Infection Control.....
Why Bother?

Leslie Rost, RN
Introduction

• Leslie Roste, RN
  • Healthcare Background
    • Infection Control
    • Labor & Delivery
    • Emergency Department
  • Education
    • Nursing
    • Microbiology
  • National Director of Education – King Research
Career Objectives

- Textbooks
  - Relevant & Useful
- State Boards
  - Relevant & Useful
- Rules /Laws
  - Consistent
  - Simple
What I Have Learned...

• Todays students aren’t scared…
• “Boring” topics require attention grabbing
• “Because I said so” or “It’s the Law” rarely works
• Making things relational to your lives makes an impact on what you remember
• You want to do the right thing
Healthcare and Salons…More Similar than You Think!

Health Care
- High Person to Person Contact Rate
- Unrestricted Public Access
- Required to use Personal Protection when in Patient Contact
- Full Access to Patient’s Medical History

Salon
- High Person to Person Contact Rate
- Unrestricted Public Access
- Personal Protective Equipment makes job difficult, if not impossible
- No Access to Client’s Medical History
Transmission

• Direct
  – Person to Person (cold/STD)

• Airborne –
  – Respiratory Droplet (TB)

• Fecal-Oral
  – Fecal food contamination (Hep A)

• Indirect:
  – Fomite – *Wax Pot (HPV/HSV)*

• Vector:
  – Animal borne (Lyme, West Nile)
Improperly Disinfected Tools & Equipment

Your Client….Everything they have and have been exposed to …..

You……..Everything you have and have been exposed to…including previous clients!

Use of Chemicals and Heat Implements that Compromise skin integrity of both parties
INFECTION CONTROL TECHNIQUES
Infection Control

- **Sanitize/Clean**: Remove visible debris
- **Disinfect**: Use of a disinfection solution on a sanitized item – removes remaining microorganisms
- **Sterilize**: The destruction of all microbial life using heat, pressure or chemicals
Sanitation/Clean – Step 1

- Removal of Visible Debris
- Running Under Water
- Wiping Down a Surface
- Rinsing out a Bowl
- Using a Surface Cleaner spray

CLEAN ........NOT DISINFECTED!
Disinfection – Step 2

• Sanitize first…Remove all visible debris
  – “Wiping Down”
  – Under running water

• Disinfectant Solution
  – EPA Approved
  – EPA Label on all containers
  – Mixed according to label directions
  – Changed at manufacturers recommended intervals
  – CONTACT TIME
Contact Time

• The amount of “moist time” required to kill bacteria / viruses
  – Be aware of product label…..generally 10 minutes

• Immersion
  – Implements, shears, combs
  – Requires rinsing, but no dry time

• Sprays

• Wipes
Sterilization – Step 3

• Completely destroys all living organisms
• Requires autoclave using heat and pressure to achieve sterilization
• Proper disinfection must be performed prior to using autoclave
• Healthcare application rarely used in cosmetology
Clean, Disinfect or Dispose?
Clean, Disinfect or Dispose ?
Clean, Disinfect or Dispose?
Clean, Disinfect or Dispose?
Reason # 1

It’s The Law
Wisconsin Law

- Disinfected as follows:
  - Cleaned (sanitized) first
  - EPA Labeled or Hospital grade disinfectant
  - Receptacle large enough to hold items completely immersed with a cover
  - Blood contamination – Tuberculocidal (phenolic) disinfectant***Changed 2013
  - Disinfected items to be stored in clean, covered container
Reason #2

The Things That Should Scare You
Bacterial Threats

• Bacterial mutation in superbugs makes most antibiotics ineffective – Antibiotic Crisis

• Emerging Superbugs
  – MRSA (1,000,000 / 100,00)
  – Drug Resistant TB
  – VRE
  – Drug-resistant Streptococcus pneumoniae
MRSA

• Risks
  – Impaired Immune System
  – Communal Living Situation
  – Contact Sports
  – Sharing of Towels
  – Frequent or Long Term Antibiotic Use
  – 1/3 of People are Colonized

• Symptoms
  – Small Bumps/Boils that can enter the bloodstream
  – Lead to Severe Life Threatening Infections
Viruses

• Pathogenic disease-causing agents that are many times smaller than bacteria.
• Enter healthy cells, grow to maturity, and reproduce, often destroying the cell.
• Viruses thrive on hard, dry surfaces
• Examples:
  
<table>
<thead>
<tr>
<th>Virus</th>
<th>Disease</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPV</td>
<td>Influenza</td>
</tr>
<tr>
<td>Measles</td>
<td>HIV</td>
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<tr>
<td>Mumps</td>
<td>Hepatitis</td>
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<tr>
<td>Herpes</td>
<td>Chicken Pox</td>
</tr>
</tbody>
</table>
Influenza

- H1N1 Demonstrated the ease of viral transmission
- Quick to spread - slow to mutate
- Special concerns with new Flu’s
  - Unusual Spread Pattern
    - Affected many young healthy people
  - Common “flu-like” Symptoms
    - Fever, Body Aches, Cough, Headache, Nausea, Fatigue
    - Short Incubation Period
HPV – Human Papilloma Virus

• **Risks**
  – Sexual Partners
  – Age
  – Immune System Impairment
  – Tears in Skin

• **Symptoms**
  – None
  – Warts
  – Plantar Warts
  – Genital Warts

#1 cause of Cervical Cancer
Contagious prior to appearance of warts
Human Papilloma Virus......Here
And Here!
HSV – Herpes Simplex Virus

- **Risks**
  - Sexual Partners
  - Women
  - Immune System Impairment
  - Tears in Skin

- **Symptoms**
  - Most people have no symptoms
  - Recurring
  - Pain, itching, chancre
  - Contagious prior to symptoms
Hot Topics - 2013

• Clostridium Difficile (C.Diff) – 32,000 / year
• “AIDS Like” Illness – Asian connection
• West Nile Virus
  – Vector borne illness – 2500+ cases since July
• Klebsiella pneumoniae – NIH outbreak (August 2012)
• Increased AIDS in Young Adults
• Influenza 2013
Reason #3

A Trip to the Barber
Reason # 4

You Don’t Know……

What You Don’t Know
The High Risk Client

- Has Immune system impaired by medication or disease
- Has Illness that is undiagnosed
- Harbors virus that is not currently active
- Has had surgical or medical intervention
- Has traveled outside of the US
- Has a high risk occupation

How would you know??
The Diabetic Client
The Mastectomy / Lumpectomy Client
Opportunistic Infections

- Staph Rash
- Yeast Rash
- Psuedomonas
Medications Affecting Immune System

- Glucocorticoids – Suppress inflammatory response – used in transplantation, autoimmune disorders, severe allergies, asthma, swelling of joints (RA)
- Cytostatics – used in auto-immune disorders
- Interferon – Used in Multiple Sclerosis (MS)
- Opioids
Your Clients – Get to Know Them!

- Listen….What is going on with their health?
  - Immune Disorders or Compromise
  - Diabetics
  - Mastectomy Patients
  - Cardiac or Renal Impairment
  - Chemotherapy Patients
- Do they appear clean?
- Are they “maintenance” customers?
- Do you see open sores or rashes?
Prepare Your Business

• Supply hand sanitizer and tissues at all workstations
• Stock plenty of disinfectant solution
• Know the levels of disinfection required and adhere to those standards
• Consider if additional disinfection of common use surfaces is needed during high risk times
• Encourage staff to stay home when sick
• Cross train employees to step in when needed
• Allow customers to cancel without penalty when sick
Prepare Yourself

• Use antibiotics correctly!
• Stop smoking and exposure
• Make 8 hours a habit!
• Make 8 glasses a habit!
• Stay home when sick
• Get immunized (Hep B, Pneumonia, Influenza, Tetanus)
• Exercise …doesn’t have to be painful, just consistent
• Eat your vitamins
• Keep your hands to yourself!
Resources

• Barbicide.com
  – Barbicide Certification
  – Presentations
• Probeauty.org
• CDC.gov
  – Business planning guide
be blue
what’s in a color? everything.

Distinctly blue Barbicide® is the international symbol of clean. For decades, salons have shown a dedication to germ eradication by displaying the never-fading solution in iconic steel and glass jars. Barbicide® Blue is the undisputed hue of disinfection - and now it's ready to clean up any industry. Join the germ-free movement. Step into the blue.