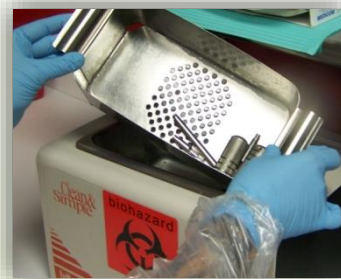


# **STEP-BY-STEP STERILIZATION for BODY ART PROFESSIONALS**



# **ASEPTIC TECHNIQUE**

---

**ASEPSIS  
IS DEFINED AS THE  
ABSENCE OF GERMS.**



# **ASEPTIC TECHNIQUE**

---

**THE 2 DIFFERENT LEVELS OF  
ASEPTIC TECHNIQUE  
USED IN OUR INDUSTRY ARE:**

**+ MEDICAL ASEPSIS**

**+ SURGICAL ASEPSIS**

# **ASEPTIC TECHNIQUE**

---

## **MEDICAL ASEPSIS**

**(OR “*CLEAN TECHNIQUE*”)**

**INCLUDES PROCEDURES USED  
TO REDUCE THE NUMBER OF  
MICROORGANISMS PRESENT &  
PREVENT THEIR SPREAD.**

# ASEPTIC TECHNIQUE

---

## EXAMPLES INCLUDE:

- **PROPER HANDWASHING TECHNIQUE**
- **PRE-PROCEDURE SKIN PREPARATION**
- **PROPER DISINFECTION OF SURFACES & TOOLS/EQUIPMENT**



# ASEPTIC TECHNIQUE

---

## **SURGICAL ASEPSIS**

**(OR “*STERILE TECHNIQUE*”)**

**INCLUDES PROCEDURES USED TO  
ELIMINATE ALL MICROORGANISMS.**



# ASEPTIC TECHNIQUE

---

**STERILIZATION OF TOOLS &  
EQUIPMENT IS AN EXAMPLE OF  
SURGICAL ASEPSIS.**



# THE FIVE KEYS OF ASEPSIS

---

## 1. KNOW WHAT IS CLEAN:

- **ANY ITEM THAT HAS BEEN THOROUGHLY WASHED WITH A CHEMICAL DISINFECTANT IS CONSIDERED CLEAN & DECONTAMINATED.**
- **THE TASK OF PHYSICALLY WASHING REMOVES SOIL & MOST MICROORGANISMS FROM THE SURFACE OF AN ITEM.**
- **A DISINFECTANT WILL THEN KILL OR PREVENT THE GROWTH OF ANY MICROORGANISMS THAT WERE NOT REMOVED BY PHYSICAL WASHING.**



# THE FIVE KEYS OF ASEPSIS

---

## 2. KNOW WHAT IS CONTAMINATED:

- **ALL INITIAL TATTOO & BODY PIERCING PROCEDURES (IN ADDITION TO SOME STRETCHING & JEWELRY INSERTION PROCEDURES) CREATE CONTAMINATED WASTE.**
- **ANY ITEM USED ON A CLIENT OR ANY VISIBLY SOILED ITEM IS CONSIDERED CONTAMINATED.**



# THE FIVE KEYS OF ASEPSIS

---

**THERE IS NO DIFFERENCE  
BETWEEN A LITTLE OR  
A LOT CONTAMINATED.**



# THE FIVE KEYS OF ASEPSIS

---

**ITEMS ARE EITHER**

**CONTAMINATED**

**OR**

**NOT CONTAMINATED.**



# THE FIVE KEYS OF ASEPSIS

---

## 3. KNOW WHAT IS STERILE:

- **THE CREATION OF A TATTOO OR BODY PIERCING ARE NOT STERILE PROCEDURES!!**
- **PROPER STORAGE & OPENING OF STERILE EQUIPMENT SHOULD BE UTILIZED IN ORDER TO DECREASE CONTAMINATION TO THE STERILE FIELD & STERILE INSTRUMENTS.**

# THE FIVE KEYS OF ASEPSIS

---

## 4. KEEP CLEAN, CONTAMINATED & STERILE ITEMS SEPERATED:

→ IT IS IMPERATIVE THAT DIRTY, CLEAN & STERILE ITEMS ARE KEPT COMPLETELY SEPARATE FROM ONE ANOTHER.

# THE FIVE KEYS OF ASEPSIS

---

- **STERILE ITEMS MUST NEVER COME INTO CONTACT WITH NON-STERILE ITEMS, OR THEY ARE NO LONGER CONSIDERED STERILE.**
- **ONCE A CLEAN ITEM COMES INTO CONTACT WITH A DIRTY ITEM, IT IS AUTOMATICALLY CONSIDERED “DIRTY”.**

# THE FIVE KEYS OF ASEPSIS

---

## 5. RESOLVE CONTAMINATION IMMEDIATELY:

→ **IF CLEAN TECHNIQUE IS BROKEN OR CROSS CONTAMINATION OCCURS, RESOLVE THE CONTAMINATION AS SOON AS POSSIBLE!**

# **CLEANING & DECONTAMINATION**

## **For BODY ART PROFESSIONALS**





# CLEANING & DECONTAMINATION

---

- **CLEANING** IS THE REMOVAL OF ALL VISIBLE SOIL, DEBRIS & FOREIGN MATERIAL FROM TOOLS & EQUIPMENT.
- **CLEANING** IS AN IMPORTANT FIRST STEP IN THE DISINFECTION & STERILIZATION PROCESS.



# CLEANING & DECONTAMINATION

---

**DECONTAMINATION INVOLVES THE USE OF PHYSICAL OR CHEMICAL PROCEDURES TO REMOVE, INACTIVATE, OR DESTROY BLOODBORNE PATHOGENS ON A SURFACE OR ITEM.**

# CLEANING & DECONTAMINATION

---

## **THE LEVEL OF DECONTAMINATION REQUIRED DEPENDS UPON:**

- WHAT THE ITEM WAS LAST USED FOR... &**
- WHAT THE ITEM WILL BE USED FOR NEXT.**

# **CLEANING & DECONTAMINATION**

---

**CLEANING & DECONTAMINATION MUST BE COMPLETED ACCORDING TO ESTABLISHED PRINCIPLES & PROCEDURES TO ASSURE THAT THE STERILIZATION PROCESS WILL BE EFFECTIVE.**



# **CLEANING & DECONTAMINATION**

---

**FAILURE TO PROPERLY CLEAN TOOLS & EQUIPMENT MAY ALLOW FOREIGN MATERIAL LOCATED IN OR ON THE EQUIPMENT TO INTERFERE WITH THE EFFECTIVENESS OF SUBSEQUENT DISINFECTION & STERILIZATION.**



# CLEANING & DECONTAMINATION

---

**THOROUGH CLEANING IS  
ABSOLUTELY ESSENTIAL BEFORE  
ANY ITEM IS SUBJECTED TO  
DISINFECTION & STERILIZATION.**



# **CLEANING & DECONTAMINATION**

---

**SOILED TOOLS & EQUIPMENT  
FURNISH AN ENVIRONMENT FOR  
THE GROWTH OF  
MICROORGANISMS, **THUS MAKING  
THE ULTIMATE PROCESS OF  
DISINFECTION & STERILIZATION  
MORE DIFFICULT & LESS  
EFFECTIVE.****

# **CLEANING & DECONTAMINATION**

---

**THE PURPOSE OF CLEANING & RINSING IS TO REMOVE ALL VISIBLE DEBRIS FROM AN ITEM & TO REDUCE THE NUMBER OF PARTICULATES & MICROORGANISMS.**





# **CLEANING & DECONTAMINATION**

---

**EFFECTIVE CLEANING IS A MULTI-STEP PROCESS THAT RELIES ON SEVERAL INTERRELATED FACTORS, INCLUDING:**

- ☑ WATER QUALITY**
- ☑ DETERGENT QUALITY & TYPE**
- ☑ ACCEPTABLE WASHING METHOD**
- ☑ PROPER RINSING & DRYING**

# CLEANING & DECONTAMINATION

---

**CLEANING IS NORMALLY ACCOMPLISHED BY MANUAL WIPING, SCRUBBING, OR BRUSHING – ALONG WITH THE USE OF MECHANICAL AIDS.**

**FOR EXAMPLE: CLEANING WITH WATER & DETERGENTS TO REMOVE FOREIGN MATTER.**



# CLEANING & DECONTAMINATION

---

## **GROSS DEBRIS MUST BE REMOVED A.S.A.P. IN ORDER TO:**

- REDUCE THE NUMBER OF MICROORGANISMS ON THE ITEM;**
- REDUCE THE NUTRIENT MATERIAL THAT MIGHT SUPPORT MICROBIAL GROWTH;**
- REDUCE THE POTENTIAL FOR ENVIRONMENTAL CONTAMINATION BY AEROSOLIZATION OR SPILLAGE;**
- MINIMIZE DAMAGE TO EQUIPMENT & TOOLS FROM SUBSTANCES SUCH AS BLOOD.**



# CLEANING & DECONTAMINATION

---

**REMEMBER:**  
**YOU CAN CLEAN WITHOUT  
DISINFECTING - BUT  
YOU CANNOT  
DISINFECT  
WITHOUT CLEANING!**

# **CLEANING & DECONTAMINATION**

---

**THE STERILIZATION PROCESS  
CANNOT PRODUCE A STERILE  
INSTRUMENT IF IT HAS NOT BEEN  
CLEANED & DISINFECTED FIRST!**



# **CLEANING & DECONTAMINATION**

---

**DEAD MICROORGANISMS IN DEBRIS  
LEFT ON TOOLS & EQUIPMENT CAN  
CREATE A BREEDING PLACE FOR  
INFECTIOUS ORGANISMS.**

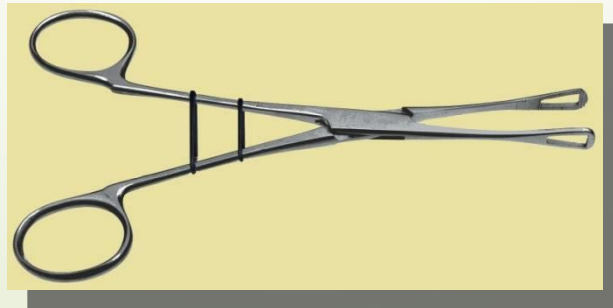


# CLEANING & DECONTAMINATION

---

**RESIDUAL DEBRIS CAN ALSO AFFECT AN INSTRUMENT'S ABILITY TO FUNCTION PROPERLY.**

**FOR EXAMPLE: PIERCING FORCEPS & OTHER HINGED TOOLS MAY NOT CLOSE PROPERLY.**



# **CLEANING & DECONTAMINATION**

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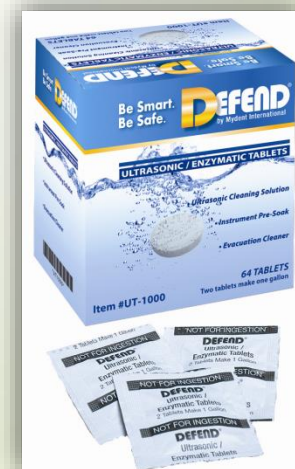
**PRACTITIONER SAFETY IS  
EXTREMELY IMPORTANT AT THE  
TIME OF CLEANING &  
DECONTAMINATION.**

**SINCE THE ORIGIN OF CONTAMINATION  
IS NOT KNOWN, IT MUST BE ASSUMED  
THAT EVERY PIECE OF EQUIPMENT  
POSES A HIGH RISK.**



# CLEANING AGENTS

**EFFECTIVE CLEANING AGENTS  
HAVE SEVERAL IDEAL  
PROPERTIES.**



# CLEANING AGENTS

---

## THEY SHOULD:

- **BE NON-ABRASIVE & LOW-FOAMING**
- **BE FREE-RINSING & NON-TOXIC**
- **BE BIODEGRADABLE**
- **ALLOW FOR RAPID SOIL DISPERSION**
- **BE EFFECTIVE ON ALL TYPES OF SOIL**
- **HAVE A LONG SHELF-LIFE**
- **BE COST-EFFECTIVE**
- **BE CAPABLE OF BEING MONITORED FOR EFFECTIVE CONCENTRATION AND/OR USE LIFE.**

# CLEANING AGENTS

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## **INDUSTRY-SPECIFIC EXAMPLES OF CLEANING AGENTS INCLUDE:**

**→ WATER**

**→ DETERGENTS**

**→ ENZYMATIC CLEANERS**

# CLEANING AGENTS

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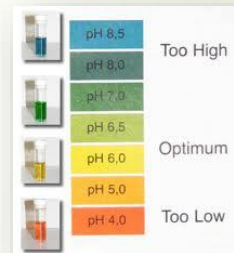
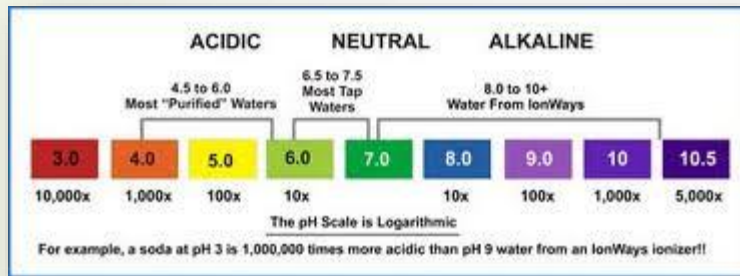
**WATER:** THE RELEVANT MEASURABLE

**CHARACTERISTICS OF WATER ARE:**

-  **PH LEVEL**
-  **HARDNESS**
-  **TEMPERATURE**
-  **PURITY**

# CLEANING AGENTS

**THE PH LEVEL OF WATER IS IMPORTANT BECAUSE THE EFFECTIVENESS OF DETERGENTS & ENZYMATIC CLEANERS IS INFLUENCED BY PH.**

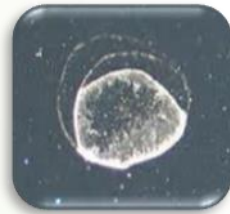


**CLEANING AGENTS HAVE OPTIMAL PH LEVELS OF PERFORMANCE & THERE ARE LEVELS WHERE THESE CLEANERS ARE COMPLETELY INACTIVATED.**

# CLEANING AGENTS

---

**HARD WATER IONS, SUCH AS CALCIUM & MAGNESIUM, CAN CAUSE DEPOSITS OR SCALE FORMATIONS DURING THE CLEANING PROCESS BECAUSE OF THE INVERSE SOLUBILITY.**



**A FINAL RINSE WITH DISTILLED OR DE-IONIZED WATER WILL REMOVE MINERAL DEPOSITS.**

# CLEANING AGENTS

---

**DETERGENTS** ARE SUBSTANCES THAT ARE CAPABLE OF DISLODGING, REMOVING & DISPERSING SOLID & LIQUID SOILS FROM THE SURFACE BEING CLEANED.

**MANY DETERGENTS ARE FORMULATED FOR SPECIFIC APPLICATIONS, SUCH AS THOSE USED IN ULTRASONIC CLEANERS.**



# CLEANING AGENTS

---

**DETERGENTS** SHOULD BE COMPATIBLE WITH THE EQUIPMENT & TOOLS WITH WHICH THEY ARE BEING USED & WITH THE MATERIALS OF WHICH EQUIPMENT & TOOLS ARE CONSTRUCTED.

**DETERGENTS** SHOULD NOT BE CORROSIVE!





# CLEANING AGENTS

---

## **DETERGENTS WORK BY:**

- LOWERING SURFACE TENSION SO THE CLEANING LIQUID CAN PENETRATE THE SOIL & THE OBJECT BEING CLEANED;**
- REMOVING SOIL & CLUMPS OF DIRT & DISSOLVING OR SUSPENDING SMALL PARTICLES IN THE CLEANING FLUID;**
- KEEPING SOILS & DIRT CLUMPS IN SUSPENSION OR SOLUTION SO THEY CAN BE WASHED & RINSED AWAY, RATHER THAN BEING RE-DEPOSITED ON THE OBJECT BEING CLEANED.**

# DISINFECTION

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**DISINFECTION** IS THE REDUCTION AND/OR REMOVAL OF PATHOGENS BY THE USE OF FRICTION (CLEANING) & THE USE OF AN APPROPRIATE EPA REGISTERED DISINFECTANT.



# DISINFECTION

---

**ORGANIC MATTER & GROSS DEBRIS  
CAN COMPLETELY INACTIVATE  
DISINFECTANTS, SO:**

- ☑ THE AREA MUST BE THOROUGHLY CLEANED BEFORE PROCEEDING TO DISINFECTION.**
- ☑ ALWAYS READ THE MANUFACTURER'S INSTRUCTIONS FOR PROPER USE OF THE DISINFECTANT.**

# DISINFECTION

---

## THE KEY POINTS OF DISINFECTION ARE:

- ☑ **ALWAYS CLEAN STARTING WITH THE CLEANEST, HIGHEST ITEMS/AREAS FIRST & THEN PROCEED TO THE DIRTIEST, LOWEST ITEMS/AREAS LAST.**
- ☑ **BE CONSCIOUS OF CROSS-CONTAMINATION DURING THE CLEANING & DISINFECTION PROCESS!**



# **EQUIPMENT PROCESSING**

## **For BODY ART PROFESSIONALS**



# EQUIPMENT PROCESSING

---

**IT'S IMPORTANT TO REMEMBER  
THAT STERILIZATION IS A  
PROCESS!**

**BEFORE STERILIZING EQUIPMENT, THE  
FOLLOWING PROCEDURES **MUST** BE  
FOLLOWED **EXACTLY** TO ENSURE  
TERMINAL STERILIZATION OCCURS.**

# EQUIPMENT PROCESSING

---

## STEP 1)

**ISOLATE & TRANSPORT  
EQUIPMENT FROM THE WORK  
STATION TO THE STERILIZATION  
ROOM.**



# EQUIPMENT PROCESSING

---

## STEP 2)

**RINSE EQUIPMENT & PLACE INTO AN ENZYMATIC PRE-CLEANER, IF NECESSARY.**





# EQUIPMENT PROCESSING

---

## STEP 3)

**REMOVE EQUIPMENT FROM ENZYMATIC PRE-CLEANER & RINSE THOROUGHLY.**



# EQUIPMENT PROCESSING

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## STEP 4)

**DISASSEMBLE EQUIPMENT IF NECESSARY.**



# EQUIPMENT PROCESSING

---

## STEP 5)

**THOROUGHLY SCRUB  
EQUIPMENT UNDER WARM,  
LOW-PRESSURE, RUNNING  
WATER TO REMOVE ANY  
**VISIBLE GROSS DEBRIS.****



# EQUIPMENT PROCESSING

---

## STEP 6)

## RINSE & DRY EQUIPMENT



# EQUIPMENT PROCESSING

---

## STEP 7)

**PLACE EQUIPMENT INTO A DISINFECTING TUB. COMPLETELY SUBMERGE EQUIPMENT IN AN EPA REGISTERED DISINFECTANT PER THE MANUFACTURER'S INSTRUCTIONS.**



# EQUIPMENT PROCESSING

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## STEP 8)

- REMOVE EQUIPMENT FROM DISINFECTANT.
- THOROUGHLY RINSE & DRY EQUIPMENT.

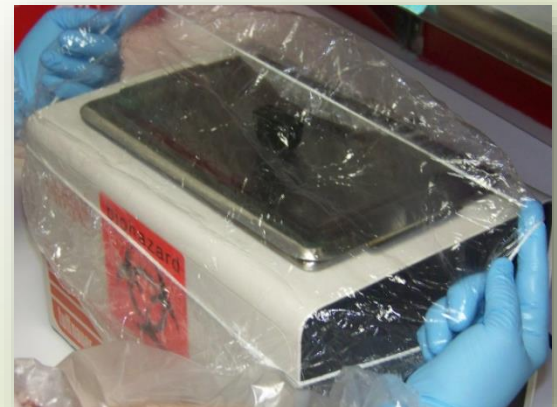


# EQUIPMENT PROCESSING

---

## STEP 9)

**PLACE EQUIPMENT INTO AN ULTRASONIC CLEANER WITH APPROPRIATE SOLUTION & RUN THE UNIT PER THE MANUFACTURER'S INSTRUCTIONS. (USUALLY 15–30 MINUTES)**



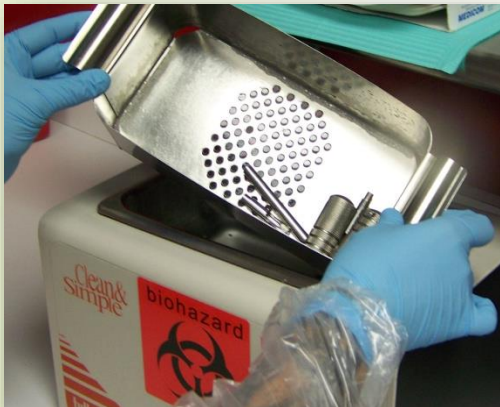
# EQUIPMENT PROCESSING

---

## STEP 10)

→ REMOVE EQUIPMENT FROM THE ULTRASONIC CLEANER.

→ THOROUGHLY RINSE & COMPLETELY DRY EQUIPMENT.



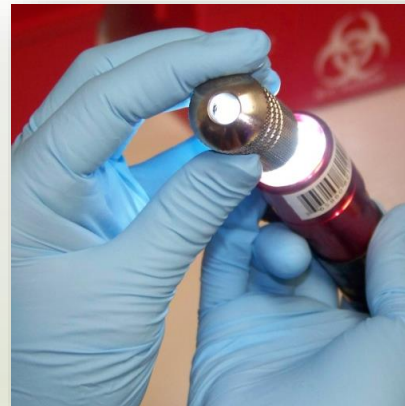
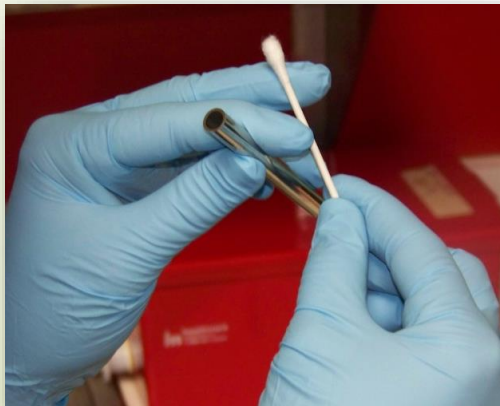


# EQUIPMENT PROCESSING

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## STEP 11)

**THOROUGHLY INSPECT  
EQUIPMENT FOR ANY  
LEFTOVER INK, LUBRICATION,  
& DEBRIS.**



# EQUIPMENT PROCESSING

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## STEP 12)

**REASSEMBLE EQUIPMENT IF NECESSARY.**

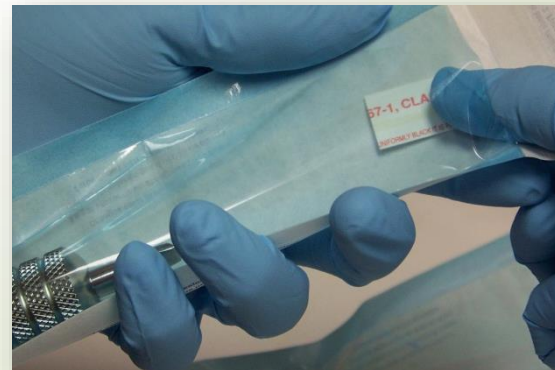


# EQUIPMENT PROCESSING

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## STEP 13)

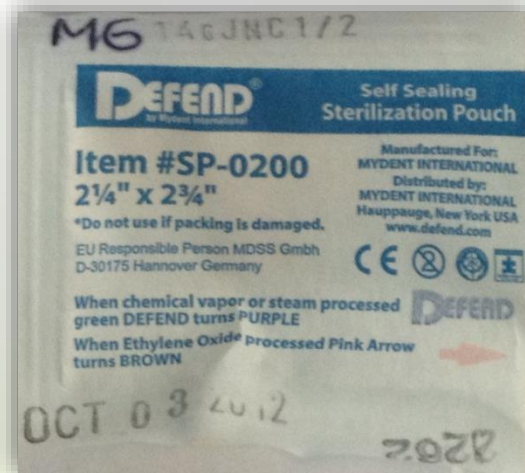
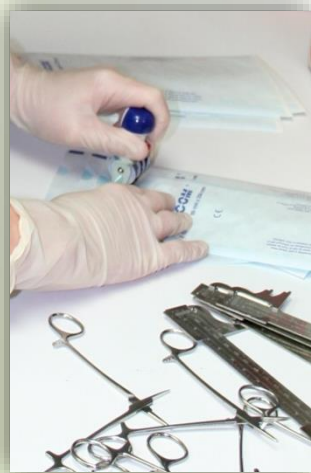
**PACKAGE EQUIPMENT WITH INTERNAL INDICATORS. DATE INDICATORS FOR THE DAY OF AUTOCLAVING. (WITHIN 24-HOURS OF PACKAGING).**



# EQUIPMENT PROCESSING

## STEP 14)

**ENSURE ALL PACKAGES & INDICATORS ARE PROPERLY MARKED WITH THE EQUIPMENT DESCRIPTION, DATE & YOUR NAME OR INITIALS.**



# STERILIZATION

For **BODY ART PROFESSIONALS**



# STERILIZATION

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→ **STERILIZATION** IS THE HIGHEST LEVEL OF ASEPSIS & CAN BE DEFINED AS THE REMOVAL OF ALL MICROORGANISMS, INCLUDING HIGHLY RESISTANT BACTERIAL SPORES.

→ **STERILIZATION** IS A PROCESS & SHOULD ONLY BE OBTAINED BY STEAM AUTOCLAVING.



# STERILIZATION

---

**STERILIZATION IS RESERVED FOR INSTRUMENTS, JEWELRY, NEEDLES, NALGENE® BOTTLES & OTHER MISCELLANEOUS TATTOO & BODY PIERCING EQUIPMENT.**



# STERILIZATION

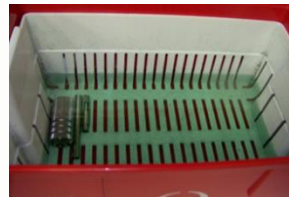
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**BEFORE ITEMS CAN BE STERILIZED,  
THEY MUST FIRST BE:**

✓ **THOROUGHLY CLEANED**



✓ **DISINFECTED**



✓ **ULTRASONICALLY CLEANED**

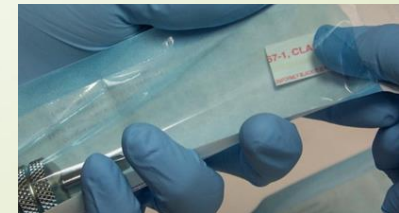


✓ **DRIED COMPLETELY**



**- AND -**

✓ **PROPERLY PACKAGED**





# STERILIZATION

---

## INDICATORS THAT MONITOR THE STERILIZATION PROCESS FOR QUALITY CONTROL & CONSISTENCY INCLUDE:

**MECHANICAL**



**CHEMICAL**



**BIOLOGICAL**



**ALL THREE INDICATORS ARE REQUIRED TO ENSURE  
THAT TERMINAL STERILIZATION OCCURS.**

# STERILIZATION

---

## MECHANICAL MONITORING

**MECHANICAL INDICATORS, FOUND ON THE AUTOCLAVE & PROVIDE ASSESSMENT OF CYCLE CONDITIONS, SUCH AS:**




- TIMER**
- TEMPERATURE GAUGE**
- PRESSURE GAUGE**
- PRINTOUTS**



# STERILIZATION

---

## MECHANICAL MONITORING: **TIME**

-  **THE LENGTH OF TIME NECESSARY TO COMPLETE THE CYCLE DEPENDS ON THE ITEM(S) BEING PROCESSED & THE TYPE OF PACKAGING BEING USED.**
-  **ALWAYS REFER TO THE MANUFACTURER'S INSTRUCTIONS!**
-  **THE “STANDARD” CYCLE IS 274° FOR 15 MINUTES.**



# STERILIZATION

---

## MECHANICAL MONITORING: **TEMPERATURE**

- ⊗ **THE TEMPERATURE OF THE AUTOCLAVE MUST BE MAINTAINED TO ENSURE THAT ALL ORGANISMS ARE KILLED.**
- ⊗ **THE AMOUNT OF TIME THAT THE MACHINE TAKES TO REACH THIS TEMPERATURE MUST BE ADDED TO THE ACTUAL PROCESSING TIME.**



# STERILIZATION

---

## MECHANICAL MONITORING: **PRESSURE**

- ✓ **PRESSURE IS NECESSARY TO RAISE THE TEMPERATURE OF THE WATER ABOVE THE BOILING POINT.**

## **MOISTURE / STEAM SATURATION**

- ✓ **THE FINAL PARAMETER IS MOISTURE OR STEAM SATURATION.**
- ✓ **THE STEAM IN THE MACHINE MUST REACH 100% RELATIVE HUMIDITY.**



# STERILIZATION

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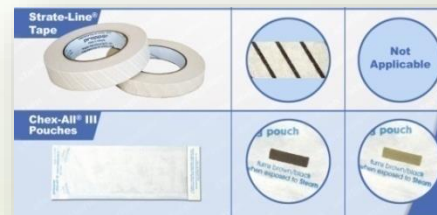
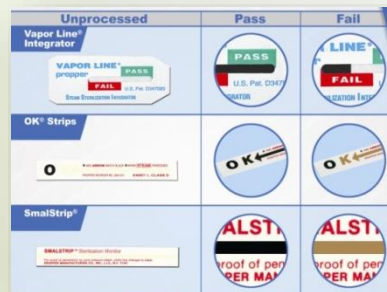
**HOWEVER,  
MECHANICAL MONITORING  
ALONE IS NOT ENOUGH TO  
ENSURE TERMINAL STERILIZATION.**



# STERILIZATION

## CHEMICAL MONITORING

**THE ACTUAL PHYSICAL CONDITIONS INSIDE THE AUTOCLAVE MUST ALSO BE MONITORED. THIS IS ACCOMPLISHED USING CHEMICAL INDICATORS & INTEGRATORS.**



# STERILIZATION

**INDICATORS: RESPOND TO STEAM & MOIST HEAT. INDICATORS CAN BE FOUND:**

- ✓ **ON THE OUTSIDE OF STERILIZATION POUCHES & TUBING**
- ✓ **ON STERILIZATION TAPE**
- ✓ **IN STRIP FORM DESIGNED FOR PLACEMENT INSIDE PACKAGES TO SHOW PENETRATION OF STEAM THROUGH THE PACKAGING.**





# STERILIZATION

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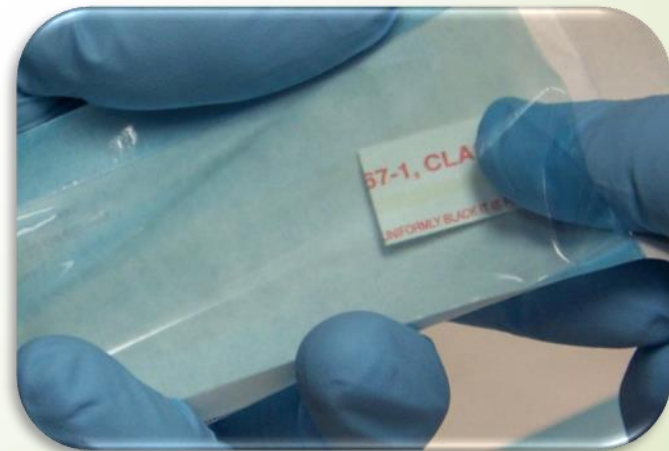
**MOST STEAM STERILIZATION  
POUCHES NOW HAVE AN  
INTERNAL INDICATOR INCLUDED  
IN THE PACKAGING.**



# STERILIZATION

---

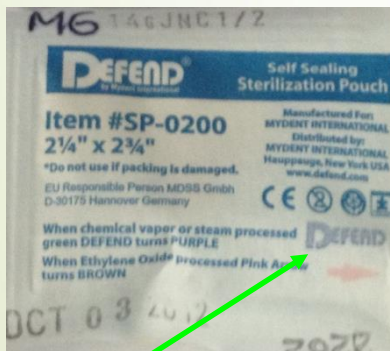
**IF NOT, AN INDICATOR STRIP SHOULD BE PLACED INSIDE OF EACH PACKAGE BEING STERILIZED.**



# STERILIZATION



**Indicator strip inside sterilization package**



**Chemical indicator on back of sterilization package**

## STERILIZATION INFORMATION

**EXTERNAL STERILIZATION INDICATORS TURN BLACK ONCE STEAM HAS REACHED THE OUTSIDE OF THE PACKAGE.**

BEFORE STERILIZATION	PASS	FAIL

**INTERNAL STERILIZATION INDICATORS TURN BLACK ONCE STEAM HAS REACHED THE INSIDE OF THE PACKAGE.**

BEFORE STERILIZATION	PASS	FAIL

**STERILIZATION INTEGRATORS MEASURE TIME, TEMPERATURE & PRESSURE. ONCE ALL 3 PARAMETERS OF STERILIZATION HAVE OCCURRED, THEY INDICATE THE CYCLE HAS "PASSED."**

BEFORE STERILIZATION	PASS	FAIL

**Sign used to illustrate difference between unprocessed and processed indicators and integrators.**

# STERILIZATION

---

**INTEGRATORS: ARE PROCESS INDICATORS. THEY ARE DESIGNED TO RESPOND TO MORE THAN ONE REQUIRED CONDITION, SUCH AS TIME, TEMPERATURE, PRESSURE & STEAM SATURATION.**



# STERILIZATION

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- ✓ **ONE INTEGRATOR SHOULD BE RUN WITH EACH AUTOCLAVE LOAD.**
- ✓ **INTEGRATORS MUST BE PACKAGED IDENTICALLY TO THE EQUIPMENT BEING PROCESSED.**



# STERILIZATION

---

**REMEMBER:**  
**THOUGH INDICATORS & INTEGRATORS ARE USEFUL IN DETERMINING POINT OF USE PROCESS ERRORS, IT IS IMPORTANT TO NOTE THAT THEY DO NOT PROVE STERILIZATION!!**

# STERILIZATION

**BIOLOGICAL MONITORING IS  
THE ONLY TRUE METHOD OF  
DETERMINING THE SUCCESS  
OF THE STERILIZATION PROCESS!**




# STERILIZATION

---

**BIOLOGICAL MONITORING IS A CONTROL-BASED TEST, COMMONLY REFERRED TO AS A “SPORE TEST”.**



**NORTH BAY BIOSCIENCE, INC.**

TEST STRIP			CONTROL STRIP		
Use the bacterial test strip in this compartment. Return to original compartment after sterilization.			<b>DO NOT STERILIZE</b> the bacterial test strip in this compartment.		
QUALITYNET Phone 1-800-999-1166 or 1-707-422-2274 Monday-Friday, 9am-5pm PST			 4290753		
<b>STERILIZER INFORMATION</b>			<b>EXP. USE DATE</b>		
Steam	Chemical	Test Date	Pack		
Dry Heat	ETO		Platons		
CYCLE TIME	Minutes		Lot No. 016 102		
TEMPERATURE	C or F				
PRESSURE					
LOCATION of test strip in sterilizer e.g. "middle of load"					



# STERILIZATION

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**A SPORE TEST IS A LIVE SAMPLE OF BACTERIAL SPORES THAT ARE PROCESSED ACCORDING TO PROTOCOL.**

**BACILLUS STEAROTHERMOPOLIS IS MOST COMMONLY USED FOR TESTING IN STEAM AUTOCLAVES.**



# STERILIZATION

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## BIOLOGICAL MONITORING

 **THE TOTAL DESTRUCTION OF SPORES INDICATES SUCCESS OF THE STERILIZATION PROCESS.**



# STERILIZATION

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## BIOLOGICAL MONITORING

**SPORE TESTS SHOULD BE RUN IN ACCORDANCE TO YOUR LOCAL REGULATIONS & PROCESSED BY A REPUTABLE INDEPENDENT LABORATORY, SUCH AS *MESA LABS, INC.***



# STERILIZATION

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## BIOLOGICAL MONITORING

**THOUGH SOME STATE & LOCAL REGULATIONS SUGGEST SPORE TESTING ONCE A MONTH, THE MOST COMMON RECOMMENDATION IS TO SPORE TEST ONCE A WEEK.**



**SPORE TEST PACKET FROM MESA LABS.**

# STERILIZATION

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## SPORE TEST FAILURE

**IF A SPORE TEST SHOULD FAIL,  
ALL ITEMS FROM THE TIME OF THE  
LAST NEGATIVE (PASSED) TEST  
THROUGH THE DATE OF THE POSITIVE  
TEST MUST BE PULLED FROM STOCK,  
REPACKAGED & RE-STERILIZED.**

# STERILIZATION

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**IN ORDER TO ATTAIN TERMINAL  
STERILIZATION, THE PROPER  
COMBINATION OF TIME, TEMPERATURE,  
PRESSURE & MOISTURE (STEAM  
SATURATION) MUST BE ATTAINED  
INSIDE OF THE AUTOCLAVE.**



# STERILIZATION

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**ONCE ALL PARAMETERS HAVE  
BEEN ACHIEVED, TERMINAL  
STERILIZATION OCCURS.**



**TIME + TEMP + PRESSURE + STEAM =  
STERILIZATION**

# STORAGE OF STERILE SUPPLIES For **BODY ART PROFESSIONALS**





# STORAGE OF STERILE SUPPLIES

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- ➔ **ALL STERILE PACKAGES SHOULD BE VISIBLY DATED & STORED IN COVERED CONTAINERS.**
- ➔ **CONTAINERS SHOULD ONLY BE ACCESSED WITH CLEAN GLOVES. **NO BARE HANDS!****



# STORAGE OF STERILE SUPPLIES

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**THE SHELF LIFE OF STERILE PACKAGES CAN BE THOUGHT OF AS EITHER **TIME-RELATED** OR **EVENT-RELATED**.**



# STORAGE OF STERILE SUPPLIES

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## TIME-RELATED EXPIRATION


- 🕒 **TIME-RELATED EXPIRATION IS BASED ON THE PROCESSING DATE.**
- 🕒 **EXPIRATION DATE WILL VARY DEPENDING ON THE TYPE OF EQUIPMENT, PACKAGING MATERIALS, HANDLING AND/OR STORAGE CONDITIONS.**



# STORAGE OF STERILE SUPPLIES

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## EVENT-RELATED EXPIRATION

 **EVENT-RELATED EXPIRATION MEANS THAT THE STERILITY OF A PACKAGE IS INDEFINITE, UNTIL THE INTEGRITY OF THE PACKAGE IS COMPROMISED (IT BECOMES WET, TORN, ETC.) OR AN EVENT OCCURS SUCH AS DROPPING IT ON THE FLOOR.**

# STORAGE OF STERILE SUPPLIES

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**STERILE SUPPLIES MUST NOT BE CRUSHED OR KEPT STORED GROUPED WITH RUBBER BANDS.**



# STORAGE OF STERILE SUPPLIES

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**STORAGE AREAS MUST BE MAINTAINED  
TO PREVENT SPLASHING.**

**FOR EXAMPLE, ITEMS IN STERILE PACKAGES  
SHOULD NOT BE KEPT NEAR SINKS.**



**GOOD PLACE TO STORE STERILE SUPPLIES**



**NOT A GOOD PLACE TO STORE STERILE SUPPLIES**

# STORAGE OF STERILE SUPPLIES

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- ✓ **STERILE STORAGE MUST BE ARRANGED TO FACILITATE STOCK ROTATION.**
- ✓ **STOCK SHOULD BE ROTATED ACCORDING TO THE PRINCIPLE **"FIRST IN = FIRST OUT"**.**



# STORAGE OF STERILE SUPPLIES

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- ☑ **LIQUIDS MUST BE STORED BELOW DRY STERILE GOODS OR IN A SEPARATE AREA.**
- ☑ **MATERIALS MUST BE STORED 8"-10" FROM THE FLOOR AND 18"-20" FROM THE CEILING.**





# STORAGE OF STERILE SUPPLIES

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**STERILE ITEMS MUST NOT BE STORED UNDER PLUMBING VALVES & TRAPS.**



**NO!**

**NO!**

**NO!**

**NO!**

# STORAGE OF STERILE SUPPLIES

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**NEVER STORE STERILE ITEMS NEAR SINKS, PLUMBING, OR IN ANY LOCATION WHERE THERE IS THE RISK OF BECOMING WET OR SOILED.**

**THE PRESENCE OF MOISTURE ALLOWS THE PASSAGE OF MICROORGANISMS THROUGH PACKAGING, RESULTING IN CONTAMINATION.**



# PRE-STERILIZED ITEMS

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- ☑ **SINGLE-USE ITEMS THAT ARE COMMERCIALY PURCHASED ARE USUALLY STERILIZED WITH ETHYLENE OXIDE GAS OR GAMMA RADIATION.**
- ☑ **THESE SINGLE-USE ITEMS ARE CONSIDERED TO BE STERILE SO LONG AS THE INTEGRITY OF THE PACKAGING HAS NOT BEEN COMPROMISED.**



# PRE-STERILIZED ITEMS

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- ☑ **IF AN EXPIRATION DATE IS PRESENT & THE ITEM IS NOT USED WITHIN THE TIME FRAME, CHECK WITH THE DISTRIBUTOR TO SEE IF THEY WILL EXCHANGE THE ITEM FOR YOU.**
- ☑ **DO NOT ATTEMPT TO RE-STERILIZE THE ITEM YOURSELF!!**



# PRE-STERILIZED ITEMS

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**BY RE-STERILIZING COMMERCIALY  
STERILIZED ITEMS, IT MAY  
COMPROMISE THE INTEGRITY OF  
THE PRODUCT & YOU WILL BE  
ASSUMING TOTAL LIABILITY.**



# PRE-STERILIZED ITEMS

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- IF A PRODUCT REPRESENTATIVE TELLS YOU THAT YOU CAN RE-STERILIZE AN ITEM, ASK FOR A WRITTEN STATEMENT FROM THE COMPANY.**
- THIS STATEMENT SHOULD INCLUDE THE TYPE OF STERILIZATION REQUIRED, AS WELL AS THE TEMPERATURE, LENGTH OF TIME, & PRESSURE THAT SHOULD BE USED.**
- KEEP THIS WRITTEN STATEMENT ON FILE.**

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