

Sally F Bloomfield International Scientific Forum on Home Hygiene

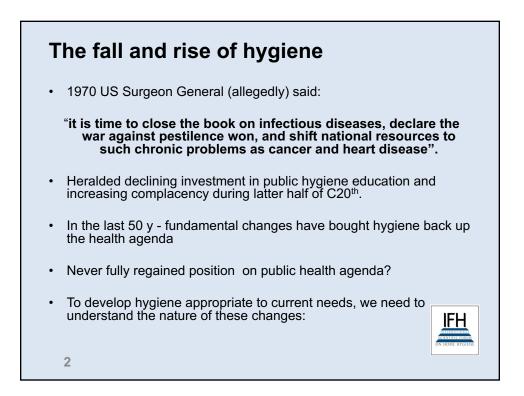
Denver Russell Memorial Lecture

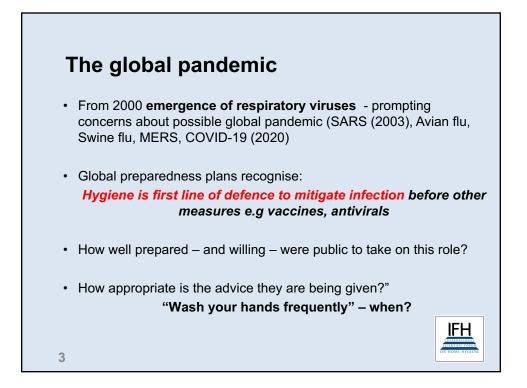


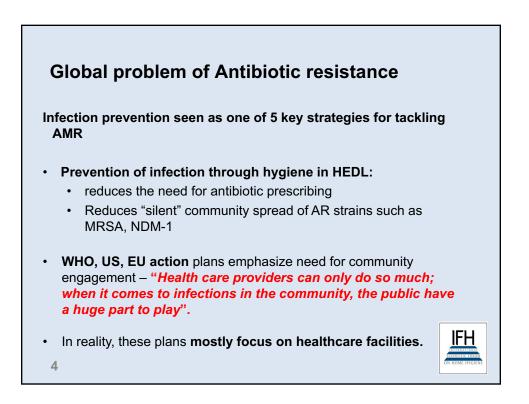
Hosted by Prof. Jean-Yves Maillard Cardiff University, Wales

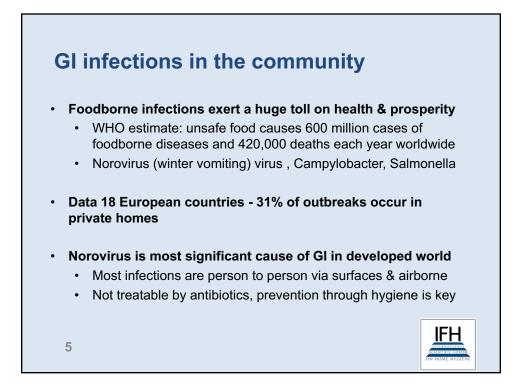
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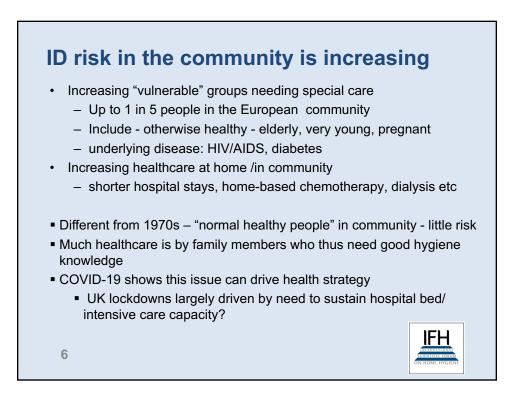
May 18, 2021

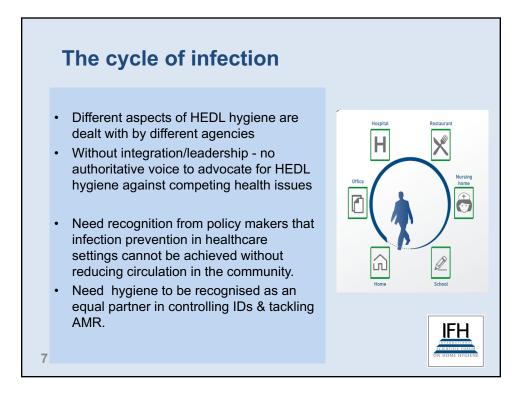








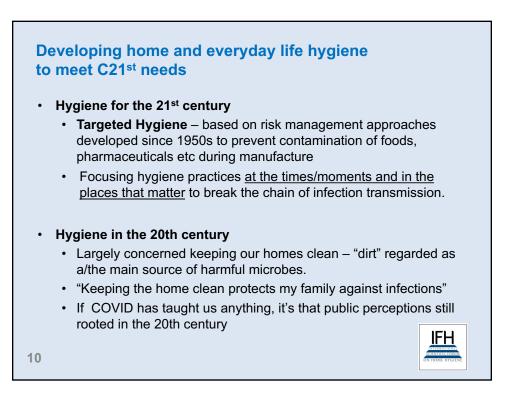






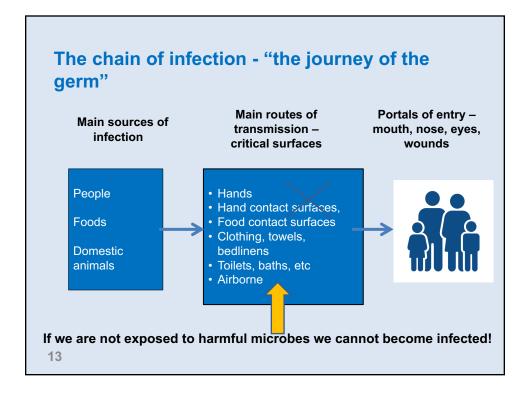


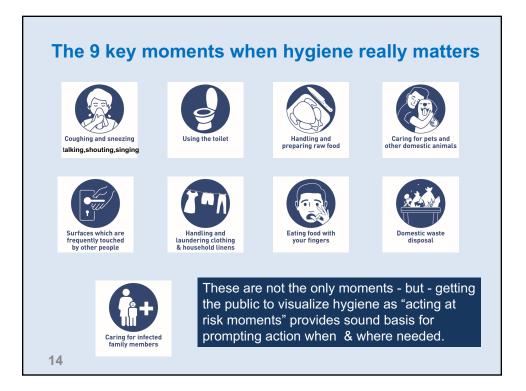
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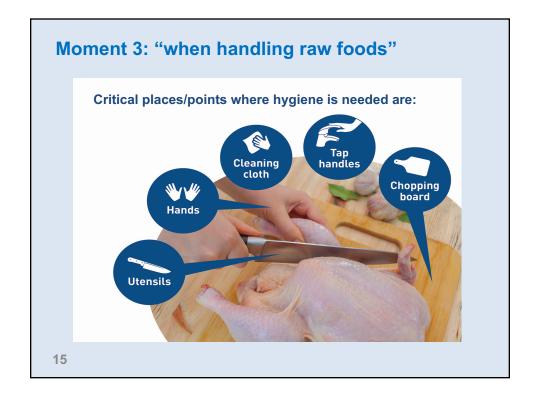


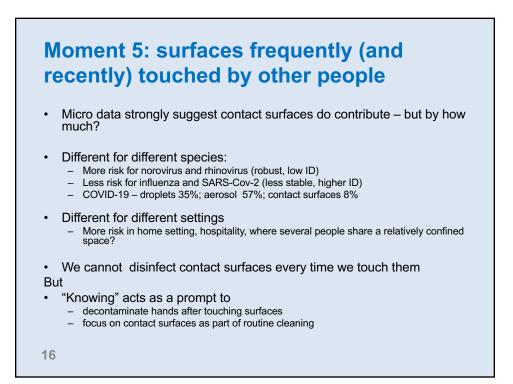


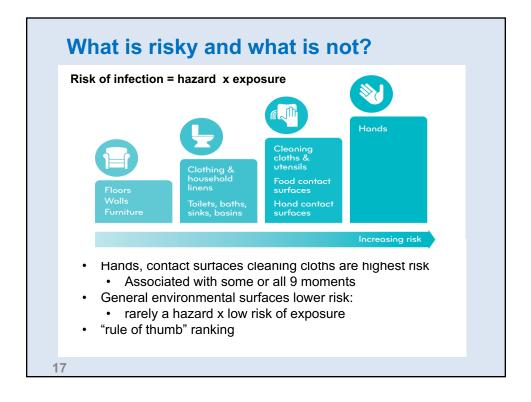




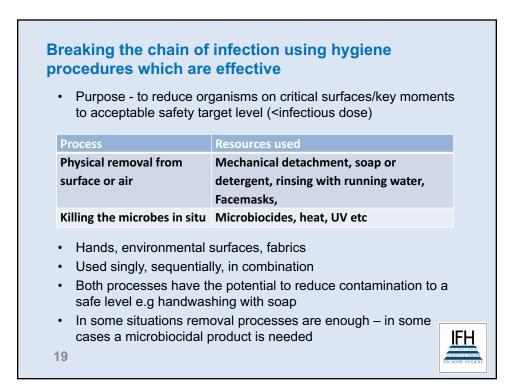


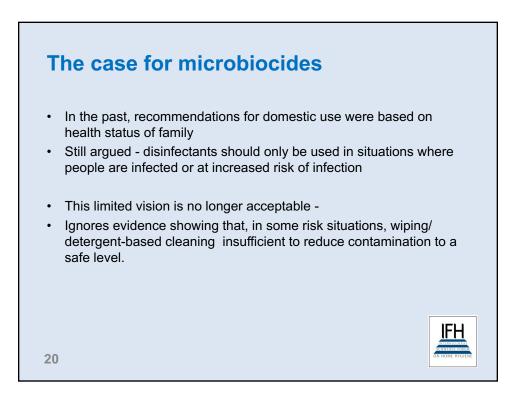




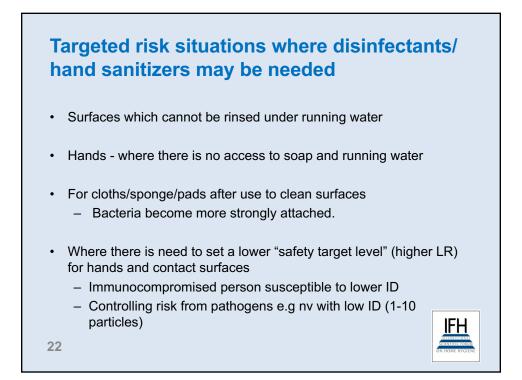


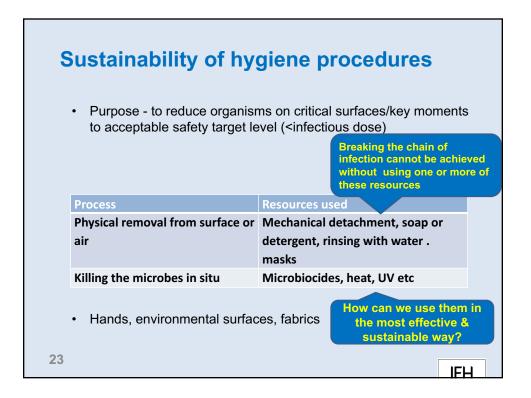


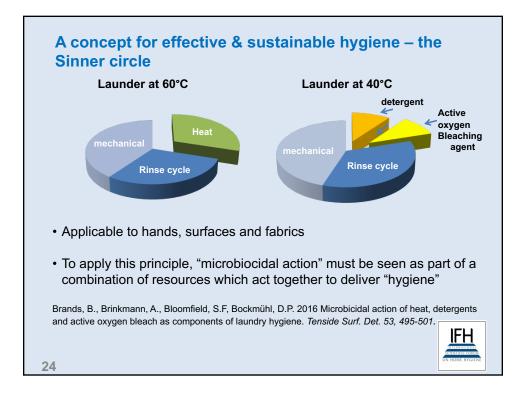


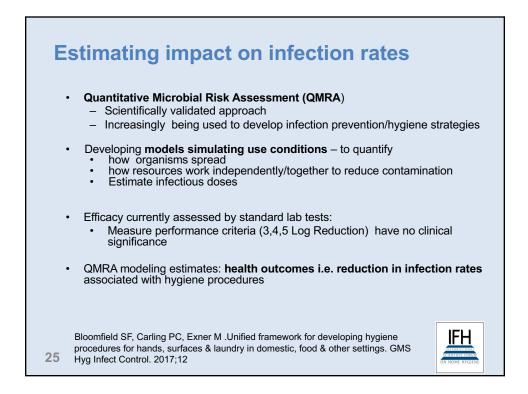


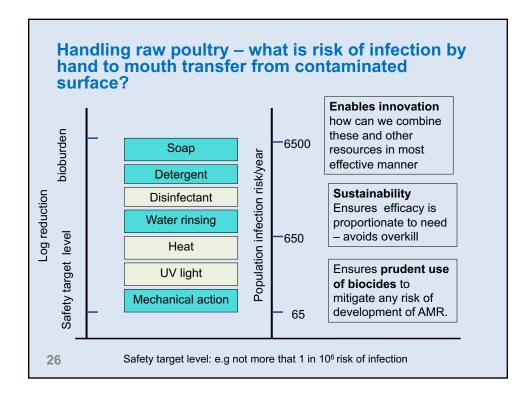
| | Percentage | | | |
|--|---------------------------|--|----------------|--|
| No of participants in each group = 20 | After Meal Preparation | After Cleaning with Soap and Water | After Cleaning | 33% contaminate sites had >1000 |
| Hands, Chopping board, Utensils Dishcloth Sink ,taps, Fridge, door handles etc | 17.3% | 15.3% | 2.3% | cfu/sample area Infectious dose 500cfu |

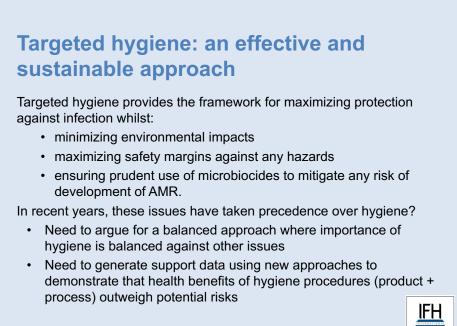






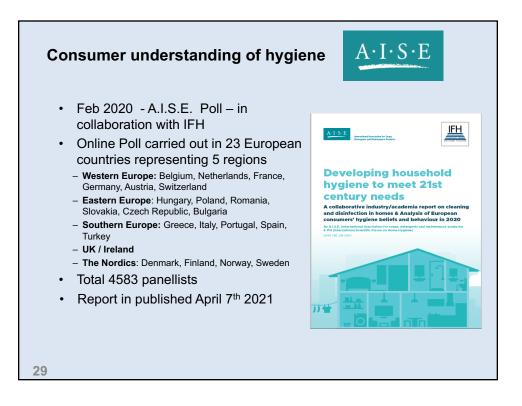


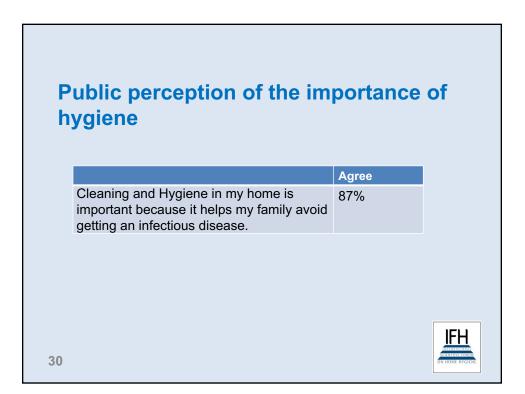


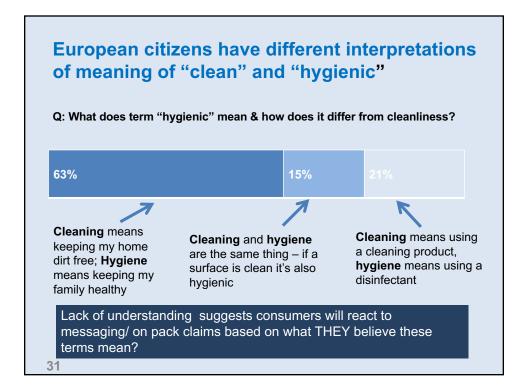


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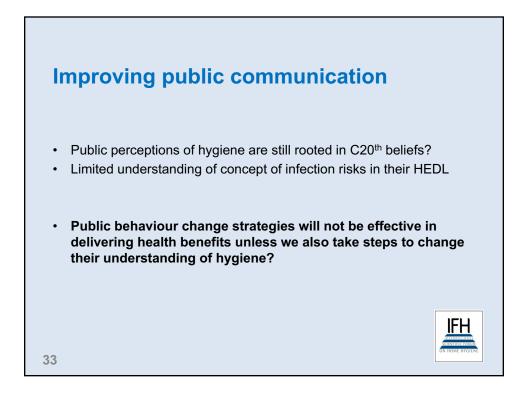




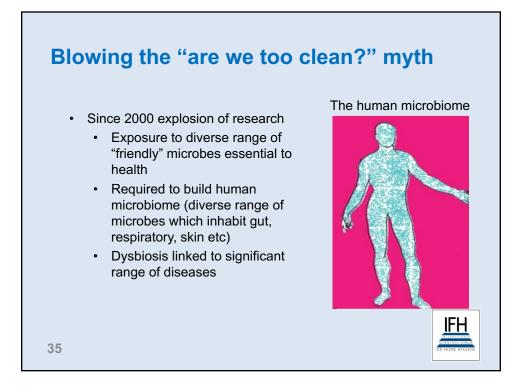


Do people's behaviours correlate with their perception of risk ? (12 questions asked)

| | How often do you do the following ? | Always /Often | High/ medium risk | To what extent do you think the following pose a risk of infection |
|-------------|---|------------------|-------------------------|--|
| | Wash hands after using the toilet | 90% | 89% | Not washing hands after going to the toilet |
| | Wash hands immediately after preparing raw meat | 83% | 86% | Handling raw meat without washing hands afterwards |
| Highest | Wash and dry cleaning cloths after each use | 47% | 65% | Reusing cleaning cloths without washing & drying after each use |
| risk | Wash pet feeding utensils separately from family | 45% | 76% | Washing pet feeding utensils in same bowl as family feeding |
| Some | cups/plates etc Have different hand/bath | 67% | 63% | utensils Sharing hand and bath towels |
| risk Low | towels for family members Use antibacterial to clean | 62% | | with other family members Not using antibacterial to clean |
| risk | kitchen & bathroom floors | | | kitchen & bathroom floors |

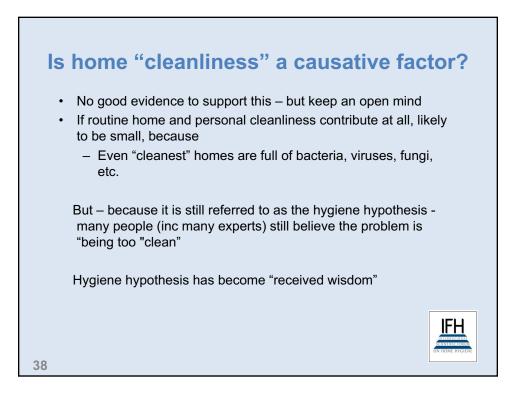






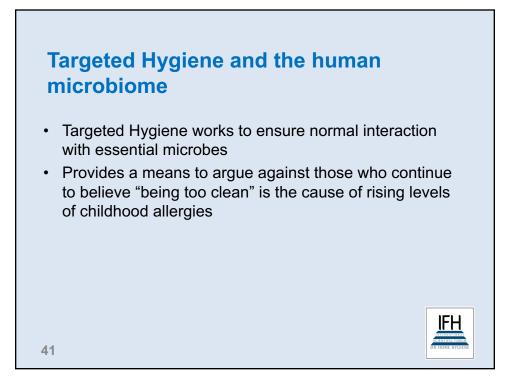
| HypothesisAutoimmune diseases e.gmicrobes from: • other humans,Fewer siblings, less outdoor activity | | | | |
|---|----------|--|--|--|
| natural outdoor feeding, environment, antibiotics, diet Depression | pothesis | Autoimmune diseases e.g MS, IBD Diabetes, Obesity, | microbes from: • other humans, • animals, • natural outdoor | less outdoor activity, C-section & bottle feeding, |

| | Diseases linked to dysbiosis of the microbiome | due to lack of exposure to | Due to |
|-----------------------------------|--|--|--|
| Hygiene hypothesis 1989 | Rapid rise in childhood allergies | Childhood infections | Smaller families, Higher standards of home & personal cleanliness |
| Old Friends Hypothesis 2003 | Allergies, Autoimmune diseases e.g MS Diabetes, IBD, Obesity, Depression | "old friends"microbes from:other humans,animals,natural environment, | Lifestyle changes: Fewer siblings, less outdoor activity, C-section & bottle feeding, antibiotics, diet |
| 37 If it's not in | nfection exposure | we need – it can't t | be hygiene? |



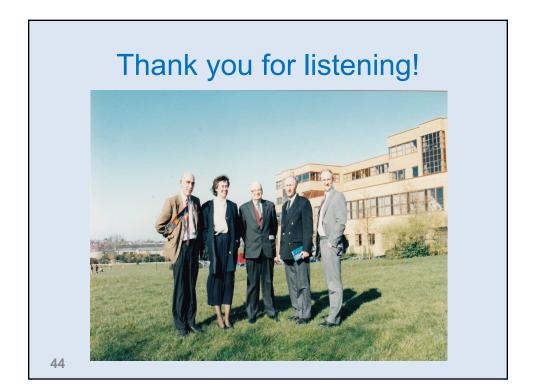
| | SPH public online poll 201 | 8 | |
|-----|---|-----------------|-----|
| - 4 | 2000 people | | |
| w | hich of the following factors do you believ | e is preventing | |
| | Idren coming into contact with enough go | • • | |
| | | | _ |
| | Taking too many antibiotics | 59% | |
| | Spending less time outdoors | 56% | |
| | Keeping our homes too clean | 55% | |
| | Using too many antibacterial cleaners | 52% | |
| | Reduced contact with other children | 49% | |
| | Bottle rather than breast feeding | 22% | |
| | Having lots of baths/ showers | 21% | |
| | Eating processed foods | 18% | |
| | C-section rather than natural childbirth | 9% | |
| | None of the above | 3% | IFH |
| | | | |





| Objectives | Stakeholder groups |
|---|--|
| Targeted Hygiene provides the framework for an effective and sustainable approach to preventing spread of infection in our homes and everyday lives. | Policy makers, health professionals etc |
| Use new approaches to ensure that hygiene procedures are effective and proportionate to needs | Academia + house- holdcare industry, regulators |
| Realising the benefits of Targeted Hygiene depends on getting the public to adopt this approach . | All stakeholders + media + HHC industry |
| To achieve this, hygiene promotion must be accompanied by strategies to improve consumers' hygiene understanding | All stakeholders + media + HHC industry +allergists and microbiomists |





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|---------------|---|
| May 20, 2021 | COMPLACENCY ABOUT DISEASES, ANXIETY ABOUT VACCINES: THE MENINGITIS PERSPECTIVE Speaker: Elizabeth Rodgers, Meningitis Research Foundation, UK |
| May 27, 2021 | EMERGING PATHOGENS - HAVE WE LEARNED ANY LESSONS? Speaker: Prof. Rodney Rohde, Texas State University |
| June 8, 2021 | (European Teleclass) ASSESSING PERSONAL PROTECTION EQUIPMENT Speaker: Linda Kilsdonk-Bode, Amphea Hospital, The Netherlands |
| June 16, 2021 | (FREE South Pacific Teleclass) FROM POLICY TO PRACTICE – IMPLEMENTING GOVERNMENT DIRECTED POLICY & IMPLICATIONS FOR INFECTION CONTROL PRACTICE Speaker: Sally Havers, Queensland University of Technology, Australia |
| June 24, 2021 | CONTINUOUS ACTIVE ANTI-VIRAL COATINGS Speaker: Prof. Charles Gerba, University of Arizona |
| July 15, 2021 | PANDEMIC IMPACT ON HEALTHCARE LAUNDRY IN ACUTE CARE AND LONG TERM CARE FACILITIES Speaker: Dr. Lynne Sehulster, American Reusable Textile Association |
| July 27, 2021 | (FREE European Teleclass) THE CHANGING PERCEPTIONS OF INFECTION PREVENTION AND CONTROL |

