

# **USING EVIDENCE IN HEALTHCARE MANAGEMENT**

**GERMANY  
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# HOPE HOSTS



**Marienhaus GmbH  
Mainz**



**St Elisabeth Gruppe  
Katholische Kliniken Rhein-Ruhr  
Herne**

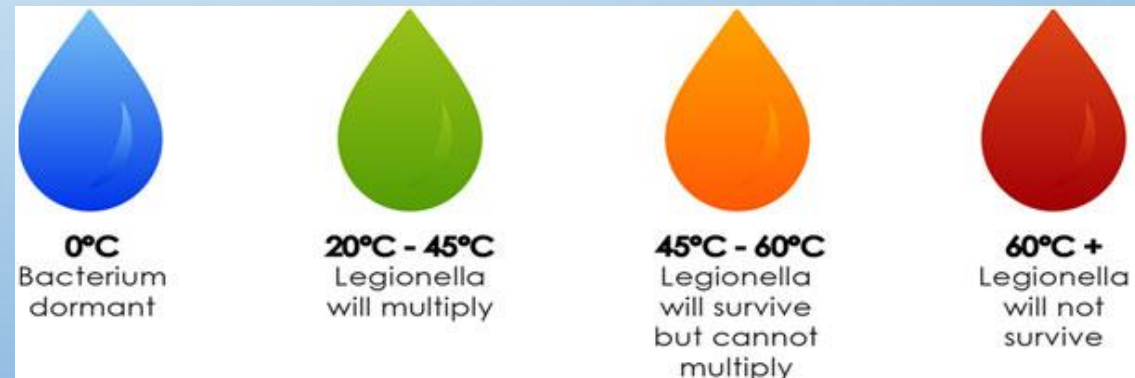
# **THREE EXAMPLES OF EVIDENCE IN HEALTHCARE MANAGEMENT**

1. LEGIONELLA CONTROL IN ST ELISABETH GRUPPE HOSPITAL
2. TREATMENT MODEL AND STRATEGY IN A PSYCHIATRIC HOSPITAL
3. THE HAND-IN-HAND PROJECT IN CARE FOR THE ELDERLY



# 1. PREVENTION OF HOSPITAL BORNE INFECTION – LEGIONELLA CONTROL

- Legionnaire's Disease is an infection of the respiratory system
- Potentially fatal to people who are immunocompromised, elderly, diabetic, respiratory illness
- Susceptibility associated with tobacco use
- Naturally exists in the environment and water sources, propagates in stagnant water
- Air borne water droplets and aerosols
- Particular Problem for Hospitals
- Growing concern of link between Legionella and Global warming



# EUROPEAN CENTRE FOR DISEASE PREVENTION AND CONTROL



## Surveillance Atlas of Infectious Diseases

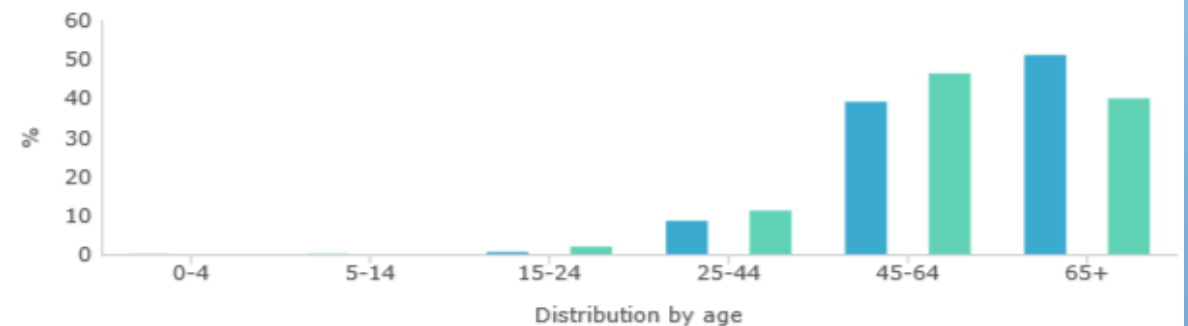
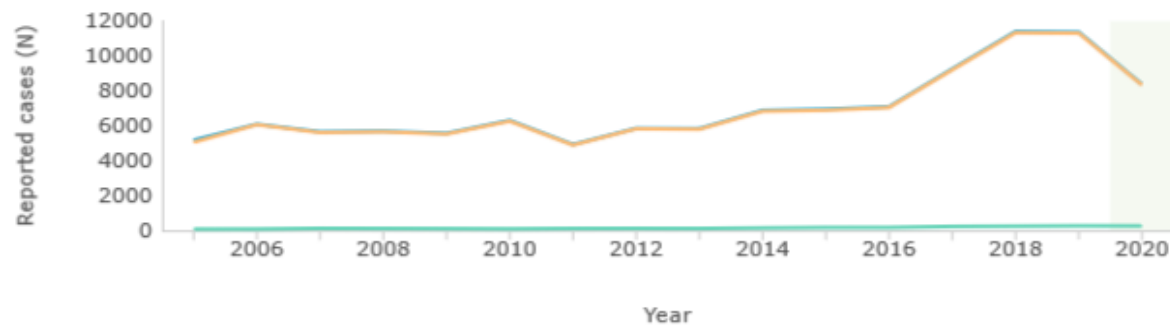
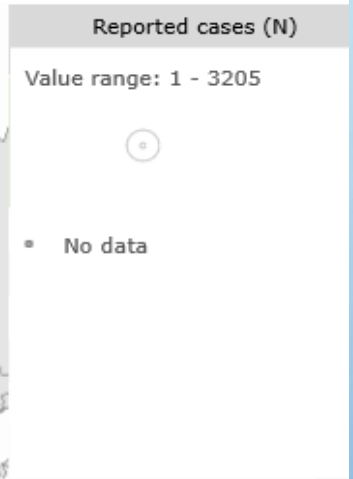
Legionnaires' disease ☐

All cases ☐

Reported cases ☐

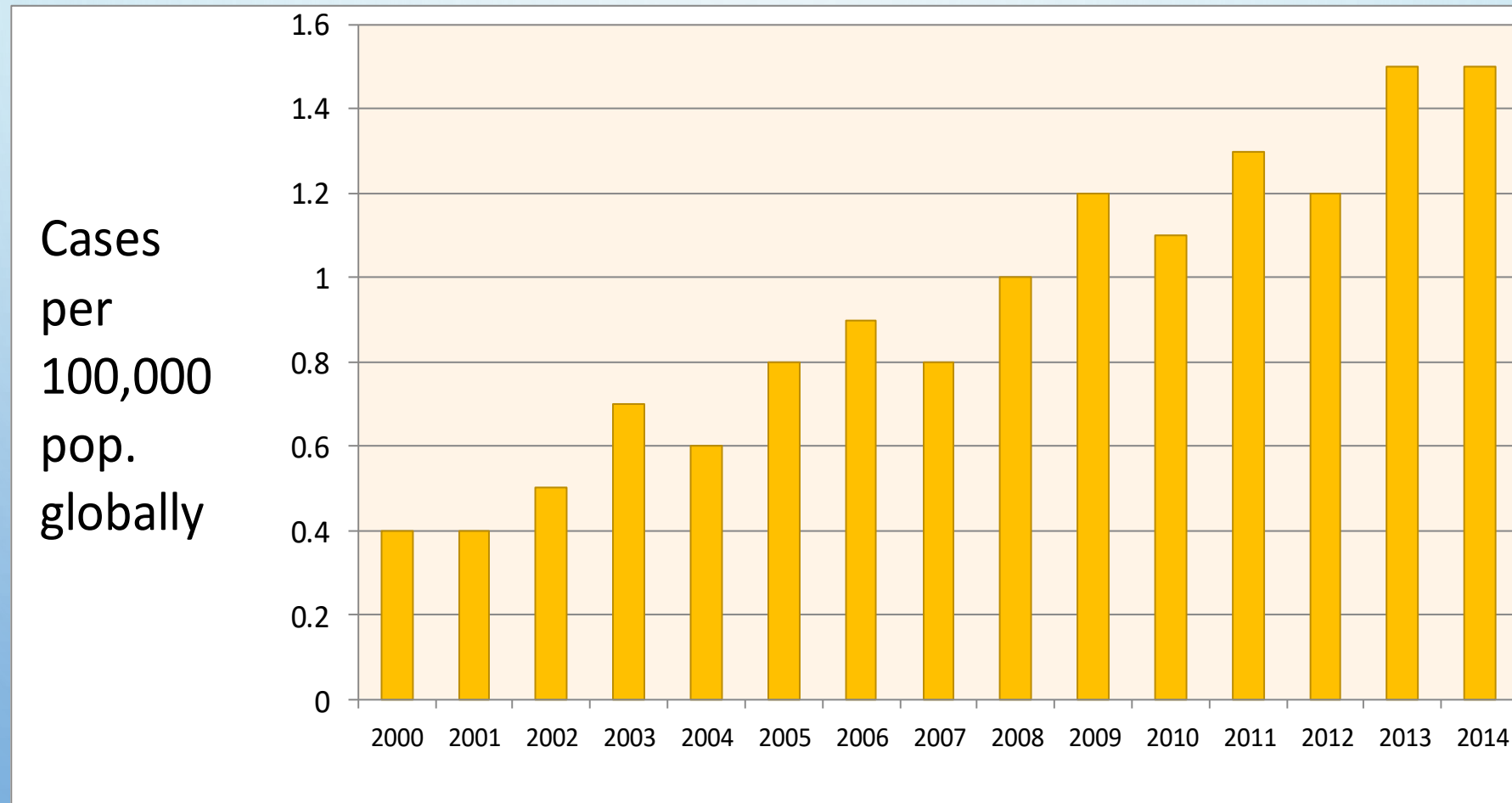
2020 ☐

Region	Reported cases (N)
EU/EEA	8372
EU	8333
Austria	249
Belgium	143
Bulgaria	7
Croatia	.
Cyprus	3
Czechia	231
Denmark	278



EU/EEA EU Austria

# GROWING GLOBAL PROBLEM & A MAJOR THREAT TO HEALTHCARE ORGANISATIONS



# **APPROACH TAKEN BY THE ST ELISABETH GRUPPE HOSPITALS**

TWO STRATEGIES TO REDUCE THE RISK FROM LEGIONELLA;

1. Whole System approach
2. Evidence based approach

St Elisabeth Gruppe have developed a management strategy based upon gathered Evidence of legionella growth



# **GATHERING OF EVIDENCE BY ST ELISABETH GRUPPE**

- Water Temperature monitored every week at sentinel outlets
- Water temperature of system continuously monitored at plant locations by Building Management System
- Water Samples taken from Critical Care Areas monthly and tested for legionella bacteria
- Water samples taken from all areas six monthly and tested for legionella bacteria

# **EVIDENCE BASED MANAGEMENT BY ST ELISABETH GRUPPE**

- Areas are selected for action where legionella bacteria is present in high counts
- Investigation conducted to determine causes of higher levels of legionella
- Corrective action taken based upon results of water sampling and investigation;
  - Local outlets i.e. tap or shower replaced
  - Dead leg of pipework removed
  - Poor circulation corrected by local balancing
- System disaffected and put back into use
- Water samples continued to be taken in areas of high count to monitor improvement
- On-going management of system based upon evidence provided by temperature monitoring and water sample analysis





# **USING EVIDENCE IN HEALTHCARE MANAGEMENT TREATMENT AT THE PSYCHIATRIC HOSPITAL**

Specialized clinic for psychiatry, psychotherapy and psychosomatics at the St. Elisabeth Hospital Group

Katholische Kliniken Rhein-Ruhr:

- 158 beds – 7 wards
- 312 employees
- Dayclinic with 53 patients
- Night clinic

Patients with depression, personality disorders, anxiety, psychosis, addiction, double diagnosis.

Each year:

>3700 inpatient and partial inpatient cases

5600 outpatient cases

# Using Evidence in Healthcare Management

## Strategic triad of the St. Elisabeth Hospital Group

In order to enhance the quality of our results, we are continually improving our process and structural qualities and fostering innovations through science and research

Therefore we improve

- our employees' expertise
- equipment
- risk management
- spatial opportunities for our patients

QUALITY

PROFITABILITY

We aim to permanently increase our earning power.  
This is not an end in itself!

Profitability

- guarantees the sustainability of the company
- Saves jobs for the long term
- allows reinvestments in better quality results

STAFF LOYALTY

Our employees are supposed to represent our  
St. Elisabeth Group as top performers!

Therefore we strive for

- providing a successful company to our employees
- enhancing the attractiveness of our workplaces to enable meaningful working
- paying attractive, success-oriented wages

# USING EVIDENCE IN HEALTHCARE MANAGEMENT STRATEGY OF THE HOSPITAL GROUP

How to provide quality in treatment within the psychiatric hospital?

The hospital provide medical treatment and milieu therapy including a cognitive behavioral treatment model – all empirically validated methods

Decisions on a management level to support the treatment model

- Management decisions – employment of staff
- Strategy for staff-education
- Staff retention through education/training

The scientific evidence and knowledge base for the model is provided through a thorough description of the treatment concept:

eg: *'Konzept der Medizinischen Rehabilitationseinrichtung für psychische Gesundheit Herne'*

By C. Bombosch, J. Kiewitt, P.W. Nyhuis (2021).

eg: Linehan (1993): *cognitive behavioral treatment of borderline personality disorder*. Guilford Publications

Bering (2008): *Traning emotionaler kompetnezen*. Springer Verlag



# **Using Evidence in Healthcare Management**

## **Collecting Evidence is an Ongoing Process**

Continuous Feedback is Incorporated in the Treatment Model:

### **Some examples of feedback**

- The patient evaluate symptoms on a regular basis through acknowledged questionnaires
- Psychoeducation of the patients – with active participation and feedback
- Close cooperation to secure common intervention and aims
- Intensive treatment – with imbedded feedback
- Treatment plan – revised continuously
- Individual follow up after 1 year

**Continuously changing intervention according to the feedback from patient and staff**



# **„HANDINHAND“ PROJECT IN CARE FOR THE ELDERLY**

INNOVATION FUNDS FEDERAL JOINT COMMITTEE  
(FÖRDERKENNZEICHEN 01NVF17047)

PROJECT MARIENHAUS GMBH



# **„HANDINHAND“ PROJECT IN CARE FOR THE ELDERLY**

## **Idea of the project**

Support of general practitioners in their duty of home visit

Support by advanced nursing practitioners of elderly chronic ill patients

## **Design parameters**

- Training of nurses as advanced nurse practitioners (8)
- Skills training
- 46 GPs recruited – Kreis Ahrweiler (Rheinland Pfalz)
- 700 patients included
- Patient documentation software
- Office for the administration
- Cars for home visits

# THE EVIDENCE FOR THE PROJECT

## AGING OF POPULATION

Population in Germany from 1950 to 2060

[HTTPS://SERVICE.DESTATIS.DE/BEVOELKERUNGSPYRAMIDE/#!L=EN](https://service.destatis.de/bevoelkerungspyramide/#!L=EN)

## LACK OF GPS ESPECIALLY IN RURAL AREAS

Study by the Robert Bosch Stiftung: in 2035 :11.000 GPs missing, 40 % of the administrative districts undersupplied

## GPS ARE BOUND BY CONTRACT TO DO HOME VISITS

National association of statutory health insurance physicians

# **„HANDINHAND“ PROJECT IN CARE FOR THE ELDERLY**

## **Objectives**

- Example for integrated health care in primary care (overlapping sectors)
- Use of advanced nurse practitioners in the german context

## **Evaluation of evidence**

- Satisfaction of patients, family members and GPs
- Reduction of number of consultations
- Reduction of admission to hospital

**Final report available in 2023**



# **„HANDINHAND“ PROJECT IN CARE FOR THE ELDERLY**

## **Take Home Message**

We need a sound integrated primary care concept to cope with

- The demographic change
- The lack of human resources in health care
- The financial limitations
- The progress in information technology (AI etc)
- The changes in working environment/conditions

**HOPE  
GERMANY 2022**

**DANKE SCHÖN**

**TAK**

**THANK YOU**

# **HERNE GERMANY 2022**



# **„HANDINHAND“ PROJECT IN CARE FOR THE ELDERLY**

## LINKS

[PFLEGEEXPERTEN-CENTER: PROJEKTVORSTELLUNG](#)

[STARTSEITE - G-BA INNOVATIONSFONDS](#)

[DAS REVIVAL DER GEMEINDESCHWESTER: KEHRT SCHWESTER AGNES ZURÜCK? | MDR.DE](#)

[LEBENSERWARTUNG VON MÄNNERN UND FRAUEN IN DEUTSCHLAND - STATISTISCHES BUNDESAMT \(DESTATIS.DE\)](#)

[KBV - THE NATIONAL ASSOCIATION OF STATUTORY HEALTH INSURANCE PHYSICIANS AND THE REGIONAL ASSOCIATIONS OF STATUTORY HEALTH INSURANCE PHYSICIANS](#)