Dairy Hygiene Protocol
“I used Virolac Concentrate pre & post and consistently have a herd cell count below 100,000.”

Conor Beusang, Ardmore, Co. Waterford.

“I pre spray with Virolac and wipe my cows before milking. I have been using virolac teat spray pre & post for the last number of years. Since then I have never had to cull a cow due to cell count.”

John Fitzpatrick, Freshford, Co. Kilkenny.

“I use Hypred Quick Spray pre & post and find it excellent at controlling cell count and promoting good teat condition.”

John Fitzgerald, Cappagh, Co. Waterford.

“I used Virolac Concentrate pre & post and consistently have a herd cell count below 100,000.”

Conor Beusang, Ardmore, Co. Waterford.
How can I reduce my Somatic Cell Count?

Focus 1 - Pre milking teat preparation

- Pre spray teats to remove contamination.
- Pre spray teats with 15 mls to 24 mls of spray.
- 30 seconds after pre spraying, wipe teats to achieve maximum kill.
- Ensure wash routine water is of potable quality.

Cost savings 100 cow herd: Reducing SCC from 350 to 250 = €4,000
Reducing SCC from 250 to 150 = €8,200
(ref: Animal Health Ireland)

Focus 2 - Between milking

Cluster dipping

Cluster disinfection using Perfo Grif, a peracetic acid base (5%) and hydrogen peroxide (14.5%) EN 1276.
Biocide formula - No. MEEDDM: 12545

1. One measure from 30 ml pump (as supplied) into 20 litre bucket of water. Replenish mixture after 8 cow passes.
2. If using the Perfo Dose system: Spray 2% Perfo Grif directly up into the clusters.

Focus 3 - Post Milking Hygiene - Hypred Quick Spray

The objective here is to provide a barrier to infection while the teat sphincter remains open after milking. You need to apply a product with superior cosmetic action to promote top class teat condition. Apply 15 mls of Hypred Quick Spray.

It is good practise to delay the return of cows to cubicles after milking to allow time for teat ends to close. Also apply Actisan to cubicles to give added protection.
How can I reduce my TBC & Thermodurics?

Focus 1 - Pre milking teat preparation

- Thermodurics is caused by heat resistant bacteria that are transferred to the parlour by cows teats.
- It can originate from dust, contaminated cubicles, paddocks and cow paths.
- It can survive in many areas of milking machines and bulk tanks, especially in perished rubberware and on limescale.

Prevention:
- As previously described, pre spray and pre wipe teats to prevent contamination.

Focus 2 - Between milking

Hot Detergent-steriliser cleaning

Hypracid One (Methanesulphonic acid and caprylic acid)

1. Wash outside of clusters, attach jetters and remove milk filter
2. Rinse plant with 14 litres (3gls) of water per unit (cold or warm)
3. Add Hypracid One at a rate of 400 mls per 45 ltrs (10 gls) of hot water (65 - 75°C), allowing 9 litres (2gls) per unit
4. Circulate the hot solution for 8-10 min, allowing first 5 litres to run to waste, the solution may be retained for the 2nd daily wash (if retained; discard solution after the second daily wash)
5. Rinse the plant immediately after the main wash cycle with 14 litres (3gls) of cold water per unit
6. Ensure the system is drained before the next milking

Once weekly:

- After step 2, add Hypral One (caustic liquid) at 300 mls per 45 litres to hot or cold water, allowing 9 litres (2gls) of water per unit
- Circulate the solution for 8-10 min and discard
- Rinse plant with 14 litres (3gls) of cold water per unit
- Continue with steps 3, 4, 5 and 6

Bulk tank: Use Hypracid One in a hot bulk tank wash. Every third wash alternate with Hypral One. Optional extra: Perfo Grif peracetic acid in the final rinse is proven to be effective against thermodurics.
How do I prevent chlorine residues?

**HYPRACID ONE**

New Non Chlorine Wash System For Both Bulk Tanks & Machines

- Eliminates chlorine residues completely from your wash routine
- Unique 3 in 1 action; Detergent, Descaler & Sterilizer
- Application rates: Use daily at 400 mls to 45 litres hot water. Once weekly do a hot wash with Hypral One high caustic at 300 mls to 45 litres
- Bulk tank: 400 mls to 45 litres hot water, every third wash use 400 mls Hypral One
Offset Antibiotic usage at Dry off with Actisan cubicle bedding disinfectant

“Actisan allows us to use selective dry cow therapy in our herd”

PAVEL MIASKIEWICZ, DAIRY MANAGER, SALESIAN AGRICULTURAL COLLEGE, PALLASKENRY, CO. LIMERICK.

**TRIAL DETAILS**

**Year:** 2016/17  
**Technology:** Actisan  
**Animals:** Dairy Cows  
**Location:** Salesian Agricultural College, Limerick  

**Objective:** To demonstrate that Low Cell count cows (<100 SCC) can be dried off using a teat sealer when Actisan is applied twice weekly to cubicles.

**BENEFITS OF SELECTIVE DRY COW THERAPY:**

- Less stress on farmer, don’t have to worry about withdrawal periods.
- Less risk from relief milkers allowing contaminated milk into the tank.
- Less cost of Dry cow tubes plus milk into tank sooner = more farm profit!
- Reduced antibiotic residue milk fed to calves = less antibiotic resistance on farm.

**RESULTS**

Blue treatment of Low Cell Count Cows dried off with a Teat Sealer only. Red treatment dried off with a Teat Sealer plus Dry Cow Antibiotic tube. For both treatments, Actisan was applied to cubicles twice weekly.

This trial demonstrates that it is possible to reduce antibiotic usage on farm by drying Low Cell Count cows off using a sealer without additional antibiotics when Actisan is applied to the cubicles.

*Please ensure to first consult with your vet before deciding to implement SDCT on your herd.*
How do I prevent lameness!

Lameness cost on average 60 euros per cow.
In a 100 cow herd that amounts to €6000

The key here is to use a quality footbath on a regular basis to prevent young animals becoming infected through cross contamination. **PODOCUR SV** disinfects and hardens the hoof while maintaining suppleness. It prevents the spread of infection and is effective even at low temperatures.

**Focus 1 – Initial “Shock” treatment**

Pour 15 litres of Podocur SV into 300 litre footbath, after 100 cow passes top up with 5 litres of Podocur SV. Repeat 3 days per week.

**Focus 2 – Regular foot bathing**

Pour 6 litres of Podocur SV into a 300 litre footbath, after 100 cows passes top up with 3 litres of Podocur SV. Repeat 2 days per week.

**Focus 3 – Foot mat method**

Add 3 litres of product to 27 litres of water through a watering can. Spray evenly of the foot mat. After 100 cow passes top up with 8 litres of solution. For maintenance, add 1 litre of product to 29 litres of water through a watering can.

**Focus 4 – Spot treatment**

Fill a 5 litre hand sprayer half with Water and half with Podocur SV. Spot spray affected areas on lame cows twice per day for 3 days.

**Alternative method using Actisan:** Add two bags of Actisan to a dry foot bath. Top up with ½ a bag after 100 cow passes.

Disinfectants are regulatory biocides. They have guarantees of efficiency and protection of human, animals and the environment. Use biocides safely. Before use read the label and product information.
How do I prevent sore teats!

Focus 1

First ensure that your machine is properly serviced and your liners are changed at least twice per year. Secondly, you need to use a top quality teat spray or teat dip which will soften cracked sore teats while containing healing properties.

Focus 2 - Use a teat spray/dip with a cosmetic action

Irritated teats, with cracks or chaps, becomes a reserve of bacteria. They become difficult to clean and reduce milk quality (thermodurics, SCC...). Post spray teats with at least 15mls of Hypred Quick Spray or post dip with Virolac film.

Which cosmetic effect?

In order to solve the majority of the situations, 3 principals effects are looked for:

- **An emollient effect** - this allows the skin to retain its natural moisture thus reducing the risk of cracks.

- **A humectant effect** - this fixes moisture on the surface of the skin. When the weather is wet, the moisture come from the air. When the weather is dry, the moisture comes from deeper layers of the skin.

- **A flexible effect** promoting skin flexibility reduces the risks of cracks.

Both Hyped Quick Spray & Virolac Film contain complex association of different molecules often used in the human cosmetic products.

Glycerin and Propylene Glycol for their humectant efficiency. Lanoline and Glycol for their emollient and hydrating properties. Lactic acid coming from the LSA® which associated to the protein of the upper layer of the skin makes it more flexible and elastic.

Virolac Film also contains “Aloe Vera” which has the following:

- Anti-inflammatory properties.
- Healing and pain relief properties.
- Strengthens the immune response.
- Teat end closing properties, bactericidal and fungicidal properties.
- Dermatological and anti-aging of the skin properties.

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