



Joint Action
Antimicrobial Resistance and
Healthcare-Associated Infections

Deliverable D3.1

Evaluation Plan

WP3 | Evaluation of the project

Leader acronym | ISS

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0. Acronyms

AEMPS	Agency of Medicines and Medical Devices
AB	Advisory Board
AMR	Antimicrobial Resistance
EC	Europe Commission
ECDC	European Centre for Disease and Control
EP	Evaluation Plan
ET	Evaluation Tool
EU	European Union
EUPHA	European Public Health Association
FAO	Food and Agriculture Organization
FFIS	Fundación para la Formación e Investigacion Sanitarias” de la Región de Murcia
FOHM	Public Health Agency of Sweden
HCW	Health Care Workers
HAI	Healthcare-associated infections
HCDCP	Hellenic Center for Disease Control and Prevention
INSERM	Institut National de la Santé et la Recherche Médicale”
ISS	Istituto Superiore di Sanità
MoH-FR	Ministry of Social Affairs and Health
JA	Joint Action
JAMRAI	Joint Action Antimicrobial Resistance and Healthcare Associated Infections
JAS	JA Secretariat
JPI	Joint Programming Initiative
MS	Member States
OECD	Organization for Economic Co-operation and Development
SC	Steering Committee
UNIFG	University of Foggia
UNIUD	University of Udine
VWS	Welfare and Sport
WP	Work packages
WHO	World Health Organisation

1. Background of the JAMRAI Project

Antimicrobial-Resistance (AMR) is a raising threat worldwide that menaces to jeopardize all the conquests of modern medicine and to pose a serious risk to patient safety.

In recent years, national and international institutions have launched several initiatives to tackle this problem. WHO (World Health Organisation) has endorsed a global action plan with a “one health” approach, a multisectorial plan that includes human and animal health as well as the environment and has asked that each country should elaborate a national action plan following this principle (1). The European Commission (EC) has reinforced the “One health” approach in the 2016 Action Plan to combat AMR, proposing the creation of a “One health” network in Europe (2).

The Joint Action Antimicrobial Resistance and Healthcare Associated Infections (JAMRAI) represents the opportunity to strengthen and implement the Action Plan of the EC through collaboration among the countries to combat antibiotic-resistance (AMR) as well as Health-Care Associated Infections (HAI) that are often antibiotic-resistance infections in a “One health” perspective.

The participation of 28 European Union (EU) countries and 44 partners to the JAMRAI should ensure the strengthening of the national plans of all the EC through their participation to the principal working areas of the JAMRAI. In addition, the participation of 30 stakeholders that include key international organizations as well as professionals and patients’ associations and the industry ensure a strategic link to the most forceful request and the new development that emerge constantly in the field.

The JAMRAI efforts are aimed at translating policy declarations into concrete actions that can have a substantial impact on the control of AMR and HAI at national and European level.

Specifically, the project aims to reach the following outcomes:

- Support Member States (MS) in the development and implementation of national strategies and action plans on AMR and HAI and ensure a common approach at European level on the implementation of the Global Action Plan;
- Produce guidance documents and tools allowing MS to improve the fight against AMR and the management of HAI at national, local, and health-care setting level (hospital, long-term care, community);

- enhance the implementation of evidence-based tools and capacity building, through training, organisational change and/or other methods to enable sustainable improvements in practice by health care professionals;
- Strengthen the ‘One Health’ approach and coordination with relevant sectors - including for AMR with animal health, food safety, agriculture, environmental and research and the Joint Programming Initiative (JPI) on AMR;
- Promote awareness and commitment by governments and stakeholders;
- Foster a coordinated European response in regards to prioritizing and assisting in the implementation of research and innovation to help achieve public health-related AMR and HAI goals and objectives.

The JAMRAI is composed of 9 Work Packages (WP)s with different objectives and involving the various participant countries:

- **WP1: Coordination of the project.** Leader: Institut national de la santé et de la recherche médicale (INSERM), France.
- **WP2: Dissemination of the project.** Leader: Spanish Agency of Medicines and Medical Devices (AEMPS), Spain.
- **WP3: Evaluation of the project.** Leader: Istituto Superiore di Sanità (ISS), Italy.
- **WP4: Integration in National Policies and sustainability.** Leader: Ministry of Social Affairs and Health (MoH-FR), France.
- **WP5: Implementation of One Health national strategies and National Action Plans for AMR.** Leader: Dutch Ministry of Health, Welfare and Sport (VWS), The Netherlands.
- **WP6: Policies for prevention of Health Care Associated Infections and their implementation.** Co-leaders: Hellenic Center for Disease Control and Prevention (HCDCP), Greece & Public Health Agency of Sweden (FOHM), Sweden.
- **WP7: Appropriate use of antimicrobials in human and animals.** Co-leaders: Norwegian Institute of Public Health, Norway & Spanish Agency of Medicines and Medical Devices (AEMPS), Spain.
- **WP8: Awareness raising and communication.** Leader: Spanish Agency of Medicines and Medical Devices (AEMPS), Spain.
- **WP9: Prioritizing and implementing research and innovation for public health needs.** Co-leaders: Norwegian Institute of Public Health, Norway & Institut national de la santé et de la recherche médicale (Inserm), France.

2. WP3: "Evaluation of the Project"

Work Package (WP) 3 "Evaluation of the Project" is an integral part of JAMRAI ; it is carried out during the whole JAMRAI project (Sept 2017/Aug 2020).

2.1 Evaluation Team

The evaluation team is composed by several professionals with expertise in "projects evaluation" and previously engaged in similar experiences, both from Institution participating in the JA or subcontracted.

- The team is led by Istituto Superiore di Sanità (ISS), Italy with the contribution of the University of Udine (UNIUD) as subcontractor.
- The "Fundación para la Formación e Investigacion Sanitarias" de la Región de Murcia (FFIS), Spain, the University of Foggia (UNIFG), Italy, the scientific coordination of JAMRAI (Institut National de la Santé et la Recherche Médicale", (INSERM), France, and the WPs leaders assist Istituto Superiore di Sanità in this task.

2.2 Main and specific objectives of WP3

The main objectives of this WP3 are:

- To assess the achievement of the project objectives;
- To assess whether the outcomes meet the needs of the target groups.

The specific objectives of WP3 are:

- Develop, share and disseminate an Evaluation Plan (EP);
- Develop Evaluation Tools (ETs) for data collection according to the EP;
- Perform interim and final evaluation;
- Develop quality assessment and report it as a specific paragraph/chapter in JA deliverables and documentation;
- Report and share the evaluation results to participants and relevant stakeholders;
- Evaluate the impact of JA (Joint Action) in Europe MS and regional governments (3).

2.3 WP3 Methodology

The evaluation process of WP3 include two major issues:

- Progress and results evaluation (Internal evaluation);
- Quality evaluation (External evaluation).

The Progress and results evaluation (Internal evaluation): for every single JA objective and milestone process, output and outcome are explored through specific

indicators, defined and shared with WPs' leaders and relevant stakeholders. These indicators help in evaluating the project progress, outcomes, impact and expected and unexpected development.

The Quality evaluation (External evaluation): is based on comments, suggestions and/or recommendation made by the Steering Committee and the Stakeholders Forum, which give their contribution to assess:

- Accuracy of EP in all its phases and efficacy and usefulness of Evaluation tools;
- Relevance of JAMRAI issues perceived at different level (institutional, academic and operational level);
- Reproducibility, truthfulness and completeness of data provided by WPs' leaders and partners (e.g. through surveys' questionnaires) through National and Regional health institutions web-sites consultation, requests for integrations/clarifications, dispatch of additional documentation, etc.;
- Comprehensiveness and accessibility of contents of deliverables and documentation released (e.g. clarity and realistic nature of conclusion and proposal);
- Representativeness and relevance of stakeholders engaged and experts involved and of their performance;
- Satisfaction degree about JA strategies, actions, tools and outcomes by policy makers, Health Care Workers (HCWs), Patients Associations and other stakeholders (3).

2.3.1 Tools used to reach the main objectives

In order to reach the main objective (I) the tools used are:

- Surveys through on-line questionnaires designed to be completed through self-assessment at country level by project participants and internal stakeholders;
- Recording data out of routine documentation of WPs and pre-release deliverables (data from internal WP surveys, training materials, developed guidelines, operations manual, recommendations, results of pilot projects, questionnaire exploring: the carrying out and accomplishments of general and technical meetings, characteristics of participants, outcomes emerged and appreciation degree);
- Meetings (on-line or face to face) to agree the Evaluation Plan (EP), agree and share Evaluation Tools and share reports (interim and final) results with participant representatives of all JA WPs.

In order to reach the main objective (II) the tools used are:

- Surveys through on-line questionnaires designed to be completed through self-assessment at country level;
- Consultations involving different participants and stakeholders (WP leaders and partners, external stakeholders...) experts in HAI (Healthcare-Associated Infections) prevention and AMR;
- Meetings (on-line or face to face) to share reports (interim and final) with external stakeholders;
- EU (European Union) MS (Member States) National and Regional health institutions web-sites consultation for the availability of official data.

Progress and results evaluation and quality evaluation will be included in interim and final reports, which will be shared with both internal and external stakeholders.

2.4 Tasks Descriptions

Task 3.1: Definition of the Evaluation Plan (EP)

Leader: ISS ; **Contributors:** FFIS / **Start date:** M1 **End date:** M4

Task description: EP, specifying evaluation activities, is developed by the WP3 leader based on the set of defined indicators and reviewed by collaborating with representatives of all relevant JA WPs. The evaluation activities include data recording out of routine documentation of WPs and pre-release deliverables, surveys (conducted through web-based questionnaires) and consultations involving different participants and stakeholders, and monitoring with a calendar of JA milestones. For each of these activities the EP identify specific responsibilities, time for completion and mode of data collection for evaluation.

Revision of the EP is carried out during the project, if necessary.

Specific and well-defined actions are:

- Assessment of the achievement of every single WP tasks and outputs;
- the respect of the defined timeline and deadlines for WPs activities and outputs;
- Assessment of the correct development of general and technical meetings;
- Monitoring (support, early reaction, securing data) of the calendar of JA milestones;
- Engagement of every single WPs leader and associated partner who contribute to the development of WP3 by providing evaluation information on their own activities, attended events (meetings, conferences, etc.) and deliverables.
- Task 3.2: Development of evaluation tools.
- **Leader:** ISS (subcontracting) ; **Contributors:** FFIS / **Start date:** M1 **End date:** M36

- **Task description:** Based on the definition of the EP, ET are developed to collect all information that is not easily accessible by data recording out of routine documentation of WPs and pre-release deliverables and require instead surveys and consultations involving different participants and stakeholders. This task includes the definition and implementation of web based tools to facilitate data collection and surveys conduction. Prior to use, ETs are reviewed by all relevant stakeholders included the participants of the Stakeholders forum, this maximizes evaluation response rate and avoid issues during data collection activities, thus minimizing risks for the task. All ETs are tested and piloted before their use and they are revised during the project, if necessary.

Task 3.3: Conduct interim and final evaluation.

Leader: FFIS; **Contributors:** UNIFG, ISS / **Start date:** M5 **End date:** M36

Task description: based on the EP, interim and final evaluation activities are carried out to monitor the implementation process for WPs activities and assessment of achievement of JA specific objectives. Evaluation activities (as described in the EP, see task 3.1) provide information on WPs progress and timely attainment of the milestones, deliverables together with assessment of pilot projects. In case of issues in carrying out the evaluation activities, direct consultations are performed with relevant partners and/or stakeholders (e.g. reminders to partners not responding surveys, communication with WP leaders and partners in case of delays with deliverables/activities, etc.).

Task 3.4: Quality Assessment.

Leader: FFIS; **Contributors:** UNIFG, ISS / **Start date:** M1 **End date:** M36

Task description: WP3 leader, in collaboration with the leaders of others WP, supports the quality assessment of JA documentation and deliverables and report it as a specific paragraph/chapter in JA deliverables and documentation.

Deliverables and documentation are assessed for quality aspects (e.g. comprehensibility, completeness, etc.) by the WP3 leader, who coordinate the evaluation involving relevant internal and external stakeholders.

Task 3.5: Report of evaluation results to relevant stakeholders

Leader: ISS (subcontracting); **Contributors:** UNIFG/ **Start date:** M18 **End date:** M36

Task description: based on results from evaluation activities, the WP3 leader produces an interim and a final report including all collected information and indicators. Reports is shared with internal and external stakeholders, including the Steering Committee (SC) and the Stakeholders forum. This ensures that quality of JA output is always a top priority to the management bodies.

The final evaluation report is focused on the positive and negative aspects of the impact of the action and the reached aims (as a result of task 3.3); it also evaluates usability and comprehensibility of JA results and deliverables in the target population (as a result of task 3.4).

Task 3.6: Evaluation of the JA impact in Europe

Leader: ISS (subcontracting) ; **Contributors:** UNIFG / **Start date:** M18 **End date:** M36

Task description: A final evaluation of the JA impact in Europe is performed (M36). The first positive results (if any) are assessed, as well as possible barriers/room for improvements.

The impact is evaluated at different levels:

- increase in number of professionals with skills on HAI prevention and AMR;
- availability of guidelines;
- increase in training initiatives for professionals.

According to the actions effectively adopted and the goals achieved by the Joint Action, also the following items are assessed:

- decrease in HAI prevalence rate in MS participating to JA;
- decrease in prescriptions/consumption of antibiotics (overall and of one or more classes);
- lower rate of AMR in human and veterinary areas for one or more target microorganism;
- To reach the objectives two main actions are adopted:
- Questionnaires to national, regional and local authorities as well as to professionals and citizens associations on the main topics of the project; opinions are collected about the first results of the JA;
- EU MS national and subnational web-site consultation for the availability of official data (3).

3.JAMRAI Evaluation Plan

This JAMRAI Evaluation Plan (EP) is a specific objective of Work package (WP) 3 “Evaluation of the project” that is carried out during the whole JAMRAI project (Sept 2017 /Aug 2020)(3).

The EP analyses and describes needs, methods, and envisaged outcomes of the evaluation results of the whole Joint Action and each Work Package task, establishing the most relevant process, output and outcome indicators for each specific objective of the Joint Action.

Furthermore it explains the overall objective of JAMRAI and the dynamics that this Joint Action is trying to reach. It describes the rationale and characteristics of a series of specific indicators for each WP, including sources of information, timelines and responsibilities. It is therefore a complete guide to monitor the progress of JAMRAI in our plans, deliverables and milestones (3,4,5).

In agreement the principles of Europe Commission (EC) and the Organization for Economic Co-operation and Development (OECD) (6,7,8) this EP provides information that are credible and useful and it underpin the following approach:

- Impartiality and independence of the evaluation process from the programming and implementation functions;
- Credibility of the evaluation, through use of appropriately skilled and independent experts and the transparency of the evaluation process, including wide dissemination of results;
- Participation of stakeholders in the evaluation process, to ensure different perspectives and views are taken into account;
- Usefulness of the evaluation findings and recommendations, through timely presentation of relevant, clear and concise information to decision makers.

This EP is a flexible tool compiled with input from all WP leaders, which can be updated on an ongoing basis to reflect program changes and priorities over time.

3.1 Evaluation purpose

The general aim of this EP is to assess whether the JAMRAI project has reached its objectives and whether the outcomes of the project have met the needs of its target groups. This includes an evaluation of the processes necessary to achieve the respective outputs and outcomes. Evaluating the success and quality of JAMRAI includes all actions undertaken to assess the planned implementation of the project, both in terms of whether JAMRAI objectives have been achieved and whether the needs of the stakeholders have been met.

4. Stakeholders engaged in the evaluation process

Relevant stakeholders are engaged in the different phases of the evaluation process to ensure that they are sufficiently included with regards to the purpose, methodology and use of the evaluation results.

We identified different groups of stakeholders for the two evaluation phases:

Progress and results evaluation (Internal evaluation):

- WP leaders
- Roles (in collaboration with WP3): initial planning of the evaluation, commenting on the draft versions of the evaluation plan, feedback on the

design of data collection instruments, data collection, help with interpreting findings, feedback on the evaluation report, dissemination of the results.

- Associated partners
Roles: commenting on the evaluation methods, data collection, user feedback, dissemination of the results.

External Evaluation (Quality Evaluation):

- Institutions at national (e.g. representatives of Ministry of Health, Agriculture, Environment, Research) and regional/local level, Policy-makers, Industries, Patients Association, Healthcare professionals Association, Scientific Societies, European Centre for Disease and Control (ECDC), European Public Health Association (EPHA), International Organizations World Health Organization (WHO) Europe, OECD, Food and Agriculture Organization (FAO)
(The complete list of the stakeholders engaged in the external evaluation is reported in Table 1)
Roles: commenting on evaluation planning, providing feedbacks on the project results, dissemination of the results.

Table 1: List of the stakeholders engaged in the external evaluation of JA Project
Institutional organizations
<ul style="list-style-type: none"> • European Centre for Disease Prevention and Control • World Health Organization • Organization for Economic Co-operation and Development • World Organization for Animal Health • Food and Agriculture Organization of the United Nations • European Food Safety Agency • DG Health and Food Safety - DG SANTE (former Food and Veterinary Office) • World Health Organization - • EJP One Health
Civil Society- Healthcare professionals
<ul style="list-style-type: none"> • European Public Health Alliance • Pharmaceutical Group in the European Union • Health First Europe • International Federation of Medical Students Associations • European Wound Management Association • Standing Committee of European Doctors • Council of European Dentists

<ul style="list-style-type: none"> • European network to promote infection prevention for patient safety • ACdeBMR/World alliance against antibiotic resistance • Joint Programming Initiative on Antimicrobial Resistance (• European Hospital and Healthcare Federation • European Veterinary Practitioners organisation) • European Society of Clinical microbiology and infectious diseases • European Platform for the Responsible Use of Medicines in Animals • Union européenne des médecins omnipraticiens • Federation of European Microbiological Societies • European Medical Students' Association • Federation of Veterinarians of Europe • European Specialist Nurse Organisation
Private Sector - Industry representatives
<ul style="list-style-type: none"> • European Federation of Pharmaceutical Industries and Associations • International Federation of Pharmaceutical Manufacturers • Beam Alliance (Beam Alliance) • MedTech Europe
Private sector - company
<ul style="list-style-type: none"> • Pfizer • Vaccines Europe

5. External and internal risk analysis and contingency planning

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The JA Secretariat (JAS) in collaboration with the Advisory Board (AB) puts in place a risk management plan from the project start. This includes open communication about risk management process during the Kick off meeting, so that it becomes part of the JA's culture and that partners feel comfortable with notifying the WP leader or the Coordinator when a risk occurs.

During the course of the action, project partners and in particular WP leaders are supported by the AC and the Stakeholder Forum in identifying risks, quantifying risks and developing appropriate responses to risk. The JAS is responsible for the maintenance of a Risk Register containing a comprehensive listing of all risks identified during the course of the project and the manner in which they are being addressed. This register is reviewed periodically during AB meetings, as part of the project risk management process.

Table 2 describes the critical risks already identified in relation to the action implementation and the associated measures that are taken to mitigate them:

Table 2 Identified risks of the project and contingency planning				
WP/ Task	Identified Risk	Likeli- hood	Impact	Contingency planning
All WPs	Overspending	low	medium	Appropriate financial control: Reporting throughout project
WP2; WP8	Subcontractor fails to deliver	medium	medium	Contractual agreement with subcontractor to cover implication of non-delivery
All WPs	Partners' commitment declines	medium	low	Efficient internal communication tools and close follow-up by WP leaders
All WPs	Staff turnover	medium	low	Project status meetings at WP level to identify issues on the horizon
WP3 (tasks 3.3 & 3.4)	Different level of understanding and sharing due to heterogeneity in native languages	high	medium	.Adopt English as official language. .Content revision by MS representatives .Evaluation surveys about the understanding of released documentation
WP3 (task 3.3)	Differences in JA partners compliance/collaboration to evaluation activities	medium	high	.Monitoring of the timeline of activities within WP 3. ETs are reviewed by partners involved in the evaluation prior their use. .Reminders are sent to non-respondents. Communication with

				management bodies asking for direct actions on partners.
WP3 (task 3.4)	Lack of essential results/information in the provided documents	low	high	Support by SC and Stakeholders Forum in reviewing documents - Communication with management bodies asking for direct actions on partners.
WP3 (tasks 3.1 & 3.2)	Differences / non homogeneity among indicators adopted by different Work Packages and for evaluation purposes	medium	medium	.Dissemination and review of the EP (at the beginning of the JA) and the ETs (during the whole JA lifetime) provide a common and shared set of measures for indicators. .Revision of the EP/ETs is carried out if necessary to avoid differences among indicators used. .Consultation with SC and Stakeholders Forum on the harmonization of indicators proposed
WP3 (tasks 3.3 & 3.5)	Lack of coordination / synchrony amongst related activities from different WPs	high	high	.Promoting continuous communication among WPs leaders. .Monitoring every six months of the activities with respect to expected results and timelines .Sharing information and data on a common web based platform
WP5	Lack of information on national measures	medium	high	Leader uses its network to verify information from partners of the project

				and double check information received
WP5	No consensus on the priority goals	medium	medium	Leader ensures that all partners are satisfied with priority goals proposed. Delphi process helps to reach consensus
WP5	Link/overlap with WP6 and WP7 (WP5 target group is national policy level. WP6 and WP7 target groups are professionals/local level).	medium	low	We ask WP6 leaders to develop or remark on the HCAI aspects to be developed in the self-assessment tool. Equally we ask WP7 leaders to do this for prudent use aspects.
WP5	Link/overlap with WP4	low	high	Coordination with WP4 and EU agencies/institutions needed to ensure continuity of the actions
WP5	Low engagement in the self- and country-to-country assessments: -Not all MS participate -No involvement of all relevant authorities -Disparity between supervisory bodies	medium	high	Engagement of countries by informing/reporting to the One Health Network on the activities of WP5
WP5	No reporting to the One Health Network	low	medium	Until now, the One Health Network has met only once and it's not clear which is the frequency of the meetings, etc. Contact with EC to ask for frequent, regular meetings of the One Health Network.
WP61.2	Lack of appropriate	low	medium	The hospitals chose the

	monitoring of the implementation of the ICP in the hospitals			core components they perform regarding their priorities and needs, so the hospital managers support is necessary.
WP61.1	The impact of the implementation of this WP depends on the active participation of the partners at local and national level.	low	medium	The scope and the aim of the project must be clarified from the beginning and the partners should be encouraged continuously from the WP leader and the coordinator team
WP6.2	Objectives and tasks for WP 6 might be too ambitious and might run the risk of not being manageable within the time and resources allocated.	medium	high	Actions within this WP focus on supporting implementation and setting realistic goals.
WP6.2	Difficulties in having hospitals joining actions.	low	medium	Good preparatory work and contacts in order to explain the actions and also the added value of these actions
WP6	Time constraints.	medium	high	Realistic time schedule and regularly monitor progress.
WP7 Task7.2	Lack of funding in pilot states	medium	medium	.Restrict participants number .Encourage co-funding by MS
Task7.3	Lack of infrastructure	high	high	Pilot only in countries that can deliver data
WP9 Task 9.1	Disagreement regarding scope of priorities between MS and JPIAMR	medium	low	Define this early in the process to ensure that JPIAMR's mandate is well understood

WP9 Task 9.1	Lack of description of the differences and communalities between the needs for AMR and HCAI.	medium	high	Firmly engage all stakeholders to participate in this mapping
WP9 Task 9.1	Lack of interest to align public health priorities	medium	medium	Engage countries from the start regarding the importance and cost savings potential of alignment
WP9 Task 9.2	Cost of stimulating greater antibiotic innovation can be significant	high	high	Work with DRIVE-AB and AMR Review to understand the counterfactual cost and different methods of financing

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6. Data collection

6.1 Methodology

WP3 working plan for the definition of evaluation indicators is the following one: WP3 sends a proposal of evaluation indicators (both general monitoring indicators and WP specific indicators) to JA coordination and to each WP leader; a period of xx days is given to WP leaders to provide comments and suggestions about the indicators proposed; WP3 corrects the indicators. WP3 monitors the indicators and the criteria for evaluation throughout the project, although it is up to each WP to be responsible for the collection of the data, which is behind each indicator. WP3 carries out the analysis of the data and shares the results of the evaluation with the project coordinators and WPs leaders. WP3 is responsible for a final project assessment document, which should be approved by the Executive Board. More detailed information about each specific indicator is defined in the Annex 1

attached to this document. Each indicator is defined on the basis of the following scheme:

(code) Indicator	WPx number of indicator
Definition	a brief description of the indicator
Justification	reason why this indicator is relevant for the monitoring of JAMRAI
Type of indicator	Type of indicator
Methodology	Qualitative/Quantitative
Data source(s)	which data sources will be checked - if any
Data collection instrument	which data collection instrument will be used in order to data collect - if any
Responsible	which WP is responsible for data collection, together with WP3
Periodicity of data collection	How often will the indicator be measured
Completion criteria	What is the maximum level that the indicator can reach
Acceptance criteria	what is the minimum value of the indicator that is considered enough
Observations	any other relevant aspect

The following aspects are measured, searched and analyzed during the evaluation:

Inside the project:

- evaluation of the objectives achieved per WP and compliance with the objectives (deliverables on time, quality of the deliverables, etc.);
- exchange of information about good practices between WPs, to disseminate among all MS partners (Forums, Communications, Repositories, etc.);
- communication between the Coordination of the project and between WP leaders (knowledge exchange and good practice exchange);
- degree of satisfaction with the actions leading by every WP between their partners;
- degree of satisfaction with the content and organization of the Events, Conference, Meetings, Assemblies.

Output and outcome indicators

EVALUATE:

Strategic actions:

- creation of strategies for AMR and HCAI that have been implemented in regions that did not have them;
- creation of concrete strategies to improve the AMR and HCAI;
- concrete Actions for: Change the Control of AMR and Improve AMR control;
- existence of Public health programs Surveillance and infection control;
- progressive evaluation of changes obtained in AMR.

Assistance Actions:

- Impact Evaluation of good practices of AMR control and HCA;
- cost-benefit assessment;
- existence of Hospital infection control records;
- reduction of antibiotics prescription in Primary Care;
- development of guidelines and materials for professionals for the prescription of antibiotics or rational use of antibiotics (Proper use of antibiotics);
- assessment of Capacity Building activities carried out by different WPs to get conscious co-responsible and committed professionals;
- concrete actions applied on the usefulness of the basics results of the project;
- development of sustainability strategies to be implemented once the project is completed;
- development of a Check list according to the evidence obtained in the different MS of the partners of the project;
- development of systems to measure the appropriate level of bacterial resistance;
- number of agencies of health involved into the exchange of strategies for improves the AMR control.

6.2 Indicators

General and specific indicators for every WP are listed below:

General indicators (common indicators for all the WPs)

WPx.G.1 - Meetings organized by WPx

WPx.G.2 - Percentage of partners attending to the WPx meetings/teleconferences

WPx.G.3 - Percentage of accomplishment of Deliverables

WPx.G.4 - Percentage of accomplishment of Milestones

WPx.G.5 - Satisfaction Of WP Members with WPx

- WPx.G.6 - Percentage of positive monitoring evaluation indicators
- WPx.G.7 - WP deliverables general quality criteria accomplishment
- WPx.G.8 - Satisfaction of WPx leaders with WPx
- WPx.G.9 - Percentage of availability of the documents released by WPx in the web platform

WP1 - Coordination of the project

Task 1.1 : Strategic steering

- WP1.1.1 - Percentage of MS represented in the Advisory committee
- WP1.1.2 - Percentage of identified stakeholders attending the Stakeholders forum meetings

Task 1.2: Contractual and financial management

- WP1.2 - Percentage of budget executed

Task 1.4 : Communication: internal and with CHAFEA / DG SANTE

- WP1.4.1 - Number of web/audio conferences to support WPs
- WP1.4.2 - Percentage of updated reports containing all tasks/actions of the period considered

Other indicators

- WP1.5 - Organization of meetings completed (meeting, agenda and preparatory documents)
- WP1.6 - Percentage of WP1-9 tasks considered in the WP1 Interim Report
- WP1.7 - Percentage of WP1-9 tasks considered in the WP1 Final Report

WP2 - Dissemination of the project

Task 2.1: Design of a dissemination plan

- WP2.1.1 - Development of the Dissemination Plan
- WP2.1.2 - Percentage of partners who consulted the Dissemination Plan
- WP2.1.3 - Development of the Internal Communication Strategy
- WP2.1.4 - Percentage of partners who consulted the Internal Communication Strategy
- WP2.1.5 - Development of dissemination activities reporting-back template

Task 2.2: Communication tool-kit (visual identity)

- WP2.2.1 - Logotype, claim, templates, web banner and Brand Tool Kit
- WP2.2.2 - Leaflet 1 and 2
- WP2.2.3 - E-Newsletters

Task 2.3: Identification of relevant target audiences and their expectations from the JA

WP2.3.1 - Dialogue with stakeholder forum

WP2.3.2 - Distribution lists

Task 2.4: Web site Design: Internal and external use

WP2.4.1 - Development and use of EU-JAMRAI intranet (internal use website)

WP2.4.2 - Work documents and results available in EU-JAMRAI intranet

WP2.4.3 - EU-JAMRAI external website design

WP2.4.4 - Average number of visits to EU-JAMRAI website

WP2.4.5 - Updates to EU-JAMRAI website

WP2.4.6 - Percentage of partners with EU-JAMRAI web banner placed in their websites

Task 2.5: Implement the Dissemination Plan

WP2.5.1 - Development of dissemination contents

WP2.5.2 - Number of events in which EU-JAMRAI is disseminated

WP2.5.3 - WPs leaders editorials related to the JA

WP2.5.4 - Promotional on-line campaign

WP2.5.5 - Development of Layman report

WP2.5.6 - Organization of Final Dissemination Conference

WP2.5.7 - Number of participants in the Final Dissemination Conference

WP2.5.8 - Satisfaction with the Final Dissemination Conference

WP3 - Evaluation of the project

Task 3.1: Definition of the evaluation plan (EP)

WP3.1 - Indicators approved for the evaluation plan

Task 3.2: Development of evaluation tools

WP3.2 - Percentage of web based tools piloted before their use

Task 3.3: Conduct interim and final evaluation

WP3.3.1 - Indicators collected for the interim reports

WP3.3.2 - Indicators collected for the final report

Task 3.4: Quality Assessment

WP3.4.1 - Percentage of responders to General Meetings evaluation surveys

WP3.4.2 - Percentage of institutions represented by participants attending the meeting

WP3.4.3 - Percentage of MS represented by participants attending the meetings

WP3.4.4 - Satisfaction with the meetings

WP3.4.5 - Comprehensiveness and accessibility of contents of deliverables released

Task 3.5: Report of evaluation results to relevant stakeholders

WP3.5.1 - Percentage of Stakeholders who received Evaluation results

WP3.5.2 - Results evaluation by stakeholders

Task 3.6 : Evaluation of the JA impact in Europe

WP3.6.1 - Number of new training initiatives developed

WP4 - Integration in National Policies and sustainability

4.1.1: Identify outputs from the JA which will should be disseminated and integrated into national strategies for control of AMR and HCAI

WP4.1.1.1 - Survey on MS priorities and expected JA outputs among stakeholders (response rate)

WP4.1.1.2 - Availability of the draft version of the Integration and Sustainability Plan on the website

4.1.2. Produce a sustainability plan

WP4.1.2.1 - Workshop on Sustainability Plan (survey response rate)

WP4.1.2.2 - Workshop on Sustainability Plan (MS represented)

WP4.1.2.3 - Workshop on Sustainability Plan (degree of satisfaction)

Task 4.2: Integrating preventive strategies within national policies

WP4.2 - Policy briefs endorsed by national competent authorities

Task 4.3: Fostering sustainability

WP4.3 - Percentage of JA MS represented by institutions or professional societies involved in the development of recommendations and practice guidelines.

WP5 - Implementation of One Health national strategies and National Action Plans for AMR

Task 5.1: Mapping and self-assessment of National Action Plans and strategies

WP5.1 - Development of mapping and self-assessment of the NAP

Task 5.2: Country to country assessment

WP5.2 - Country to country assessment

Task 5.3: Strengthening supervision

WP5.3 - Strengthening supervision

WP6 - Integration in National Policies and sustainability

Task 6.1.1. Determine the necessary institutional structures and resources for the implementation of infection control programs and promote adequate hospital organization, management and structure for the prevention of HCAs, according to the EU Action Plan

WP6.1.1.1 - Survey on the key components of an infection control program

WP6.1.1.2 - Review of the guidelines for the implementation of ICPs based on the results of the survey

WP6.1.1.3 - Cost-benefit evaluation for the development and implementation of an infection control program

Task 6.1.2: Incorporation of infection control programs to clinical practice for the improvement of health professionals' compliance with infection control routine using the institutional behaviour change as a tool to accomplish it

WP6.1.2.1 - Survey of the infection control policies at hospital level

WP6.1.2.2 - Framework for implementing an infection control program

WP6.1.2.3 - Pilot testing of the Universal Infection Control Framework (UICF) in European hospitals

Task 6.1.3: Development of tools for increasing awareness and improving the training of health professionals in infection control and prevention

WP6.1.3 - Development of tools for increasing awareness and improving the training of health professionals in infection control and prevention

Task 6.2.1. Introduce evidence-based implementation model

WP6.2.1 - Introduce evidence-based implementation model

Task 6.2.2: Promote that similar working routines are implemented in non-EU countries in Europe

WP6.2.2 - Promote that similar working routines are implemented in non-EU countries in Europe

WP7 - Appropriate use of antimicrobials in human and animals

Task 7.1: Identify and review existing guidelines, tools and importantly, implementation methods for antibiotic stewardship by level-of-care (hospital, long-term care facility and community setting) and in food and companion animals and to summarize available information on the ECDC website

WP7.1 - Identify and review existing guidelines, tools and importantly, implementation methods for antibiotic stewardship by level-of-care (hospital, long-term care facility and community setting)

WP7.1.2 - Questionnaire development in Animal Health

Task7.2: Workshop involving all the registered partners to discuss models of implementation

WP7.2.1 - Workshop to discuss models of implementation.

WP7.2.2 - Participants satisfaction with the workshop

Task 7.3: Qualitative evaluation of the level of implementation and acceptance of antibiotic stewardship at different levels of healthcare and in animals, in different country settings. This will focus on identifying and establishing success factors and barriers.

WP7.3 - (Report) Qualitative evaluation of the level of implementation and acceptance of antibiotic stewardship at different levels of healthcare and in animals

Task 7.4: Develop and test near real time surveillance of antimicrobials and multidrug resistant bacteria

Subtask 7.4.1: Surveillance in human medicines - consumption of antimicrobials and AMR

WP7.4.1 - Real-time Surveillance in human medicines - consumption of antimicrobials and AMR

Subtask 7.4.2: Surveillance of AMR in animals

WP7.4.2 - Surveillance of AMR in animals

WP8 - Awareness raising and communication

Task 8.1: Data collection to define best practices in Awareness and Communication Plans

WP8.1.1 - Report about Communication Good Practices in Awareness Campaigns

WP8.1.2 - Pilot study about the theme “antibiotic” in social networks and Internet

Task 8.2: Design and Implementation of Awareness and Communication Plan

WP8.2.1 - Awareness and Communication plan

WP8.2.2 - Percentage of partners who consulted the Awareness and Communication plan

WP8.2.3 - Database of European Science and Health communicators

WP8.2.4 - Training webinar on AMR

WP8.2.5 - Training webinar on AMR (satisfaction of the attendees)

Task 8.3: Tools for Awareness and Communication

WP8.3.1 - Create profiles in Facebook, Twitter and YouTube (VideoBlog)

WP8.3.2 - Number of followers in Facebook, Twitter and YouTube (VideoBlog)

WP8.3.3 - Number of posts/month in the VideoBlog (YouTube)

WP 8.3.4 - Number of post/month in Facebook

WP 8.3.5 - Number of post/month in Twitter

- WP 8.3.6 - Social media promotion actions in the second year
- WP 8.3.7 - Social media promotion actions in the third year
- WP 8.3.8 - European Award (Ex: best articles/video)
- WP 8.3.9 - Competition with students (High school or University)

Task 8.4: Support coordination about World Week and the European Day of Appropriate Use of Antibiotics

- WP8.4.1 - Support coordination about World Week and the European Day of Appropriate Use of Antibiotics
- WP8.4.2 - High level awareness and communication meeting
- WP8.4.3 - Percentage of stakeholders attending the High level awareness and communication meeting (response rate)
- WP8.4.4 - High level awareness and communication meeting (MS represented)
- WP8.4.5 - High level awareness and communication meeting (satisfaction level)

WP9 - Prioritizing and implementing research and innovation for public health needs

Task 9.1: Work with Member States to ensure that national processes for research and innovation priority-setting are grounded in a broad One Health approach and that both Member State research priorities and knowledge gaps are addressed in the development of the update of the JPIAMR SRA

- WP 9.1 - Assist national governments

Task 9.2: Explore and detail European strategies to implement mechanisms to foster antimicrobial innovation and other means to fight against AMR and HCAI

- WP 9.2 - Describe European strategies to foster innovation to fight against AMR and HCAI

Task 9.3: Contribute to ensuring that evidence-informed public health policies and practices related to combatting AMR and HCAI are implemented

- WP 9.3 - Contribute to the implementation of evidence-informed public health policies and practices related to combatting AMR and HCAI

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Annex 1: General and specific indicators for each WP

General indicators for all WPs

(code) Indicator	WPx.G.1_ Meetings organized by WPx
Definition	Number of face-to-face/TC meetings organized by WPx
Justification	Monitoring WP internal coordination
Type of indicator	Process
Methodology	Quantitative
Data source(s)	WP Leaders (WPL)
Data collection instrument	WPx Meeting minutes
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	More than 6 per year
Acceptance criteria	6 per year
Observations	Either F2F or teleconference

(code) Indicator	WPx.G.2_ Percentage of partners attending to the WPx meetings/teleconferences
Definition	(Number of WPx partners attending each meeting/number of total WPx partners)*100
Justification	Monitoring partners involvement in their own work-package
Type of indicator	Process
Methodology	Quantitative
Data source(s)	WP Leader
Data collection instrument	WPx meetings/teleconferences' minutes
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100% of partners (both associated and collaborating) involved in WPx attending all the meetings
Acceptance criteria	80% of partners (both associated and collaborating) involved
Observations	Either F2F or teleconference

(code) Indicator	WPx.G.3_ Percentage of accomplishment of Deliverables
Definition	(number of Deliverables completed on time/total number of deadlines)*100
Justification	Monitoring WP main activity accomplishment
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Interim and final reports

Data collection instrument	Web platform
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100% of the Deliverables completed on time (maximum of one month of delay accepted on deliverables before M36)
Acceptance criteria	100% of the Deliverables completed and 80% on time (maximum of one month of delay accepted on deliverables before M36)
Observations	Deliverables as foreseen in Grant Agreement (reasonable amendments discussed at the Executive Board at the Kick-off meeting are to be received, presented and considered)

(code) Indicator	WPx.G.4_Percentage of accomplishment of Milestones
Definition	(number of Milestones completed on time/total number of deadlines)*100
Justification	Monitoring WP main activity accomplishment
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Interim and final reports
Data collection instrument	Web platform
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100% of the Milestones completed on time (maximum of one month of delay accepted on milestones before M36)
Acceptance criteria	100% of the Milestones completed and 80% on time (maximum of one month of delay accepted on deliverables before M36)
Observations	Milestones as foreseen in Grant Agreement (reasonable amendments discussed at the Executive Board at the Kick-off meeting are to be received, presented and considered)

(code) Indicator	WPx.G.5_Satisfaction Of WP Members with WPx
Definition	Satisfaction of WP members with organization, information received and feedback of their work
Justification	Monitoring partners satisfaction
Type of indicator	Process
Methodology	Qualitative
Data source(s)	Associated and Collaborating Partners of WPx
Data collection instrument	Satisfaction Survey
Responsible	WP3
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100% satisfied
Acceptance criteria	80% satisfied

Observations	
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(code) Indicator	WPx.G.6_ Percentage of positive monitoring evaluation indicators
Definition	(Indicators obtained)/(Total of indicators agreed) at WPx level
Justification	Checking the correspondence between the original proposal and the final version of the report allows a global accomplishment of the Grant Agreement
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	Mid term evaluation report
Data collection instrument	Monitoring Plan indicators section
Responsible	WPx (WP1)
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100% of indicators obtained in each WP
Acceptance criteria	80% of indicators obtained in each WP
Observations	Low percentages of indicators obtained could compromise the quality of the JA assessment

(code) Indicator	WPx.G.7_ WP deliverables general quality criteria accomplishment
Definition	Number of each WP deliverables no meeting the Guidelines on general quality criteria
Justification	The general quality criteria ara established to enhance the excellence mainly on reporting in the Joint Action. The first step is to define them, but the most relevant is to follow them.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Joint Action deliverables
Data collection instrument	General Quality Criteria Report and each deliverable
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	All WP deliverables strictly meet the Guidelines.
Acceptance criteria	All but one of the deliverables meet the Guidelines
Observations	

(code) Indicator	WPx.G.8_ Satisfaction of WPx leaders with WPx
Definition	Satisfaction of WPx leaders with WPx
Justification	Monitoring leaders satisfaction
Type of indicator	Process
Methodology	Quantitative
Data source(s)	WPx leaders

Data collection instrument	Satisfaction survey (among WPx leaders).
Responsible	WPx
Periodicity of data collection	annual (M12, M24, M36)
Completion criteria	100%
Acceptance criteria	80%
Observations	

(code) Indicator	WPx.G.9_ Percentage of availability of the documents released by WPx in the web platform
Definition	Percentage of availability of the documents released by WPx in the web platform
Justification	Monitoring the availability of the documents in the web platform
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Documents
Data collection instrument	JA Website
Responsible	WPx
Periodicity of data collection	Annual (M12, M24, M36)
Completion criteria	100%
Acceptance criteria	100%
Observations	

WP1 - Coordination of the project

Task 1.1 : Strategic steering

(code) Indicator	WP1.1.1_ Percentage of MS represented in the Advisory committee
Definition	Percentage of Member States involved in the JA represented in the Advisory Committee.
Justification	The Advisory Committee is composed of one representative (competent authority) from each Member State.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	List of members of the Advisory committee
Data collection instrument	WP1 minutes
Responsible	WP1

Periodicity of data collection	Once (M2)
Completion criteria	100%
Acceptance criteria	100%
Observations	

(code) Indicator	WP1.1.2_ Percentage of identified stakeholders attending the Stakeholders forum meetings
Definition	Percentage of identified stakeholders attending the Stakeholders forum meetings (stakeholders are identified at the start of the project).
Justification	The Stakeholders Forum is composed by external experts from international organizations (such as WHO, ECDC, OECD, EFSA, OIE, FAO), representatives from industries, healthcare professionals' organisations and patients' organisations.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Participants to the Stakeholders forum
Data collection instrument	WP1 minutes
Responsible	WP1
Periodicity of data collection	annual
Completion criteria	100%
Acceptance criteria	50%
Observations	

Task 1.2: Contractual and financial management

(code) Indicator	WP1.2_ Percentage of budget executed
Definition	Percentage of budget executed
Justification	the Joint Action Secretariat (JAS) coordinates the contractual and financial management.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Financial reports
Data collection instrument	Management and financial handbooks, WP1 minutes
Responsible	WP1
Periodicity of data collection	M18, M36
Completion criteria	To be defined
Acceptance criteria	To be defined
Observations	

Task 1.3 : Periodic reporting (covered by General indicators)

Task 1.4 : Communication: internal and with CHAFAEA / DG SANTE

(code) Indicator	WP1.4.1_ Number of web/audio conferences to support WPs
Definition	number of web/audio conferences to support WPs
Justification	Regular web/audio conferences to support WP collaboration and interactions.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of web/audio conferences
Data collection instrument	WP1 minutes
Responsible	WP1
Periodicity of data collection	M1-M36
Completion criteria	monthly with each WP
Acceptance criteria	6/year with each WP
Observations	

(code) Indicator	WP1.4.2_ Percentage of updated reports containing all tasks/actions of the period considered
Definition	percentage of updated reports containing all tasks/actions of the period considered
Justification	Every 4 months, activity reports updating all project collaborators on the project activities.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Updated reports
Data collection instrument	Executive Board meetings minutes
Responsible	WP1
Periodicity of data collection	M4, M8, M12, M16, M20, M24, M28, M32, M36
Completion criteria	9/9
Acceptance criteria	9/9
Observations	

Other Indicators

(code) Indicator	WP1.5_ Organization of meetings completed (meeting, agenda and preparatory documents)
Definition	Organization of meetings completed (meeting, agenda and preparatory documents).
Justification	Two months before general meetings, information about dates, venue and preliminary agenda is available.

Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Letter of invitation to the meeting
Data collection instrument	WP1 minutes
Responsible	WP1
Periodicity of data collection	Three times (M10, M22, M34)
Completion criteria	Two months before general meetings, information about dates, venue and preliminary agenda is available.
Acceptance criteria	Two months before general meetings, information about dates and venue is available. One month before general meeting, a preliminary agenda is available.
Observations	

(code) Indicator	WP1.6_ Percentage of WP1-9 tasks considered in the WP1 Interim Report
Definition	Percentage of WP1-9 tasks considered in the WP1 Interim Report
Justification	The project coordinator will provide two interims and a final report, assisted by the JAS
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	List of tasks
Data collection instrument	Interim report
Responsible	WP1
Periodicity of data collection	Once (M18)
Completion criteria	100%
Acceptance criteria	90%
Observations	

(code) Indicator	WP1.7_ Percentage of WP1-9 tasks considered in the WP1 Final Report
Definition	Percentage of WP1-9 tasks considered in the WP1 Final Report
Justification	The project coordinator will provide two interims and a final report, assisted by the JAS
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	List of tasks
Data collection instrument	Final report
Responsible	WP1
Periodicity of data collection	Once (M36)
Completion criteria	100%
Acceptance criteria	90%

Observations	
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WP2 - Dissemination of the project

Task 2.1: Design of a dissemination plan

(code) Indicator	WP2.1.1: Development of the Dissemination Plan
Definition	Preparation of the Dissemination Plan/Strategy
Justification	Strategy to disseminate information about the Joint Action both to general public and stakeholders, as well as to ensure the promotion of the project outcomes and results amongst the targeted audiences.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website and intranet
Responsible	WP2
Periodicity of data collection	Once (M10)
Completion criteria	Dissemination Plan developed and available
Acceptance criteria	Dissemination Plan developed and available
Observations	

(code) Indicator	WP2.1.2: Percentage of partners who consulted the Dissemination Plan
Definition	Percentage of EU-JAMRAI partners that are aware of and have consulted the Dissemination Plan
Justification	In such a large project with 44 partners, the consistency and effectiveness of dissemination requires that everyone is familiar with the plan and following the same strategy
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	Self-reported surveys
Data collection instrument	EU-JAMRAI partners survey
Responsible	WP3
Periodicity of data collection	Twice (M12, M24)
Completion criteria	100% of partners have consulted the Dissemination Plan
Acceptance criteria	80% of partners have consulted the Dissemination Plan
Observations	

(code) Indicator	WP2.1.3: Development of the Internal Communication Strategy
Definition	Preparation of the Internal Communication Strategy
Justification	Strategy to ensure back and forth communication amongst WPs to build on the work coming from all the different WPs within the JA.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI intranet
Responsible	WP2
Periodicity of data collection	Once (M7)
Completion criteria	Internal Communication Strategy developed and available
Acceptance criteria	Internal Communication Strategy developed and available
Observations	

(code) Indicator	WP2.1.4: Percentage of partners who consulted the Internal Communication Strategy
Definition	Percentage of EU-JAMRAI partners that are aware of and have consulted the Internal Communication Strategy
Justification	Effective communication between the different partners and WPs requires that everyone uses the internal communication tools available and follows the rules set up in the internal communication strategy.
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	Self-reported surveys
Data collection instrument	EU-JAMRAI partners survey
Responsible	WP3
Periodicity of data collection	Twice (M8, M20)
Completion criteria	100% of partners have consulted the Internal Communication Strategy
Acceptance criteria	80% of partners have consulted the Dissemination Plan
Observations	

(code) Indicator	WP2.1.5: Development of dissemination activities reporting-back template
Definition	Preparation of a reporting-back template (to be filled by WPs leaders) to advance/inform WP2 leadership about dissemination activities
Justification	Facilitate the planning and promotion of the dissemination activities organized or participated by the different partners
Type of indicator	Outcome
Methodology	Qualitative

Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI intranet and email
Responsible	WP2
Periodicity of data collection	Once (M7)
Completion criteria	Dissemination activities reporting-back template developed and available
Acceptance criteria	Dissemination activities reporting-back template developed and available
Observations	

Task 2.2: Communication tool-kit (visual identity)

(code) Indicator	WP2.2.1: Logotype, claim, templates, web banner and Brand Tool Kit
Definition	Creation of EU-JAMRAI logo, claim/slogan, templates, web banner and Brand Tool Kit with visual identity user guidelines
Justification	A unique and strong brand ensures recognition of EU-JAMRAI by our target audiences. The Brand Tool Kit guidelines ensure that the Joint Action visual identity is presented consistently throughout the EU and the world.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website and intranet
Responsible	WP2
Periodicity of data collection	Once (M6)
Completion criteria	EU-JAMRAI logo, claim/slogan, templates and Brand Tool Kit developed and available
Acceptance criteria	EU-JAMRAI logo, claim/slogan, templates and Brand Tool Kit developed and available
Observations	

(code) Indicator	WP2.2.2 Leaflet 1 and 2
Definition	Development, publication and distribution of at least 2 promotional leaflets for broad public with focus on the promotion of JA objectives and planned activities (first one disseminated at an early stage of the JA to inform people about the project; second one to be issued in the later stages of the JA when the results are more visible)
Justification	Having printed materials focused on EU-JAMRAI objectives and planned activities is essential to promote the JA in meetings, congresses and other AMR relevant activities and events at

	international and local levels.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website and intranet (digital version)
Responsible	WP2
Periodicity of data collection	Twice (M8 and M34)
Completion criteria	EU-JAMRAI leaflets developed and available (both paper and digital version)
Acceptance criteria	EU-JAMRAI leaflets developed and available (both paper and digital version)
Observations	To maximize dissemination of EU-JAMRAI leaflets at national and regional levels, these can be translated by partners in each country

(code) Indicator	WP2.2.3: E-Newsletters
Definition	Digital newsletters announcing Joint Action events, planned activities and results.
Justification	EU-JAMRAI e-newsletters are a major avenue of information dissemination to the Joint Action partners, external stakeholders and all individuals subscribed to the mailing list. The information collected through the subscription to this newsletter will also be very valuable to feed the Joint Action distribution list database.
Type of indicator	Output
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website
Responsible	WP2
Periodicity of data collection	Quarterly since first edition (M6, M9, M12, M15, M18, M21, M24, M27, M30, M33, M36)
Completion criteria	Quarterly newsletters sent to the mailing list
Acceptance criteria	Quarterly newsletters sent to the mailing list
Observations	

Task 2.3: Identification of the relevant target audiences and their expectations from the Joint Action

(code) Indicator	WP2.3.1: Dialogue with stakeholder forum
Definition	Evidence of email exchange, teleconferences and meetings with members of the stakeholder forum
Justification	Dialogue with stakeholders and mapping of relevant organizations is critical for target audiences identification and

	dissemination
Type of indicator	Output
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	Meeting minutes
Responsible	WP2
Periodicity of data collection	Yearly (M12, M24, M36)
Completion criteria	Meetings celebrated with 100% of stakeholders forum members
Acceptance criteria	Meetings celebrated with 80% of stakeholders forum members
Observations	

(code) Indicator	WP2.3.2: Distribution lists
Definition	Database comprising organizations and initiatives relevant to AMR, contacts identified by partners and stakeholders. It includes subscribers to EU-JAMRAI e-newsletters and relevant audiences identified through social media channels
Justification	An extensive contact database is essential to disseminate information about EU-JAMRAI to a broad audience
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	WP2 records
Responsible	WP2
Periodicity of data collection	First version M7
Completion criteria	Database developed and available
Acceptance criteria	Database developed and available
Observations	Database constantly updated throughout the project life

Task 2.4: Website Design: Internal and external use

(code) Indicator	WP2.4.1: Development and use of EU-JAMRAI intranet (internal use website)
Definition	Design of a sharing platform for internal communication and file sharing
Justification	An interactive private file sharing platform where all partners can interact and share relevant information contributes to effective internal communication and ensures safe information storage.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI intranet

instrument	
Responsible	WP2
Periodicity of data collection	Once (M3-M6)
Completion criteria	EU-JAMRAI intranet developed 100% associate partners with access
Acceptance criteria	100% associate partners with access
Observations	

(code) Indicator	WP2.4.2 Work documents and results available in EU-JAMRAI intranet
Definition	Availability of all the Joint Action work documents and results (public and confidential) through EU-JAMRAI intranet
Justification	One of the intranet functionalities is safe information storage
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI intranet
Responsible	WP2
Periodicity of data collection	Throughout the Joint Action
Completion criteria	All Joint Action work documents and results available through EU-JAMRAI intranet
Acceptance criteria	All Joint Action work documents and results available through EU-JAMRAI intranet
Observations	

(code) Indicator	WP2.4.3: EU-JAMRAI external website design
Definition	Design and development of EU-JAMRAI external website
Justification	A properly identified EU-JAMRAI website with open access will be the central tool to communicate outputs and outcomes and disseminate the information to the targeted audiences
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website
Responsible	WP2
Periodicity of data collection	Once (M6)
Completion criteria	EU-JAMRAI external website developed and available
Acceptance criteria	EU-JAMRAI external website developed and available
Observations	

(code) Indicator	WP2.4.4: Average number of visits to EU-JAMRAI website
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Definition	Average number of monthly visits to EU-JAMRAI external website
Justification	Assess the effective use of EU-JAMRAI website by visitors
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	Visits to EU-JAMRAI website
Data collection instrument	EU-JAMRAI website statistics (Google analytics)
Responsible	WP2
Periodicity of data collection	Quarterly data collection Once a year reporting (M12, M24, M36)
Completion criteria	
Acceptance criteria	Average visits should increase with project development
Observations	

(code) Indicator	WP2.4.5: Updates to EU-JAMRAI website
Definition	Number of EU-JAMRAI website updates with activities, events, publications, results and social media interaction among others.
Justification	To assess the updated status and the content production dynamics of EU-JAMRAI website
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	Website back-office
Responsible	WP2
Periodicity of data collection	Quarterly data collection Once a year reporting (M12, M24, M36)
Completion criteria	
Acceptance criteria	At least one monthly content update (social media interaction updates will be done with streaming)
Observations	

(code) Indicator	WP2.4.6: Percentage of partners with EU-JAMRAI web banner placed in their websites
Definition	Percentage of partners that have links to EU-JAMRAI website at their institutional website
Justification	A link to EU-JAMRAI website should be clearly observable at all partners institutional websites to boost the project visibility and lead other websites' visitors to the Joint Action website
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	Direct contact with partners
Responsible	WP2

Periodicity of data collection	Once (M6- M9)
Completion criteria	100% of partners have an institutional link available to EU-JAMRAI website
Acceptance criteria	70% of partners have an institutional link available to EU-JAMRAI website
Observations	

Task 2.5: Implement the Dissemination Plan

(code) Indicator	WP2.5.1: Development of dissemination contents
Definition	Development of dissemination contents (interviews, short clips and promos, infographics, press releases) to update EU-JAMRAI website and/or support identified key events
Justification	Regular content production is essential to update EU-JAMRAI website and/or support events
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	Reporting-back template, EU-JAMRAI external website and social media channels
Responsible	WP2
Periodicity of data collection	Once yearly (M12, M24, M36)
Completion criteria	Dissemination contents developed and available to meet website updates and identified key events dissemination needs
Acceptance criteria	Dissemination contents developed and available to meet website updates and identified key events dissemination needs
Observations	To maximize dissemination of EU-JAMRAI activities at the national and regional level, press releases can be translated and/or adapted by partners in each country

(code) Indicator	WP2.5.2: Number of events in which EU-JAMRAI is disseminated
Definition	Number of events where EU-JAMRAI is disseminated, either through general information or by the presentation of results
Justification	The promotion of target audiences awareness about EU-JAMRAI, at international and local levels, can be achieved by participating in events and presenting general information about the project or results derived from WPs activities
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	Reporting-back template, EU-JAMRAI external website and social media channels
Responsible	WP2
Periodicity of data	Once yearly (M12, M24, M36)

collection	
Completion criteria	Coverage of at least one event in every country represented in EU-JAMRAI
Acceptance criteria	Yearly coverage of at least one-third of countries represented in EU-JAMRAI by associated partners. For the last evaluation, acceptance will correspond to: at least one event in every country represented in JA-CHRODIS by associated partners.
Observations	

(code) Indicator	WP2.5.3: WPs leaders editorials related to the JA
Definition	Number of editorials/articles related to the Joint Action written by WPs leaders
Justification	Publication of editorials/articles related to EU-JAMRAI will increase the visibility of the Joint Action and will give the different WPs the opportunity to show their results
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website
Responsible	WP2
Periodicity of data collection	Once yearly (M12, M24, M36)
Completion criteria	At least one editorial per WP
Acceptance criteria	At least 9 editorials (one per WP)
Observations	

(code) Indicator	WP2.5.4: Promotional on-line campaign
Definition	Promotional online campaign (competition or game, at European level) to attract general public to the website
Justification	A social media campaign will contribute to increase traffic in EU-JAMRAI website and attract younger audiences
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website and social media channels
Responsible	WP2
Periodicity of data collection	Once (M18)
Completion criteria	Promotional online campaign developed
Acceptance criteria	Promotional online campaign developed
Observations	

(code) Indicator	WP2.5.5: Development of Layman report
Definition	Development of a comprehensive information brochure focused

	on project objectives and results with a full overview of the Joint Action outcomes
Justification	A Layman report is a useful reporting tool targeted to non-specialist audience to inform decision makers and non-technical parties
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	WP2 leadership
Data collection instrument	EU-JAMRAI external website
Responsible	WP2
Periodicity of data collection	Once (M33)
Completion criteria	Layman report developed and available
Acceptance criteria	Layman report developed and available
Observations	

(code) Indicator	WP2.5.6: Organization of Final Dissemination Conference
Definition	Organization the Final conference on dissemination
Justification	A final Conference will be organized at the end of the project to disseminate the project results among researchers, clinicians and general practitioners, professional associations, mass media, patient organizations and representatives of the Joint Action partners
Type of indicator	Output
Methodology	Qualitative
Data source(s)	Conference agenda and minutes List of general conference signatures Conference documentation
Data collection instrument	Agenda and minutes
Responsible	WP1 and WP2
Periodicity of data collection	Once (M36)
Completion criteria	Conference to disseminate the Joint Action results organized
Acceptance criteria	Conference to disseminate the Joint Action results organized
Observations	

(code) Indicator	WP2.5.7: Number of participants in the Final Dissemination Conference
Definition	Number of participants in the Final Dissemination Conference
Justification	Involvement of associated partners, policy and decision makers at the European and national levels
Type of indicator	Output
Methodology	Quantitative
Data source(s)	List of Member States representatives who confirmed their attendance List of policy/decision maker and/or stakeholder who

	confirmed their attendance List of general conference signatures
Data collection instrument	List of signatures Conference documentation
Responsible	WP1 and WP2
Periodicity of data collection	Once (M36)
Completion criteria	100% of associated partners have at least 1 representative at the conference 1 policy/decision maker to attend the conference / per every WP leader 100% of Joint Action stakeholders forum have at least 1 representative at the conference
Acceptance criteria	70% of associated partners have at least 1 representative at the conference 70% of WPs leaders have at least one decision maker/policy officer at the conference 70% of Joint Action stakeholders forum have at least 1 representative at the conference
Observations	

(code) Indicator	WP2.5.8: Satisfaction with the Final Dissemination Conference
Definition	Description of evaluation criteria of the results of the Final Dissemination Conference dedicated to disseminate results
Justification	Level of satisfaction expressed by the participants on the Final Dissemination Conference
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	Database with answers of the participants regarding their satisfaction with Final Dissemination Conference
Data collection instrument	Final Dissemination Conference satisfaction questionnaire
Responsible	WP3
Periodicity of data collection	Once (M36)
Completion criteria	Average level of satisfaction with the general conference $\geq 80\%$
Acceptance criteria	Average level of satisfaction with the general conference $\geq 60\%$
Observations	To identify strengths and gaps in the conference concept and agenda

WP3 - Evaluation of the project

Task 3.1: Definition of the evaluation plan (EP)

(code) Indicator	WP3.1 _ Indicators approved for the evaluation plan
Definition	Percentage of indicators approved/proposed in relation to the development of the evaluation plan
Justification	EP, specifying evaluation activities, will be developed by the WP3 leader based on the set of defined indicators and reviewed by collaborating with representatives of all relevant JA WPs
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of indicators elaborated by WP3
Data collection instrument	E-mail (evidence of approval) and phone-calls
Responsible	WP3
Periodicity of data collection	M5
Completion criteria	100%
Acceptance criteria	75%
Observations	

Task 3.2: Development of evaluation tools

(code) Indicator	WP3.2_ Percentage of web based tools piloted before their use
Definition	Percentage of web based tools tested and piloted before their use
Justification	Web based tools are implemented to facilitate data collection and surveys conduction. All ETs will be tested and piloted before their use.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Pilot source
Data collection instrument	Web based tools
Responsible	WP3
Periodicity of data collection	Once (M7)
Completion criteria	100%
Acceptance criteria	100%
Observations	

Task 3.3: Conduct interim and final evaluation

(code) Indicator	WP3.3.1_ Indicators collected for the interim reports
Definition	Indicators collected for the interim reports
Justification	Based on the EP, interim and final evaluation activities will be carried out to monitor the implementation process for WPs

	activities and assessment of achievement of JA specific objectives.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of indicators
Data collection instrument	Interim report
Responsible	WP3
Periodicity of data collection	twice (M12, M24)
Completion criteria	100%
Acceptance criteria	80%
Observations	

(code) Indicator	WP3.3.2_ Indicators collected for the final report
Definition	Indicators collected for the final report
Justification	Based on the EP, interim and final evaluation activities will be carried out to monitor the implementation process for WPs activities and assessment of achievement of JA specific objectives.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of indicators
Data collection instrument	Final report
Responsible	WP3
Periodicity of data collection	once (M36)
Completion criteria	100%
Acceptance criteria	80%
Observations	

Task 3.4: Quality Assessment

(code) Indicator	WP3.4.1_ Percentage of responders to General Meetings evaluation surveys
Definition	Percentage of responders to General Meetings evaluation survey
Justification	Monitoring quality of the meetings.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of responders, list of participants
Data collection instrument	Survey, meeting minutes
Responsible	WP3
Periodicity of data collection	Annual (M4, M13, M25, M36).

Completion criteria	100%
Acceptance criteria	60%
Observations	

(code) Indicator	WP3.4.2_ Percentage of institutions represented by participants attending the meeting
Definition	Percentage of institutions represented by participants attending the meeting
Justification	Monitoring quality of the meetings.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of participants
Data collection instrument	Kick-off meeting minutes
Responsible	WP3
Periodicity of data collection	annual (M4, M13, M25, M36).
Completion criteria	100%
Acceptance criteria	70%
Observations	

(code) Indicator	WP3.4.3_ Percentage of MS represented by participants attending the meetings
Definition	Percentage of MS represented by participants attending the meetings
Justification	Monitoring quality of the meetings.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	list of participants
Data collection instrument	kick-off meeting minutes
Responsible	WP3
Periodicity of data collection	annual (M4, M13, M25, M36).
Completion criteria	100%
Acceptance criteria	70%
Observations	

(code) Indicator	WP3.4.4_ Satisfaction with the meetings
Definition	Satisfaction of JA participants (WP and non-WP members) with the general meetings (items considered: global level of satisfaction, duration of presentations, meeting agenda, information related to the project, information related to the WP, presence of time for discussion, opportunities for participation and sharing).
Justification	Monitoring quality of the meetings.
Type of indicator	Process

Methodology	Quantitative
Data source(s)	Participants
Data collection instrument	Survey
Responsible	WP3
Periodicity of data collection	annual (M4, M13, M25, M36).
Completion criteria	100% satisfied
Acceptance criteria	67% satisfied
Observations	

(code) Indicator	WP3.4.5_ Comprehensiveness and accessibility of contents of deliverables released
Definition	Comprehensiveness and accessibility of contents of deliverables released (e.g. clarity and realistic nature of conclusion and proposal)
Justification	Deliverables and documentation will be assessed for quality aspects (e.g. comprehensibility, completeness, accessibility, etc.) by stakeholders.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Relevant stakeholders
Data collection instrument	Survey
Responsible	WP3
Periodicity of data collection	M1-M36
Completion criteria	100%
Acceptance criteria	70%
Observations	

Task 3.5: Report of evaluation results to relevant stakeholders

(code) Indicator	WP3.5.1_ Percentage of Stakeholders who received Evaluation results
Definition	Percentage of Stakeholders who received Evaluation results
Justification	Interim and final reports will be shared with internal and external stakeholders, including the Steering Committee and the Stakeholders forum.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of recipients
Data collection instrument	WP3 minutes
Responsible	WP3
Periodicity of data collection	M12, M24, M36

Completion criteria	100%
Acceptance criteria	100%
Observations	

(code) Indicator	WP3.5.2_ Results evaluation by stakeholders
Definition	Results evaluation by stakeholders (results have been received, understood and found relevant).
Justification	Interim and final reports will be shared with internal and external stakeholders, including the Steering Committee and the Stakeholders forum.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Relevant stakeholders
Data collection instrument	Survey
Responsible	WP3
Periodicity of data collection	M12, M24, M36
Completion criteria	100%
Acceptance criteria	100%
Observations	

Task 3.6 : Evaluation of the JA impact in Europe

(code) Indicator	WP3.6.1_ Number of new training initiatives developed
Definition	number of new training initiatives developed
Justification	A final evaluation of the JA impact in Europe will be performed (M36). The impact will be evaluated at different levels.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Relevant stakeholders
Data collection instrument	Questionnaires
Responsible	WP3
Periodicity of data collection	Once (M36)
Completion criteria	To be defined
Acceptance criteria	To be defined
Observations	

WP4 - Integration in National Policies and sustainability

4.1.1: Identify outputs from the JA which should be disseminated and integrated into national strategies for control of AMR and HCAI

(code) Indicator	WP4.1.1.1_ Survey on MS priorities and expected JA outputs among stakeholders (response rate)
Definition	survey on MS priorities and expected JA outputs among stakeholders (response rate)
Justification	An analysis of MS priorities and expected JA outputs (with regard to prevention and control of AMR and HCAI) will be performed through a survey among Stakeholders and competent authorities.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of responders (identified stakeholders and competent authorities).
Data collection instrument	Survey
Responsible	WP4
Periodicity of data collection	M12
Completion criteria	100%
Acceptance criteria	50%
Observations	

(code) Indicator	WP4.1.1.2_ Availability of the draft version of the Integration and Sustainability Plan on the website
Definition	availability of the draft version of the Integration and Sustainability Plan on the website
Justification	A draft version of the Integration and Sustainability Plan will be available on JA website for all JA partners to comment and provide input on the draft plan.
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Document
Data collection instrument	JA Website
Responsible	WP4 + WP2
Periodicity of data collection	M30
Completion criteria	Availability by M30
Acceptance criteria	Availability by M30
Observations	

4.1.2. Produce a sustainability plan

(code) Indicator	WP4.1.2.1_ Workshop on Sustainability Plan (survey response rate)
Definition	Workshop on Sustainability Plan (survey response rate)
Justification	A workshop will be organised to consolidate the recommendations included in the plan, and obtain commitment of MS on adopting the plan.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of responders
Data collection instrument	Survey
Responsible	WP4
Periodicity of data collection	M24
Completion criteria	100%
Acceptance criteria	70%
Observations	

(code) Indicator	WP4.1.2.2_ Workshop on Sustainability Plan (MS represented)
Definition	Number of MS represented in the Workshop
Justification	A workshop will be organised to consolidate the recommendations included in the plan, and obtain commitment of MS on adopting the plan.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of participants to the Workshop
Data collection instrument	WP4 minutes
Responsible	WP4
Periodicity of data collection	M24
Completion criteria	100%
Acceptance criteria	70%
Observations	

(code) Indicator	WP4.1.2.3_ Workshop on Sustainability Plan (degree of satisfaction)
Definition	Degree of satisfaction of the participants with the Workshop
Justification	A workshop will be organised to consolidate the recommendations included in the plan, and obtain commitment of MS on adopting the plan.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Participants to the Workshop
Data collection instrument	Satisfaction survey
Responsible	WP4

Periodicity of data collection	M24
Completion criteria	100%
Acceptance criteria	70%
Observations	

Task 4.2: Integrating preventive strategies within national policies

(code) Indicator	WP4.2_ Policy briefs endorsed by national competent authorities
Definition	Percentage of MS with at least 1 example of preventive strategies integration submitted within the briefs
Justification	Policy briefs will be used for dissemination to competent authorities. Indicators suggested for this task include the number of policy briefs endorsed by national competent authorities
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Policy Brief
Data collection instrument	Appreciation of the policy briefs by the MS
Responsible	WP4
Periodicity of data collection	M30-M36
Completion criteria	100%
Acceptance criteria	70%
Observations	

Task 4.3: Fostering sustainability

(code) Indicator	WP4.3_ Percentage of JA MS represented by institutions or professional societies involved in the development of recommendations and practice guidelines.
Definition	Percentage of JA MS represented by institutions or professional societies involved in the development of recommendations and practice guidelines.
Justification	Depending on the actions selected in 4.1.1, recommendations or practice guidelines will be elaborated. These will entail soliciting either institutions or professional societies. The guidelines will propose indicators allowing follow-up of progresses made toward reaching the objectives set up in the recommendations.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of institutions and professional societies involved.
Data collection	WP4 minutes

instrument	
Responsible	WP4
Periodicity of data collection	M36
Completion criteria	100%
Acceptance criteria	60%
Observations	

WP5 - Implementation of One Health national strategies and National Action Plans for AMR

Task 5.1: Mapping and self-assessment of National Action Plans and strategies

(code) Indicator	WP 5.1_ Development of mapping and self-assessment of the NAP
Definition	Development of mapping and self-assessment of the NAP
Justification	The mapping will be developed by the participant countries (at least one representative of each WP5 participating country) and will be based on publicly available information (e.g. internet site of ECDC, European Commission, Member State) and on direct information collected by the competent authorities in the MSs. Develop a tool for the self-assessment of national strategies and NAP, including the One Health approach with the assistance of collaborating stakeholders
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Internet site of ECDC, European Commission, Member State; Working groups, tele or video conferences, Workshop
Data collection instrument	Tool to be developed. D5.1. Summary of the questionnaire Meetings minutes (MS 5.1)
Responsible	VWS (NL)
Periodicity of data collection	M1-M12
Completion criteria	Participation of at least one representative of each WP5 participating country
Acceptance criteria	Participation of all the countries participating in WP5
Observations	.

Task 5.2: Country to country assessment

(code) Indicator	WP 5.2_ Country to country assessment
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Definition	Country to country assessment
Justification	The country-to-country assessment will allow representatives of one or several WP5 participating countries to evaluate each other's NAPs and One Health strategies, reflect about policy options and provide recommendations to support countries on the development and implementation of the NAP and the measures taken.
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Tool for assessment. Workshop (M18). Video or teleconferences
Data collection instrument	Summary of country-to-country assessment (D5.1) Workshop minutes (M18)
Responsible	VWS (NL)
Periodicity of data collection	M4-M36
Completion criteria	Performance of 3 pilot "country-to-country" assessments Perform "country-to-country" assessments for the other countries in the WP
Acceptance criteria	3 pilot assessment. At least 70% of the other countries in the WP assessed
Observations	

Task 5.3: Strengthening supervision

(code) Indicator	WP 5.3_ Strenghtening supervision
Definition	Strenghtening supervision
Justification	Control activities (supervision, inspection) and enforcement by the competent authority or a (delegated) supervisory body (including professional associations), provides information about the level of implementation of national policies, the level of compliance with legislation and the adherence to guidelines and recommendations. Furthermore, it is a tool to assess the execution of the NAP, to identify areas where action or improvement is needed, to assess the reasons why compliance is not met and may help parties to comply or better abide by existing rules (legislation, guidelines, recommendations).
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Deliverable 5.3
Data collection instrument	Report on white spots and shortcomings in the implementation of national strategies and discuss possible solutions and recommendations and pereparation to present to the One Health Network (D 5.3)
Responsible	VWS (NL)
Periodicity of data collection	M2-M36
Completion criteria	Set up a voluntary network of national supervisory bodies in

	Europe. Report (D 5.3).
Acceptance criteria	Task completed.
Observations	

WP6 - Integration in National Policies and sustainability

Task 6.1.1: Determine the necessary institutional structures and resources for the implementation of infection control programs and promote adequate hospital organization, management and structure for the prevention of HCAs, according to the EU Action Plan

(code) Indicator	WP6.1.1.1_ Survey on the key components of an infection control program
Definition	Survey on the key components of an infection control program (response rate)
Justification	The aim of an extensive survey is to have the clearest picture of the reality associated with the capability of each country to implement ICP policies.
Type of indicator	Process/Outcome
Methodology	Qualitative/Quantitative
Data source(s)	The questionnaire will be disseminated to all EU countries and will address public health organizations, relevant national scientific committees, hospital Infection Control Committees and hospital managers.
Data collection instrument	Survey A
Responsible	WP.6.1
Periodicity of data collection	M1-M8 single measurement
Completion criteria	All the EU members of the consortium of the project and if it is possible the rest of the European members even if they do not participate in the project.
Acceptance criteria	80% of the partners of the WP 6.1.1
Observations	

(code) Indicator	WP6.1.1.2_ Review of the guidelines for the implementation of ICPs based on the results of the survey
Definition	Report of the Review of the guidelines for the implementation of ICPs
Justification	Improvements in HCAs management should be driven by an evidence-based practice. A successful ICP should be informing by a sound review of guidelines and existing literature, and be

	aligned with WHO and EU action plans.
Type of indicator	Process
Methodology	Qualitative
Data source(s)	Internet; Institutional and corporative website, scientific databases, etc.
Data collection instrument	Review of the guidelines Report
Responsible	WP6.1
Periodicity of data collection	M9-M13
Completion criteria	A full report of the reviewing process is provided, including an executive synthesis and suggestions/recommendations for translation into practice (applicability)
Acceptance criteria	At least At least WHO and ECDC guidelines reviewing.
Observations	

(code) Indicator	WP6.1.1.3_ Cost-benefit evaluation for the development and implementation of an infection control program
Definition	Report of the Cost-benefit evaluation for the development and implementation of an infection control program
Justification	Intensive efforts for controlling AMR and HCAs are costly and the cost-effectiveness of these efforts at the hospital or national level has not been defined. The aim is to assess the implementation of an infection control program within the specific financial circumstances of each country so that the data produced can be totally comprehensible and usable by professionals, who are mainly hospital administrators
Type of indicator	Outcome
Methodology	Quantitative/Qualitative
Data source(s)	Internet; Institutional and corporative website, or internal registers of the Institution.
Data collection instrument	Cost-benefit evaluation Report
Responsible	WP6.1
Periodicity of data collection	M10-M36
Completion criteria	A full report of the cost-benefit evaluation is provided, including an executive summary of methods and results by All the partners participated in this task.
Acceptance criteria	At least a report of the cost-benefit evaluation all the partners participated in this task.
Observations	

Task 6.1.2: Incorporation of infection control programs to clinical practice for the improvement of health professionals' compliance with infection control routine using the institutional behaviour change as a tool to accomplish it

(code) Indicator	WP6.1.2.1_ Survey on infection control policies at hospital level
Definition	Number of participants that answered surveys of the infection control policies at hospital level and report of the description of the situation.
Justification	The aim of this survey is to examine and analyze barriers (attitudes, level of training, lack of awareness, etc.) to an effective implementation of an infection control program in clinical reality, which are mainly linked to the institutional policy and organizational behavior.
Type of indicator	Process/Outcome
Methodology	Qualitative/Quantitative
Data source(s)	A questionnaire will be disseminated to the participating EU countries and will be conducted through interviews of hospital administrations, Infection Control Committees, clinical department leaders, doctors and nurses at European level. The results of the survey will be evaluated at national and European level.
Data collection instrument	Survey B
Responsible	WP.6.1
Periodicity of data collection	M1-M9
Completion criteria	All the EU members of the consortium of the project and if it is possible the rest of the European members even if they do not participate in the project.
Acceptance criteria	80% of the partners of the WP 6.1.2
Observations	Is important to clarify who answer the surveys, who made the translation of the survey, and if they must be answered a certain minimum of answers. Number of surveys successfully applied. Partners should consider the maximum number of possible surveys accounting for a representative selection of them. (Aspect commented with the partners in GA).

(code) Indicator	WP6.1.2.2_ Framework for implementing an infection control program
Definition	Development of a Framework for implementing an infection control program
Justification	A conceptual framework depicting components of an infection control program will be a tool for widespread adaptation and implementation in local context. A framework with specific roles, priorities and necessary interventions for implementing an infection control program (Universal Infection Control Framework -UICF) in healthcare facilities will be based on the results of the two first ongoing tasks and feedback from governments, public health organizations, scientific committees and health professionals.
Type of indicator	Process
Methodology	Qualitative

Data source(s)	Governments, public health organizations, scientific committees and health professionals
Data collection instrument	Previous surveys
Responsible	WP.6.1
Periodicity of data collection	M9-M36
Completion criteria	80% of the partners of this task who participated in the development of the UFW
Acceptance criteria	At least At least the 80% of the participating countries in this task.
Observations	

(code) Indicator	WP6.1.2.3_ Pilot testing of the Universal Infection Control Framework (UICF) in European hospitals
Definition	Number of Pilot testing of the Universal Infection Control Framework (UICF) in European hospitals
Justification	The aim of this testing is to estimate its impact on routine clinical practice and the behavioral change of clinicians on infection control. A limited number of healthcare facilities (at least two healthcare facilities) will be selected from partners to participate for a year in the pilot framework implementation study.
Type of indicator	Process/Outcome
Methodology	Qualitative/Quantitative
Data source(s)	European Hospitals Of partners in this task
Data collection instrument	Survey
Responsible	WP.6.1
Periodicity of data collection	M14-M32
Completion criteria	70% of the participating countries in this task implementation
Acceptance criteria	At least at least the 70% of the participating countries in this task
Observations	

Task 6.1.3: Development of tools, for increasing awareness and improving the training of health professionals in infection control and prevention

(code) Indicator	WP6.1.3_ Development of tools for increasing awareness and improving the training of health professionals in infection control and prevention.
Definition	Number of tools for increasing awareness and improving the training of health professionals in infection control and prevention.
Justification	Develop tools based on the results of the previous surveys on supporting the framework of hospital administrations and ICs regarding the implementation of an ICP and improving HCWs

	compliance with infectious control measures.
Type of indicator	Process/Outcomes
Methodology	Qualitative/Quantitative
Data source(s)	Previous report of the Surveys for increasing awareness and improving the training of health professionals in infection control and prevention
Data collection instrument	Survey
Responsible	WP 6.1
Periodicity of data collection	M9-M36
Completion criteria	80% of the countries (partners in this task) which participated in the development of the training tools
Acceptance criteria	80% of the participating countries in this task which introduced the training tools
Observations	

6.2.1. Introduce evidence-based implementation model

(code) Indicator	WP6.2.1_ Introduce evidence-based implementation model
Definition	Report of evidence-based implementation model (focus on CAUTI)
Justification	Implement existing policies and evidence-based guidelines on CAUTI with the aim to produce routines that can be implemented nationally.
Type of indicator	Process
Methodology	Qualitative
Data source(s)	National/regional/hospital levels
Data collection instrument	Dialog/report from country team leaders of the participating countries
Responsible	WP6
Periodicity of data collection	M1-M36
Completion criteria	100 % of the EU members of the project have introduced evidence-based implementation model
Acceptance criteria	At least 50% of the EU members of the project have introduced the evidence-based implementation model at hospital level.
Observations	

Task 6.2.2: Promote that similar working routines are implemented in non-EU countries in Europe

(code) Indicator	WP6.2.2_ Promote that similar working routines are implemented in non-EU countries in Europe
Definition	Number of non-EU countries (in Europe) where similar working routines have been implemented

Justification	Engage European countries, other than MS, Norway and Iceland by involving existing and well established networks of professionals. The goal is to promote that the same guidelines and methods are implemented throughout Europe. An implicit part of the chosen method is capacity-building, where the participating organizations may be strengthened through education, by independently adapting published guidelines and by practical improvement work.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	National/regional/hospital levels
Data collection instrument	Dialog/report from country team leaders of the participating countries
Responsible	WP6
Periodicity of data collection	M1-M36
Completion criteria	More than 2 Non-EU countries in the project have introduced evidence-based implementation model, either on hospital level or in a “light-track” participation.
Acceptance criteria	At least 2 Non-EU countries in the project have introduced evidence-based implementation model, either on hospital level or in “light-track” participation.
Observations	

WP7 - Appropriate use of antimicrobials in human and animals

Task 7.1: Identify and review existing guidelines, tools and importantly, implementation methods for antibiotic stewardship by level-of-care (hospital, long-term care facility and community setting) and in food and companion animals and to summarize available information on the ECDC website.

(code) Indicator	WP7.1.1_ Identify existing guidelines, implementation methods and tools for antibiotic stewardship by level-of-care (hospital, long-term care facility and community setting)
Definition	Compile list of guidelines, implementation methods and tools for antibiotic stewardship by level-of-care
Justification	The aim will be to update and expand the information available on the ECDC/Joint Action website to include information on existing guidelines, implementation methodology and work at different levels of the healthcare system. This will enable countries/regions/institutions to find implementation methods appropriate for their setting.
Type of indicator	Output

Methodology	Qualitative
Data source(s)	Results from the electronic survey and revision of the material from partners, ECDC, EMA, published literature of other actors.
Data collection instrument	Electronic survey Literature review and input from partners
Responsible	WP7
Periodicity of data collection	M11(August 2018)
Completion criteria	Upload of the identified information on available guidelines and implementation strategies, structured by level of healthcare
Acceptance criteria	Upload of the identified information of the 80% of the members of the WP task
Observations	

(code) Indicator	WP7.1.2_ Questionnaire development in Animal Health
Definition	Development of a questionnaire to identify the most useful guidelines and tools to decrease AMR and antibiotic consumption in Animal Health and identify the gaps throughout European countries.
Justification	The aim will be to identify and publish a list of guidelines and tools useful to decrease AMR and antibiotic consumption
Type of indicator	Output
Methodology	Quantitative
Data source(s)	EU-JAMRAI web
Data collection instrument	Electronic survey
Responsible	WP7
Periodicity of data collection	M11
Completion criteria	Questionnaire document developed and available
Acceptance criteria	The contribution at least of the 80% of the animal health-related members of the WP task for the questionnaire developed
Observations	

Task7.2: Workshop involving all the registered partners to discuss models of implementation.

(code) Indicator	WP7.2.1_ Workshop to discuss models of implementation
Definition	Workshop to discuss models of implementation based on the results of task 7.1
Justification	The workshop aims to discuss the results of task 7.1 and frame them such that they can be used as tools by interested parties in the future.
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Task 7.1

Data collection instrument	Agenda and minutes
Responsible	WP7
Periodicity of data collection	M15 (November 2018)
Completion criteria	Workshop organized
Acceptance criteria	Workshop organized
Observations	

(code) Indicator	WP7.2.2_ Participants satisfaction with the workshop
Definition	Participants satisfaction with the workshop
Justification	Organize workshop to share experiences between countries and comment on expert group's findings, with a focus on barriers for implementation.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Participants
Data collection instrument	Satisfaction survey
Responsible	WP3
Periodicity of data collection	Once
Completion criteria	100%
Acceptance criteria	70%
Observations	

Task 7.3: Qualitative evaluation of the level of implementation and acceptance of antibiotic stewardship at different levels of healthcare and in animals, in different country settings. This will focus on identifying and establishing success factors and barriers.

(code) Indicator	WP7.3_ Qualitative evaluation of the level of implementation and acceptance of antibiotic stewardship at different levels of healthcare and in animals.
Definition	(Report) Qualitative evaluation of the level of implementation and acceptance of antibiotic stewardship at different levels of healthcare and in animals
Justification	Collate information about attitudes to stewardship methodologies and campaigns in order to determine both factors for success and barriers to acceptance.
Type of indicator	Outcome
Methodology	Qualitative/
Data source(s)	Partners
Data collection instrument	Questionnaire/Interviews
Responsible	WP7
Periodicity of data	M2-M36

collection	
Completion criteria	Report developed and made available.
Acceptance criteria	Report developed available
Observations	

Task 7.4: Develop and test near real time surveillance of antimicrobials and MDR bacteria

Sub-task 7.4.1. Surveillance in human medicines - consumption of antimicrobials and AMR

(code) Indicator	WP7.4.1_ Real-time Surveillance in human medicines - consumption of antimicrobials and AMR
Definition	Participation of partners of this task in the real-time surveillance in human medicines pilot study
Justification	Current surveillance networks are informative and concise. However, there is a long delay in the data reported and some countries do not have data. Therefore, there is a need for reinforcing current surveillance systems. Surveillance networks need to be adapted to work in conjunction to provide a simple surveillance system of antibiotic use and resistance. This subject is essential to guide the fight against the antimicrobial resistance (AMR) and to improve the results by means of feedback and benchmarking. In addition, this system must work and data must be available in a shorter time-lag than present alternatives.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	Individualized records for piloting
Data collection instrument	Frameworks of Individualized records for piloting
Responsible	WP7
Periodicity of data collection	M2-M36
Completion criteria	100 % of the partners of the project participate to the Pilot.
Acceptance criteria	At least 70% of partners of the project participate to the Pilot.
Observations	

Subtask 7.4.2. Surveillance of AMR in animals

(code) Indicator	WP7.4.2 Surveillance of AMR in animals
Definition	Establishment of a network for surveillance of AMR in animals
Justification	AMR surveillance in animals will be conducted to evaluate the correlation between AMR spread in humans and animals. Thus, antimicrobial-resistant bacteria that will be surveyed will be mainly the same in a One Health strategy.

Type of indicator	Outcome
Methodology	Qualitative/Quantitative
Data source(s)	Individualized records for piloting
Data collection instrument	Frameworks of Individualized records for piloting
Responsible	WP7
Periodicity of data collection	M2-M36
Completion criteria	100 % of the partners of the WP task participate to the Pilot.
Acceptance criteria	At least 70% of the partners of the WP task participate to the Pilot.
Observations	

WP8 - Awareness raising and communication

Task 8.1: Data collection to define best practices in Awareness and Communication Plans

(code) Indicator	WP8.1.1_ Report about Communication Good Practices in Awareness Campaigns
Definition	Production of a report about Communication Good Practices in awareness campaigns
Justification	Availability of a report about Communication Good Practices as a guide or reference tool when designing new strategies and offer ideas to MS for building further new awareness campaigns in the future.
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	Report
Data collection instrument	Internet
Responsible	WP8
Periodicity of data collection	M12
Completion criteria	Report available
Acceptance criteria	Report available
Observations	

(code) Indicator	WP8.1.2_ Pilot study about the theme “antibiotic” in social networks and Internet
Definition	Setting up of a Pilot study about the theme “antibiotic” in social networks and Internet
Justification	Findings could determine the best period for launching campaigns in addition to negative attitudes or perceptions that

	should be considered to better address overuse and misuse.
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	Social networks, Internet
Data collection instrument	Web-based tool (pilot study)
Responsible	WP8
Periodicity of data collection	M12, M24
Completion criteria	Pilot study performed
Acceptance criteria	Pilot study performed
Observations	

Task 8.2: Design and Implementation of Awareness and Communication Plan

(code) Indicator	WP8.2.1_ Awareness and Communication plan
Definition	Preparation of the Awareness and Communication plan
Justification	The development of an Awareness and Communication Plan with clear objectives and key messages is necessary to achieve some of the projects objectives.
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	WP8 leadership
Data collection instrument	The plan should be available at the members area (Sharefile)
Responsible	WP8
Periodicity of data collection	M10
Completion criteria	Awareness and Communication plan developed and available
Acceptance criteria	Awareness and Communication plan developed and available
Observations	

(code) Indicator	WP8.2.2_ Percentage of partners who consulted the Awareness and Communication plan
Definition	Percentage of EU-JAMRAI partners that are aware of and have consulted the Awareness plan.
Justification	For an appropriate implementation of the Awareness Plan is necessary that all the partners are aware of the plan and support the dissemination of the different campaigns/activities that will be developed.
Type of indicator	Outcome
Methodology	Quantitative
Data source(s)	Self-reported surveys
Data collection instrument	EU-JAMRAI partners survey
Responsible	WP3
Periodicity of data	Twice (M12, M24)

collection	
Completion criteria	100% of partners have consulted the Awareness Plan
Acceptance criteria	80% of partners have consulted the Awareness Plan
Observations	

(code) Indicator	WP8.2.3_ Database of European Science and Health communicators
Definition	Development of a database with science and health communicators at European level.
Justification	For some of the activities of the project, such as the communication workshop, it will be necessary to have a complete database of health communicators.
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	WP8 leadership
Data collection instrument	WP8 will show WP3 the database built during the project (it cannot be published on the website because of the confidentiality of the data).
Responsible	WP8
Periodicity of data collection	M18, M34
Completion criteria	Health communicators database developed
Acceptance criteria	Health communicators database developed
Observations	

(code) Indicator	WP8.2.4_ Training webinar on AMR
Definition	Training webinar on AMR lead by scientist
Justification	Develop a training webinar on AMR focused on health care professionals and communicators.
Type of indicator	Outcome
Methodology	Qualitative
Data source(s)	WP8
Data collection instrument	Report
Responsible	WP8
Periodicity of data collection	M16
Completion criteria	Webinar organized
Acceptance criteria	Webinar organized
Observations	

(code) Indicator	WP8.2.5_ Training webinar on AMR _ satisfaction of the attendees
Definition	Satisfaction with Training webinar on AMR
Justification	Develop a training webinar on AMR focused on health care professionals and communicators
Type of indicator	Outcome

Methodology	Quantitative
Data source(s)	Participants
Data collection instrument	Satisfaction survey
Responsible	WP3
Periodicity of data collection	After the webinar
Completion criteria	100% satisfied
Acceptance criteria	70% satisfied
Observations	

Task 8.3: Tools for Awareness and Communication

(code) Indicator	WP8.3.1_ Create profiles in Facebook, Twitter and YouTube (VideoBlog)
Definition	Create profiles in the most important social networks (Facebook, Twitter and YouTube)
Justification	It is important to have an active social media profiles to disseminate information and drive interest to other EU-JAMRAI materials and campaigns.
Type of indicator	Process
Methodology	Qualitative
Data source(s)	WP8 leader
Data collection instrument	Social network profiles
Responsible	WP8
Periodicity of data collection	M10
Completion criteria	EU-JAMRAI Facebook, Twitter and YouTube pages are available
Acceptance criteria	EU-JAMRAI Facebook, Twitter and YouTube pages are available
Observations	

(code) Indicator	WP8.3.2_ Number of followers in Facebook, Twitter and YouTube (VideoBlog)
Definition	Number of followers in Facebook, Twitter and YouTube (Video blog)
Justification	Number of follower is a measure of impact on social networks (Facebook, Twitter and YouTube)
Type of indicator	Process
Methodology	Quantitative
Data source(s)	WP8 leader
Data collection instrument	Social network profiles
Responsible	WP8
Periodicity of data collection	M10
Completion criteria	The number of followers in the EU-JAMRAI social networks

	increases during the life of the project (Facebook, Twitter and YouTube pages)
Acceptance criteria	The number of followers in the EU-JAMRAI social networks increases during the life of the project (Facebook, Twitter and YouTube pages)
Observations	

(code) Indicator	WP8.3.3_ Number of posts/month in the VideoBlog
Definition	Number of posts in the Video blog
Justification	Keep the video blog active with new videos from EU-JAMRAI and other videos from strategic AMR actors (stakeholders, partners, etc.)
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Number of posts
Data collection instrument	Blog monitoring
Responsible	WP8
Periodicity of data collection	Every month (since activation). Reports on M12, M24, M36
Completion criteria	1 video/quarterly
Acceptance criteria	1 video/quarterly
Observations	

(code) Indicator	WP 8.3.4_ Number of post/month in Facebook
Definition	Number of post/month in Facebook
Justification	To keep the social networks active is crucial to disseminate information, campaigns and drive interest to EU-JAMRAI outcomes.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Number of post
Data collection instrument	Facebook page monitoring
Responsible	WP8
Periodicity of data collection	Every month (since activation). Reports on M12, M24, M36
Completion criteria	12 post /month
Acceptance criteria	8 post/ month
Observations	

(code) Indicator	WP 8.3.5_ Number of post/month in Twitter
Definition	Number of post/month in Twitter
Justification	To keep the social networks active is crucial to disseminate information, campaigns and drive interest to EU-JAMRAI outcomes.
Type of indicator	Process

Methodology	Quantitative
Data source(s)	Number of post
Data collection instrument	Twitter page monitoring
Responsible	WP8
Periodicity of data collection	Every month (since activation). Reports on M12, M24, M36
Completion criteria	20 post /month
Acceptance criteria	15 post/ month
Observations	

(code) Indicator	WP 8.3.6_ Social media promotion actions in the second year
Definition	Number of social media promotion actions in the second year
Justification	3 social media promotion actions per year will be carried out in the second and third year to attract traffic to our networks and create conversation.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	WP8 leader
Data collection instrument	EU-JAMRAI social networks profiles
Responsible	WP8
Periodicity of data collection	M25
Completion criteria	3
Acceptance criteria	3
Observations	

(code) Indicator	WP 8.3.7_ Social media promotion actions in the third year
Definition	Number of social media promotion actions in the third year
Justification	3 social media promotion actions per year will be carried out in the second and third year to attract traffic to our networks and create conversation.
Type of indicator	Process/Outcome
Methodology	Quantitative
Data source(s)	WP8 leader
Data collection instrument	EU-JAMRAI social networks profiles
Responsible	WP8
Periodicity of data collection	M36
Completion criteria	3
Acceptance criteria	3
Observations	

(code) Indicator	WP 8.3.8_ European Award (Ex: best articles/video)
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Definition	European Award (Ex: best articles/video)
Justification	The organization of competitions at European level will allow reaching some of the target audiences and achieving their engagement with the Joint Action objectives. We will develop two different competitions focused on these audiences.
Type of indicator	Report
Methodology	Qualitative
Data source(s)	Report after the competition (including information about the contest, participants, and winners)
Data collection instrument	WP8
Responsible	WP8
Periodicity of data collection	M28
Completion criteria	Report available
Acceptance criteria	Report available
Observations	

(code) Indicator	WP 8.3.9_ Competition with students (High school or University)
Definition	Competition with students (High school or University)
Justification	The organization of competitions at European level will allow reaching some of the target audiences and achieving their engagement with the Joint Action objectives. We will develop two different competitions focused on these audiences.
Type of indicator	Report
Methodology	Qualitative
Data source(s)	Report after the competition (including information about the contest, participants, and winners)
Data collection instrument	WP8
Responsible	WP8
Periodicity of data collection	M33
Completion criteria	Report available
Acceptance criteria	Report available
Observations	

Task 8.4: Support coordination about World Week and the European Day of Appropriate Use of Antibiotics // High level awareness and communication meeting

(code) Indicator	WP8.4.1_ Support coordination about World Week and the European Day of Appropriate Use of Antibiotics
Definition	Support coordination about World Week and the European Day

	of Appropriate Use of Antibiotics
Justification	To be in contact with the main actors in the EAAD (ECDC, WHO Europe) and coordinate the main information about their celebrations with the member states and their national celebrations.
Type of indicator	Process
Methodology	Qualitative
Data source(s)	Meeting minutes
Data collection instrument	WP8 minutes
Responsible	WP8
Periodicity of data collection	M14, M26
Completion criteria	Minutes of the meetings held with ECDC, WHO and with the communication focal points of each WP
Acceptance criteria	Minutes of the meetings held with ECDC, WHO and with the communication focal points of each WP
Observations	

(code) Indicator	WP8.4.2_ High level awareness and communication meeting
Definition	High level awareness and communication meeting
Justification	High Level awareness and communication Meeting is targeted to governments, institutions at the regional and national level and relevant stakeholders.
Type of indicator	Output
Methodology	Qualitative
Data source(s)	WP8 leader
Data collection instrument	Report
Responsible	WP8
Periodicity of data collection	M36
Completion criteria	High level Meeting organised and report available
Acceptance criteria	High level Meeting organised and report available
Observations	

(code) Indicator	WP8.4.3_ Percentage of stakeholders attending the High level awareness and communication meeting (response rate)
Definition	Percentage of stakeholders attending the High level awareness and communication meeting (response rate)
Justification	High Level awareness and communication Meeting is targeted to governments, institutions at the regional and national level and relevant stakeholders.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of participants
Data collection instrument	List of signatures

Responsible	WP8
Periodicity of data collection	M36
Completion criteria	100% stakeholders
Acceptance criteria	65% stakeholders
Observations	

(code) Indicator	WP8.4.4_ High level awareness and communication meeting (MS represented)
Definition	High level awareness and communication meeting (MS represented)
Justification	High Level awareness and communication Meeting is targeted to governments, institutions at the regional and national level and relevant stakeholders.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	List of participants
Data collection instrument	List of signatures
Responsible	WP8
Periodicity of data collection	M36
Completion criteria	100% member states
Acceptance criteria	70% member states
Observations	

(code) Indicator	WP8.4.5_ High level awareness and communication meeting (satisfaction level)
Definition	Satisfaction with High level awareness and communication meeting
Justification	High Level awareness and communication Meeting is targeted to governments, institutions at the regional and national level and relevant stakeholders.
Type of indicator	Process
Methodology	Quantitative
Data source(s)	Participants
Data collection instrument	High level meeting satisfaction questionnaire
Responsible	WP3
Periodicity of data collection	M36
Completion criteria	100% satisfied
Acceptance criteria	70% satisfied
Observations	

WP9 - Prioritizing and implementing research and innovation for public health needs

Task 9.1: Work with Member States to ensure that national processes for research and innovation priority-setting are grounded in a broad One Health approach and that both Member State research priorities and knowledge gaps are addressed in the development of the update of the JPIAMR SRA

(code) Indicator	WP 9.1_ Assisting national governments
Definition	Assisting national governments to gather research gaps of national priority across the breadth of AMR to feed into research priorities both nationally and multinationally (e.g., JPIAMR SRA)
Justification	The aim of this task is to contribute to strengthened national processes to ensure that research gaps identified by local experts in AMR are identified and prioritized. This includes a One Health approach as well as inclusion of social science research questions. The aim is that these research gaps can be aggregated and used to prioritize national research agendas as well as fed into international priority-setting exercises.
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Case study, Documents from MS and Governmental Agencies
Data collection instrument	Revision of documents
Responsible	INSERM/FHI
Periodicity of data collection	M1-M36
Completion criteria	Acknowledgement from at least 5 member states that they will consider updating their national priority-setting exercises based upon examples from the case study and provide feedback to JPIAMR and Horizon2020
Acceptance criteria	Review of at least 2 countries strategies for collecting priorities and providing feed-back to JPIAMR
Observations	

Task 9.2: Explore and detail European strategies to implement mechanisms to foster antimicrobial innovation and other means to fight against AMR and HCAI

(code) Indicator	WP 9.2_ Describe European strategies to foster innovation to fight against AMR and HCAI
Definition	Describe European strategies to foster innovation to fight

	against AMR and HCAI.
Justification	The aim of this task is to act upon recommendations for stimulating greater innovation (including medicines, vaccines, diagnostics, and medical devices - for both human and animal health) to combat AMR and HCAI. Assist with European implementations of incentives to stimulate antimicrobial, diagnostic and other innovations for fighting AMR and HCAI
Type of indicator	Process/Outcome
Methodology	Qualitative
Data source(s)	Documents in ShareFile- Meeting minutes- Internet
Data collection instrument	Revision of documents
Responsible	FHI/INSERM
Periodicity of data collection	M1-M36
Completion criteria	Piloting of incentives to increase research and innovation in 3-5 European countries
Acceptance criteria	Existence in at least 2 European countries of pilot experiences
Observations	

Task 9.3: Contribute to ensuring that evidence-informed public health policies and practices related to combatting AMR and HCAI are implemented

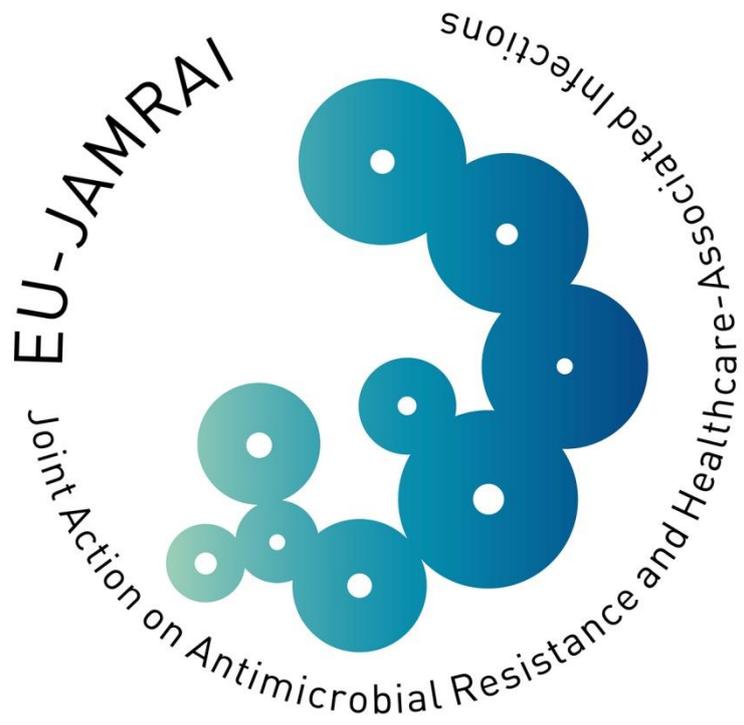
(code) Indicator	WP 9.3.1_ Contribute to the implementation of evidence-informed public health policies and practices related to combatting AMR and HCAI
Definition	Contribute to the implementation of evidence-informed public health policies and practices related to combatting AMR and HCAI
Justification	The aim is to assist national governments with integrating evidence in their national AMR policies, evaluating existing tools for evidence-informed policymaking, modes of dissemination, and implementation of good practices and recommend national dissemination and sharing strategies.
Type of indicator	Process/Outcome
Methodology	Qualitative/Quantitative
Data source(s)	Document on recommendation for integrating policy. National documents-Internet
Data collection instrument	Revision of documents
Responsible	FHI/INSERM
Periodicity of data collection	M13-M36
Completion criteria	Acknowledgement from at least 10 member states that they will consider updating their national processes to integrate evidence into ongoing policy formation and review
Acceptance criteria	Acknowledgement from at least 5 member states that they will consider updating their national processes to integrate

	evidence into ongoing policy formation and review
Observations	

Annex 2: Milestones List (M1-M12)

Milestone number	Milestone name	Short name lead participant	Estimated date
MS1.1	Kick-off meeting	INSERM	M2
MS1.2	The Steering committee and Advisory Boards Forum are set up	INSERM	M2
MS1.3	Organisation of meetings completed (meeting, agenda & preparatory documents)	INSERM	M10
MS2.1	Communication tool-kit	AEMPS	M6
MS2.2	Dissemination Plan: intermediate control point	AEMPS	M7
MS3.1	Agreement on ETs plan	ISS	M 5
MS3.2	Availability of the web platform with tools to support the monitoring	ISS	M 7
MS3.3	Periodic (every six months) check of correspondence between planned activities and timetable	ISS	M 6, 12
MS3.4	Identification of interested stakeholders	ISS	M 6
MS3.5	Report on quality of the meetings within two months after their conclusion	ISS	M2
MS4.1	Survey of MS priorities	MoH-FR	M12
MS5.1	Presentation, discussion and analysis of the outcome of the self-assessments (workshop)	VWS	M10
MS6.1.1.a	Results of survey A (national-hospital policy)	HCDCP	M8
MS6.1.1.b	Assessment of cost-benefit study	HCDCP	M12
MS6.1.2.a	Results of survey B (barriers for an effective implementation of an ICP)	HCDCP	M8
MS6.1.3	Initial presentation of the training tools	HCDCP	M12
MS6.2.1.a	Participating hospitals and topics selected per country.	FOHM	M12
MS7.1	Progress check of review procedure	FHI	M4
MS7.2	Progress check in terms of website	FHI	M12
MS8.1	Awareness and Communication Plan	AEMPS	M7
MS8.2	Database // European Webinar and of Science and Health Communication researchers (Mass media): control point	AEMPS	M7
MS8.4	European competition with High Schools students: starting // intermediate control point	AEMPS	M12
MS 9.2	Inter-governmental meeting to discuss DRIVE-AB and AMR Review recommendations with regards to AMR and HCAI	FHI	M6

M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Sep17	Oct.17	Nov	Dec.17	Jan.18	Feb.18	Mar.18	Apr.18	May	June	July	August 2018
	MS1.1 MS1.2 MS3.5		MS7.1	MS3.1	MS2.1 MS3.3 MS3.4 MS9.2	MS2.2 MS3.2 MS8.1 MS8.2	MS6.1.1.a MS6.1.2.a		MS1.3 MS5.1		MS3.3 MS4.1 MS6.1.1.b MS6.1.3 MS6.2.1.a MS7.2 MS8.4



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