

INFECTION PREVENTION AND CONTROL

AIRBORNE INFECTION ISOLATION ROOMS (AIIRs) AND PROTECTIVE ENVIRONMENT (PE) ROOMS

Room types and appropriate uses:

1. Airborne Infection Isolation Rooms (AIIRs): negative pressure rooms and 6th Floor Elliott Wing

- Designed to *protect individuals outside the room* from the patient/environment inside the room
- Used for patients who have or are suspected to have an airborne infectious disease (e.g. TB, measles, chickenpox)
- For information on Airborne Precautions, see [policy 1201.02](#)
- When possible, patients requiring Airborne Precautions should be placed on units that are part of the [respiratory protection program \(see policy 1228.00\)](#) and thus designated and trained to care for patients requiring this type of precautions. These units are denoted in the table below with an *. If a patient requiring airborne precautions is placed on a unit that is not part of the respiratory protection program, ensure that staff caring for the patient are approved to wear respiratory protection (e.g. float team staff, arrange for just-in-time medical clearance/fit testing, etc).
- **** 6th Floor Elliott Wing** has the ability to turn all rooms negative and cannot be separated out for an individual room. Rooms will be changed from normal airflow to negative airflow based on the need for additional rooms. Consult with infection prevention to determine when airflow should be changed. Facilities will need to be notified to transition airflow and assess rooms daily.
- Once a room is done being used for Airborne Precautions, the room should either remain vacant OR precautions should continue to be followed until sufficient time has elapsed to remove potentially infectious particles. See the table below for the amount of time required by room.
- If an AIIR room is not available and a standard room must be used for a patient in Airborne Precautions, the room must remain vacant with the door closed OR precautions should continue to be followed for 60 minutes. For patients in Enhanced Respiratory Precautions receiving AGPs, please refer to [Respiratory protection, aerosol-generating procedures, and All room guidelines](#).

2. Protective Environment (PE) Rooms: positive pressure rooms

- Designed to *protect the patient* from the people/environment outside the room
- Used for immunocompromised patients who require a protective environment (e.g. SCIDs, neutropenic, pre-BMT)
- For information on precautions for severely immunocompromised patients, see [policy 1225.00](#)

3. Combination Airborne Infection Isolation (AIIR) / Protective Environment (PE) Rooms

- These rooms are designed to *protect the patient* from the people/environment outside of the room AND *protect people outside of the room* from the patient/environment inside the room.
- These rooms are for immune compromised patients who require a protective environment AND have an airborne infectious disease (e.g. a neutropenic patient with chickenpox).
- These rooms can also be used for AIIR purposes only.
- These rooms can also be used for PE purposes only.

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Maintaining Airflow and Verifying Pressure using the TSI Pressure Monitors:


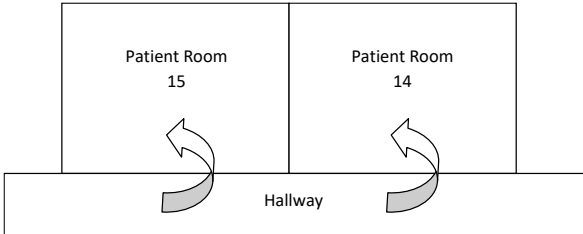

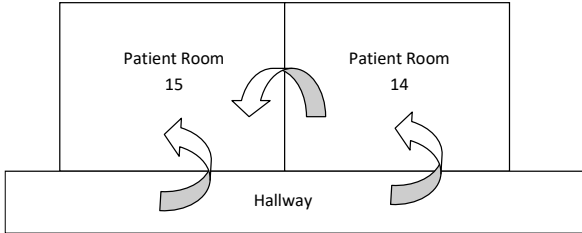
1. When rooms are being used for All and/or PE purposes:
 - The patient room door(s) must be kept completely closed in order to maintain the correct pressure relationships.
 - Notify Facilities. They will check the pressure relationship daily to ensure the rooms are working properly.
 - See the [All and PE Patient Room Instructions](#) document for information on verifying the pressure relationship using the TSI pressure monitor and activating/deactivating the audible alarm.

All Room Capacity:

1. In the event that All room capacity is exceeded (e.g. during a measles outbreak), creation of temporary All rooms (using a portable HEPA ducted to a return) may be considered. If this situation arises, consult with Infection Prevention and Control and Facilities.

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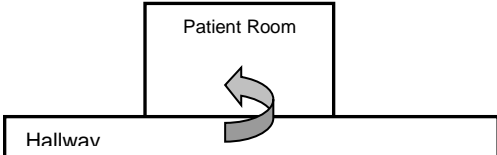
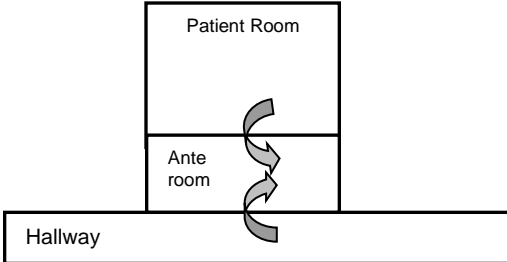
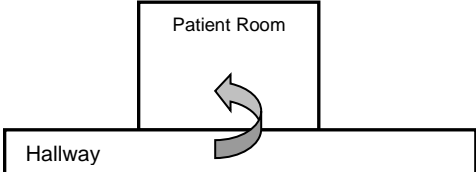
Children's Minnesota – St. Paul

Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
ED-S* 14 15 Key panel switched to "Normal" 	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway  <p><i>Note: With key panel switched to "Normal", rooms can be used independently. Airflow between rooms 14 and 15 is neutral, so neither room is pulling from the other. A patient with an airborne infection may be safely cared for in either of these rooms, even if there is another patient next door.</i></p>	TSI Box in anteroom 0.00 (Room 14 to 15) TSI Box in hallway - 0.01 or less (Room to hallway)	30 Minutes
ED-S* 14 15 Key panel switched to "Isolation" 	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Full Barrier Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway Room 14 becomes "anteroom" and is negative in relation to room 15 N95/PAPR CAN be doffed in room 14 "anteroom"  <p><i>Note: With key panel switched to "Isolation", both rooms are negative in relation to the hallway, but room 15 is pulling more air, so is 'more negative' in relation to room 14. The door between the hallway and room 15 must remain closed at all times. Red lights above rooms 14 and 15 corridor doors and above the "anteroom" door indicate the rooms are in "Isolation" mode (this does not indicate whether or not "Isolation" mode is working – facilities must be contacted to verify this.)</i></p>	TSI Box in anteroom -0.01 or less (Room 14 to 15) TSI Box in hallway - 0.01 or less (Room to hallway)	30 Minutes

* Unit is part of the [respiratory protection program \(see policy 1228.00\)](#)

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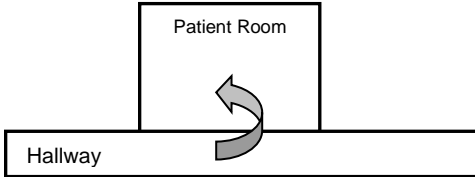
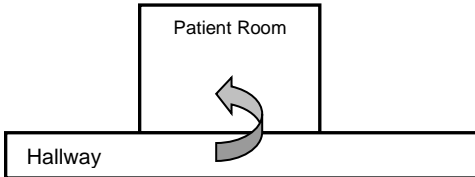
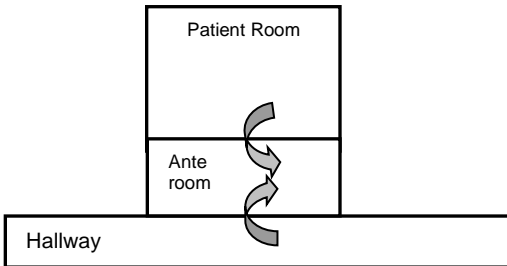
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
ED-S* 12 13 16** <u>** Modified All Room</u>	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
PICU-S* Room 1 (4032)	Combination Airborne Infection Isolation (All) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes
PICU-S* Room 2 (4034) Room 10** Room 11** Room 12** <u>** Modified All Room</u>	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes

* Unit is part of the [respiratory protection program \(see policy 1228.00\)](#)

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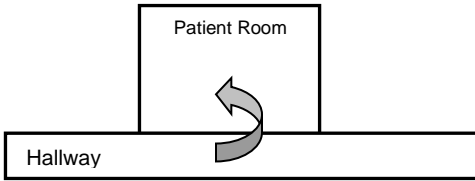
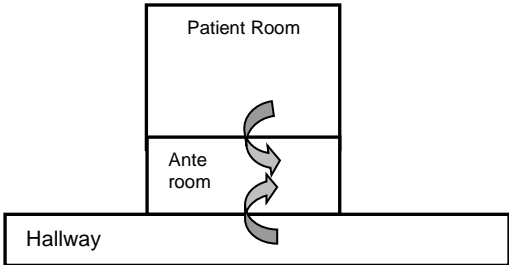
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
Mental Health Unit-S* 4130 4132 4234 4238	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI boxes - 0.01 or less	30 Minutes
5th Floor-S* 5021 5022	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI boxes - 0.01 or less	30 Minutes
5th Floor-S* 5034	Combination Airborne Infection Isolation (All) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes

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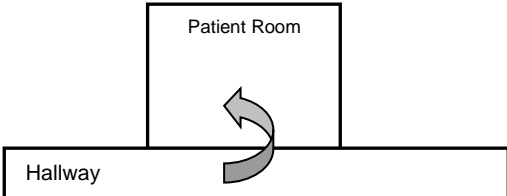
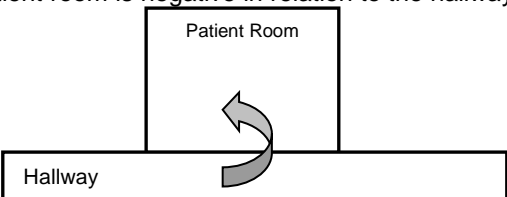
Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
6th Floor-S* 6020 6021 6022	Airborne Infection Isolation (AII)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI boxes - 0.01 or less	30 Minutes
6th Floor-S* 6034	Combination Airborne Infection Isolation (AII) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes

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Updated 02.14.24

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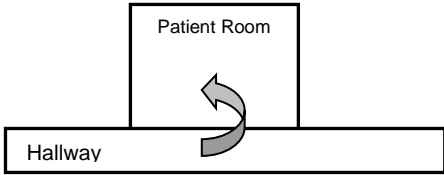
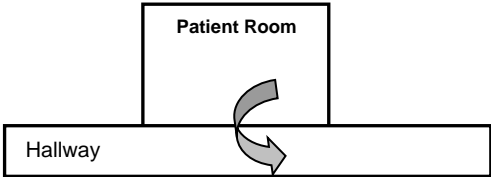
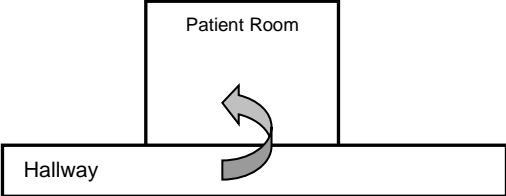
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
PACU-S* 3021	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
NICU-S* 44 45	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	Manual Facilities Check	30 Minutes

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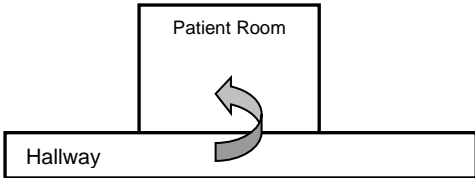
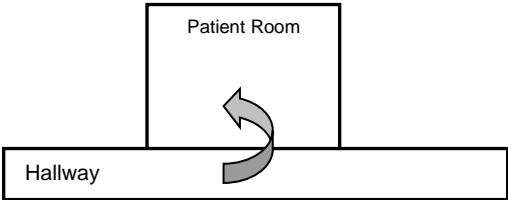
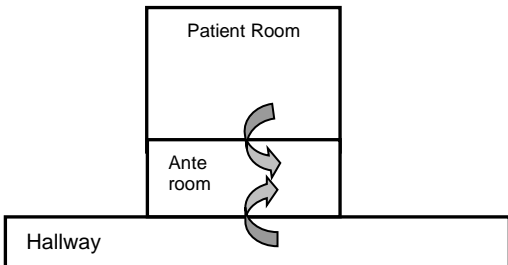
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
ED-M* 8 18** (ceiling) 19** (ceiling) 20** (ceiling) 21** (ceiling) 22** (ceiling) 23 24 25** (ceiling) <u>** Modified All Room</u>	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway  <p><i>Note: Closing the doors to suite containing rooms 23 and 24 makes the whole area negative pressure, and PPE must be donned before entering the suite area. Note that room 25 DOES NOT have a dedicated exhaust. Consult with Infection Prevention and Control regarding its use as an All room.</i></p>	TSI Box - 0.01 or less	30 Minutes
ED-M 1470 (R2)	Protective Environment (PE)	<ul style="list-style-type: none"> Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the hallway 	TSI Box + 0.01 or greater	Not Applicable
LSU-M* 1905 1906 1907	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes

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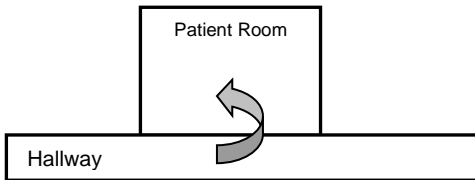
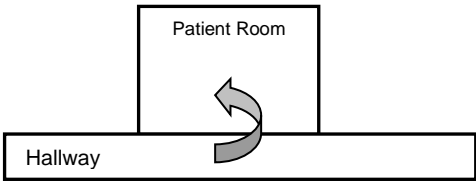
Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
CVCC 4103 4114 4450 (pre-op/PACU)	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
PACU-M* 2510	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
PICU-M* 5104	Combination Airborne Infection Isolation (All) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes

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Updated 02.14.24

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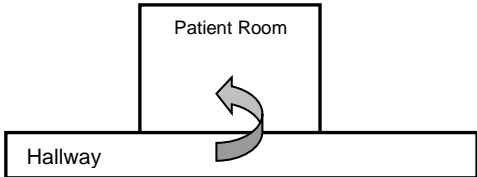
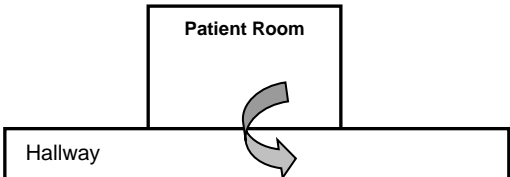
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
PICU-M* 5112** (ceiling) 5115 5430 5431** 5432** 5433** 5434** 5437** 5438 <u>** Modified All Room</u>	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
6th Floor-M* 6106 6107 6132 6133	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes

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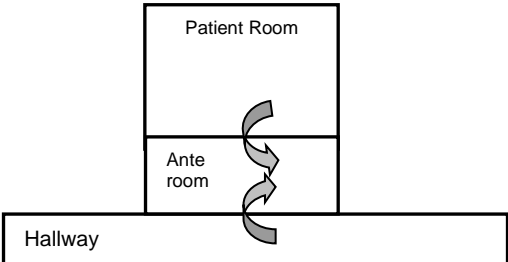
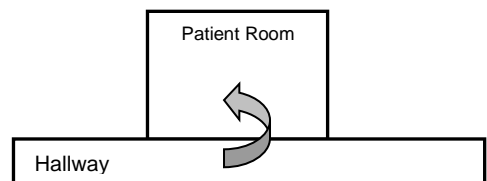
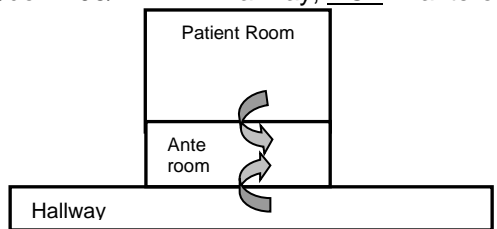
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
6th Floor-M**Elliott* 6471 6473 6475 6476 6477 6478 6479 6480 6481 6482 6491 6493 6495 6496	Airborne Infection Isolation (All) Entire set of 15 rooms will all be negative air	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	Monitoring boxes are not installed at each room. Manual readings performed when system active reads -0.01 or less.	30 Minutes
7th Floor-M* 7107 7108 7122 7123 7124 7125 7126	Protective Environment (PE)	<ul style="list-style-type: none"> Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the hallway 	TSI Box + 0.01 or greater	Not Applicable

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INFECTION PREVENTION AND CONTROL

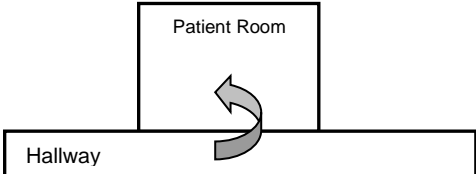
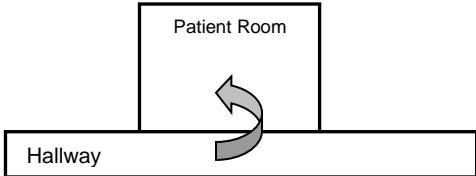
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
7th Floor-M* 7106 7121	Combination Airborne Infection Isolation (All) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes
8th Floor-M 8132 8133	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
8th Floor-M 8127 8128	Combination Airborne Infection Isolation (All) / Protective Environment (PE)	<ul style="list-style-type: none"> Airborne Precautions Protective isolation for immune compromised 	<ul style="list-style-type: none"> Patient room is positive in relation to the anteroom Anteroom is negative in relation to the hallway Air is vented out of the anteroom Don/doff N95/PAPR in hallway, <u>NOT</u> in anteroom 	TSI Box in anteroom + 0.01 or greater (Pt room to anteroom) TSI Box in hallway - 0.01 or less (Ante room to hallway)	30 Minutes

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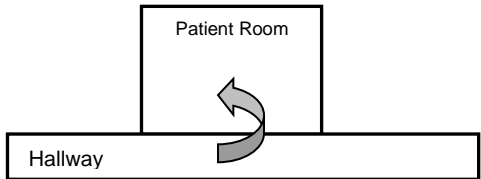
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
Special Care Nursery (SCN) SC2906	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
ICC-M 3101 3102 3103 3104 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3119 3120 3121	Airborne Infection Isolation (All) Entire set of 19 rooms will all be negative air (split in 2 zones)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	Monitoring boxes are not installed at each room. Manual readings performed when system active reads -0.01 or less.	30 Minutes

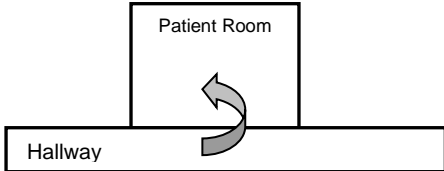
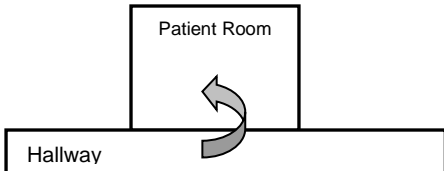
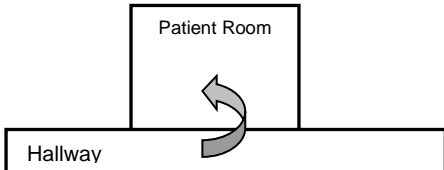
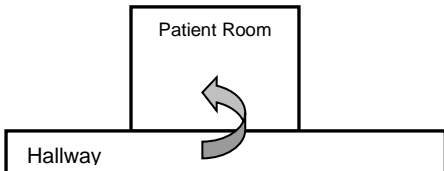
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Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
NICU-M 3406** (ceiling) 3408** 3410** 3412** (ceiling) 3413** (ceiling) 3415** (ceiling) 3416** 3417** <u>** Modified All Room</u>	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes

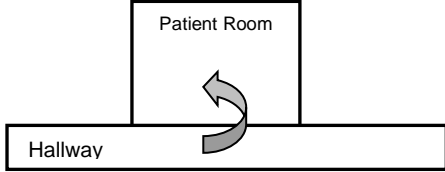
INFECTION PREVENTION AND CONTROL

Children's Minnesota – Clinics and Outside Facilities

Room Location	Room Type	Appropriate Uses for Room	Airflow	Pressure Monitor Readings	Minutes for Room to Remain Vacant if used for Airborne Precautions
West St. Paul Clinic* 119 (Room 5)	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
Gen Peds Clinic-M* CSC 326 (Room 12)	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes
Gen Peds Clinic-S* 3059 (Room 19)	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	Manual Facilities Check	30 Minutes
Specialty Clinics-M* Infectious Disease* CSC 440 (Room 14)	Airborne Infection Isolation (All)	<ul style="list-style-type: none"> Airborne Precautions 	<ul style="list-style-type: none"> Patient room is negative in relation to the hallway 	TSI Box - 0.01 or less	30 Minutes

* Unit is part of the [respiratory protection program \(see policy 1228.00\)](#)

INFECTION PREVENTION AND CONTROL

Special Care Nursery- Mercy Room 6	Airborne Infection Isolation (All)	<ul style="list-style-type: none">Airborne Precautions	<ul style="list-style-type: none">Patient room is negative in relation to the hallway  <p>The diagram illustrates a negative pressure room setup. It shows a rectangular box labeled 'Patient Room' at the top, connected to a horizontal rectangular box labeled 'Hallway' below it. A curved arrow originates from the bottom of the Patient Room and points into the Hallway, signifying that air is drawn from the room into the hallway to prevent contamination from escaping.</p>	TSI Box - 0.01 or less	30 Minutes
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