

CASE STUDY

A Case Study in Environmental Hygiene and Athlete Performance

How Environmental Hygiene Improves Athlete Performance, Peace of Mind and Facility Operations

When 70+ athletes train hard every day, odor, sweat, and high-touch surfaces can quickly take over, even in the most disciplined facility. Wrestling rooms, in particular, are notorious for persistent smells and recurring skin infections.

At Tarleton State University, Head Coach Grant Leath and his wrestling program set out to change that reality—not by cleaning harder, but by cleaning smarter.

The result was a fundamental shift in how the facility is maintained, made possible by the **SecureLogic Genesis 360™ Misting System powered by BotaniMax®**. Rather than relying on repeated manual disinfection, the program adopted an automated environmental hygiene approach designed to deliver antimicrobial droplets throughout the room environment, depositing across surfaces and equipment.

AT A GLANCE	
Facility:	Collegiate Wrestling & Weight Training
Size:	10,000 sq ft
Athletes:	70+ men's & women's wrestlers
Ringworm:	1 case this season
Staph / Impetigo:	No new cases
Daily mopping:	Eliminated
Mat time lost:	None due to infections

The Technology Behind the Change

At the heart of the system is **BotaniMax®, an EPA-registered botanical disinfectant formulated with plant-derived antimicrobial ingredients commonly associated with the EPA's minimal-risk antimicrobial category.**

BotaniMax is delivered through Secure Logic's patented **Genesis 360 ultra-fine micro-droplet misting technology**, which disperses disinfectant droplets small enough to remain suspended in the air before settling uniformly throughout the room.

This allows the system to reach wrestling mats, locker rooms, weight training equipment, walls, and other environmental surfaces throughout the facility.

Unlike traditional spray-and-mop disinfection, the Genesis 360 system provides **full-room coverage** rather than surface-only treatment.



Genesis 360 Technology Highlights

Ultra-Fine Micro-Droplet Distribution

- Ultra-fine droplets disperse throughout the room and settle gradually across surfaces
- Uniform surface deposition across equipment and training areas
- Ability to reach hard-to-clean areas and surface seams

Automated Environmental Hygiene Treatment

- Scheduled nightly disinfection cycles
- Consistent coverage independent of staff schedules
- Reduced reliance on manual disinfection

BotaniMax Antimicrobial Activity

Independent laboratory testing has demonstrated reductions against representative bacteria, fungi, and viruses relevant to athletic environments, including *Staphylococcus aureus*, MRSA, HSV-1 (Herpes Gladiatorum, commonly referred to as Mat Herpes), and *Trichophyton* species associated with ringworm.

Results: Health Outcomes, Athlete Availability & Cleaner Air

Skin Infection Reduction

Following implementation, the program reported only one ringworm case during the season and no new cases of staph or impetigo.

"Unheard of in collegiate wrestling."

"None of us on the team have had any form of mat funk all season."

"I hadn't had any skin infections since we installed the system here. I went home over break and got ringworm from another mat."

Increased Athlete Availability

Skin infections frequently force wrestlers to sit out practices or competitions. At Tarleton, infections were no longer disrupting training schedules.

"Because we're not dealing with infections, nobody has to sit out practice. That means everyone gets more mat time."

Athlete Confidence & Peace of Mind

Beyond physical hygiene benefits, athletes described increased confidence in their training environment. In high-contact sports where athletes train daily in close quarters, this psychological confidence can improve focus, comfort, and consistency of practice.

"You don't have to worry about what you're laying on or what you might catch."

Cleaner Air & Surfaces

Persistent wrestling-room odors were noticeably reduced, improving the perceived cleanliness of the facility.

"Other wrestling rooms smell rotten. Here it smells clean."

**Healthy athletes train more.
Consistent training drives performance.**

Operational Efficiency: From Daily Disinfecting to Automated Nightly Coverage

Before Secure Logic

The team followed the traditional wrestling-room routine, despite which odor and infection concerns remained common:

1. Spray disinfectant on mats
2. Mop surfaces—often multiple times per day
3. Allow mats to dry before practice

"At my previous schools we had to clean the mats constantly. Here we don't even think about it anymore."

After Secure Logic

Basic cleaning and sweeping address visible debris, while **automated nightly misting performs whole-room environmental hygiene treatment**. Each night at **9:00 p.m.**, the Genesis 360 system activates automatically, filling the space with an ultra-fine mist that reaches areas traditional mops and sprays cannot—creating a clean slate for the next day's training.

"We stopped daily mopping the mats for sanitizing and let the system do what it does. The difference is obvious the moment you walk in—our room doesn't smell like a wrestling room anymore."



Healthy athletes train more. And consistent training drives winning programs.

A Competitive Advantage — and a New Model for Athletic Facility Hygiene



A Cleaner Facility as a Recruiting Tool

Beyond hygiene and efficiency, the Genesis 360 system has become part of how Tarleton State presents itself as a program. Athletes immediately notice the cleaner air. Parents appreciate the visible commitment to athlete health. Coaches point to the system as evidence that the program invests in athlete care.

“The cherry on top when showing recruits the facility.”

In modern collegiate athletics, facility quality and athlete safety play a major role in recruiting decisions.

A New Model for Athletic Facility Hygiene

The Tarleton State wrestling program demonstrates how environmental hygiene technologies can complement traditional cleaning practices. By combining automated environmental hygiene treatment, botanical antimicrobial chemistry, and full-room coverage, programs can reduce infection pressure while improving operational efficiency.

While demonstrated in a collegiate wrestling environment, the same environmental hygiene challenges exist across many athletic facilities—including football, basketball, training centers, and shared locker rooms—where large numbers of athletes interact with high-touch surfaces and shared equipment daily.

Secure Logic®

Clean Reimagined by Nature

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