Infection Control for Hospital Construction and Renovation

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1.2-3 Infection Control Risk Assessment (ICRA)

The infection control risk assessment is a multidisciplinary, documented assessment process intended to proactively identify and mitigate risks from infection that could occur during construction activities. This process identifies and takes into account the patient population at risk, the nature and scope of the project, and the functional program of the health care facility. The ICRA determines the potential risk of transmission of various air and waterborne biological contaminants in the facility.
ICRA Compliance

1.2-3.3 Compliance Elements

1.2-3.3.1 ICRA Documentation

This written record shall remain an active part of the project documents for the duration of the construction project and through commissioning.

- Infection Control Risk Mitigation Recommendations (ICRMR)
- Monitoring Plan
  - Daily/weekly checklist to verify described methods are in place
- Plans which describes specific methods by which transmission of contaminants will be avoided
  - Barriers, negative pressure, sticky mats, HEPA filters, etc
- Communication
  - Report checklist findings to Infection Control/Safety Committee

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  - Report checklist findings to Infection Control, Life Safety Committee and Environment of Care Council
Construction dust can…

- Cause infections in some patient
- Worsen allergies in some patients or staff
- Contain fungal (mold) spores that may be harmful to some people.
- Aspergillus species is a type of fungal (mold) spore found in dust.
Aspergillus sp.

- Found in the soil
- Decomposing plant matter
- Household dust
- Building materials
High Risk Patients

- Bone marrow or solid organ transplant
- Steroid or other immunosuppressive therapy
- HIV
- Kidney Failure
- Cancer
- Extreme ages

Mortality of nosocomial Aspergillosis: 65–100%
Barrier For Dust Control

Door Closed

Tight to ceiling and walls
Barrier For Dust Control

- Zipper closed
- Sticky mat
- Tight to ceiling and walls
Creating Negative Pressure
Creating Negative Pressure

Exhausting HEPA filtered air
STICKY MATS
Sealed Air Ducts
Use Of Coveralls During Demolition

Debris Removal
Checking HEPA Air Scrubbers

New policy that requires the gauge be visible at all times
Continuous Monitoring of Negative Pressure
Portable Anteroom
Educational Material for Construction Workers

Infection Control During Construction

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