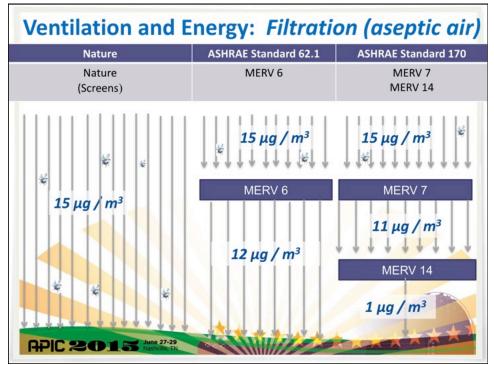


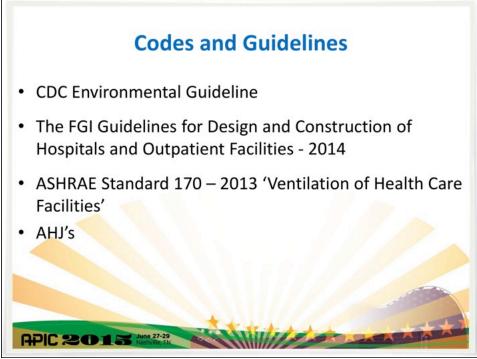
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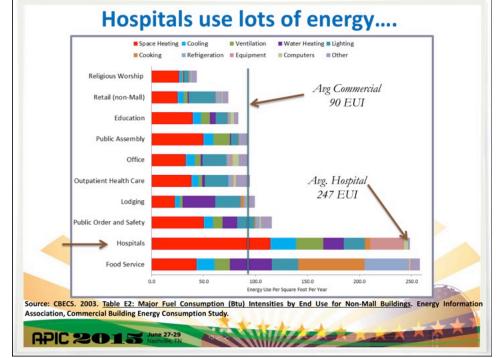


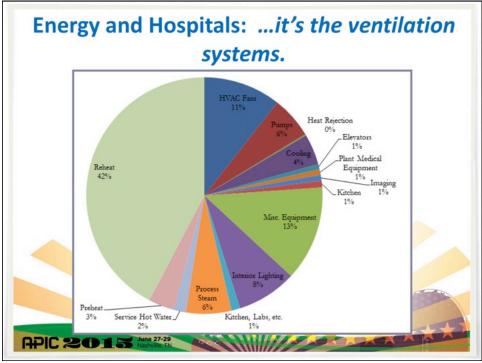


High Acuity Facilities	100 % MECHANICAL SYSTEMS High Acuity Spaces/Critical Pressure Relationships- OR's, C-section room, Prep/ Hold Recovery, Sterile, ICU, NICU, Isolation, Procedure, Trauma, Protective Environment rooms, Sterile Processing Dept (clean, sterile storage & decontamination)			
Moderate Acuity Facilities	25 % NV Infusion, Circulation	75 % MECHANICAL SYSTEMS Non Invasive Radiology, Lab, Outpatient procedures, Isolation		
Medium Acuity Facilities	50 % NATURAL VENT Physical therapy, Back corridors, M/S Patient rooms, Mother/Baby			ked areas, clean
Low Acuity facilities	75 - 100 % NATURAL VENTILATION Low Acuity Spaces- Public circ., Waiting areas, Team spaces, Clinics, Skilled nursing			25 % MV Landlocked, Procedure areas, Exam rooms



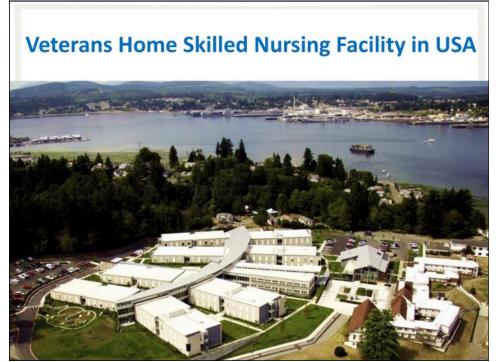
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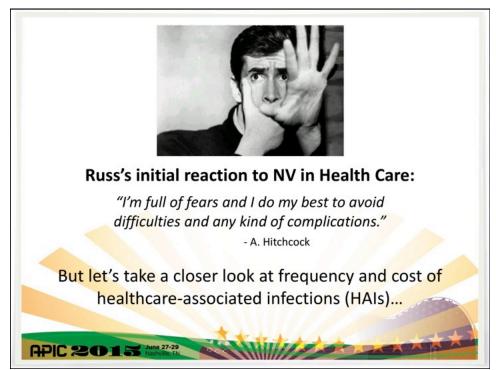
Veterans Home Skilled Nursing Facility



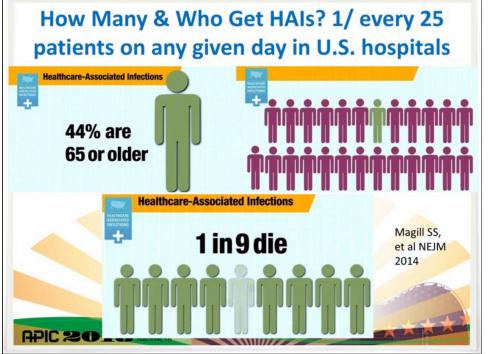
- The project's key strategy is a natural cooling system that capitalizes on the site's mild microclimate and sea breezes.
- 240 operable windows give residents access to fresh air and control over their environment—helping set a precedent for the dignified, empowered treatment of elderly veterans.

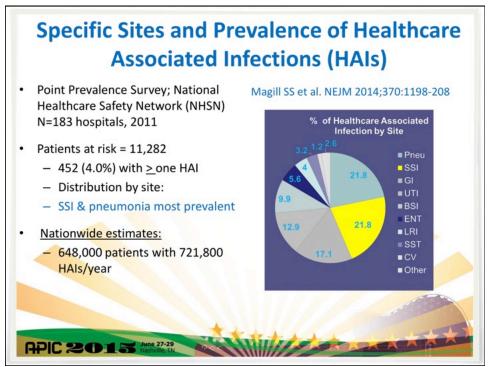
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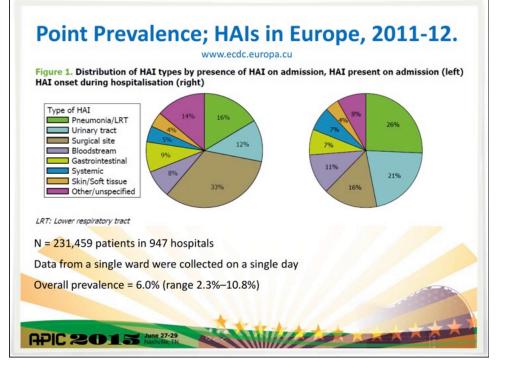


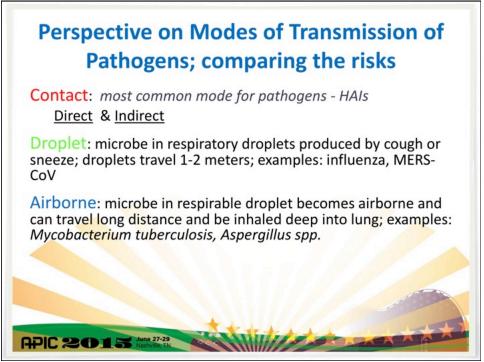
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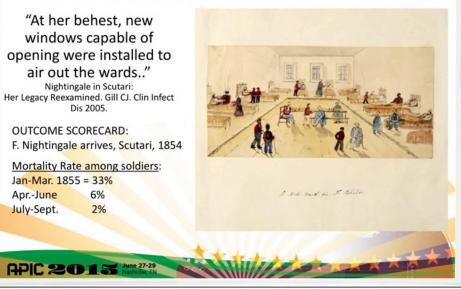


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Historical Experience with Natural Ventilation (NV); What Did Florence DO?



Review

Roles of sunlight and natural ventilation for controlling infection: historical and current perspectives

R.A. Hobday^a, S.J. Dancer^{b,*} ^a8 Springvale, Cwmbran, Torfaen, UK ^bDepartment of Microbiology, Hairmyres Hospital, East Kilbride, Lanarkshire G75 8RG, UK

1) "Current knowledge of indoor transmission of pathogens is inadequate, partly due to lack of agreed definitions for particle types and mechanisms of spread. There is recent evidence to support historical data on the effects of natural ventilation but virtually none for sunlight...

2) ...designing buildings to allow increased exposure to sunlight and outdoor air may discourage survival and spread of infectious agents

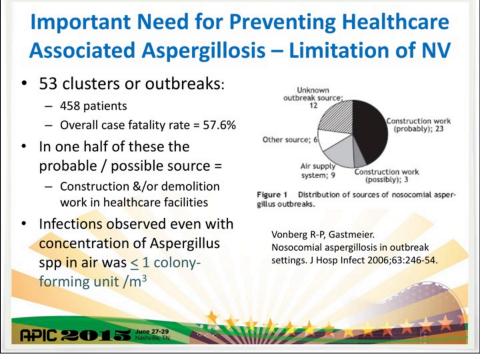
3) consequential health benefits for occupants potential benefits from sunlight penetration and natural ventilation merit further investigation..."

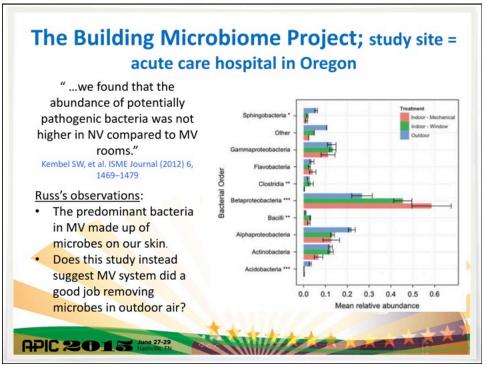
Journal of Hospital Infection 84 (2013) 271-282



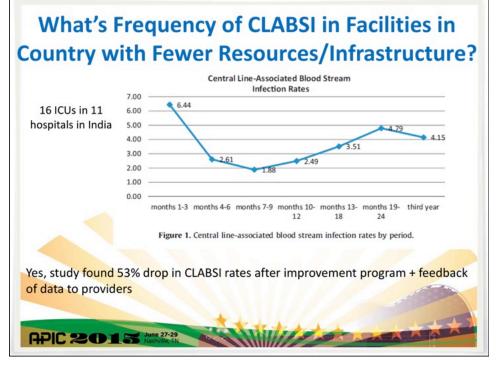
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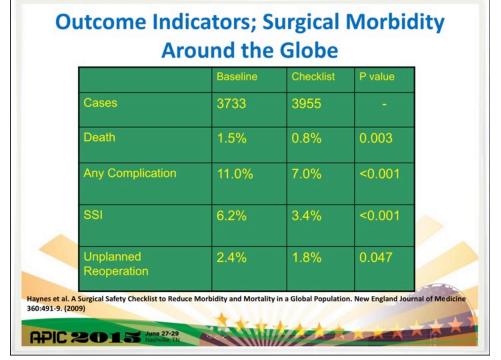


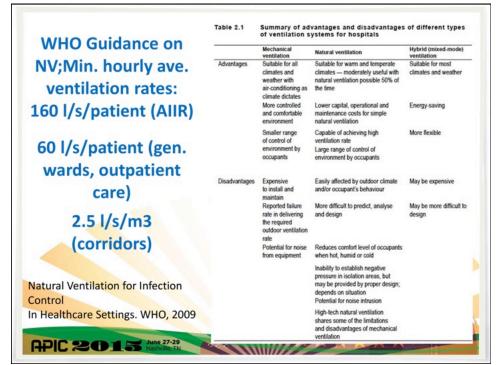
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In U.S., design guidance (FGI) and trend is towards single patient rooms. Rationale;

> spatial separation = less transmission

APIC 2015 June 27-29 Nashville, TN Juxtaposition of Two Principles: Indoor air quality / Preventing cross transmission of pathogens

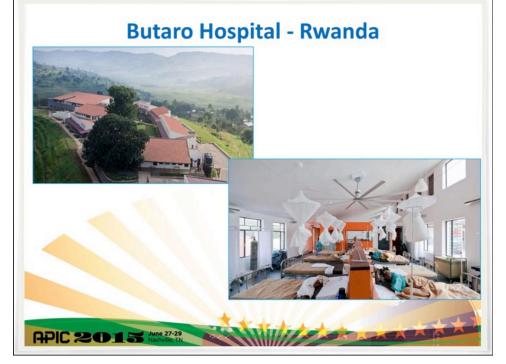


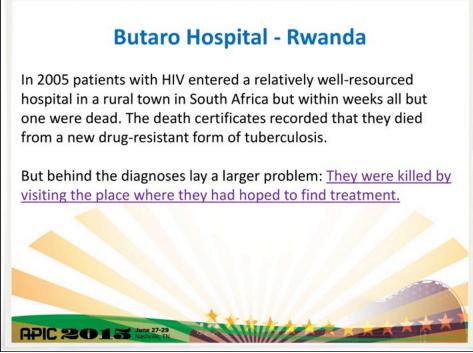
Summary Points on NV & Infection Prevention

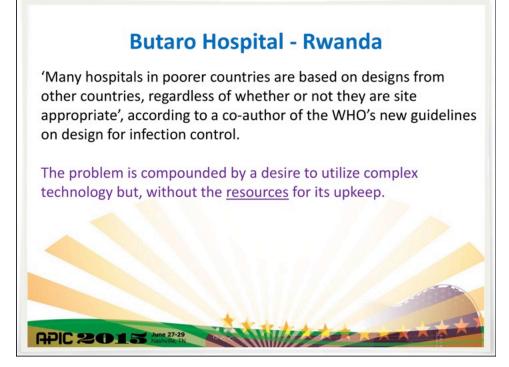
- The predominant mode of transmission of pathogens that cause HAIs is via direct or indirect contact.
- For facilities in the U.S.; design and operation of HVAC that uses NV must not disrupt or inhibit recommended pressure relationships of key areas, e.g. OR, AIIR, PE.
- Surveillance of HAIs differ between countries but does not seem that HVAC design accounts for major difference in frequency of endemic HAIs
- There remain continued questions on NV and more experience/evidence is needed comparing incidence of HAIs in buildings with NV vs MV.

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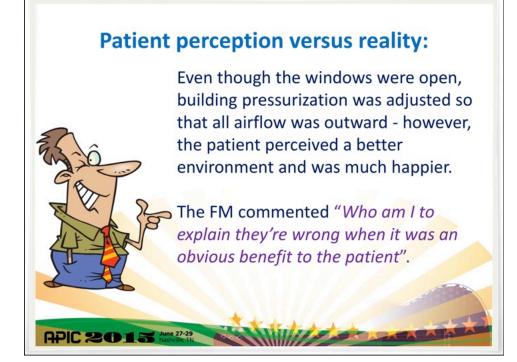


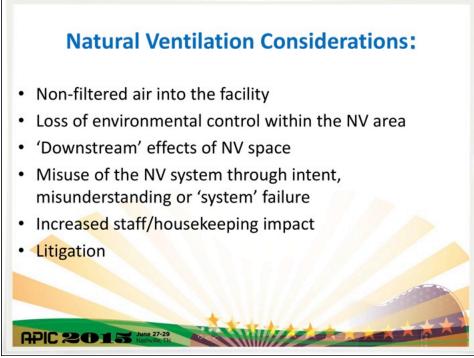
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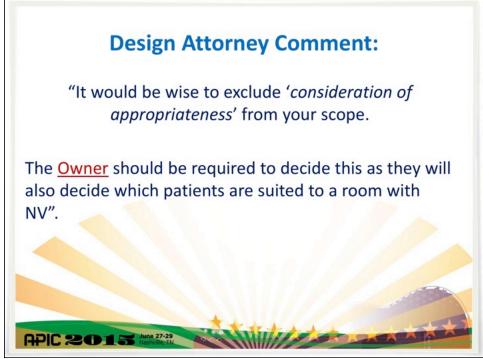


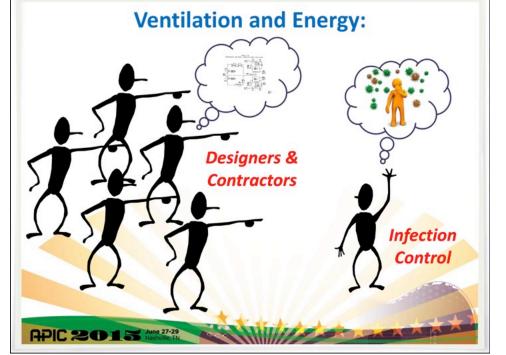
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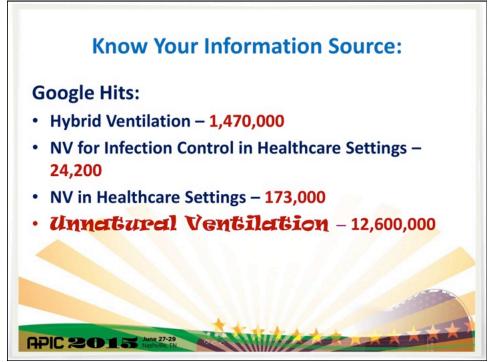




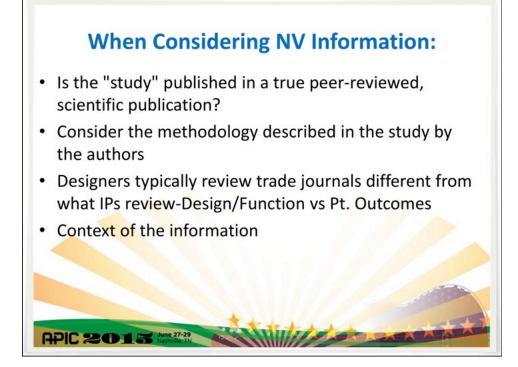








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