



Work Package 7

List of revised guidelines, tools and implementation methods for antibiotic stewardship

LEVEL OF CARE
Hospital Care

Antibiotic Stewardship Programmes (ASPs)

Role of antimicrobial stewardship programmes in children: a systematic review.

Publishing year

2018

Author(s)

Araujo da Silva AR, Albernaz de Almeida Dias DC, Marques AF, Biscaia di Biase C, Murni IK,

Dramowski A, Sharland M, Huebner J, Zingg W.

Type of document

Antibiotic Stewardship Programme (ASP)

Scope/aim

International relevance

Country/region

International

Setting(s)

Hospital care

Short summary

The United Nations and the World Health Organization have designated antimicrobial resistance (AMR) as a major health priority and developed action plans to reduce AMR in all healthcare settings. Establishment of institutional antimicrobial stewardship programmes (ASPs) is advocated as a key intervention to reduce antibiotic consumption in hospitals and address high rates of multi-drug-resistant (MDR) bacteria. PUBMED and the Cochrane Database of Systematic Reviews (January 2007-March 2017) were searched to identify studies reporting the effectiveness of ASPs in general paediatric wards and paediatric intensive care units (PICUs) for reducing antibiotic consumption, use of broad-spectrum/restricted antibiotics, and antibiotic resistance and healthcare-associated infections (HAIs). Neonatal units and antifungal agents were excluded.

Download

Antimicrobial Stewardship in Australian Health Care

Publishing year 2018

Author(s) Australian Commission on Safety and Quality in Health Care

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Australia
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary

Book on antimicrobial stewardship in Australian health care with a summary of the current evidence on antimicrobial stewardship, strategies for implementing and sustaining

antimicrobial stewardship programmes, and a description of the roles of different clinicians.

Download

Antimicrobial stewardship: From principles to practice

Publishing year 2018

Author(s) British Society for Antimicrobial Chemotherapy

Scope/aim International relevance

Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Practical e-book on global antimicrobial stewardship with (among other chapters) key steps in

the development of antimicrobial stewardship programmes, a toolkit and practical

recommendations and examples for different settings.

Download

Mitigate Antimicrobial Stewardship Toolkit - A guide for practical implementation in adult and pediatric emergency department and urgent care settings

Publishing year 2018

Author(s) The Society for Healthcare Epidemiology of America (SHEA)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary From source: This guide outlines how facilities can implement individualized, effective, and

practical antimicrobial stewardship programs in acute care (emergency department and

urgent care) settings.

Download

EU Guidelines for the prudent use of antimicrobials in human health

Publishing year 2017

Author(s) European Commission

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Non-binding guidelines to promote the prudent use of antimicrobials in humans. It includes

measures, good clinical practice, activities, resources, systems and processes targeting to all

actors involved in the use of antimicrobials.

Antibiotic stewardship: A programmatic approach to improved antimicrobial management

Publishing year 2017

Author(s) Müller M, Lehmann P, Willy C.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Germany
Setting(s) Hospital care

Short summary Objectives of this set of measures are the optimization of the individual treatment outcome

and on a longer range the improvement of the epidemiological situation. AMS programs include all clinical disciplines that use antimicrobials. Trauma surgery is also affected in a special way as soon as complicated infections and those with multidrug-resistant bacteria are

treated.

Download

Building a national Infection Intelligence Platform to improve antimicrobial stewardship and drive better patient outcomes: the Scottish experience. (J Antimicrob Chemother)

Publishing year 2017

Author(s) Bennie et al.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Scotland
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary A summary of the experience with and the capabilities of a new national platform for

infection-related health data (NHS Scotland Infection Intelligence Platform - IIP) to improve

antimicrobial stewardship and drive better patient outcomes.

Download

Guidelines on Implementation of the Antimicrobial Strategy in South Africa: One Health Approach & Governance

Publishing year 2017

Author(s) Department of Health, South Africa

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region South-Africa
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary From source: These guidelines are intended to act as a blueprint for the steps to be taken by

South African healthcare and veterinary workforce to enact AMS at national, provincial, district and health establishment levels as appropriate, in line with the Strategic Framework and Implementation Plan. It aims to provide a practical, step-by-step or 'how to' guide,

addressing the governance framework at each level of the health system.

Antimicrobial stewardship overview. NICE Pathways

Publishing year 2017

Author(s) National Institute for Health and Care Excellence (NICE)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Interactive topic-based flowcharts that allow navigating NICE recommendations on

Antimicrobial stewardship.

Download

Antibiotic Stewardship Implementation Framework for Health Departments

Publishing year 2017

Author(s) Centers for Disease Control and prevention

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary This framework describes what activities state and local health departments can do to

implement antibiotic stewardship: 1) Establish leadership in health departments, 2) Conduct surveillance, 3) Coordinate activities, 4) Provide and develop education and tools, 5) Develop

a communications plan, 6) Inform the legislative process.

Download

The Core Elements of Hospital Antibiotic Stewardship Programs CHECKLIST

Publishing year 2017

Author(s) Centers for Disease Control and prevention

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary This checklist is a companion to Core Elements of Hospital Antibiotic Stewardship Programs. A

tool to systematically assess key elements and actions to ensure optimal antibiotic prescribing

and limit overuse and misuse of antibiotics in hospitals.

Download

SWAB Guidelines for Antimicrobial Stewardship

Publishing year 2016

Author(s) The Dutch Working Party on Antibiotic Policy (SWAB)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Netherlands
Setting(s) Hospital care

Short summary The aim of this SWAB guideline is to summarize, for the hospital setting, the current state of

evidence of the effects of the various antimicrobial stewardship objectives in adults and of the effects of various stewardship improvement strategies. Effectiveness is assessed on patient outcomes (e.g., mortality, length of stay), adverse events, costs and bacterial

resistance.

Download

Antimicrobial stewardship programs in the critical care setting

Publishing year 2016

Author(s) Ruiz-Ramos J. et al.

Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Short summary Antimicrobial stewardship programs in the critical care setting

Download

Programa de optimización del uso de antimicrobianos (PROA). Experiencia en un

hospital secundario.

Publishing year 2016

Author(s) Ugalde-Espiñeira J. et al.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Locally developed

Country/region Spain

Setting(s) Hospital care

setting(s) nospital care

Download

Antimicrobial stewardship: Quality Standard

Publishing year 2016

Author(s) The National Institute for Health and Care Excellence (NICE)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim International relevance

Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary From source: This quality standard covers the effective use of antimicrobials to reduce the

emergence of AMR (loss of effectiveness of antimicrobials). It covers all settings, all formulations of antimicrobials (oral, parenteral and topical agents) and is for health and social care practitioners, organisations that commission, who provide or support the provision

of care, as well as people using antimicrobials and their carers.

Antimicrobial stewardship: systems and processes for effective antimicrobial

medicine use. Recommendations

Publishing year 2016

Author(s) National Institute for Health and Care Excellence (NICE)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Recommendations for organisations (commissioners and providers): Antimicrobial stewardship

programmes

Download

Antimicrobial stewardship: tools and resources

Publishing year 2016

Author(s) National Instutute for Health and Care Excellence (NICE)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Tools to help you put the guidance into practice: Implementation advice; Tailored service

improvement support; Guidance into practice - practical steps

Download

Implementing an Antibiotic Stewardship Program: Guidelines by the Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America (Clinical Infectious Diseases)

Publishing year 2016

Author(s) Barlam et al. (IDSA)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Long-term facility care

Short summary Evidence-based guidelines (2016) for implementation and measurement of antibiotic

stewardship interventions in inpatient populations including long-term care.

New Antimicrobial Stewardship Standard

Publishing year 2016

Author(s) Joint Commission Perspectives (US)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Long-term facility care

Short summary The antimicrobial stewardship standard developed by the Joint Commission in 2015 is

updated. It concerns 1) Hospitals and Critical Access Hospitals and 2) Nursing Care Centers.

Key elements are leadership, education, monitoring.

Download

A Path to Better Antibiotic Stewardship in Inpatient Settings

Publishing year 2016

Author(s) The Pew Charitable Trusts

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Long-term facility care

Short summary 10 in-depth case studies map how to improve antibiotic use in acute and long-term care

facilities. Though ASPs differ in their details, these case studies reveal themes that are

critical to any successful program implementation.

Download

National Quality Partners Playbook: Antibiotic Stewardship in Acute Care

Publishing year 2016

Author(s) Quality Forum/Centers for Disease Control and prevention

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary A practical guide with concrete strategies and suggestions for the implementation of

successful antibiotic stewardship programs in acute-care hospitals. For each CDC Core Element, the guide includes a brief rationale and overview, examples for implementation,

potential barriers and suggested solutions, and suggested tools and resources.

Download

The Core Elements of Outpatient Antibiotic Stewardship

Publishing year 2016

Author(s) Centers for Disease Control and prevention

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Community/primary care

Short summary Summary on the core elements of successful outpatient antibiotic stewardship programs,

taking into account commitment, action for policy and practice, tracking and reporting, and

education and expertise.

Download

Start Smart - Then Focus Antimicrobial Stewardship Toolkit for English Hospitals

Publishing year 2015

Author(s) Public Health England

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Short summary A toolkit that provides an outline of evidence-based antimicrobial stewardship in the

secondary healthcare setting. Contains guidelines and advice to assist in patient safety, enhancing stewardship in antibiotic usage, and ensuring optimal patient care and safety by

reducing inappropriate prescribing.

Download

Antimicrobial Stewardship Criterion - Frequently asked questions

Publishing year 2014

Author(s) Australian Commission on Safety and Quality in Health Care

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Australia
Setting(s) Hospital care

Short summary Answers to frequently asked questions about antimicrobial stewardship programs and the

implementation of such programs.

Download

Implementation of a multidisciplinary infectious diseases team in a tertiary hospital within an Antimicrobial Stewardship Program

Publishing year 2014

Author(s) F. M. Buyle, M. Wallaert, N. Beck, J. Boelens, S. Callens, G. Claeys, S. Deryckere, E.

Haegeman, I. Leroux-Roels, E. Sermijn, E. Steel, H. Robays, L. Vandekerckhove, K. Vermis, D.

Vogelaers

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Locally developed

Country/region Belgium
Setting(s) Hospital care

Short summary Prospective, observational study after implementation of a multidisciplinary infectious

diseases team consisting of infectious diseases physicians, clinical microbiologists, and clinical

pharmacists in a tertiary hospital within an Antimicrobial Stewardship Program

Protocol on Antimicrobial Stewardship Program in Healthcare Facilities

Publishing year 2014

Author(s) Ministry of Health Malaysia

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim International relevance

Country/region Malaysia
Setting(s) Hospital care

Community/primary care

Short summary This protocol serves as a practical guide for all health care professionals in delivering an

appropriate antimicrobial management through a systematic approach. Describes the

structure, function and activities of an antimicrobial stewardship program.

Download

A cross-sectional survey of antimicrobial stewardship strategies in UK hospitals

Publishing year 2014

Author(s) A. P. Tonna, S, I. M. Gould and D. Stewart Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Short summary The objective of this study was to describe the profile and activities of AMTs within hospitals

in the United Kingdom (UK).

Download

Core Elements of Hospital Antibiotic Stewardship Programs

Publishing year 2014

Author(s) Centers for Disease Control and prevention

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary Summary on the core elements of successful hospital antibiotic stewardship programs, taking

into account leadership commitment, accountability, drug expertise, actions, tracking,

reporting and education.

Download

Practical Guide to Antimicrobial Stewardship in Hospitals

Publishing year 2013

Author(s) bioMérieux S.A. (Scotland)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Scotland
Setting(s) Hospital care

Short summary Booklet with practical recommendations for healthcare workers in hospitals on why and how

Initiatives and resources to promote antimicrobial stewardship

Publishing year 2013

Author(s) Paño-Pardo J.R. et al.

Scope/aim Nation-wide
Country/region Spain

Setting(s) Hospital care

Short summary Potentially information useful for professionals responsible for the design and implementation

of antimicrobial stewardship programs

Download

Antimicrobial stewardship: English Surveillance Programme for Antimicrobial Utilization and Resistance (ESPAUR).

Publishing year 2013

Author(s) Ashiru-Oredope D1, Hopkins S; English Surveillance Programme for Antimicrobial Utilization

and Resistance Oversight Group.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care

Short summary The programme will bring together the elements of antimicrobial utilization and resistance

surveillance in both primary and secondary care settings, alongside the development of quality measures and methods to monitor unintended outcomes of antimicrobial stewardship and both public and professional behaviour interventions. This article reports on the

background to the programme development, the current oversight group membership and the

public reporting structure.

Download

Improving the quality of antibiotic prescribing in the NHS by developing a new Antimicrobial Stewardship Programme: Start Smart—Then Focus (J Antimicrob Chemother)

Publishing year 2012

Author(s) Ashiru-Oredope et al.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care

Short summary Description of the current activities in England to support antimicrobial stewardship, national

audits and the introduction of new national antimicrobial stewardship programmes in primary

and secondary care (Start Smart - Then Focus).

Antimicrobial Stewardship in Australian Hospitals

Publishing year 2011

Author(s) Australian Commission on Safety and Quality in Health Care

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Australia
Setting(s) Hospital care

Short summary From source: The publication provides guidance on developing and introducing a hospital

antimicrobial stewardship program. It describes the structure, governance and resources needed for an effective program, along with those strategies shown to influence antimicrobial

prescribing and reduce inappropriate use.

Download

Programas de optimización de uso de antimicrobianos (PROA) en hospitales

españoles: documento de consenso GEIH-SEIMC, SEFH y SEMPSPH

Publishing year 2011

Author(s) Rodríguez-Baño J. et al

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Short summary Consensus document - Program of adequate use of antimicrobials in hospitals in Spain

Download

Scottish Antimicrobial Prescribing Group (SAPG): development and impact of the

Scottish National Antimicrobial Stewardship Programme.

Publishing year 2011

Author(s) Nathwani D, Sneddon J, Malcolm W, Wiuff C, Patton A, Hurding S, Eastaway A, Seaton RA,

Watson E, Gillies E, Davey P, Bennie M; Scottish Antimicrobial Prescribing Group.

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Region-wide
Country/region United Kingdom
Setting(s) Hospital care

Short summary The primary objective of SAPG is to co-ordinate and deliver a national framework or

programme of work for antimicrobial stewardship. This programme, led by SAPG, is delivered by NHS National Services Scotland (Health Protection Scotland and Information Services Division), NHS Quality Improvement Scotland, and NHS National Education Scotland as well as NHS board Antimicrobial Management Teams.. The early successes achieved by SAPG demonstrate that this delivery model is effective and provides the leadership and focus required to implement antimicrobial stewardship to improve antimicrobial prescribing and

infection management across NHS Scotland.

Guidelines for Antimicrobial Stewardship in Hospitals in Ireland

Publishing year 2009

Author(s) Strategy for the Control of Antimicrobial Resistance in Ireland (SARI) - Hospital Antimicrobial

Stewardship Working Group

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Nation-wide
Country/region Ireland
Setting(s) Hospital care

Long-term facility care

Short summary Provides the following guidelines: 1. Rationale for antimicrobial stewardship in hospitals; 2.

Resources and structures that need to be in place to develop stewardship programmes; 3.

Specific guidance on stewardship interventions.

Download

Achievements of the Belgian Antibiotic Policy Coordination Committee (BAPCOC)

Publishing year 2008

Author(s) Goossens H, Coenen S, Costers M, De Corte S, De Sutter A, Gordts B, Laurier L, Struelens M J

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim Locally developed

Country/region Belgium
Setting(s) Hospital care

Community/primary care

Short summary Achievements of BAPCOP until 2008: objectives, activities, and campaigns

Download

Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America Guidelines for Developing an Institutional Program to

Enhance Antimicrobial Stewardship (Clinical Infectious Diseases)

Publishing year 2007

Author(s) Dellit et al. (IDSA)

Type of document Antibiotic Stewardship Programme (ASP)

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary Guidelines (2007) for developing institutional programs to enhance hospital antimicrobial

stewardship. Each recommendation is rated on the basis of the strength of the

recommendation and the quality of evidence supporting it.

Commentaries, Statements and Opinions

Antimicrobial resistance and antibiotic stewardship programs in the ICU: insistence and persistence in the fight against resistance. A position statement from ESICM/ESCAND WAAAR round table on multi-drug resistance.

from ESICM/ESCMID/WAAAR round table on multi-drug resistance.

Publishing year 2018

Author(s) De Waele JJ, Akova M, Antonelli M, Canton R, Carlet J, De Backer D, et. All

Type of document Commentary/Statement/Opinion

Scope/aim Nation-wide
Country/region Belgium
Setting(s) Hospital care

Short summary Recommendations from the ESICM/ESCMID MDR round table panel. Conference Reports and

Expert Panel

Download

Antimicrobial stewardship and infection prevention—leveraging the synergy: A position paper update (American Journal of Infection Control)

Publishing year 2018

Author(s) Manning et al.

Type of document Commentary/Statement/Opinion

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Update of the position paper of APIC (The Association for Professionals in Infection Control

and Epidemiology)/SHEA (The Society for Healthcare Epidemiology of America) (Moody et al. 2012, ID43) on the importance of antimicrobial stewardship. The critical role of infection preventionists and health care epidemiologists is reaffirmed and the synergistic strategy of infection prevention and control and antimicrobial stewardship programmes is highlighted.

Download

Metrics of Antimicrobial Stewardship Programs

Publishing year 2018

Author(s) Brotherton AL.

Type of document Commentary/Statement/Opinion

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Community/primary care

Short summary This article reviews the various antimicrobial stewardship metrics that have been described in

the literature, evidence to support these metrics, controversies surrounding metrics, and

areas in which future research is necessary.

Infectious Diseases Physicians: Leading the Way in Antimicrobial Stewardship (Clinical Infectious Diseases)

Publishing year 2018

Author(s) Ostrowsky et al. (Infectious Diseases Society of America, Pediatric Infectious Diseases Society,

and the Society for Healthcare Epidemiology of America)

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary White paper on the leading role of infectious diseases physicians in antimicrobial stewardship.

Download

Role of Technology in Antimicrobial Stewardship.

Publishing year 2018

Author(s) Bremmer DN, Trienski TL, Walsh TL, Moffa MA.

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary Because of the increasing plague of antimicrobial resistance and antibiotic misuse,

antimicrobial stewardship programs (ASPs) are now a mandatory entity in all US hospitals. ASPs can use technological advances, such as the electronic medical record and clinical decision support systems, to impact a larger patient population with more efficiency. Additionally, through the use of mobile applications and social media, ASPs can highlight and propagate educational information regarding antimicrobial utilization to patients and providers in a widespread and timely manner. In this article, the authors describe how

technology can play an important role in antimicrobial stewardship.

Download

Estrategias para optimizar el uso de antibióticos en

los hospitales

Publishing year 2017

Author(s) J. Gómez, et al

Type of document Commentary/Statement/Opinion

Scope/aim Region-wide

Country/region Spain

Setting(s) Hospital care

Short summary The inadequate use of antibiotics is a clinical reality we are faced with day by day. The great

peculiarity of this group of drugs is the influence they have not only on the patients and at the time of their use, but also of future infections and the general population, by favouring alterations in the resistance patterns of the bacterial microflora that colonize people. It is

our obligation as experts in infectious diseases to work on improving the use of

antimicrobials.

The pharmacy contribution to antimicrobial stewardship

Publishing year 2017

Author(s) Royal Pharmaceutical Society, UK
Type of document Commentary/Statement/Opinion

Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary This policy focuses on the pharmacist's role as part of a multidisciplinary approach in tackling

the challenges of inappropriate use of antibiotics.

Download

Choosing Wisely in Healthcare Epidemiology and Antimicrobial Stewardship

(Infection control & hospital epidemiology)

Publishing year 2016

Author(s) Morgan et al. (The Society for Healthcare Epidemiology of America)

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary To reduce and understand medical overuse the Choosing Wisely Campaign was established in

2012. This article presents a list with 5 Choosing Wisely recommendations (and 5 runner-up

items) by SHEA concerning antibiotic stewardship, using a Delphi method.

Download

Guidance for the Knowledge and Skills Required for Antimicrobial Stewardship

Leaders (Infection control and hospital epidemiology)

Publishing year 2014

Author(s) Cosgrove et al. (The Society for Healthcare Epidemiology of America)

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Overview of the core knowledge and skills that are needed to lead and maintain an

antimicrobial stewardship program.

Download

Education on antibiotic use. Education systems and activities that work.

Publishing year 2013

Author(s) Cisneros J.M. et al.

Type of document Commentary/Statement/Opinion

Nation-wide Scope/aim

Country/region Spain

Setting(s) Hospital care

Short summary Education systems and activities that work for the antimicrobial stewardship use

Download

Public Health England Antibiotic prescribing and stewardship competencies

Publishing year

2013

Author(s)

Department of Health, Expert Committee on Antimicrobial Resistance and Healthcare Associated Infections (ARHAI) and Public Health England through an

independent multi-professional development group.

Type of document

Commentary/Statement/Opinion

Scope/aim Nation-wide Country/region United Kingdom Setting(s) Hospital care

Community/primary care

Short summary

Antimicrobial stewardship competencies were designed to complement the National Institute for Health and Care Excellence (NICE) National Prescribing Centre's (NPC) generic competency framework for all prescribers. Competencies are described as a "combination of knowledge, skills, motives and personal traits", development of which should help individuals to continually improve their performance and to work more effectively. The NPC competency framework provides an outline framework of "generic prescribing competencies that, if acquired and maintained, can help prescribers to continually develop their prescribing practice". It is intended for any independent prescriber, doctor, dentist or non-medical. The vision is to provide a "starting point for discussion of competencies required by an individual, or groups of, prescribers at all levels of practice, from new (or training) prescribers, through to those practicing at a specialist level." There is also an emphasis on multidisciplinary expertise. These five competencies complement the NPC document and each has an

overarching statement that describes the activity or outcome that prescribers should be able to demonstrate.

Download

ASHP Statement on the Pharmacist's Role in Antimicrobial Stewardship and Infection Prevention and Control

Publishing year 2013

Author(s) American Society of Health-System Pharmacists (ASHP)

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Overview of the responsibilities of pharmacists in antimicrobial stewardship and infection Short summary

prevention and control.

Download

Policy Statement on Antimicrobial Stewardship by the Society for Healthcare Epidemiology of America (SHEA), the Infectious Diseases Society of America (IDSA), and the Pediatric Infectious Diseases Society (PIDS). (Infect Control Hosp

Epidemiol 2012)

Publishing year 2012 Author(s) SHEA/IDSA/PIDS

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Policy paper on antimicrobial stewardship with recommendations for the mandatory

implementation of antimicrobial stewardship throughout health care, process and outcome measures to monitor interventions, and attention for deficiencies in education and research.

Download

Antimicrobial stewardship: A collaborative partnership between infection preventionists and health care epidemiologists (American Journal of Infection

Control)

Publishing year 2012

Author(s) Moody et al. (The Association for Professionals in Infection Control and Epidemiology/The

Society for Healthcare Epidemiology of America)

Type of document Commentary/Statement/Opinion

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Position paper from The Association for Professionals in Infection Control and Epidemiology

(APIC) and the Society for Healthcare Epidemiology of America (SHEA) on the critical role of

health care epidemiologists and infection preventionists in effective antimicrobial

stewardship programs.

Download

Reports

ARNA project: Antimicrobial resistance and causes of non-prudent use of

antibiotics in human medicine in the EU.

Publishing year 2017

Author(s) John Paget et al. (European Commission)

Type of document Report

Scope/aim International relevance

Country/region Europe
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Final report of the ARNA ('Antimicrobial resistance and the causes

of non-prudent use of antibiotics') project, funded by the European Commission, which aimed

to: 1) investigate the use of antibiotics without a prescription, 2) assess the level of

Download

Global Framework for Development & Stewardship to Combat Antimicrobial

Resistance

Publishing year 2017
Author(s) WHO
Type of document Report

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Description of the current state and the future tasks of WHO for the establishment of a global

development and stewardship framework (background information to the 'Global Action Plan

on Antimicrobial Resistance' of WHO).

Download

Prudent use of antimicrobial agents in human medicine: third report on

implementation of the Council recommendation

Publishing year 2016

Author(s) European Commission

Type of document Report

Scope/aim International relevance

Country/region Europe
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Analysis of countries' reports on the implementation of the Council recommendation of 15

November 2001 (2002/77/EC) on the prudent use of antimicrobial agents in human medicine.

Download

DRIVE-AB WP1A: Quality Indicators and Quantity Metrics of Antibiotic Use

Publishing year 2015

Author(s) Driving reinvestment in research and development and responsible antibiotic use (DRIVE-AB)

Type of document Report

Scope/aim International relevance

Country/region Europe
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Overview of quality indicators and quantity metrics of antibiotic use, identified in the Drive-

AB project (work package 1A)

Global Action Plan on Antimicrobial Resistance

Publishing year 2015
Author(s) WHO
Type of document Report

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Sets out the key actions structured around 5 strategic objectives: 1) effective

communication, education and training; 2) surveillance and research, 3) effective sanitation, hygiene and infection prevention measures; 4) optimize the use of antimicrobial medicines in human and animal health, 5) develop the economic case for sustainable investment and

increase investment in new medicines, diagnostic tools etc.

Download

Summary the modified Delphi process for common structure and process indicators for hospital antimicrobial stewardship programs

Publishing year 2015

Author(s) Centers for Disease Control and prevention (CDC), European Centre for Disease Prevention

and Control (ECDC)

Type of document Report

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary List of structure and process indicators for hospital antimicrobial stewardship programmes,

developed by an expert group with the Delphi method (part of the Transatlantic Task Force

on Antimicrobial Resistance (TATFAR), a cooperation between ECDC and CDC)

Download

Antimicrobial stewardship programs: A public health priority in Spain. The SEIMC-REIPI initiative.

Publishing year 2013

Author(s) Rodríguez-Baño J. et al

Type of document Report Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Short summary A communication about the PROA initiative in Spain

Actividades de monitorización y mejora del uso de antibióticos en hospitales

españoles: resultado de una encuesta nacional

Publishing year 2011

Author(s) Paño-Pardo J.R. et al.

Type of document Report
Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Short summary Monitoring activities and improvement in the use of antibiotics in Spain hospitals: results of a

national survey

Download

Ensuring Prudent Use of Antimicrobials In Human Medicine In The European

Union.

Publishing year 2005

Author(s) Werner & Bronzwaer (Eurosurveillance)

Type of document Report

Scope/aim International relevance

Country/region Europe
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Report on the main actions in the EU Member States to implement the 'Council

Recommendation on the prudent use of antibiotics in human medicine (2002): national strategies and intersectoral mechanism, surveillance systems for antimicrobial resistance and use, control and preventive measures, education/training and commission support for EU

action.

Download

Researches

Metrics for quantifying antibiotic use in the hospital setting: results from a systematic review and international multidisciplinary consensus procedure (J

Antimicrob Chemother)

Publishing year 2018

Author(s) Benic et al. (DRIVE-AB)

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Short summary Systematic review on metrics to measure antibiotic inpatient use with the objective to

propose a set of quality indicators (conducted within the Drive-AB project).

Quality indicators for responsible antibiotic use in the inpatient setting: a systematic review followed by an international multidisciplinary consensus

procedure (J Antimicrob Chemother)

Publishing year

Author(s) Monnier et al. (DRIVE-AB WP1 group)

Type of document Research

Scope/aim International relevance

Country/region Europe Setting(s) Hospital care

Short summary Systematic review combined with the Delphi method combining evidence from literature and

stakeholder opinion to obtain consensus on generic inpatient quality indicators to assess the

quality of antibiotic use (conducted within the Drive-AB project).

Download

Use of evidence-based recommendations in an antibiotic care bundle for the intensive care unit (International Journal of Antimicrobial Agents)

Publishing year 2018

Mutters et al. Author(s) Type of document Research

International relevance Scope/aim

Country/region Europe Setting(s) Hospital care

Short summary Description of an antibiotic care bundle with evidence-based recommendations for intensive

care units, by performing a systematic review and a Delphi method, and assessment of the

adherence and applicability of the care bundle.

Download

Developing core elements and checklist items for global hospital antimicrobial stewardship programmes: a consensus approach. (Clinical Microbiology and Infection)

Publishing year 2018

Author(s) Pulcini et al. Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Provides a list of 6 core elements with 29 checklist items for global stewardship programs **Short summary**

based on literature review and an expert panel.

Download

Antibiotic stewardship interventions in hospitals in low-and middle-income countries: a systematic review. (Bull World Health Organ)

Publishing year 2018 Author(s) Dijck et al. Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Short summary The majority of studies reported a positive effect of hospital antibiotic stewardship

interventions. However, no general conclusions can be drawn about the effectiveness of such interventions in LICs and MICs because of low study quality, heterogeneity of interventions

and outcomes, and under-representation of certain settings.

Download

The Current State of Antimicrobial Stewardship: Challenges, Successes, and

Future Directions (Current Infectious Disease Reports)

Publishing year 2018

Author(s) Emberger et al.

Type of document Research
Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Review on the current state (2018, USA) of the field of antimicrobial stewardship with key

challenges, successes and future directions.

Download

What is antimicrobial stewardship? (Clinical Microbiology and Infection)

Publishing year 2017

Author(s) Dyar et al. (ESCMID Study Group for Antimicrobial stewardship)

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Review on the emergence and evolution of the term 'antimicrobial stewardship'.

Download

ESGAP inventory of target indicators assessing antibiotic prescriptions: a cross-

sectional survey. (J Antimicrob Chemother)

Publishing year 2017

Author(s) Howard et al. (ESCMID Study Group for Antimicrobial stewardship)

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Results of a European survey among all ESGAP (ESCMID

Study Group for Antimicrobial stewardshiP) members, on indicators assessing antibiotic prescriptions at a national levels is presented, with both targets and incentives

Download

A framework for ensuring a balanced accounting of the impact of antimicrobial stewardship interventions. (J Antimicrob Chemother)

Publishing year 2017

Author(s) Toma et al.

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Short summary Describe a structured framework for considering the range of consequences that antimicrobial

stewardship interventions can have, both positive and negative. Based on a Cochrane review.

Download

A global call from five countries to collaborate in antibiotic stewardship: united we succeed, divided we might fail (Lancet Infect Dis)

Publishing year 2017
Author(s) Goff et al.
Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Review on different approaches for antibiotic stewardship in five countries: USA, South

Africa, Colombia, Australia, and the UK.

Download

Antibiotic stewardship in low- and middle-income countries: the same but

different? (Clinical Microbiology and Infection)

Publishing year 2017Author(s) Cox et al.Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary A literature review of antibiotic stewardship programs in low- and middle-income countries,

highlighting challenges in LMICs. Examples of national programs are listed.

Managing responsible antimicrobial use: perspectives across the healthcare

system (Clinical Microbiology and Infections)

Publishing year

Author(s) ESCMID Study Group for Antimicrobial stewardshiP (ESGAP) (Dyar et al.)

Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

> Community/primary care Long-term facility care

Short summary To review real-world examples of how healthcare systems can promote responsible

> antimicrobial use, focusing on the role of governance and managers. Based on literature review, official documents (governments and agencies), and the experience that ESGAP has

gained on the topic.

Download

Antimicrobial Stewardship in Inpatient Settings in the Asia Pacific Region: A Systematic Review and Meta-analysis. (Clinical Infectious Diseases)

Publishing year 2017

Honda et al. Author(s) Research Type of document

Scope/aim International relevance

Country/region Asia

Hospital care Setting(s)

A review of the effect of antimicrobial stewardship programs in inpatient settings in the Asia Short summary

Pacific region from January 2005 through March 2016. Forty-six studies were included for a

systematic review and meta-analysis.

Download

Optimising the quality of antibiotic prescribing in out-of-hours primary care in Belgium: a study protocol for an action research project

Publishing year

Author(s) A.Colliers, S. Coenen, H.Philips, R.Remmen, S.Anthierens

Type of document Research

Scope/aim Locally developed

Country/region Belgium

Setting(s) Community/primary care

Research project on optimising antibiotic prescription in out-of-hours primary care in Short summary

Belgium.

What is the perception of the 10-point plan of the German Federal Ministry of Health against multidrug-resistant pathogens and measures of antibiotic stewardship?: An interdisciplinary analysis among German clinicians and development of a decision tool for urologists

Publishing year 2017

Author(s) May M, Vetterlein MW, Wagenlehner FM, Brookman-May SD, Gilfrich C, Fritsche HM,

Spachmann PJ, Burger M, Schostak M, Lebentrau S; MR2-Studiengruppe.

Type of document Research
Scope/aim Nation-wide
Country/region Germany
Setting(s) Hospital care

Short summary Due to increasing antibiotic resistances, relevant treatment problems are currently emerging

in clinical practice. In March 2015, the German Federal Ministry of Health (BMG) published a 10-point plan designed to combat this development. Furthermore, the first German guideline on antibiotic stewardship (ABS) was implemented in 2013 and instructs physicians of different specialties about several treatment considerations. Evidence is scarce on how such concepts

(10-point plan/BMG, ABS) are perceived among clinicians.

Download

Antimicrobial stewardship: a qualitative study of the development of national guidelines for antibiotic use in hospitals.

Publishing year 2017

Author(s) Eli Feiring and Anne Berit Walte

Type of document Research
Scope/aim Nation-wide
Country/region Norway
Setting(s) Hospital care

Short summary This study provides insights as to how guidelines that are intended to promote responsible use

of antibiotics in hospitals can be carefully developed to facilitate perceptions of relevance,

transparency, and authority by health professionals.

Download

Disease-based antimicrobial stewardship: a review of active and passive approaches to patient management. (J Antimicrob Chemother)

Publishing year 2017

Author(s) Foolad et al.

Type of document Research

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Long-term facility care

Short summary Disease-based antimicrobial stewardship interventions for the following diseases were

evaluated: pneumonia, acute bacterial skin and skin structure infections, bloodstream infections, urinary tract infections, asymptomatic bacteriuria, Clostridium difficile infection and intra-abdominal infections. The effect of these ASPs varies based on infectious disease

syndrome, resource availability and intervention type.

Antibiotic Stewardship in Small Hospitals: Barriers and Potential Solutions.

(Clinical Infectious Diseases)

Publishing year 2017

Author(s) Stenehjem et al.

Research Type of document

International relevance Scope/aim

Country/region USA

Setting(s) Hospital care

Propose potential solutions that tailor stewardship activities to the needs of the facility and Short summary

the resources typically available in small hospitals. Presents four examples of small hospitals

with significant experience in operationalizing ASPs.

Download

Implementing Antimicrobial Stewardship in Long-term Care Settings: An Integrative Review Using a Human Factors Approach (Clinical Infectious Diseases)

Publishing year 2017

Author(s) Katz et al. (IDSA)

Type of document Research

Scope/aim International relevance

Country/region **USA**

Long-term facility care Setting(s)

Short summary Review on the implementation of antimicrobial stewardship in long-term care facilities, using

a human factors engineering aproach to understand all aspects assoctoated with succesful

implementations of multimodal interventions.

Download

Antibiotic Stewardship in Nursing Facilities. (Infect Dis Clin N Am)

Publishing year 2017

Author(s) McElligott et al.

Type of document Research

International relevance Scope/aim

Country/region **USA**

Setting(s) Long-term facility care

Short summary A review describing factors that influence antibiotic prescribing decisions, strategies to

improve antibiotic prescribing, the current state of ASPs, and suggestions for expansion of

antibiotic stewardship activity, in nursing facilities.

Download

Ten key points for the appropriate use of antibiotics in hospitalised patients: a consensus from the Antimicrobial Stewardship and Resistance Working Groups of the International Society of Chemotherapy (International Journal of Antimicrobial

Agents)

Publishing year 2016

Author(s) Hara et al. (The Antibiotic Stewardship and Resistance Working Groups of the International

Society for Chemotherapy)

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care Short summary

Consensus document of the Antibiotic Stewardship and Resistance Working Groups of the

International Society for Chemotherapy with ten key points for the appropriate use of

antibiotics in hospitalised patients.

Download

Antimicrobial stewardship in wound care: a Position Paper from the British Society for Antimicrobial Chemotherapy and European Wound Management

Association

Publishing year 2016

Benjamin A. Lipsky, Matthew Dryden, Finn Gottrup, Dilip Nathwani, Ronald Andrew Seaton Author(s)

and Jan Stryja

Type of document

Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Long-term facility care

Short summary This guidance document is aimed at providing clinicians an understanding of: the basic

principles of why AMS is important in caring for patients with infected wounds: who should be

involved in AMS and how to conduct AMS for patients with infected wounds

Download

A Concise Set of Structure and Process Indicators to Assess and Compare Antimicrobial Stewardship Programs Among EU and US Hospitals: Results From a

Multinational Expert Panel. (Infect Control Hosp Epidemiol)

Publishing year

Pollack LA, Plachouras D, Sinkowitz-Cochran R, Gruhler H, Monnet DL, Weber JT; Author(s)

Transatlantic Taskforce on Antimicrobial Resistance (TATFAR) Expert Panel on Stewardship

Structure and Process Indicators.

Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

The objective was to develop common indicators, relevant to both EU member states and the **Short summary**

United States, that characterize and allow for meaningful comparison of hospital

antimicrobial stewardship programs among different countries and healthcare systems. Among them 17 indicators were considered essential to characterize an antimicrobial stewardship

program and therefore were included in a core set of indicators.

Download

Current evidence on hospital antimicrobial stewardship objectives: a systematic review and meta-analysis. (Lancet Infect Dis)

Publishing year 2016

Author(s) Schuts et al. Type of document Research

Scope/aim International relevance

Country/region Netherlands
Setting(s) Hospital care

Long-term facility care

Short summary A systematic review and meta-analysis to study the effect of ASPs on four patient outcomes in

hospitals and long-term care facilities: clinical outcomes, adverse events, costs, and bacterial

resistance rates.

Download

Antibiotic Stewardship Programs in U.S. Acute Care Hospitals: Findings From the 2014 National Healthcare Safety Network Annual Hospital Survey. (Clinical Infectious Diseases)

Publishing year 2016

Author(s) Pollack et al.

Type of document Research

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary A national assessment of antibiotic stewardship based on CDC's 2014 National Healthcare

Safety Network (NHSN) Annual Hospital Survey where questions on the 7 core elements of CDC's recommended hospital ASP were included. Gaps in the implementation of programs

were identified.

Download

Antimicrobial Stewardship for Neonates and Children: A Global Approach (Pediatric Infectious Disease Journal)

Publishing year 2015

Author(s) Bielicki et al. (European Society for Paediatric Infectious Diseases)

Type of document Research

Scope/aim International relevance

Country/region Europe

Setting(s) Hospital care

Community/primary care

Short summary Review on the basic principles and strategies of pediatric antimicrobial stewardship and

application in different settings.

Download

An international cross-sectional survey of antimicrobial stewardship programmes in hospitals (J Antimicrob Chemother)

Publishing year 2015

Author(s) ESCMID Study Group for Antimicrobial Policies (ESGAP) and ISC Group on Antimicrobial

Stewardship

Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Download

Antimicrobial stewardship activities in hospitals in Ireland and the United Kingdom: a comparison of two national surveys.

Publishing year 2015

Author(s) Aoife Fleming, Antonella Tonna, Sı'le O'Connor, Stephen Byrne, Derek Stewa

Type of document Research
Scope/aim Nation-wide
Country/region Ireland
Setting(s) Hospital care

Short summary Objective: To compare the membership of AMTs and AMS activities conducted in Irish and

United Kingdom (UK) hospitals. Methods: A postal questionnaire to determine the membership and activities of AMTs was issued to the specialist antimicrobial pharmacist or pharmacist in

charge

Download

Antibiotic Stewardship Initiatives as Part of the UK 5-Year Antimicrobial Resistance Strategy (Antibiotics)

Publishing year 2015

Author(s) Johnson et al.

Type of document Research

Scope/aim Nation-wide

Country/region United Kingdom

Setting(s) Hospital care

Community/primary care

Short summary In 2013, a five-year national strategy for tackling antimicrobial resistance was published in

the UK. This article reviews a number of stewardship activities implemented in England in

support of the five-year national strategy for controlling antibiotic resistance.

Download

Antibiotic stewardship has been established at Herlev Hospital

Publishing year 2014

Author(s) Arpi M, Gjørup I, Boel JB, Bøggild N, Hansen SW, Jarløv JO.

Type of document Research

Scope/aim Locally developed

Country/region Denmark
Setting(s) Hospital care

Short summary A high incidence of Clostridium difficile and multiresistant organisms and increasing

consumption of cephalosporins and quinolones have required an antibiotic stewardship programme, and antibiotic audits with feedback, revised guidelines and stringent prescription rules have been successful. The hospital intervention was managed by an antibiotic team combined with contact persons in all departments, a pocket edition of the guideline was available, and monthly commented reports about antibiotic consumption in each department were presented on the intranet. Significant declining use of restricted ATBs was observed.

Importance of antimicrobial stewardship to the English National Health Service.

Publishing year 2014

Author(s) Dixon J, Duncan CJ.

Type of document Research
Scope/aim Nation-wide
Country/region United Kingdom
Setting(s) Hospital care

Community/primary care

Short summary Here we provide a concise summary to clarify the current position and importance of AMS

within the NHS and review the evidence base for AMS recommendations.

Download

Development and validation of potential structure indicators for evaluating antimicrobial stewardship programmes in European hospitals (Eur J Clin Microbiol Infect Dis 2013)

Publishing year 2013

Author(s) Buyle et al. (Antibiotic Strategy International (ABS) Quality Indicators Team)

Type of document Research

Scope/aim International relevance

Country/region Europe
Setting(s) Hospital care

Short summary Study on the development and pilot validation of structure indicators for hospital

antimicrobial stewardship programmes in European hospitals.

Download

Antimicrobial Stewardship Initiatives Throughout Europe: Proven Value for

Money.

Publishing year 2017

Author(s) Edwin J.M. Oberjé, Marit A.C. Tanke

Patrick P.T. Jeurissen2,

Type of document Research
Scope/aim Nation-wide
Country/region Netherlands
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary The aim of this study is to highlight some of the success stories of proven cost-effective

interventions, and to describe the actions that have been taken, the outcomes that have been found, and the difficulties that have been met. In some cases we came across substantial scope for real-life cost savings. Although the best approach to effectively hinder the spread of antimicrobial resistance remains unclear and may vary significantly among settings, several EU-wide examples demonstrate that cost-effective antimicrobial stewardship is possible. Such examples can encourage others to implement (the most cost-effective) elements in their

system.

The Global Alliance for Infections in Surgery: defining a model for antimicrobial stewardship-results from an international cross-sectional survey.

Publishing year 2018

Author(s) Sartelli M, Labricciosa FM, Barbadoro P, Pagani L, Ansaloni L, Brink AJ, et all.

Type of document Research

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Short summary The aim of this study is to evaluate structures and resources of antimicrobial stewardship

teams (ASTs) in surgical departments from different regions of the world.

Download

Role of the Clinical Microbiology Laboratory in Antimicrobial Stewardship

Publishing year 2018

Author(s) Bouza E, Muñoz P, Burillo A.

Type of document Research

Scope/aim Locally developed

Country/region Spain

Setting(s) Hospital care

Short summary Describe the contributions of the microbiology department to the antimicrobial stewardship

program of a large teaching hospital as 10 main points ranging from the selection of patients deemed likely to benefit from a fast track approach, to their clinical samples, or the rapid reporting of results via a microbiology hotline, to rapid searches for pathogens and

susceptibility testing. These points should serve as guidelines for similar programs designed to

decrease the unnecessary use of antimicrobials.

Download

The economic evaluation of an antibiotic checklist as antimicrobial stewardship intervention.

Publishing year 2017

Author(s) van Daalen FV, Opmeer BC, Prins JM, Geerlings SE, Hulscher MEJL.

Type of document Research
Scope/aim Region-wide
Country/region Netherlands
Setting(s) Hospital care

Short summary An antibiotic checklist was introduced in nine Dutch hospitals to improve appropriate

antibiotic use. We estimated the cost-effectiveness of checklist use

Download

Inventory of antibiotic stewardship programs in general practice in France and abroad.

Publishing year 2015

Author(s) Wang S, Pulcini C, Rabaud C, Boivin JM, Birgé J.

Type of document Research
Scope/aim Nation-wide

Country/region France

Setting(s) Hospital care

Community/primary care

Short summary

The authors conducted a survey of measures implemented in France and abroad for a better use of antibiotics in general practice. A literature review was conducted from January 2000 to July 2014. Emails were sent to every infectious diseases department, to all regional health authorities (ARS), to the health insurance offices (CPAM) with the highest and lowest antibiotic use, and to the ministry of health to make an inventory of all antibiotic stewardship programs. The ministry of health, the board of general practitioners, infectious diseases specialists, pharmacists, and the medical and pharmacy schools of the nation's capital were contacted in 17 countries of Europe and North America.

Download

Participatory action research in antimicrobial stewardship: a novel approach to improving antimicrobial prescribing in hospitals and long-term care facilities.

Publishing year 2014

Author(s) van Buul LW1, Sikkens JJ, van Agtmael MA, Kramer MH, van der Steen JT, Hertogh CM.

Type of document Research
Scope/aim Nation-wide
Country/region Netherlands
Setting(s) Hospital care

Long-term facility care

Short summary

It is challenging to change physicians' antimicrobial prescribing behaviour. Although antimicrobial prescribing is determined by contextual (e.g. a lack of guidelines), cultural (e.g. peer practice) and behavioural (e.g. perceived decision making autonomy) factors, most antimicrobial stewardship programmes fail to consider these factors in their approach. This may lead to suboptimal intervention effectiveness. We present a new approach in antimicrobial stewardship programme development that addresses relevant determinants of antimicrobial prescribing: participatory action research (PAR). PAR is a collaborative process that aims to bring about change in social situations by producing practical knowledge that is useful in local practice. It requires substantial involvement of relevant stakeholders to address determinants of the studied behaviour and to facilitate empowerment. PAR is well suited for complex problems in multidisciplinary settings as it adapts to local needs, delivering a tailored approach to improving local practice. We describe how PAR can be applied to antimicrobial stewardship, and describe the PAR design of two ongoing multicentre antimicrobial stewardship projects, in the acute care setting and the long-term care setting, respectively.

Tools and educational resources

Antimicrobial Stewardship: A competency-based approach

Publishing year 2018 Author(s) WHO

Type of document Tool and/or educational resource

Scope/aim Nation-wide
Country/region International
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary From source: This course will equip clinicians who frequently prescribe antimicrobials with

knowledge and tools to improve their use in daily clinical practice. Through case based examples, the course will highlight how antimicrobial stewardship principles can be applied to

common clinical scenarios.

Download

Antimicrobial Stewardship: Managing Antibiotic Resistance (online course)

Publishing year 2018

Author(s) The British Society for Antimicrobial Chemotherapy (BSAC)

Type of document Tool and/or educational resource

Scope/aim International relevance

Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary Course aims to help participants understand antibiotic resistance, and how antimicrobial

stewardship can slow down or reduce it. The course is free.

Download

CDC's Antibiotic Stewardship Training Series

Publishing year 2018

Author(s) Centers for Disease Control and prevention

Type of document Tool and/or educational resource

Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary From source: Interactive web-based course designed to help clinicians optimize antibiotic use

to combat antibiotic resistance and improve healthcare quality and patient safety. Includes information about antibiotic resistance and threats and explanations of the benefits of

antibiotic stewardship.

Antimicrobial Stewardship (AMS), Volume Two (book)

Publishing year 2017

Author(s) ESCMID study group on antibiotic policies (ESGAP)

Type of document Tool and/or educational resource

Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary A 'hands on', practical approach, tips to increase success, a description of the most common

mistakes, a global picture (out- and inpatient settings, all countries) and a short list of 10-20

landmark references.

Download

Antimicrobial stewardship: changing risk related behaviours in the general population

Publishing year 2017

Author(s) National Institute for Health and Care Excellence (NICE)

Type of document Tool and/or educational resource

Scope/aim International relevance

Country/region United Kingdom
Setting(s) Hospital care

Community/primary care Long-term facility care

Short summary This guideline covers making people aware of how to correctly use antimicrobial medicines

(including antibiotics) and the dangers associated with their overuse and misuse. It aims to change people's behaviour to reduce antimicrobial resistance and the spread of resistant

microbes. The website also has Tools and Evidence with resources.

Download

Evaluation of new antimicrobials for the hospital formulary. Policies restricting antibiotic use in hospitals.

Publishing year 2013

Author(s) Pujol M, Delgado O, Puigventós F, Corzo JE, Cercenado E, Martínez JA.

Type of document Tool and/or educational resource

Scope/aim Region-wide
Country/region Spain

Setting(s) Hospital care

Short summary This review summarizes information regarding antibiotic evaluation and available restrictive

strategies to limit the use of antibiotics at hospitals with the aim of curtailing increasing

antibiotic resistance.

How to assist clinicians in improving antimicrobial prescribing: tools and

interventions provided by stewardship programs

Publishing year 2013

Author(s) López-Medrano F. et al.

Type of document Tool and/or educational resource

Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Short summary Tools to implement the antimicrobial stewardship program

Download

Boletín farmacoterapéutico: La ventana farmacoterapéutica: Uso prudente de

antimicrobianos en atención primaria

Publishing year 2013

Author(s) Unidad de Gestión Clínica de Farmacia de Atención Primaria de Sevilla (Andalucía)

Type of document Tool and/or educational resource

Scope/aim Locally developed

Country/region Spain

Setting(s) Community/primary care

Short summary Recommendations on the proper use of antimicrobials

Download

Appropriate Use of Medical Resources: Antimicrobial Stewardship Toolkit

Publishing year 2013

Author(s) American Hospital Association (AHA)

Type of document Tool and/or educational resource

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary Antimicrobial stewardship toolkit with an overview of resources (to get started, to enhance

an existing program, implementation guidelines and tools, webinars, patient resources).

Download

Blog: PROAntibióticos

Publishing year 2012

Author(s) H.U.La Paz (Madrid); H.C.U.de Zaragoza

Type of document Tool and/or educational resource

Scope/aim Nation-wide

Country/region Spain

Setting(s) Hospital care

Community/primary care

Short summary Blog and/or forum with Information and tools for the correct use of antibiotics.

Antimicrobial stewardship: an evidence-based, antimicrobial self-assessment

toolkit (ASAT) for acute hospitals (J Antimicrob Chemother)

Publishing year 2010

Author(s) Cooke et al. (Advisory Non-Departmental Public Body on Antimicrobial Resistance and

Healthcare Associated Infections (ARHAI))

Type of document Tool and/or educational resource

Scope/aim International relevance

Country/region United Kingdom Setting(s) Hospital care

Short summary Development of an antimicrobial self-assessment toolkit (ASAT) that offers a checklist for

hospitals to self-assess their organizations' levels of antimicrobial stewardship.

Download

Other Publications

Antimicrobial Stewardship Programs: Principles and Practice.

Publishing year 2018

Author(s) Cunha CB.

Type of document Other Publications

Scope/aim Nation-wide

Country/region USA

Setting(s) Hospital care

Short summary Antimicrobial stewardship involves optimizing antibiotic use while using cost-effective

interventions to minimize antibiotic resistance and control Clostridium difficile. An effective hospital-wide antimicrobial stewardship program (ASP) should be led by an infectious disease (ID) physician. The ASP team needs full and ongoing financial support for the ASP from the hospital administration. The ID clinician leader should have special expertise in various aspects of antimicrobial therapy, that is, pharmacokinetics, resistance, pharmacoeconomics, and C difficile. The ASP ID team leader and ID-trained clinical pharmacist staff are

responsible for customizing ASP interventions to the hospital's unique set of antibiotic use-

related concerns.

Download

Redefining the Antibiotic Stewardship Team: Recommendations from the American Nurses Association/Centers for Disease Control and Prevention Workgroup on the Role of Registered Nurses in Hospital Antibiotic Stewardship

Practices

Publishing year 2017

Author(s) American Nurses Association (ANA), Centers for Disease Control and prevention

Type of document Other Publications
Scope/aim International relevance

Country/region USA

Setting(s) Hospital care

Short summary White paper on the role of nurses in hospital antimicrobial stewardship programmes consisting

of three parts: 1) review of the literature on antimicrobial stewardship, 2) current barriers for full nurse participation in antimicrobial stewardship programmes, 3) opportunities for nurses.

Download

AP 06b Infectious Disease Management_logical frame

Publishing year 2015

Author(s) Ministry of Health of the Czech Republic

Other Publications Type of document

Scope/aim Nation-wide Country/region Czech Republic Setting(s) Hospital care

Short summary Logical frame for the implementation of the HEALTH 2020 - Action Plan 6: Managing Infectious

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Success stories of implementation of antimicrobial stewardship: a narrative

review.

Publishing year 2014

B.Huttnera, S.Harbartha, D.Nathwanibon behalf of the ESCMID Study Group for Antibiotic Author(s)

Policies (ESGAP)

Type of document Other Publications Scope/aim International relevance

Country/region International Setting(s) Hospital care

Community/primary care

The aim of this review is to highlight some of the success stories of AMS strategies, and to Short summary

describe the actions that have been taken, the outcomes that have been obtained, and the obstacles that have been met. Although the best approach to effective AMS remains elusive and may vary significantly among settings, these diverse examples from a range of healthcare contexts demonstrate that effective AMS is possible. Such examples will inform others and encourage them to formally evaluate and share their results with the global stewardship

community.

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Plan estratégico y de acción para reducir el riesgo de selección y diseminación de

la resistencia a antibióticos

Publishing year 2014

Author(s) Spanish Agency of medicines and health products (AEMPS)

Type of document Other Publications

Nation-wide Scope/aim Country/region Spain

Setting(s) Hospital care

Community/primary care

Strategic plan to reduce the risk of selection and dissemination of antibiotic resistance. **Short summary**

Action Plan of the National Antibiotic Program for the period 2011-2013

Publishing year 2011

Author(s) Ministry of Health of the Czech Republic

Type of document Other Publications

Scope/aimNation-wideCountry/regionCzech RepublicSetting(s)Hospital care

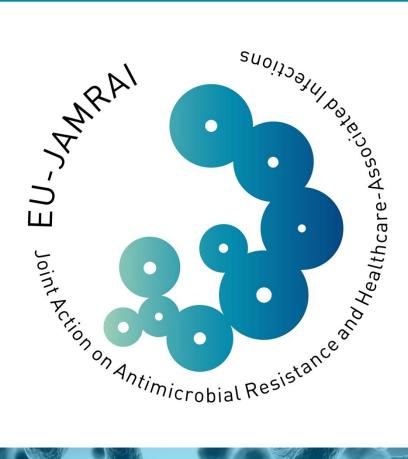
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Short summary National Antibiotic Action Plan for 2011-2013 ("AP NAP") of Czech Republic.

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To see or download the complete list of the *Revised guidelines*, tools and implementation methods for antibiotic stewardship or ordered by other level of care please follow this link.





*This document arises from the Joint Action on Antimicrobial Resistance and Healthcare-Associated Infections (EU-JAMRAI), which has received funding from the European Union, in the framework of the Health Program (2014-2020) under the Grant Agreement N°761296. Sole responsibility lies with the author and the Consumers, Health, Agriculture and Food Executive Agency is not responsible for any use that may be made of the information contained herein.

