Appendix

Table I

Summary of work packages (objectives and tasks) within the TackSHS project (November 2015 – October 2019).

<table>
<thead>
<tr>
<th>WP name (lead institution) [No. registration at Clinicaltrials.gov]</th>
<th>Objectives</th>
<th>Tasks</th>
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</thead>
<tbody>
<tr>
<td>WP1. Coordination and management (Catalan Institute of Oncology, Spain)</td>
<td>To manage and coordinate all financial, administrative, scientific and communication activities of the project and timely achievements. To set up and run the structure for communication. To guarantee the successful achievement of the goals of the project. To establish equal opportunities within the consortium and ensure a strong interaction among the project’s elements and partners. To monitor effective implementation of the work plan. To control and report ensuring that the project deliverables are met in an integrated and timely manner within the agreed budget. To manage the decision-making process. To communicate with and report to designated EU project officer. To resolve conflict situations and manage risks.</td>
<td>Task 1.1 Management and internal communication. Task 1.2 Scientific coordination and management. Task 1.3 Activities integration and scientific organisation of meetings. Task 1.4 Web-based management tool. Task 1.5 Quality assurance. Task 1.6 Risk management.</td>
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<tr>
<td>WP2. Environmental assessment of SHS exposure in private settings and outdoor settings in Europe</td>
<td>To develop a protocol explaining in detail the methodology of the environmental assessment of SHS. To assess the levels of SHS in a range of private and outdoor settings in different European countries according to the type of setting, smoke-free legislation and socioeconomic characteristics. To develop evidence-based policy recommendations for policy makers and health authorities.</td>
<td>Task 2.1 Designing and writing of a detailed protocol. Task 2.2 Assessment of the levels of SHS. Task 2.3 Analysis of data. Task 2.4 Dissemination of results.</td>
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<tr>
<td>Task</td>
<td>Description</td>
<td>Details</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To estimate the prevalence of current smokers, electronic cigarette users and heated tobacco products users, and passive exposure to SHS and SHA from electronic cigarettes, using original data from a pan-European survey conducted in 12 strategically selected countries</td>
<td>Task 3.1 Conducting a European survey&lt;br&gt;Task 3.2 Analysis of data&lt;br&gt;Task 3.3 Dissemination of results</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To investigate the determinants of SHS and SHA exposure in those countries</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To analyse the attitudes and perceptions of the adult European population towards tobacco control policies and to limit SHS exposure</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To study the knowledge and beliefs of the general adult population on the harmful effects of SHS and SHA</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To compare smoking patterns, electronic cigarette use, and, particularly, SHS and SHA exposure between four middle- and eight high-income countries in Europe</td>
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<tr>
<td>WP3. Survey on secondhand smoke and electronic cigarettes in Europe</td>
<td>To compare smoking patterns, voluntary home smoking ban, and perception on the efficacy of smoking ban as a tobacco control policy between the new data in the selected European countries and data from a companion pan-European survey conducted in 2010</td>
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<td>WP4. Measuring for change: air quality feedback to reduce SHS exposure in the home</td>
<td>To establish a methodology to measure air quality in homes of smokers using low-cost, simple particle monitoring devices</td>
<td>Task 4.1 Development of methods to measure SHS&lt;br&gt;Task 4.2 Recruitment of participants&lt;br&gt;Task 4.3 Quantification of SHS in homes&lt;br&gt;Task 4.4 Evaluation of the impact of the intervention and results dissemination</td>
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<tr>
<td>WP4. Measuring for change: air quality feedback to reduce SHS exposure in the home</td>
<td>To quantify SHS exposure levels in the home of smokers and provide feedback that compares the air quality with the median value from local smoke-free homes</td>
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<tr>
<td>WP4. Measuring for change: air quality feedback to reduce SHS exposure in the home</td>
<td>To evaluate the impact of the intervention in terms of behaviour change (household and car smoking rules) and attitudes towards SHS</td>
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<td>WP5. Exposure to secondhand smoke in outside areas excepted from</td>
<td>To measure SHS in areas exempted from smoke-free legislation in three European countries where comprehensive smoke-free legislation exists</td>
<td>Task 5.1 Patients’ recruitment&lt;br&gt;Task 5.2 Training in measurements</td>
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| **WP6. Clinical impact of secondhand exposure to e-cigarette emissions on the respiratory system of healthy adults**  
(Tobacco Free Research Institute Ireland)  
[NCT03074734] | To recruit a panel of patients with COPD and asthma in the same three European countries  
To monitor personal exposure to SHS in areas exempted from legislation in pubs, bars and casinos using novel monitoring technologies  
To simultaneously monitor the respiratory effects, as indicated by changes in breath sounds, and peak flow rates in the same people supported by diary cards | Task 5.3 Monitoring of air pollution and breath sounds  
Task 5.4 Data collection, analysis and dissemination |}

| **WP7. Secondhand tobacco smoke in experimental and real-life conditions: methods of measurement**  
(IRCCS – National Institute of Oncology, Italy) | To compare different methods to measure SHS and SHA (real-time and time-integrated measurements of PM and gas-phase pollutants)  
To calibrate different real-time PM counting devices to be used in the TackSHS Project against certified gravimetric methods  
To evaluate the feasibility of the selected measurement methods of SHS and e-cigarette aerosols in experimental and real-life environments | Task 7.1 Comparison of methods  
Task 7.2 Calibration of devices  
Task 7.3 Trial of measurements in laboratory and real conditions  
Task 7.4 Dissemination of results |}

| **WP8. Secondhand exposure to emissions from electronic cigarettes: personal and environmental assessment in confined spaces**  
(Catalan Institute of Oncology, Spain) | To systematically review the published studies on passive exposure to e-cigarette aerosol, including controlled laboratory analysis of the aerosols produced by e-cigarettes, and studies assessing bystander’s exposure with environmental markers and personal biomarkers  
To investigate environmental and bystanders’ exposure to e-cigarette aerosol in controlled conditions in a car and a room | Task 8.1 Systematic review of existing evidence  
Task 8.2 Controlled experiments in a car and a room  
Task 8.3 Observational study in homes  
Task 8.4 Analysis of samples and data processing |
| WP9. Attributable mortality and morbidity to secondhand smoke in Europe (Institute for the Study and Prevention of Cancer, Italy) | To review the methods and data on attributable mortality and morbidity to SHS for European countries  
To develop algorithms of calculation of attributable mortality and morbidity to SHS  
To update data on attributable mortality and morbidity to SHS for EU countries | Task 9.1 Literature review on AMM and SHS  
Task 9.2 Development of algorithms to calculate AMM  
Task 9.3 Estimation of AMM in Europe  
Task 9.4 Dissemination of results |
| WP10. Economic impact of secondhand tobacco smoke on morbidity and mortality and Return on Investment of Interventions (Cartagena Technical University, Spain) | To develop a Return on Investment Model able to assess the cost-effectiveness, budget impact and a wider set of social return on investment metrics of policies aimed at reducing exposure to secondhand smoke  
To evaluate the Return on Investment of policies aimed at reducing exposure to secondhand smoke across European countries, with country-specific versions of the model, and to translate the results into policy proposals | Task 10.1 Design of cost-effectiveness and cost-utility models  
Task 10.2 Development of country-specific models  
Task 10.3 Assessment of impact and dissemination |
| WP11. Dissemination of project findings (European Network for Smoking and Tobacco Prevention, Belgium) | To develop and maintain a project webpage on the ENSP website  
To set up a network of interested policy makers, health professionals and other stakeholders, and to maintain communication and dissemination with this network  
To organise one interim workshop with experts and stakeholders, to evaluate the approaches and the first results of the project, and to make recommendations for further work  
To organise a final project conference  
To ensure varied forms of dissemination, including written and audiovisual materials | Task 11.1 Development and maintaining of the project website  
Task 11.2 Setting-up of a network  
Task 11.3 Interim workshop  
Task 11.4 Final conference  
Task 11.5 Other forms of results and project dissemination and communication |
