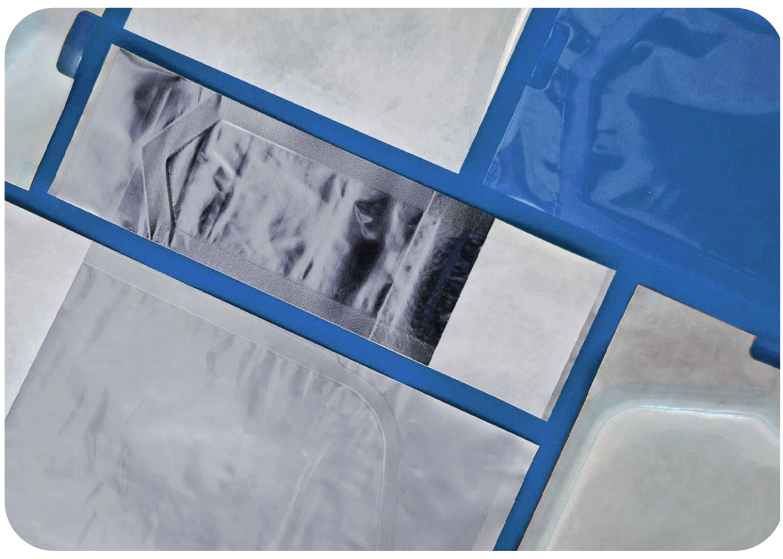
STERILE PACKAGING DAY

10 MARCH 2021

Sterile Packaging
The Silent Hero of Healthcare

Preventing Infection & Keeping Patients Safe

The delivery of innovative, safe, and sterilized devices and supplies is critical to preventing infection and keeping patients safe. Sterile packaging plays a vital role in protecting this equipment from contamination and ensuring that the patient receives the care they need. This infographic explores some of the common uses, main benefits, and history of sterile packaging.



Brief History of Sterile Packaging

2021
Inaugural Sterile Packaging Day!

2017
EU Medical Device Regulations (MDR) Published

1997
ISO 11607 published as a standard of "requirements for single-use materials and reusable containers used for packaging of terminally sterilized medical devices…"

1994
SPMC founded – brings together companies to promote sterile packaging for life-saving medical devices and pharmaceuticals

1993
Medical Device Directive (MDD) Published

1976
Medical Device Amendment Created

1901
Hand Book of First Aid published to bring awareness to basic hygiene and emergency care

1888
Modern Methods of Antiseptic Wound Treatment published by Fred Kilmer to educate medical professionals on how to use antiseptic surgical supplies

Introduction of the First Aid kit to bridge the gap between injury and treatment

1865
Groundbreaking research by John Lister linking bacteria as a cause of infections in wounds. Lister's research and experimentation saw a notable reduction in post-operative infections.

Importance of Sterile Packaging in Healthcare Settings

An average person undergoes
9 surgical procedures
in their lifetime[1]

Each procedure can use as many as
50 instruments, devices, & accessories
that must be sterile

A person will encounter
450 sterile packages
over their lifetime from surgical procedures alone

Preventing Infection

The US alone averages 22 million surgeries in a year. At any given time, 1 out of every 31 hospitalized patients are affected by infection[3]. Without clean equipment and a safe environment, the rate of complications due to infection would be unimaginable. The use of sterile packaging combined with routine antiseptic practices can protect patients from **1.1 billion infections** in a year[4]. Sterile packaging ensures there is one less thing to worry about in healthcare settings.

7%

decrease in standardized infection ratio related to all National Healthcare Safety Network operative procedure categories combined between 2015-2019 [5]

Common instruments, devices, & accessories protected by sterile packaging

Gloves · Masks · Anesthesia Masks · Scalpels · Gauze & Bandages

Gowns · IV Sets · Syringes · Joint Replacements

From bandages to pacemakers Sterile Packaging Impacts Lives

Simple Structures ····· **Complex Packaging Systems**

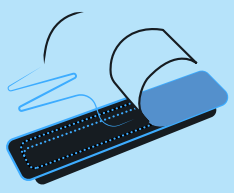
Class I

Examples include bandages, gauze

Class II

Examples include catheters, pregnancy test kits, surgical drapes, infusion pumps and associated tubing for IVs

Class III



Examples include sutures, knee and hip implants, pacemakers, deep brain stimulators

SPMC

Sources
1 https://mcacs.org/abstracts/2008/p15.cgi
3 https://www.cdc.gov/hai/data/portal/progress-report.html
4 https://www.hcup-us.ahrq.gov/reports/statbriefs/sb223-Ambulatory-Inpatient-Surgeries-2014.jsp
5 https://www.cdc.gov/nhsn/pdfs/pscmanual/9pscssicurrent.pdf

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