non-Reversing
070117	KT050ON	CG5060 Dryer, 60 Pound Capacity, Gas, Non-Reversing
070118	KT050E	CG5060 Dryer, 60 Pound Capacity, Electric, Non-Reversing

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Drug diversion risk?

Most veterinary practices place false confidence in locked narcotics closets and "gun safes" to protect the clinic's most sensitive stock. Many staff members will admit the key is frequently in plain sight in the lock for most of the day. C-II log books in 3-ring binders, hand-counted physical inventory, and hope and trust were always inadequate. Now, the risks are even higher for employee diversion due to mounting pressure from social distancing, business tension, and strain that an overworked staff can experience.

A 2018 study by the Center for Health, Work & Environment found that 12 percent of surveyed veterinarians were aware of opioid diversion by a staff member, and 44 percent were aware of opioid abuse or misuse by a client or a staff member. One reason for the rising prevalence is ease of access, which can lead to diversion.

To minimize the opportunities for theft of controlled substances, veterinarians have an obligation to go beyond just providing effective physical security. They must initiate additional procedures to reduce access by unauthorized persons. Minimum-security standards for practitioners are set forth in the federal regulations (Title 21 CFR 1300) and should be used as a guidance in evaluating your practice's security.

If the DEA or State Board of Pharmacy performs an audit, veterinarians' overall security controls will be evaluated to determine if they meet the intent of the federal law and regulations to prevent theft or diversion.

"Given that 1 in 10 healthcare workers will abuse drugs, no news is NOT good news when it comes to drug diversion"

- Institute for Safe Medication Practices

Ask these questions when evaluating your own controlled substance and prescription drug storage practices:

- 1. Does your facility have in place a controlled substance and prescription chain of custody procedure?
- 2. Are the controlled substances and prescription drugs in your facility secured?
- 3. Are complete and accurate logs kept for the ordering, storage, dispensing, and disposal of controlled medications?

If you answered "no" to any of these questions regarding controlled substance management, you are at risk of violating the Federal Controlled Substances Act and DEA regulations governing the dispensing, administration, record keeping, storage, and disposal of controlled substances.

How can Covetrus Help?

Consider a practical technology for the storage and inventory of narcotics and high-value medications: NexsysADC from Capsa Healthcare. This easy-touse system holds up to 400 doses in one cabinet; and, management has 24/7 visibility to each transaction and inventory levels through a robust cloud connection and interface to your PIMS. NexsysADC is the highest level of accountability and safety, yet priced below traditional automated dispensing cabinets (ADCs).

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Questions? Contact Erica Kinser, 704.728.9410, ekinser@capsahealthcare.com

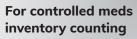
NexsysADC for DEA-Compliant Narcotics Storage

Are you at risk of drug diversion or a DEA audit for your controlled medication inventory? NexsysADC from Capsa Healthcare is the practical choice for safe storage, access, and tracking of controlled and highvalue medications. This automated dispensing cabinet offers the highest level of accountability and safety at a price point well below traditional ADCs, so it ensures a faster ROI for your clinic. See the new NexsysADC 4T countertop cabinet, sized and priced for veterinary practices.

Includes:

- Interfacing to your PIMS
- Full-function automated dispensing cabinet system, at a fraction of the cost of traditional ADCs
- Inventory control and reporting for all medications
- Simple-to-use software and guided access for users
- Online portal for 24/7 access to reports and activity

SKU#	MFR#	DESCRIPTION
070810	NXTC-X1-C01-D000	Includes 1 CAM (controlled access module), up to 25 locking cells, holds up to 150 SKUs
070811	NXTC-X2-C10-D000	Includes 2 CAMs (controlled access module), up to 50 locking cells, holds up to 134 SKUs



Kirby Lester KL1 pill counting device (needs no calibration or interfacing)









Access only the single dose needed



CAMs secure up to 25 SKUs

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- Built-in Piezo ultrasonic scaler with LED light
- Three-way syringe (air, water, and spray)
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SKU#	MFR#	DESCRIPTION
034473	DTP00511	Prestige Mobile Dental Station, LED Piezo Scaler, A/W Syringe





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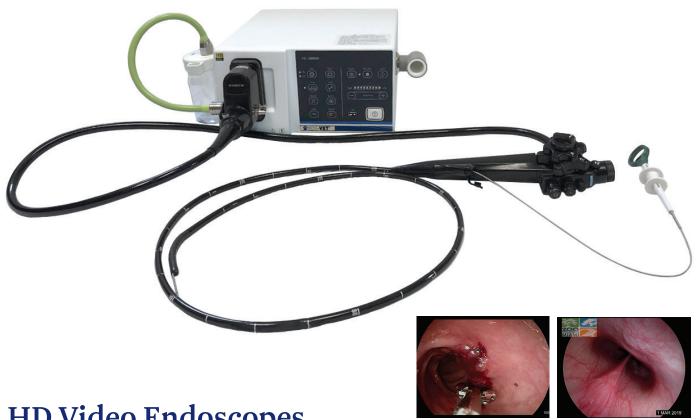
SKU#	MFR#	DESCRIPTION	
062530	10023159	The VETSCAN SA Sediment Analyzer enables practitioners to perform urine microscopy with consistent and efficient high quality images at the point of care.	FUSE
071535	10023120	The VETSCAN VS2 Chemistry Analyzer is a state-of-the-art chemistry, electrolyte, immunoassay, and acid-base analyzer that delivers uncompromising accuracy from just two drops of whole blood, serum, or plasma.	FUSE
071567	10023154	The VETSCAN UA Urine Analyzer is an easy-to-use urine chemistry analyzer that automates urinalysis test strip reading, providing reliable veterinary urine chemistries that include results for urine protein:creatinine (UPC) ratio and microalbumin.	

The VETSCAN Rapid Tests offer you the flexibility to do single or multiplex testing, so you can test for what is needed to make the right clinical decisions, and prevent wasted time and expense.

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SKU#	MFG#	DESCRIPTION
058734	48001-0	HD Video Endoscope System, 2.0 mm Channel, 6 mm x 100 cm
070786	48001-1	HD Video Endoscope System, 2.0 mm Channel, 8 mm x 150 cm
070828	48001-2	HD Video Endoscope System, 2.8 mm Channel, 9.2 mm x 150 cm
070827	48001-3	HD Video Endoscope System, 3.2 mm Channel, 12.9 mm x 350 cm
068156	48053	Cart, Adjustable Shelves with Endoscopy Pole & Rack
068157	48110	DV-350 Surgical Suction Unit with 1,500 ml Canister (AC/DC Unit with Rechargeable Battery)



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See what users are saying about our endoscope...

14 Endoscopy plays a large role in both my general medicine and referral practice. Having always wanted to offer the best service to my patients I realized early on in my career that it was as important to have an endoscope as it was to have a radiology unit or ultrasound. I am firm believer that you need to invest in yourself if you want to be able to provide that level of care. It didn't take long to realize that having the nice equipment not only allowed me to practice a higher level of medicine, but also, increase my income at the same time. It wasn't long before I realized that I needed a flexible scope. On top of the obvious advantages, having the scope brings referrals, second opinions (people would prefer a fish hook removal via endoscopy rather than surgery) and prestige. Advanced equipment is also attractive to potential new hires and, for the basic applications, has a short learning curve.

The scope makes it possible for me to be a better veterinarian by increasing my diagnostic capabilities, my therapeutic reach and my bottom line – which in turn allows me to purchase even more equipment! **17**

Douglas Mader, MS, DVM
 Dilpomate, ABVP (Canine/Feline) Diplomate, ABVP (Reptile/





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- All standard industry detachable blades may be used with this clipper
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Cordless 6-Speed Nail Grinder:

- Delivers plenty of power to trim nails on large dogs, yet quiet for your skiddish patients
- Safety shut-off feature if hair gets caught

SKU#	MFR#	DESCRIPTION
065902	79035	Pulse ZRII Vet Pack Cordless Clipper
070720	79050	Pulse ZRII Purple Galaxy Cordless Clipper
068537	65955	6-Speed Cordless Nail Grinder







Receive a no-charge cordless nail grinder with purchase of either Pulse ZRII Cordless Clipper.



uSmart 3200t

More than seven years ago, Oncura Partners, launched a proprietary, real-time, sonographer-assisted ultrasound to help veterinarians perform ultrasounds with superior training and support. Never did they envision the importance of this program until these most challenging times. Oncura Partner's veterinary ultrasound includes virtual log-in technology and a team of sonographers reading and waiting to show you how powerful you can be. Never leave your practice for training again. All training is in your practice with one of our remote sonographers.

Services include:

- RACE certified training
- Virtual sonographer guidance
- Cardiology
- Radiology
- Internal medicine
- Orthopedic

SKU#	MFG#	DESCRIPTION
071350	21-0002V	Ultrasound





Vertice Preferred



Special financing • Trade-in specials • Deferred payments

Ultrasound Systems

Sonosite, the leader in point of care ultrasound, delivers imaging solutions for veterinary general practice, emergency and critical care medicine. Time constraints, non-compliant patient, ultrasound imaging adjustments, and apprehensions can quickly consume time and resources. Utilizing a point of care ultrasound machine that is efficient, easy-to-use, durable, and images without adjustments saves time, money, and valuable resources.

Sonosite veterinary ultrasound systems are:

- Easy-to-use
- Durable
- 25 second start to scan
- 130,000 systems installed globally*
- 5-year manufacturer warranty including accidental probe drop

SKU#	MFG#	DESCRIPTION
071257	V21822	Edge II Vet has been redesigned to meet the challenges of the veterinary work environment and is durable enough to withstand your most difficult work day. Portable imaging has never been better. Improved resolution and easy to use controls make the Edge II Vet efficient, so you can concentrate on your patients.
071281	V22406	The SII offers unrivaled portability, ease of use, reliability, and durability, Sonosite ultrasounds go where you need it, when you need it. Initially developed for the military, Sonosite portable and kiosk-based systems offer the only manufacturer 5 year warranty. Sonosite takes the guesswork out of imaging with a great diagnostic image that is easy to obtain.
071284	V05323R	Our most versatile system for abdominal, nerve, vascular, cardiac, venous access, pelvic, and superficial imaging. The M-Turbo® ultrasound system gives you striking image quality with sharp contrast resolution and clear tissue delineation. This ultrasound equipment lets you visualize detail, improving your ability to differentiate structures, vessels and pathology.







FUJ:FILM Value from Innovation

SonoSite

Practice Preferred



Email Covetrus today at Equipment-NA@covetrus.com for a live or virtual remote demo with 48-hour trial of a Sonosite system.

Reliability, durability, ease-of-use, and education

A veterinarian's day is unpredictable. Utilizing a point of care ultrasound machine that is reliable, efficient, easy-to-use, durable, and produces images without adjustments saves time, money, and valuable resources.

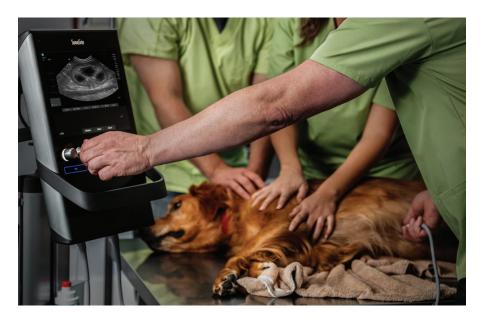
Sonosite systems are able to survive the rigors of veterinary use, and are the most adopted Point-of-Care Ultrasounds (POCUS) available today.

The Sonosite Advantage

- Sonosite systems are built on a foundation of four essential pillars; Reliability, Durability, Ease-of-use, and Education.
- Each system comes with the only comprehensive five-year standard warranty in the industry, including three feet accidental probe drop coverage.
- Over 130,000 systems installed worldwide. 63 percent of practitioners are using Sonosite.*
- Sonosite offers a variety of educational courses, both online and in person, to train everyone from the novice user to the expert.
- Sonosite offers systems for all budgets, with ultrasounds ranging from \$12k to \$60k.
- SonoAdapt[™], automatically adjusts imaging parameters, eliminating time-consuming, and complicated clinician manipulation of multiple controls, promoting quick capture of the optimum image.







Sonosite offers the industry's only comprehensive 5-year standard warranty

Sonosite builds durability and reliability into every ultrasound system we make. This is why in confidence, we offer an industry leading 5-year warranty.

Sonosite portable ultrasound systems are built tough for harsh working conditions. Our systems and proprietary transducers withstand rigorous testing including a 3-foot drop rating and are designed to resist fluid contamination. In the unlikely event your system needs repair, we have a 24-hour delivery loaner program to minimize costly downtime.

Sonosite ultrasound systems raise the bar for veterinary ultrasound standards.

Sonosite education

At Sonosite, we know that learning ultrasound can be challenging. That's why we have a robust educational package for all skills sets from beginner to advanced. We host both live and virtual education courses taught by some of the most esteemed veterinary point of care ultrasound key opinion leaders in the field. Sonosite offers onsite one-on-one individualized clinical training in your clinic to meet your specific learning needs and hosts ~60 regional hands on wetlabs each year.

Visit www.sonosite.com/veterinary to learn more.

*KLAS reports 20/7™

Veterinary AI!

Al or artificial intelligence was coined in 1956, at Dartmouth College, NH. Today, a robotic hand can learn to solve a Rubik's Cube is, in itself, not that meaningful. But the deep learning systems that taught it to do so are what is revolutionizing the field of artificial intelligence. In 2011, Watson (IBM) won Jeopardy!® and we heard Siri for the first time. By 2014, Amazon®'s Alexa made her debut as the voice of the Amazon® Echo. In January of 2020, a team of researchers from Google™ Health, universities, and medical centers in the U.S. and the U.K. designed an AI model to read mammography images. The AI system read images with higher accuracy than human radiologists, by significantly reducing false negatives and false positives. In the human world of radiology, there are over 13,000 issues or problems that the radiologist must be aware of and over 5,000 possible recommendations to offer. And that is only for one species.

Al is developing rapidly in the veterinary space, not as an eliminator of radiologists but as a tool, to help the DVM's augment their own decision process and the radiologist by reducing the burden of reviewing normal cases and prioritizing the more significant cases. Al is being used to quickly return a computer generated interpretation of an X-ray in three to five minutes, so treatment and therapy can be decided on and initiated while the owner and patient are still present. Shortening the time to provide radiology reads improves patient outcomes, as clients are more likely to make the right decisions for adjunct treatments and modalities.

Due to Al's low cost of reporting versus traditional radiologist reads, more patients and practitioners can benefit by having greater information and confirmation of any suspicious or possible abnormalities. One boarded veterinary radiologist said recently, "the hardest images to read are "normal" images, you are always looking to find something"... Al can quickly and effectively report back any normal or abnormal findings.

The more AI is used, the better (smarter) it becomes. The more data in the more data out. When facilities are considering using AI for radiology it is helpful and reassuring to submit a few studies that have been previously read by a radiologist and compare the findings. This verifies for the facility that in fact AI will be a benchmark and if questions still arise a boarded veterinary radiologist can do an over read to verify or supplement the findings and recommendations for treatment. Make sure your AI provider is made up of radiologists and not just



IT programmers. Al will not always be correct, the same as a radiologist. In the human space, it is reported that a radiologist is right 70 percent of the time. You want to have open communication with the Al provider, share feedback, and create a partnership as the technology evolves.

The key is to identify the most relevant set of use cases that are important to your clinic. Do you have less experienced DVM's that look to the practice owner for advice on rads or just don't always feel 100 percent confident in their decisions? Do you have clients that cannot always afford the burdensome cost of over-read services or other diagnosis workups? Do you have younger vet tech's that constantly need reassurance on animal positioning? Al solutions can impact a number of important areas to drive efficiencies and improve productivity.

Today canine thoracic X-ray images are rapidly being evaluated by AI with canine abdominal X-ray images due in 60-90 days. Feline thoracic and abdominal reports are next up with other body areas and species on the near horizon. Taking advantage of this technology will significantly improve the workflow of any veterinary facility. A happy client is a returning client.



DX-V Digital X-ray System

Need a complete digital X-ray system? Best-in-class... at a great price!

Vet-Ray DX-V Digital X-ray system with the large 17" x 17" imaging area is ideal for imaging any size patient.

Select all the parameters table-side from the heads-up touch screen, even review the image. Digital X-ray systems that incorporate the latest in artificial intelligence...the **only** complete AI digital X-ray solution!

Features

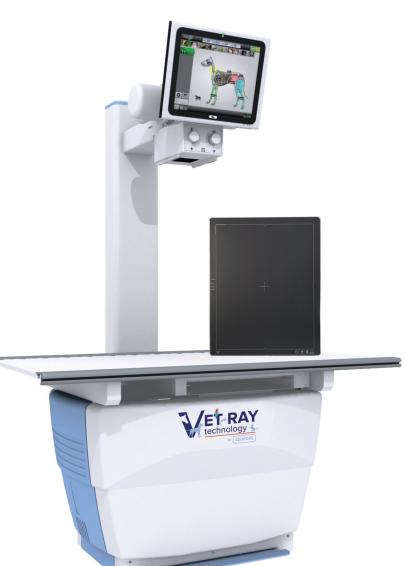
- Single-touch II monitor system
- 4-way float top table
- Compact high-frequency generator
- Hands-free collimator light control
- 32kW high-frequency X-ray generator

SKU#	MFG#	DESCRIPTION
067617	DX-V 17	Digital Vet System w/ Vivix 17x17 FP

Share the exam with specialists immediately via DICOM transfer, burn images to a CD/USB jump drive, or send to MyVetCloud Storage and view in facility or remotely on any web-enabled device (PC, Mac, smart-phone or tablet).







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Learn more at www.vetray.com



Special end-of-year turnkey package: Only \$54,995.00 or low monthly payments* of \$875.00/month for 72 months. Turnkey packages include: Remove old X-ray system, freight, installation, and on-site application training. DX-V 17 orders booked by November 1, 2020 will receive 5 years labor and IT support! *Sales tax is not included in the payment.

Monitoring with a capnograph

We've all been there! How dare we mention the words anesthetic complications. Just the mere thought of those two words can turn a good day bad. In this article, let's focus on early warnings of trouble! Let's talk capnographs!

What is instructive in terms of gained knowledge in anesthetic complications are the differing safety measures and monitors available for use in applications where animals undergo anesthetic procedures. We often ask ourselves, what could we have done? What can we do? What tools are available?

Clinical judgment is the most important component of intraoperative monitoring. Any instrumentation used for intraoperative monitoring should always be in addition to the clinical judgment of competent veterinarians and veterinary anesthesia nurses. Typical standards are monitoring for oxygen saturation by pulse oximeter. This monitor measures blood hemoglobin oxygen saturation. In patients receiving supplemental oxygen, this parameter drops only when the patient's circulation/ ventilation is jeopardized. Many veterinary anesthesiologists believe in raising this standard to include monitoring for the presence of exhaled carbon dioxide using a capnograph. A capnograph like the Vetcorder Airmate[™] can provide an extra level of patient safety by monitoring the adequacy of ventilation.

Let's compare a capnograph to a pulse oximeter:

Capnography and pulse oximetry measure two different physiologic processes – ventilation and oxygenation, respectively.

- Capnography measures EtCO2, which reflects ventilation a capnograph can tell us how well a patient is managing their breathing while intubated.
- Pulse oximetry reflects oxygen saturation in the blood. How much oxygen is getting into the blood after going through the lungs? While a low SpO2 can alert you to a ventilation problem, it is a relatively late alert. Unfortunately, many times too late.

Many board-certified anesthesiologists believe pulse oximetry is no substitute for capnography. In patients receiving supplemental oxygen, we often see an elevated SpO2 reading however it is artificial and could be potentially be masking a compromised ventilation. Relying on pulse oximetry alone can be misleading and even dangerous, giving a false sense of security that your patient is ventilating well.

Studies have validated that capnography is more effective than pulse oximetry in detecting early signs of respiratory complication.

Using a capnograph like the Vetcorder Airmate[™] can also provide you with key information about the animal's circulatory status, such as whether they have adequate cardiac output and are perfusing well. In addition, it provides anesthesia nurses key information about the patient's metabolic status.

It is also important to understand the numerical readings and graphic waveforms to use a capnograph effectively. The numerical readings are derived from the respiratory cycle known as the end tidal CO2 (EtCO2). This is the point at the end of the exhale when the carbon dioxide reaches its highest level – this level is generally in the range of 35-45 mmHg. An elevated CO2 level is typically an indication of hypoventilation or increased metabolic activity. A low exhaled CO2 level may be indicative of hyperventilation, decreased cardiac output or poor pulmonary perfusion.

Should you be using a capnograph on every patient?

Consider this analogy – Would you be comfortable boarding a plane without radar capability? This is equivalent to performing a procedure requiring anesthesia without using a capnograph for patient monitoring. Protect patients every time with the Vetcorder Airmate[™] capnograph.

Every patient! Every time!





Airmate[™] Capnograph Monitor EtCO2 Monitoring

Features:

- High-resolution touch screen
- Multiple alarms
- Continuous use (12+ hours)
- Uses standard Luer Lock tubing
- Auto-rotate screen
- Portable, affordable, and light weight
- Induction to recovery



Multi-Parameter Monitor ECG, SpO2, Internal Temperature Monitoring

Features:

- Continuous ECG, SpO2, and internal temperature monitoring
- Bluetooth monitoring (iOS or Android)
- Record 30-, 60-, or 90-second ECG
- 12-hour continuous battery (up to 3 months standby)
- Portable (fits in your pocket)





The Sentier ZUMAYA[™] needle electrodes are an alternative to clips and pads used often in avian and reptilian species, as well as many smaller mammals.

The ZUMAYA needle electrodes are 0.85" long with a small plastic handle and 12" cable. The cable ends with a standard snap-type connector.

SKU#	MFG#	DESCRIPTION
071081	48561	Vetcorder [™] Pro Bundle w/ Monitor and Temp Cable
069971	48520	Vetcorder Airmate™ Capnograph System
071801	48562	COMBO Vetcorder™ Pro & Vetcorder Airmate™
070288	48546	ZUMAYA [™] ECG Needle Electrode 3 Pack





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Contact your Covetrus representative for more information.

BMVet PRO Monitors

Our new BMVet PRO Series of multiparameter monitors encapsulates over 20 years of our intricate research, development, and design dedicated to serve veterinarians around the globe.

Our core values of functional simplicity, elite performance, and uncompromising value are carefully engineered into what we believe to be the most trusted brand in veterinary specific multiparameter monitors available today.

A standard built-in printer offers documentation of all measured and numeric values, as well as up to six waveforms. Alarms and settings are easily adjustable and are retained after turning off the power. Wi-Fi capability and touch screen functionality now come standard with every BMVet PRO series monitor.

Standard parameters on all monitors include: NIBP, ECG, SPO2, temperature, and respiration.

Optional parameters include ETCO2, dual gas(ETCO2 + anesthetic agent) analysis, and direct arterial blood pressure (BM5Vet PRO and BM7Vet PRO only).

Need comprehensive ECG analysis? The BM5Vet PRO and BM7Vet PRO can run a concurrent 7 channel ECG with an optional five lead ECG cable.

All BMVet PRO series monitors include the following:

- "Plug and play" ETCO2 and anesthetic agent analysis
- Free data management/telemetry software
- Plenty of standard accessories
- Accurate NIBP technology by SunTech
- The industry's best warranty 4 years

SKU#	MFR#	DESCRIPTION
071954	BM3Vet PRO	8" LCD Touch Screen LCD Multiparameter Monitor
071187	BM5Vet PRO	10.4" Touchscreen LCD Multiparameter Monitor
071352	BM7Vet PRO	12.1" Touchscreen LCD Multiparameter Monitor
055872	Oxy9Wave Vet	3.2" Color Handheld Pulse Oximeter

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Purchase any BMVet PRO Series monitor and choose between a no-charge Oxy9Wave Vet pulse oximeter or a no-charge rolling monitor stand! Promotion starts Oct. 1, 2020 and ends Dec. 31, 2020.





LifeWindow One

Digicare's LifeWindow One is a portable physiological monitor engineered with premium veterinary specific modules. With its user-friendly touch screen interface and compact size weighing in at only three pounds, this monitor is in a class of its own. Made with convenience in mind, the LifeWindow One can be easily mounted on a rolling stand or IV pole.

The optional Wi-Fi connection gives users the ability to connect to the LifeWindow iPad app allowing for full control of the monitor, display of three waveforms, printing, and saving ECG waveforms and patient records. This monitor brings together the perfect combination of size and functionality to complement any hospital/clinic setting.

Features:

- 100% veterinary specific
- Gold standard measurements
- Brighter more responsive touch screen
- Up to 7-hour battery
- Export patient data
- Optional Wi-Fi for connection to iPad app
- Available parameter options include: ECG, Masimo[®] SpO2, CO2, Suntech[®] NIBP, and temperature
- Temperature can be added to any model upon request

SKU#	MFG#	DESCRIPTION
067565	LW41	LifeWindow One Measures ECG, SpO2, CO2 and NIBP
070093	LW001	LifeWindow One Wi-Fi gives monitor ability to connect to LifeWindow One app
066464	TP004	Temperature rectal/esophageal probe

*Additional models available





Purchase a LifeWindow One model LW41 with Wi-Fi and receive an iPad at no additional charge.

60

100 60

Safe and Efficient Monitoring for Your Veterinary Patients

At Mindray, we believe we can change lives by making the most advanced healthcare technology attainable for all. Mindray is a leading developer, manufacturer, and supplier of medical device solutions and technologies used in healthcare facilities around the globe. We empower healthcare professionals through innovative, high-value solutions that help create the next generation of life-saving tools across patient monitoring, anesthesia delivery, and ultrasound imaging. Together, we are creating a higher standard for healthcare.

TM80/TD60 Telemetry with BeneVision DMS:

- 3.5" color TFT touchscreen display
- Gesture-drive interface for fast and easy operation
- Compact and lightweight just 7.4 ounces
- Measures 3-, 5-, or 6-lead* ECG, SpO2, and respiration
- Optional wearable NIBP module
- Wi-Fi and WMTS wireless options
- BeneVision DMS scalable centralized monitoring system

iPM12 Vet/iMEC8 Vet:

- High-resolution touchscreen display
- Up to eight waveforms with multiple display configurations
- Lightweight, ergonomic design with built-in handle
- Standard features include 3- or 5-lead ECG, IBP, SpO2, NIBP, respiration, temperature, and integrated recorder
- Optional Sidestream or Mainstream CO2 and multi-gas (iPM12 Vet only)
- Extensive data storage plus 48-hours of full disclosure

*6-lead ECG available with TM80 only



TM80

BeneVision Distributed Monitoring System (DMS)



iPM12 Vet

SKU#	MFG#	DESCRIPTION
067436	9223F-PA00015	iPM12-Vet, Masimo English, ST and Arrhythmia, NIBP, IBP, temperature, and recorder
067437	9223F-PA00004	iPM12-Vet, Nellcor English, ST and Arrhythmia, NIBP, IBP, temperature, and recorder
072320	115-050571-00	Sidestream CO2 module-includes Sidestream CO2 kit, adult/pediatric (pn 6800-30-50618)
072319	115-050573-00	Multigas with O2, Invasive Pressures and Cardiac Output module-includes Multigas kit (pn 6800-30-50621), Becton Dickinson CO accessory kit (12 pin cable, BD accessories pn 6800-30-50617) and Y-type IBP adapter (switch one connector to two connectors pn 040-001029-00)
067438	6307F-PA00002	iMEC8-Vet, Nellcor English, ST and Arrhythmia, NIBP, IBP, temperature, and recorder
067439	6307F-PA00015	iMEC8-Vet, Nellcor English, ST and Arrhythmia, NIBP, IBP, temperature, Sidestream CO2 and recorder
067440	6307F-PA00013	iMEC8-Vet, Nellcor English, ST and Arrhythmia, NIBP, IBP, temperature, Mainstream CO2 and recorder
067441	6307F-PA00023	iMEC8-Vet, Masimo English, ST and Arrhythmia, NIBP, IBP, temperature, and recorder
067442	6307F-PA00027	iMEC8-Vet, Masimo English, ST and Arrhythmia, NIBP, IBP, temperature, Sidestream CO2 and recorder
067443	6307F-PA00025	iMEC8-Vet, Masimo English, ST and Arrhythmia, NIBP, IBP, temperature, Mainstream CO2 and recorder



Please visit www.mindray.com or contact your Covetrus representative for more information.

Find more products online at northamerica.covetrus.com

Patient Warming and Diagnostics

Bair Hugger[™] Patient Warming System

Features:

- Keep your patients warm
- Millions of human patients have experienced the benefits of 3M Bair Hugger forced-air warming. Now your animal patients can, too!

SKU#	MFR#	DESCRIPTION
050049	30077	3M Bair Hugger Warming Blanket, Vet Large
050050	31077	3M Bair Hugger Warming Blanket, Vet Medium
050052	53777	3M Bair Hugger Warming Blanket, Vet Small
050054	55077	3M Bair Hugger Warming Blanket, Large Vet Underbody
050055	55577	3M Bair Hugger Warming Blanket, Vet Underbody
061331	67577	3M Bair Hugger Warming Unit
061781	96750	Rolling Cart Accessory



Littmann[®] Stethoscopes

Features:

- Superb acoustic performance, consistently high quality, and an outstanding value
- Nearly all Littmann stethoscopes use tunable technology, a 3M invention that gives you the ability to hear different frequency sounds without turning over and repositioning the chestpiece.

Products:

- 3M Littmann Lightweight II SE Stethoscope
- 3M Littmann Classic II Infant Stethoscope
- 3M Littmann Classic II Pediatric Stethoscope
- 3M Littmann Master Classic II Stethoscope
- 3M Littmann Classic III Stethoscope
- 3M Littmann Cardiology IV Stethoscope
- 3M Littmann Master Cardiology Stethoscope
- 3M Littmann E3200 Stethoscope



Receive 10% off all 3M Littmann stethoscopes, October 1-31, 2020. Receive 10% off all 3M Bair Hugger Blankets, November 1-30, 2020.

Pharmaceutical Refrigerator

The MPR-S300H-PA medical refrigerator is designed to meet CDC requirements for vaccine and biologics storage. The sliding door configuration, affording easy access while maintaining stable internal temperatures throughout the chamber, is suitable for clinics, hospitals, distribution centers, and pharmacies where frequent access is required.

Features:

- Easy access The unit affords a decreased need for space versus conventional hinged doors.
- Environmentally-friendly SNAP compliance use of HC refrigerants and inverter compressor technology to deliver low energy consumption.
- Automatic defrost maintains proper temperature uniformity by reducing ice on coils.
- Temperature uniformity sliding door reduces heat loss potential, design of cool air distribution, shelves and drawers all combine to drive uniform temperature throughout the cabinet.
- Data archiving USB data retrieval facilitates recordkeeping and compliance.

SKU#	MFG#	DESCRIPTION
072324	MPR-S300H-PA	High Performance ECO Pharmaceutical Refrigerator

Additional size available.





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Contact Covetrus at Equipment-NA@covetrus.com for pricing and additional options.











Medtronic

ForceTriad[™] Energy Platform

This platform delivers both enhanced monopolar and bipolar energy with the next generation of LigaSure[™] tissue fusion technology all-in-one unit.

- Automatic instrument recognition
- Touch-screen technology
- Unique Valleylab[™] mode

LigaSure Small Jaw Sealer/Divider

Length: 18.8 cm (7.4 in) | Seal length: 17.3 mm | Cut length: 15.2 mm

The LigaSure small jaw sealer/divider has an integrated cutting mechanism to create a multifunctional tissue sealing system that provides consistent, controlled tissue effect.

LigaSure Impact[™] Sealer/Divider

Length: 18 cm (7.1 in) | Seal length: 36 mm | Cut length: 34 mm

The LigaSure Impact can grasp, seal, and cut tissue independently.

LigaSure Atlas[™] Laparoscopic Sealer/Divider

Length: 37 cm (14.6 in) | Seal length: 22 mm | Cut length: 20 mm

- 10 mm diameter
- 359-degree shaft rotation
- Straight, blunt jaw
- Hand switching or foot switching

Force TriVerse[™] Electrosurgical Device

Cord length: 10' (3 m)

Force TriVerse Electrosurgical Device compatible with the ForceTriad energy platform only.

Cut, coag, and Valleylab mode

SKU#	MFG#	DESCRIPTION
067647	ForceTriadZE	Forcetriad Energy Platform with Tissuefect Sensing Technology
041869	LF1212A	LigaSure Small Jaw Sealer/Divider
045722	FT3000	Force TriVerse Electrosurgical Device
031777	LS1037	LigaSure Atlas 10mm Tissue Fusion Laparoscopic Sealer/Divider
058994	LF4418	LigaSure Impact Curved, Large Jaw, Open Sealer/Divider with Nano-coating

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Contact your Covetrus representative for more details on ForceTriadEZ and its accessories.

tPEMF[™] and pain management: A clinical research update →

Jennifer F Johnson VMD, CVPP

The 21st-century veterinarian has evolved to consider appropriate pain management to be critical in achieving successful clinical outcomes. However, pharmacologic options are limited, and more veterinarians are turning to the use of adjunct therapies to create a well-rounded, effective, safe multimodal analgesia program.

Pulsed Electromagnetic Field Therapy (PEMF) has been advocated for pain reduction and improving wound healing;⁴ however, until recently, controlled clinical studies in veterinary medicine were lacking. The publication of new research results shows compelling evidence supporting the use of targeted PEMF for the treatment of pain in canine intervertebral disc disease.

Intervertebral disc disease (IVDD) is a leading cause of paralysis and pain in dogs. There are a few treatments for IVDD, but none is guaranteed to fix the problem. Crate rest, steroids, non-steroidal anti-inflammatories, muscle relaxers, and other non-pharmaceutical therapies such as photobiomodulation (laser) therapy and acupuncture, have long been utilized for the treatment of IVDD. Most pets with severe, acute disc disease are candidates for hemilaminectomy surgery.

Dr. Leilani Alvarez is the Head of Integrative & Rehabilitative Medicine at the Animal Medical Center in New York, NY. She completed a double-blind placebo-controlled trial to evaluate targeted PEMF (tPEMF) administration to dogs who had undergone hemilaminectomy. In this study, 53 dogs were randomly selected to receive tPEMF or sham treatment postoperatively. Results showed that during the first week post-op, the need for pain medications was 1.8 times greater in the sham group than the treatment group and at six weeks post-surgery, wound healing (evaluated using VAS and wound evaluation scoring) was significantly improved in the treatment group.¹

The tPEMF device used in this study was the Assisi Loop® and Assisi Animal Health continues to support robust and independent research in the efficacy and safety of their product. It is important to note that no adverse effects were reported in any of the 53 canine study participants and at the conclusion of the six-week post-operative period, pet owners reported the administration of less oral pain medication in the tPEMF dogs when compared to the control dogs.¹

Dr. Natasha Olby, a neurologist at the NCSU School of Veterinary Medicine, also recently published in The Journal of Neurotrauma the results of her clinical trial, examining the effect of tPEMF therapy on post-op pain and locomotor recovery in dogs with acute, severe, intervertebral disc herniation (IVDE). Her study looked at biomarkers for spinal cord disease as well as pain assessment and neurologic function and found that in treated dogs, tPEMF significantly reduced incision-associated pain. In addition, dogs in the active treatment group had significantly lower GFAP concentrations and recovered foot placement better than those in the placebo group.²

tPEMF therapy has been shown to promote pain relief and healing by upregulating endogenous nitric oxide (NO). Unbound NO functions as a helpful vasodilator, but also acts as an effective signaler, activating the body's own anti-inflammatory response, increasing the production of growth factors that support neovascularization, tissue regeneration, and remodeling, thereby speeding up the healing process.³ In their recently published review article, Gaynor, Hagberg, and Gurfein provide a comprehensive evaluation of the published research using tPEMF and conclude that evidence overwhelmingly supports the use of tPEMF in veterinary medicine and while multiple good clinical studies exist for the use of tPEMF in humans, we anxiously await continued clinical studies in veterinary medicine.⁴ Not all PEMF devices are created equal and overwhelmingly the tPEMF signal provided by the Assisi Loop shows positive results, as outlined in Gaynor et al.⁴

The Assisi Loop's tPEMF signal is not only indicated for neurological inflammation. It is effective for any inflammatory condition, including internal inflammation such as pancreatitis, musculoskeletal issues such as osteoarthritis, dental issues such as stomatitis, and other conditions such as corneal ulcers and seromas following surgery. Assisi Animal Health recently published its Clinical Use Guide offering detailed, illustrated protocols for over 300 conditions (assisianimalhealth.com/clinical-use-guide/).

Sources:

1) Alvarez LX, McCue J, Lam NK, Fox P, Gulce A. Effect of targeted PEMF therapy on canine post-operative hemilaminectomy: a double- blind, randomized, placebocontrolled clinical trial, Journal of the American Animal Hospital Association. Accepted for publication May 21, 2018. Planned publication March/April 2019.

2) N Zidan, J Fenn, E Griffith, P Early, C Mariani, K Munana, J Guevar, N Olby. The Effect of Electromagnetic Fields on Post-Operative Pain and Locomotor Recovery in Dogs with Acute, Severe Thoracolumbar Intervertebral Disc Extrusion: A Randomized Placebo-Controlled, Prospective Clinical Trial. Journal of Neurotrauma 2018, Vol. 5, No. 15

3) Bragin DE, Statom GL, Hagberg S, Nemoto EM. Increases in microvascular perfusion and tissue oxygenation via pulsed electromagnetic fields in the healthy rat brain. Neurosurg. 2015 May; 122(5):1239-47.

4) JS Gaynor, S Hagberg, BT Gurfein, Veterinary applications of pulsed electromagnetic field therapy, Research in Veterinary Science, Volume 119, 2018:1-8.

Assisi Loop[®] products

The Assisi Loop products (Loops, Loop Lounges, Clinica) are non-pharmaceutical anti-inflammatory devices (NPAIDs). They are proven first-line and adjunct therapy for managing persistent pain and inflammatory conditions and for controlling anxiety in animals.

The tPEMF[™] technology has been demonstrated through rigorous testing to have a proven effect on the known biochemical and cellular mechanisms of action related to inflammation, with results published in veterinary peer-reviewed journals.

Assisi Loop products are uniquely suited to:

- Accelerate healing.
- Reduce or replace narcotics, non-steroidals, and other pharmaceuticals.
- · Address difficult-to-treat musculoskeletal, neurological, and dermatological conditions.
- Deliver safe and effective pain management for chronic and refractory inflammatory conditions.

Calmer Canine™ is Assisi's newest product; a safe, effective drug-free solution for treating canine separation anxiety via a PEMF signal specifically targeted to the part of the brain that controls emotion (amygdala.) Calmer Canine is a revolutionary therapy that restores lasting calm to your anxious dog.

- Twice daily 15-minute treatments
- Recommended use 4-6 weeks
- Device used alone, or with a hands-free convenience vest

For more information visit www.assisianimalhealth.com or Calmerk9.com

SKU#	MFR#	DESCRIPTION
056342	IVH-2.0-K-20CM	Assisi Loop 2.0 20cm Manual
056340	IVH-2.0-K-10CM	Assisi Loop 2.0 10cm Manual
072406	LL-System-XS	Assisi Loop Lounge Extra Small tPEMF System
072407	LL-System-S	Assisi Loop Lounge Small tPEMF System
072408	LL-System-M	Assisi Loop Lounge Medium tPEMF System
072409	LL-System-L	Assisi Loop Lounge Large tPEMF System
071065	CC-BNDL-S-XS	Calmer Canine Anxiety Treatment System Bundle XS
071064	CC-BNDL-S-S	Calmer Canine Anxiety Treatment System Bundle S
071063	CC-BNDL-S-M	Calmer Canine Anxiety Treatment System Bundle M
071066	CC-BNDL-L-L	Calmer Canine Anxiety Treatment System Bundle L
071067	CC-BNDL-L-XL	Calmer Canine Anxiety Treatment System Bundle XL











Practice Preferred



Contact your Covetrus representative for more information about products from Assissi.

Practice Preferred OLYMPIC

Your choice of two fully-equipped dental suites:

Olympic Advanced Dental Table[™]

This is the ultimate dental table, providing optimal patient positioning and presentation, with everything you need at your fingertips:

- Integrates with a full suite of Olympic accessories and an anesthesia machine and dental unit of your choice
- Dental head rest provides rigid work surface
- Drain pan under headrest, removable, high capacity
- Two swing arms support and position all equipment at your fingertips
- Full height adjustment from an extra tall 41" (standing) to 29" (seated) enclosed electric lift
- Tilt adjustment up to 10° auto locks
- Dorsal positioner V-side adjusts to 45°
- Casters for area cleaning and moving

Olympic Hi-Lo Wet Table[™]

A combination wet table and dental suite that converts in minutes from one to other.

- Rock solid, heavy duty, all welded steel no bounce or wobble
- Height adjustment standing tall 41", seated 29" enclosed electric lift
- Instrument tray is height adjustable
- Two swing arms support and position all your equipment at your fingertips
- Install anywhere fits all standard plumbing connections
- Unique design no noisy pump, no external hoses
- Install near wall or free standing not a wooden built-in
- Integrates with a full suite of Olympic accessories and your favorite anesthesia and dental units

SKU# MFG# DESCRIPTION

067638	50906	Olympic Advanced Dental Table with 2 Swing Arms, Instrument Tray and IV Pole
067639	51004	Olympic Hi-Lo Wet Table with 2 Swing Arms, Grate Tilt Insert, Instrument Tray and IV Pole
067640	51082	Grate Tilt Insert for Olympic Hi-Lo Wet Table
067641	50987	LED Exam Light for Hi-Lo Wet Table or Advanced Dental Table
067677	50988	Laptop Computer Support Arm for Hi-Lo Wet Table or Advanced Dental Table
057872	50985	Compressor Cart for Olympic Dental Table



Contact your Covetrus representative for more information on how to order the complete dental cockpit.



This unit is compatible with specific dental systems from Dentalaire and IM3, along with anesthesia systems from Supera.



Olympic Versa-Lift[™]

The Olympic Versa-Lift is an all-purpose electric lift that combines three useful pieces of equipment in one.

First, it's a patient transport. Easy-to-roll and steer. At just 68 pounds, it's lightweight, less than half the weight of most electric lifts, but with a heavy-duty patient capacity of 250 pounds. And the two lift-off stretchers make transferring patients from the Versa-Lift to tables and cages faster and safer.

Second, it's a treatment/exam table. The Versa-Lift is also a comfortable, height-adjustable treatment table that can be used anywhere needed. No more lifting heavy dogs. The height adjusts from near floor to 40" with the electric rechargeable lift. The removable hard stretcher doubles as a treatment surface, providing a warm, patient-friendly, easy-to-clean surface. IV pole and optional instrument tray fit into sockets on the table.

Third, it's a curbside transport. The Versa-Lift is sturdily built for outdoor use. The electric lift with removable stretchers makes extracting injured animals from cars easier, safer. Compromised patients are no longer subjected to traumatic lifting and handling. Just slide the patient onto the stretcher, place the stretcher on the gurney, and roll the patient into the hospital.

- Full-range lift
- Adjusts smoothly from near floor to 40"
- · Capacity, 250 pounds
- Fast recharging two weeks power between charges
- Saves floor space
- One piece of equipment with three functions

Also available with Quick-Lock[™] Caster System. One foot pedal locks and unlocks all four casters. Saves time. No more locking/ unlocking each caster.

SKU#	MFG#	DESCRIPTION
057836	50701	Olympic Versa-Lift with hard and soft stretchers and IV pole
061770	50705	Olympic Versa-Lift with 2 stretchers, IV pole and central locking brakes
057872	50780	Swiveling Instrument Tray for Olympic Versa-Lift



Practice Preferred OLYMPIC



Watch the Olympic Versa-Lift product video at www.olyvet.com. Contact your Covetrus representative on how to order your Versa-Lift.

HOTLINE[®] Fluid Warmer

The HOTLINE fluid warmer can be used for heating both IV fluids and blood during general anesthesia. A recirculating solution keeps blood or fluid warm all the way to the patient.

Features:

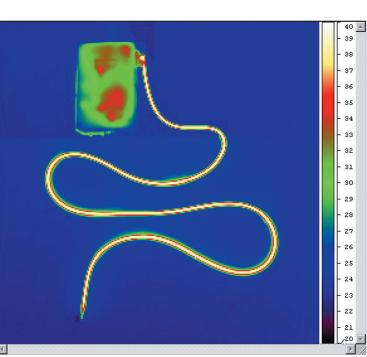
- The patented patient line with triple lumen tubing maintains a layer of 107.6° F circulating solution around IV line
- Keeps blood and fluids warm between 95-105° F
- Reduces patient line cool down
- Dedicated temperature check device to calibrate the temperature set point
- Maintenance up to 12 months depending on recirculating solution used at the facility
- Compact size and lightweight
- Can be mounted to an IV pole
- 1-year warranty

SKU# MFR# DESCRIPTION 071194 HL-90 HOTLINE® Blood & Fluid Warmer

For more information contact Equipment-NA@covetrus.com



By using thermal photography, you can see a consistent temperature throughout the sample line. No retouching or digital manipulation was used.



smiths medical surgivet

Introductory promotion: Save 40% off the HOTLINE® Fluid Warmer.

Veterinary Practice Checklist



Veterinary practice checklist



Exam rooms

□ Alcohol

- □ Anatomic models and posters
- □ Assorted gauze
- \Box Assorted syringes
- □ Binocular head loupe magnifier
- □ Chart holders
- □ Cotton-tip applicators
- Dental Success Kit
- Desktop computer central to all exam rooms
- □ Dog treats
- Exam lights
- □ Exam tables
- □ Eye wash
- □ Feline scale
- □ Filing Cabinets
- □ Fluorescein dye
- □ Gloves
- Covetrus Animal Health Solution magazines
- □ Indirect viewing lens
- □ Lubricating jelly
- □ Nail trimmers
- □ Ophthalmoscope
- ☐ Otoscope
- □ Otoscope cones
- D Penliahts
- □ Radiography view box
- Reflex hammer
- □ Rolling chairs or stools
- □ Schirmer tear tests
- \Box Sharps containers
- □ Side chairs
- □ Small exotics or gram scale
- □ Stethoscopes
- □ Storage jars
- □ Styptic powder or pencils
- □ Thermometers
- □ Video otoscope
- □ Waste receptacles

Treatment area, pack prep, and lab

- □ Activated charcoal □ Autoclave and trays □ Autoclave tape □ Bacterial incubator □ Barium □ Biopsy jars □ Blood pressure monitor □ Calculator □ Centrifuge □ Chest tubes □ Clippers □ Crash cart Culture media □ Dental instruments and supplies Dental unit – scaler, drill, polisher □ Diagnostic reagent strips □ Disinfectants □ Ear lavage equipment □ Electrocardiograph Elizabethan collars □ Endoscope and supplies
- Endotracheal tube rack
- Endotracheal tubes, stylets, and cleaning brush
- □ Ethylene glycol test kit
- □ Fecal loops, sample collection containers
- $\hfill\square$ Fecalizer, centrifuge, and flotation
- solution
- □ Feeding tubes
- □ FeLV/FIV test kits
- 🗆 First-aid kit
- 🗆 Formalin
- □ Gastric lavage supplies
- □ Gloves
- □ Glucometer
- Heartworm tests
- Hematology, chemistry, and coagulation analyzers
- □ Hemocytometer
- □ Inoculation loops
- □ IV fluid warmer
- \Box IV poles and stands

□ Lab mailing supplies

- □ Laryngoscopes
- □ Lead gloves and aprons
- □ Manual cell counter
- 🗆 Masks
- □ Microscope
- Microscope slides, coverslips, stains, and holders
- □ Muzzles
- □ Nonabsorbent cat litter
- □ Oncology drugs and supplies
- □ Patient positioning devices
- □ Portable O2 unit
- □ Refractometer
- □ Refrigerator for samples
- □ Resuscitation bag
- □ Rolling stools
- □ Safety goggles
- □ Side chairs
- □ Splinting equipment
- □ Staple removal forceps
- □ Sterility indicators
- Stomach tube speculum
- □ Stomach tubes
- □ Surgical caps, masks, gowns, and gloves
- □ Surgical instrument cleaner
- □ Surgical pack wraps
- □ Surgical scrub brushes and soak trays
- □ Suture scissors
- □ Test tube rack
- □ Thermometers

□ Unopettes

□ Wet table

□ Wood's lamp

Q3/Q4 | Equipment & Technology Product & Services Guide

- □ Timer
- □ Tongue depressors
- □ Tonometer
- □ Tracheostomy tubes □ Ultrasonic cleaner

Vaginal speculum

□ Walk-on scale

□ Urine collection containers

□ Waste disposal container (general)

□ Waste disposal container (infectious)

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Veterinary Practice Checklist

Surgery

- □ Anesthesia machine and supplies
- □ Anesthesia masks
- □ Blood pressure monitor
- □ Body temperature monitor
- Cautery unit
- CO2 surgical laser
- □ Crash cart
- Electrocardiograph
- □ Esophageal stethoscopes
- □ ETCO2 monitor
- □ Heated surgery table
- □ Induction chamber
- Infusion pumps
- □ Lacrimal cannulas
- □ Mayo stand
- Orthopedic procedural kits and instrumentation
- □ Portable suction unit
- □ Radiosurgical unit
- □ Respirometer
- □ Scrub sink
- □ Skin stapler
- □ SpO2 pulse oximeter
- □ Suction hoses and tips
- □ Suraical blades
- □ Surgical drapes and towels
- □ Surgical instruments
- □ Surgical lights
- □ Surgical ties
- □ Suture material and needles
- □ Syringe pump
- □ Tissue adhesive
- □ Waste gas evacuation system
- Water-circulating or forced-air heating blankets

Hospital ward

- □ Cages
- □ Catch pole
- □ Food and water bowls
- □ Grooming tub and dryer
- □ Incubator
- □ Litter pans
- □ Nasal oxygen cannula, oxygen hood, humidifier, or oxygen cage
- □ Nebulizer
- □ Oxygen flowmeter
- □ Restraint bags or cages
- □ Towels
- □ Towels and blankets
- □ Washer and drver
- □ Water, air, or electric heating
- mats/blankets

Imaging

- □ Ultrasound machine and supplies □ X-ray – accessories (developing supplies, film, cassettes)
- □ X-ray machines (film or digital)
- □ X-ray dental □ X-ray – full body
- .

Therapy

 Lasers - class IV
 Lasers - cold/low-level
 Regenerative medicines/ stem cell therapy
 Stance analyzer
 Water treadmills

Pharmacy

Alcohol containers to hold pill splitters
 Cubex automated dispensing system
 Pill counting trays
 Pill crusher
 Pill guns
 Pill splitters
 Prescription labels and printer
 Vials and bottles

Clinic supplies

□ Alcohol wipes □ Bandages □ Blood collection vials □ Blood transfusion kits □ Bulb syringe □ Butterfly catheters □ Casting materials □ Chlorhexidine □ Clotting tubes □ Elastic tape □ Formalin jars □ Gauze □ Hematocrit tubes □ Hydrogen peroxide □ Insulin syringes □ Intraosseous needles □ IV catheters (24, 22, 20, and 18 gauge) □ IV fluids (e.g., LRS, Normosol-R, sodium chloride, D5W) □ IV infusion pumps □ |uqular catheters □ Lint rollers □ Male adapter plugs □ Microchips

□ Needles (25, 22, 20, and 18 gauge) □ Penrose drains □ Pipettes □ Porous tape □ Povidone-iodine □ Primary IV sets, secondary IV sets, and extension sets □ Rabies tags □ Roll cotton □ Safety goggles □ Separation tubes □ Skin punch biopsy □ Spinal needles □ Splints □ Sterile culture tubes and swabs □ Sterile saline for injection □ Sterile saline for irrigation, six 250-mL bottles □ Sterile water, 500-mL bottles \Box Stick pole syringe □ Stockinette □ Stretch gauze □ Syringes (with/without catheter tip) □ Telfa pads □ Tourniquets □ Tru-cut biopsy needles □ Urinalysis tubes □ Urinary catheters □ Various biopsy needles □ Wash bottles □ Wood's lamp

Waiting room

□ Air purifier □ Artwork □ Books for kids □ Brochure display stand □ Chairs or benches □ Client education handouts □ Coffee station □ Computer table Computer with patient-education CD-ROM □ Courtesy phone □ End tables □ Magazines and magazine rack □ Plants Printer for informational handouts \Box Recycle bins □ Table lamps □ Wastebasket □ Water cooler □ Workstation chair

Veterinary Practice Checklist

Front office

- □ Appointment book or scheduling software □ Boxes of tissues Business card holder □ Calculators □ Chairs □ Clipboards Clock □ Computers (minimum of two) Electric pencil sharpener □ Fire extinguisher Covetrus Patient Credit Card Processing □ Locking cash drawer □ Paper rolls for credit card machine □ Paper shredder □ Pencils □ Pens □ Petty cash box □ Phone books □ Phones Postage stamps or meter Printer, copier, scanner, and fax machine □ Recycle bins □ Toner cartridges for copier and fax □ Two-and three-hole punch
- Wastebasket

Doctor's office

- □ Bookcases
- □ Coat hook for door □ Computer with eVetPractice[®], AVImark®, or ImproMed® PIMS □ Desk lamp Desk with locking drawer Executive desk chair □ File cabinet □ Fire safe or fireproof cabinet Paging equipment □ Pencils □ Pens □ Pictures □ Plants □ Printer □ Recycle bins □ Side chairs Wastebasket

Comfort or consultation room

Bookshelf
Boxes of tissues
Educational videos or DVDs
End tables
Lamps
Reading material
Sofa
Television and DVD player

Bathroom

Paper towels
Soap
Soap dispenser
Toilet brush
Toilet paper
Towel dispenser

Employee lounge

Chairs
Coffeemaker
Microwave oven
Recycle bins
Refrigerator
Table
Wastebasket
Water cooler

Office supplies

- □ "In" and "out" bins □ "Pay at time of service" sian □ "Returned check policy" sign □ Alphabetical or numerical tabs and year tabs □ Binders □ Cellophane tape □ Cleaning supplies for entire clinic □ Copier paper Desk calendars Desk organizers □ Dictionary □ Erasers □ File folder labels, white □ File folders □ Glue sticks □ Highlighters □ Label maker □ Large manila envelopes □ Large rubber bands □ Letter envelopes □ Medical and surgery reference library □ Medical dictionary
- □ Packing tape
- □ Paper clips, large and small

Pencils
Pens
Phone message pads
Return-address stamp
Scissors
Scratch pads
Standard-lined note pads
Staplers
Sticky notes, large and small
Time cards/clock or computerized version
Vacuum cleaner
Vertical chart holders

Printed materials

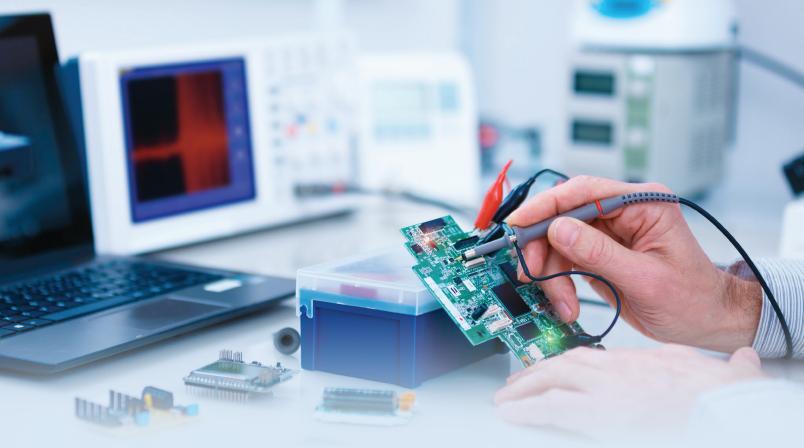
Business cards
Letterhead envelopes
Letterhead stationery
New patient information forms
New patient medical history forms
Practice brochure
Prescription pads
Promotional materials
Reminder cards
Thank you notes

Business solutions

- □ Covetrus prescription management platform
- □ OSHA compliance training
- □ Leadership courses
- Equipment repair
- □ Lease negotiation services
- □ Petlocity client loyalty program
- \Box Practice management software
- Practice marketing platforms
- Covetrus credit card processing
- Patient financing

Other

□	 	 	
□	 	 	
□	 	 	



Equipment repair

Schedule an equipment repair and/or planned maintenance today.

Keep your valuable assets working efficiently, effectively, and most importantly, safely.

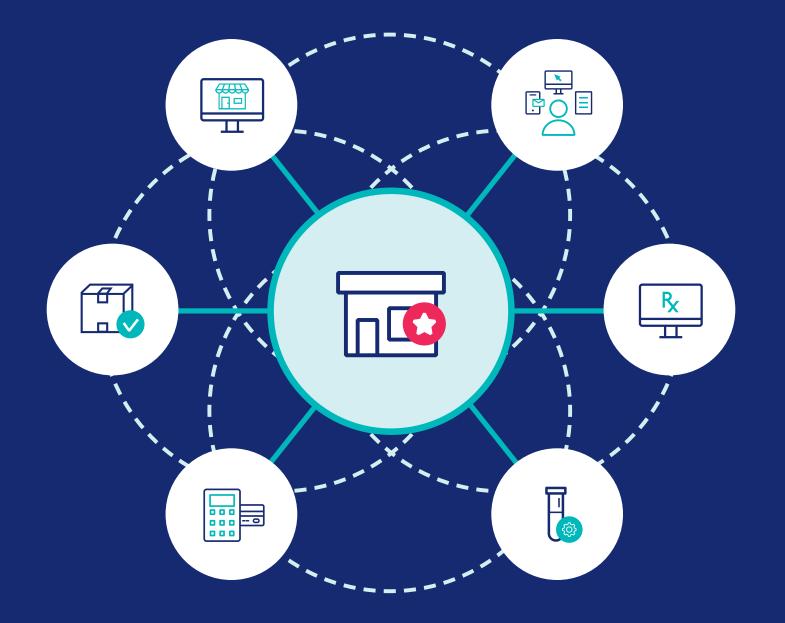
- Anesthesia
- Autoclaves
- Centrifuge
- Defibrillators
- Dental handpieces
- Dental X-ray

- EKG
- Instrument sharpening
- IV pump
- Microscope
- Patient monitors

- Transducer
- Ultrasound
- Ultrasound probes
- Vet vaporizers
- X-ray

Visit northamerica.covetrus/equipment-repair to schedule your repair today.





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Go to <u>transform.covetrus.com</u> to see how new eVetPractice[®] packages make it easier and more economical to leverage the advanced technologies and services you need to run your practice, your way.





Sales and product information: (7 a.m. - 9 p.m. EST)

Toll-free: 855.724.3461

Equine dedicated: 855.472.4371

Livestock dedicated: 833.631.8918

Institutions: 800.552.8387

Global Prescription Management: 888.280.2221

Global Software Services: 855.478.7920

Equipment Quotes: Equipment-NA@covetrus.com

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Considering a new build or expansion?

Work with us to find the right partners to create the practice you envisioned.

Our team will work with you to understand your vision and the individual needs of the new space you are looking to create. We will be by your side through the entire process from concept to completion.



Contact us at **ProjectPartner-NA@covetrus.com** for a confidential conversation on how we can be your trusted partner and **BUILD** your business!

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