TRANSMISSION

Modes of Infection Transmission



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Respiratory



Gastrointestinal



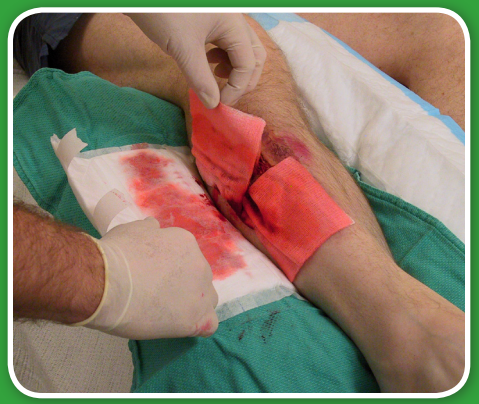
Urinary Tract



Portals of Entry



Intravenous



Skin & Wounds

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How Infections are Spread

Direct Transmission



Indirect Transmission



Droplet Transmission



Airborne Transmission



Common Source



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Direct Contact Transmission



Occurs by touching, or being touched by, the infected or colonized person

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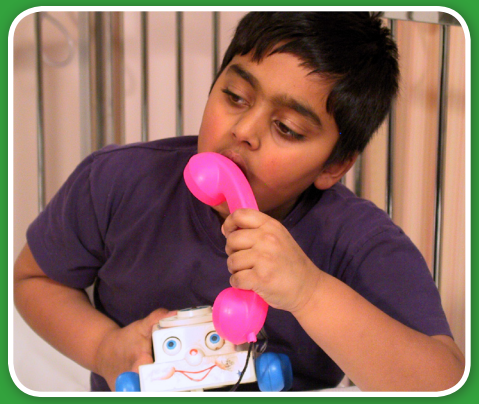


Occurs by touching, or being touched by, the infected or colonized person

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Indirect Contact Transmission







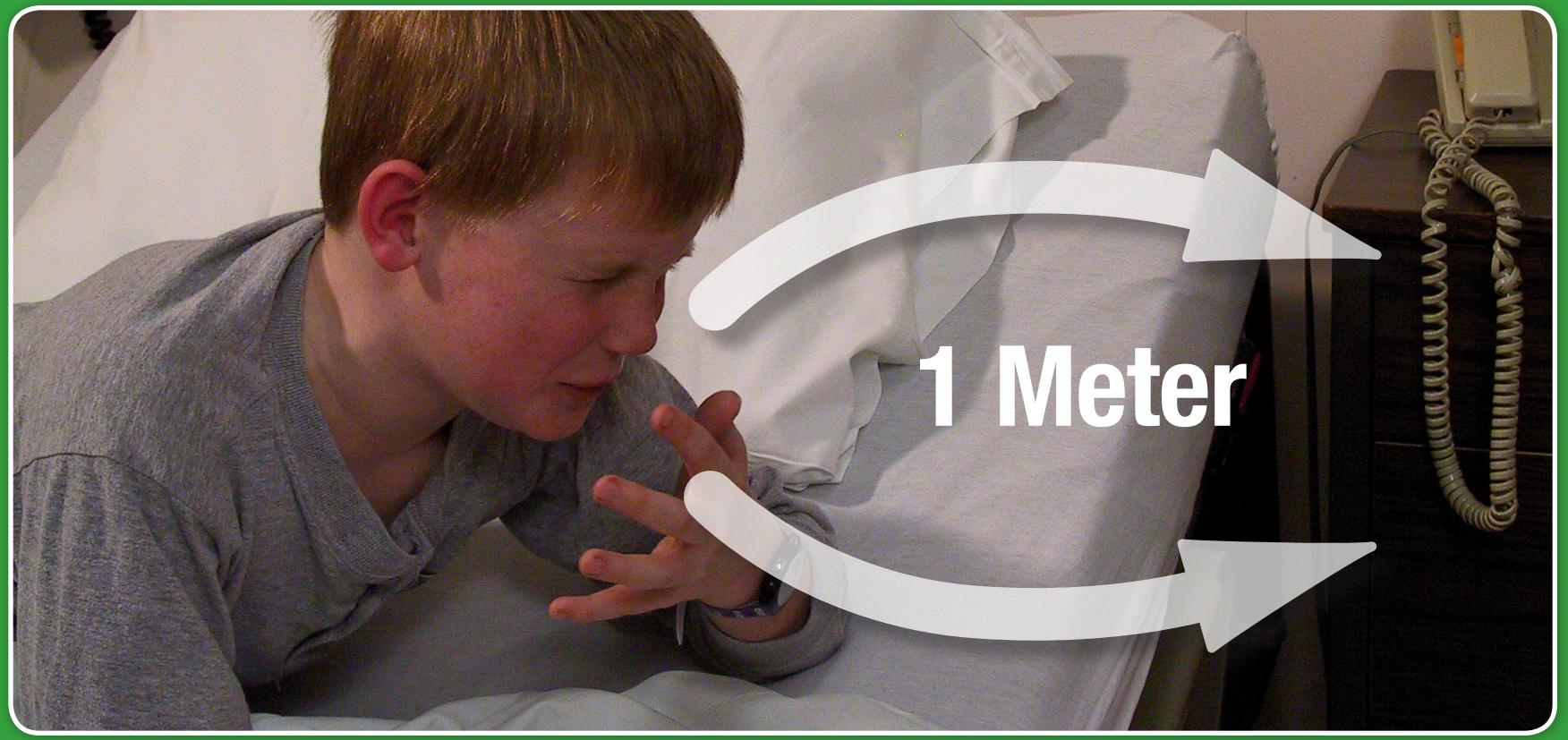


Occurs when an object gets contaminated and is handled by another uninfected person

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Droplet Transmission



Refers to large respiratory droplets greater than 5µm in size created by coughing or sneezing that travel less than 1 meter

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Droplet Transmission

Large droplets greater than 5µm travel less than 1 meter

Examples -Group A Streptococcus
-Neisseria meningitidis
Influenza

Airborne Transmission

Small aerosols less than 5µm travel on air currents

Examples -Measles
-Chicken Pox
-Tuberculosis

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Airborne Transmission



Refers to small respiratory aerosols less than 5µm in size that travel long distance on air currents

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Common Vehicle Transmission









Occurs when a single contaminated item such as medication, food or equipment transmits infection

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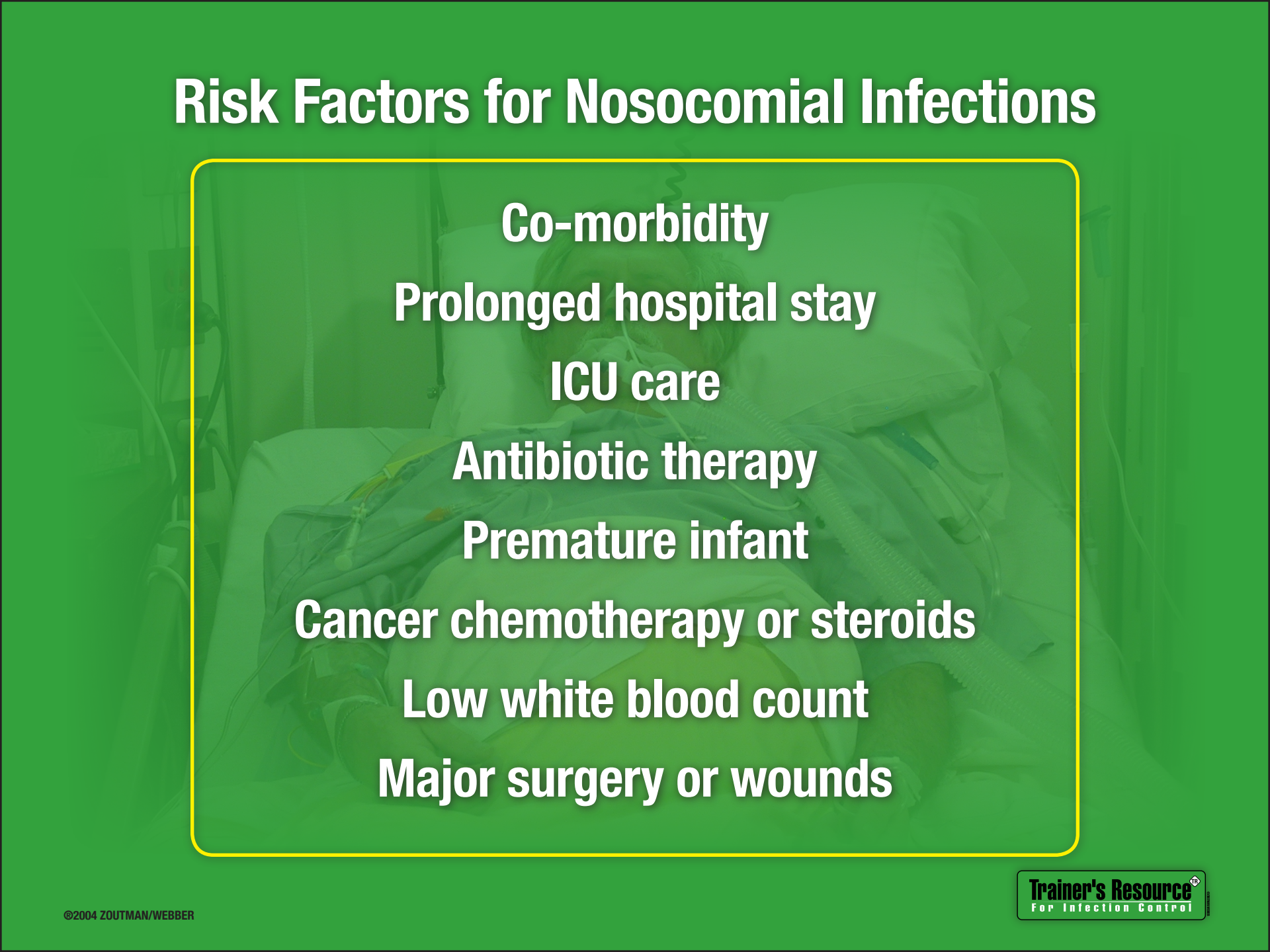
High risk patients have many different risk factors for infection



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Risk Factors for Nosocomial Infections

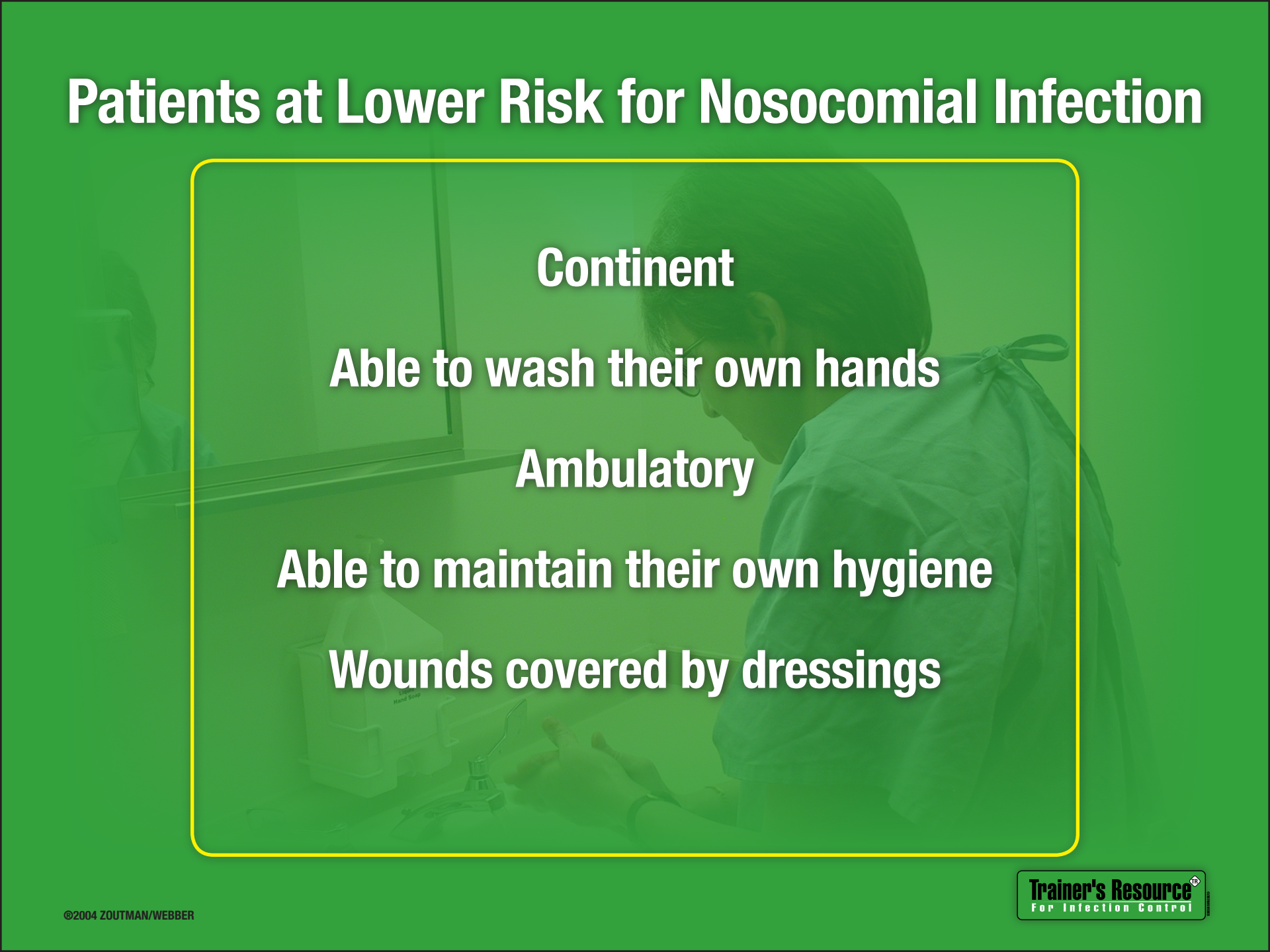


- Co-morbidity
- Prolonged hospital stay
- ICU care
- Antibiotic therapy
- Premature infant
- Cancer chemotherapy or steroids
- Low white blood count
- Major surgery or wounds

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Patients at Lower Risk for Nosocomial Infection



Continent

Able to wash their own hands

Ambulatory

Able to maintain their own hygiene

Wounds covered by dressings

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Questions?

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