THRIVE Rx

Improving Life on Nutrition Support

Using IV Infusions for Fluids and Nutrition

HISTORY

Sir Christopher Wren 1632-1723

- Ale
- Beer
- Opium

- Infused through a pig bladder into the vein using a pen quill

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HISTORY

WWII

Men died because their bodies lacked sufficient nutrient stores to sustain life during traumatic injury

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HISTORY

- 1960-1964

Residents at U Penn

Successfully feed beagle pups intravenously through Central Venous Access and TPN is born

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BIOMEDICAL HISTORY:WHERE WE'VE BEEN

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BIOMEDICAL INNOVATION: WHERE WE ARE

- Pump Options
  - CADD
  - Gemstar
  - Curlin
  - Bodyguard 323




- Tubing/Extension Options
  - Pump Specific Tubing, Filters
  - Y sites, PICC Extensions, "Curly Tubing"


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Spectrum of Nutrition Support

- Oral Nutrition
- Enteral Nutrition
- IV Hydration
- Home Parenteral Nutrition

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WITH PROGRESS…COMES THE CHALLENGE

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Challenges of Home IV Hydration

- Reimbursement
- IV Access
- Nursing care and education
- Complications of therapy

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What about Hydration Therapy??

"C'mon, c'mon—it's either one or the other."

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Types of IV Lines and Complications

- Peripheral Lines
    * Hand or arm placement
    * Short term (3-5 days)
    * Limited
    * Skilled Nurse with frequent visit to Insert or maintain

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Types of IV Lines and Complications

PICC Lines

* Usually in Upper Arm
* Placed in IR/Hospital with X Ray to verify placement
* Can not get wet/ go swimming
* Risk of infection/complications

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Types of IV Lines and Complications

- Port A Caths
  - * Usually placed in upper chest
  - *Surgery for placement/removal
  - *Port Needle change every week but can be taken out to swim/bath

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Types of IV Lines and Complications

- Tunneled Catheter:
  - * Usually in Upper Chest
  - * Surgery to place/remove
  - * Limited ability to bath/swim
  - *Complications, Risk of Infection

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Unique to Mito……

Possible:

Skin Sensitivities→Skin breakdown→Infection

Altered Immune Response →Risk of Infection

Clotting Issues → Line Clogging →Loss of use of line →Risk of infection

Infection →Hospitalization →Worsening Symptoms/ other system complications

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Catheter Occlusion Treatment

>60% of all clogged Central Lines is due to Thrombotic Occlusions or 'Blood clot'

CathFlo Activase® is used to clear the clog

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Catheter Occlusion Treatment

- **For Lipid Occlusions:**

  3.0 ml of 70% Ethanol

- **For Mineral Occlusions:**

  3.0 ml of 0.1N HCL

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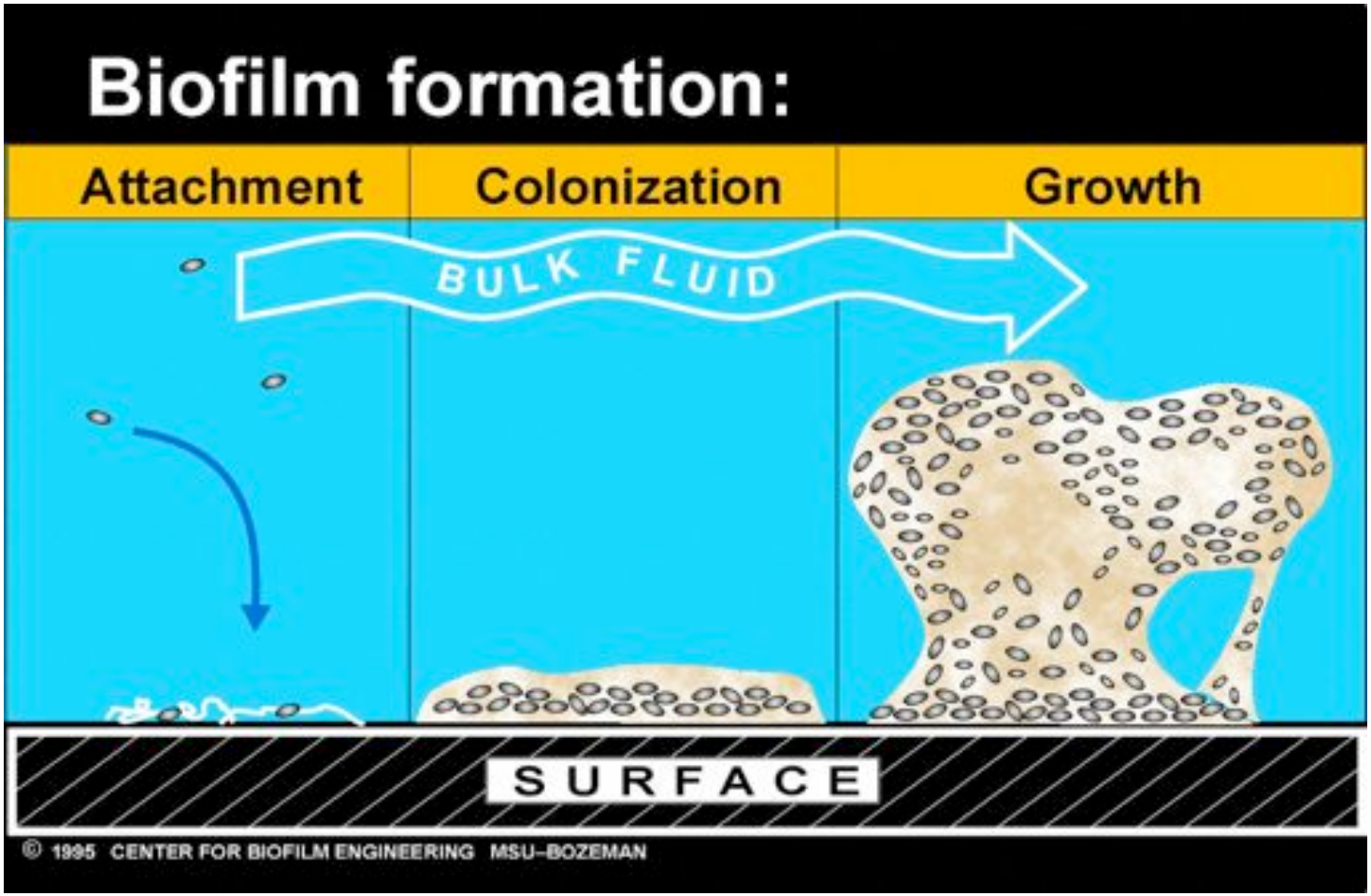
BIOFILM: WHAT IS IT??



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TREATMENT OF CRBSI'S

- IV antibiotics: course of treatment and drugs

- Systemic Antibiotics
- Antibiotic Locks
- Sometimes CVL Removal

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PREVENTION OF CRBSI's

- **Ethanol Locks/What's the Buzz**
  - 25 – 98% solution of Ethanol instilled into catheter and withdrawn after 2 to 12 hours
  - Contraindicated use with cisapride, diabinase
- **Antibiotic Impregnated Catheters**
  - Rifampin and Minocycline
  - Cuffs
- **Chlorhexidine Impregnated Patch**
  - Example: Biopatch
  - Used at site of catheter insertion

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Keep Me Safe!!

KEEP ME

SAFE

S crupulous hand washing between patients and before procedures.

A ssess and organize operations separating clean procedures from things like opening packages. Once you apply your gloves don't touch packages or other dirty items, think first.

F riction to the hub! Always scrub access points with alcohol or tincture of iodine prior to injecting medications, flushing solutions or connections.

E stablish and maintain sterile to sterile fluid pathway. Only touch sterile pieces to sterile pieces.

KEEP ME FREE OF INFECTION

I have a lot of living to do!

Patients have been taught these basic principles and deserve this level of care.

Endorsed by:

AVA Association for Vascular Access

The Oley Foundation

(800) 776-6539 - www.oley.org

INS Infusion Nurses Society

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INNOVATIONS IN LINE CARE

- BioPatch®

Alcohol Swab Caps ™

CUROS CAPS™

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