Antimicrobial Resistance (AMR) Integrative approach in Anthroposophic Medicine and Anthroposophic Hospitals

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Anthroposophic Medicine (AM)

- Widely used CAM system in Europe
- More than 1500 natural medicines on the market
- Practised in > 60 countries worldwide
- 28 hospitals in 8 countries
- Chairs of anthroposophic medicine at Universities
- Lectures on AM part of University teaching
 - Several research institutes for AM

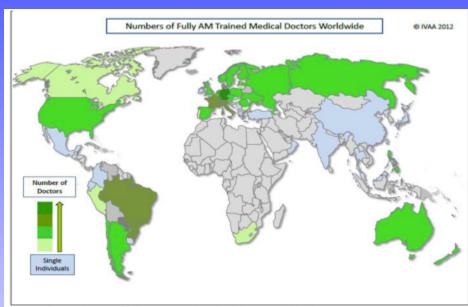


Figure 3b: Distribution of fully AM trained medical doctors worldwide







Overview

- I. Introduction: Antimicrobial resistance in Hospitals Anthroposophic Hospitals
- II. AM therapy for respiratory tract infections (RTI) and pneumonia:
 Evidence from studies
 Clinical experience
- III. Infection control in AM hospitals
- IV. Conclusion and Call for Action

AMR in Hospitals

- AMR derived in outpatients / animals (due to extensive use of antibiotics) become dangerous in hospitals (patients with multimorbidity and immunosuppression, lifethreatening infections)
- ➤ Aggressive antibiotic regimens in hospitals → Increase of AMR
- ➤ Low threshold for antibiotic use in hospitals → Increase of AMR
- ➤ MRB colonisation in hospitals → increasing number of hospital acquired infections with AMR
- > Sepsis: 3rd frequent cause of death in hospitals

Anthroposophic Hospitals: Pioneers of Integrative Medicine

15 AM Hospitals or AM departments in public hospitals in D + CH

- ♦ Size: 70 500 inpatients
- Specialised medical departments
- ♦ Acute >> chronic diseases
- Conventional and AM therapies (medicines and non-medical)
- Attached to universities / medical schools, Postgraduate medical training
- Fully integrated into Healthcare System



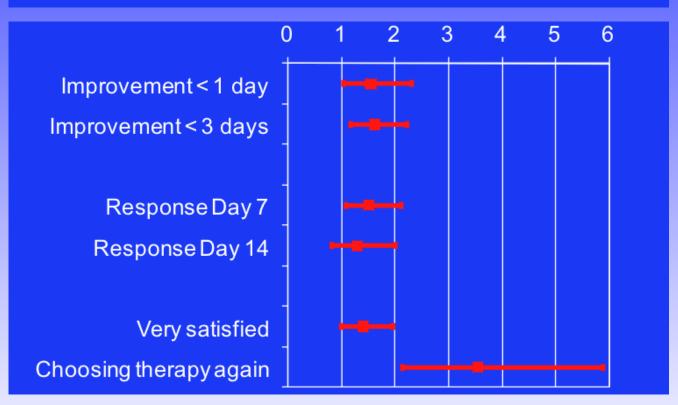
IIPCOS Study

International Integrative Primary Care Outcomes Study

- ♦ Acute respiratory and ear infections
- 1016 primary care patients from AT, DE, NL, UK, US treated under routine practice conditions
- ♦ Design: Prospective comparative 4 week observational cohort study
- ♦ Comparison: Anthroposophic or conventional physicians

Haidvogl M, BMC Complementary and Alternative Medicine 2007 Hamre H, Wien Klin Wochenschr 2005

IIPCOS: Clinical outcomes Adjusted for country, age, gender, baseline severity

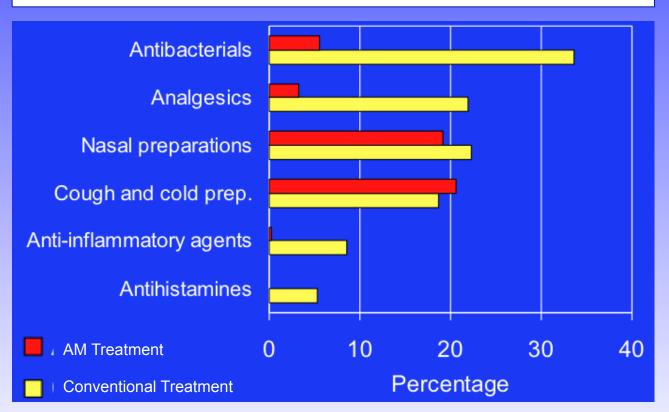


Odds ratio > 1 indicates more favorable outcome in Anthroposophy Group

Thomas Breitkreuz, CAM Interest Group, European Parliament, Bruxelles 1 April 2014

IIPCOS Study

International Integrative Primary Care Outcomes Study





Research Article

Inpatient Treatment of Community-Acquired Pneumonias with Integrative Medicine Evidence-Based Complementary and Alternative Medicine

Evidence-Based Complementary and Alternative Medicine Volume 2013, Article ID 578274, 16 pages http://dx.doi.org/10.1155/2013/578274

Ulrich Geyer, ¹ Klas Diederich, ^{1,2} Maria Kusserow, ¹ Andreas Laubersheimer, ¹ and Klaus Kramer³

Risk Group	Mortality (CON)
I	0,5%
II	0,9%
III	1,2%
IV	9,0%
V	27,1%

Pneumonia Severity Index: Class	- 1	Ш	Ш	IV	V	Total
Treatment with AM only	3	7	5		1	16
Treatment with AM+ Antibiotics				2		2

- ➤ 16/18 consecutive CAP patients treated with AM only
- Only 2 patients risk group IV needed additional antibiotics
- All patients recovered well

Larger statistics for community acquired pneumonia (official quality management data):

Use of antibotics: 53,8% AM-hospital 88,3% CON-Hospitals

In-hospital Mortality: 9,4% AM-hospital 14,3% CON-Hospitals

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AM Treatment of Pneumonia

Medicines:

- Pneumodoron I / II p.o.
- Argentum met. praep. D30 s.c.
- Ferrum met. praep. D10 s.c.
- Formica D8 s.c.
- Aconit D20 s.c.
- Echinacea D1 / Petasites D3

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Compresses:

- Ginger lung compresses
- Millfoil lung compresses
- Wild mustard lung compresses
- Lemon leg compresses





Pneumonia: Algorithm for choice of treatment

Integrative Approach: Balanced decision making

AM Therapy only

- Pneumonia PSI Class I-III
- Patient < 65
- No immunosuppression
- No comorbidity
- No signs of sepsis
- Re-evaluate 5 x / day



- ♦ Doctor's experience
- ♦ Patient's choice

AM Therapy + antibiotics

- Pneumonia PSI Class > III
- Patient > 65
- Immunosuppression
- Comorbidities
- Signs of sepsis
 - →Start sepsis protocol!
 - →Antibiotic within 30 min

Risk factor management Reduction of antibiotic treatment in AM hospitals

Risk factors for pneumonia

- Previous antibiotic exposure
- Immobilization
- Sedative medicines / hypnotics
- Chronic lung diseases (steroids, antibiotics)

AM treatment concept

- → AM therapies instead of antibiotics
- → Active movement therapy, Nursing
- → AM medicines with less ADR
- → AM therapy

Diseases	AM (hospital) without antibiotics
Asthma, COPD with acute infection Urinary tract infections (UTI) Respiratory tract infections (RTI) Pneumonia	70 % 70 % 95 % 45 %



Infection Control in AM Hospitals

Example: Paracelsus-Krankenhaus, Bad Liebenzell

2000 inpatients p.a.

60% from CAM Doctors (GPs) / 40% Oncology / 10% Palliative Care Patients
External Surveillance by Department of Environmental Health Sciences, University of Freiburg, 2013







Multi-Resistant Bacteria	PKH	German Hospitals, Average
MRSA MRSA hospital acquired/1000 pt days	19 % 0	21,3 % 0,16
VRE Pseudomonas, Imipenem-res. 3 and 4 - MRGN E. coli (ESBL)	0,4 % 7,7 % 1,2 %	12,6 % 16,8 % 10,4 %

Conclusion

- ✓ Proof of evidence: (C)AM reduces AMR in an Integrative Approach
- √ (C)AM integrative treatment of banal infectious diseases in Primary Care is safe and effective
- √ (C)AM integrative treatment of severe infectious diseases in Hospitals is safe and effective
- √ (C)AM reduces AMR in Primary Care
- √ (C)AM reduces AMR in Hospital acquired infections
- √ (C)AM helps that antibiotics will continue to save lifes

Call for Action

Proposal: Integrative approach towards AMR

I. Research (Horizon 2020):

- → Identification and proof of best CAM therapies to address AMR
- → Focus on relevant diseases:
 - AOM (acute otitis media)
 - RTI (acute respiratory tract infections)
 - UTI (urinary tract infections)
- → Translational research: modules for implementation in general healthcare

II. Training for healthcare professionals:

- → Internet-based training modules
- → Specific bundles for medical doctors, practitioners, nurses, pharmacists

III. Patient information and education:

→ Internet-based platform for patient information

IV. First of all: Appropriate EU legislation / regulation for CAM medicines

→ Anthroposophic Medicine, Homeopathy, Herbals...





Hufelandgesellschaft e.V.

Dachverband der Ärztegesellschaften für Naturheilkunde und Komplementärmedizin

Representing > 20.000 active members in Germany; CAM-Doctors total number = approx. 40.000













→ ... use CAM doctor's expertise...!