



### Code 03: Changes Made Based on Experts' Opinions Using the Fuzzy Delphi Method

| Changes in the First Round of the Fuzzy Delphi Questionnaire on the Social Impact of Medical Research Utilization, Based on Expert Opinions |                                                                |                                                                                                                      |                                                                        |                                      |                                             |       |          |                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-------|----------|-----------------------------------------------------------------------------------------------|
| Contextual Themes                                                                                                                           | Global Themes                                                  | Organizing Themes                                                                                                    | Basic Themes                                                           | Participant Score in the First Round | Average Scores of the First Round of Delphi | Agree | Disagree | Changes Made                                                                                  |
| Knowledge Governance and Research                                                                                                           | Activity Mechanisms of Knowledge Governance and Research       | Knowledge Governance and Research at the Micro Level (Research Policy by the Researcher)                             | Psychological Factors of Research                                      |                                      | 3.88                                        |       |          | Deleted due to not scoring in Delphi                                                          |
|                                                                                                                                             |                                                                |                                                                                                                      | Research Feasibility                                                   |                                      | 4.16                                        |       |          | Deleted                                                                                       |
|                                                                                                                                             |                                                                |                                                                                                                      | Existence of Research-Related Systems                                  |                                      | 4                                           |       |          | Deleted                                                                                       |
|                                                                                                                                             |                                                                | Knowledge Governance and Research at the Meso Level (Researcher Actions by Universities and Scientific Institutions) | Research Group Strategies                                              |                                      | 4.16                                        |       |          | Transition to Basic Themes in "Researchers and Scientists"                                    |
|                                                                                                                                             |                                                                |                                                                                                                      | Identification of Research Streams                                     |                                      | 4.12                                        |       |          | Deleted                                                                                       |
|                                                                                                                                             | Accountability Mechanisms of Knowledge Governance and Research | Knowledge Governance and Research at the Macro Level (Sociology of Research by the Science Institution)              | Research Processes                                                     |                                      | 4.12                                        |       |          | Deleted                                                                                       |
| Knowledge Production and Exchange                                                                                                           | Knowledge Producers                                            | Researchers and Scientists                                                                                           | Knowledge Creation by Researchers                                      |                                      | 4.36                                        |       |          | Merging with the New Title "Individual Characteristics of Researchers in Knowledge Creation". |
|                                                                                                                                             |                                                                |                                                                                                                      | Individual Characteristics of Researchers                              |                                      | 4.32                                        |       |          |                                                                                               |
|                                                                                                                                             |                                                                | Educational and Research Organizations and Centers                                                                   | Organization Type                                                      |                                      | 4.2                                         |       |          | Merging with the New Title "Organizational structures and characteristics".                   |
|                                                                                                                                             |                                                                |                                                                                                                      | Organizational Framework                                               |                                      | 4.28                                        |       |          |                                                                                               |
|                                                                                                                                             |                                                                |                                                                                                                      | Organizational Capabilities and Advantages                             |                                      | 4.16                                        |       |          |                                                                                               |
|                                                                                                                                             |                                                                |                                                                                                                      | Methods of Understanding and Achieving the Organization's Social Value |                                      | 4.2                                         |       |          | Merging in Basic Themes "Organizational Performance"                                          |
|                                                                                                                                             | Knowledge Users                                                | Policymakers                                                                                                         | Policymakers' Lobbying Efforts                                         |                                      | 4.04                                        |       |          | Merging with the New Title "Characteristics of Policymakers".                                 |
|                                                                                                                                             |                                                                |                                                                                                                      | Personal Characteristics of Policymakers                               |                                      | 4.2                                         |       |          |                                                                                               |



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|--------------------------------------|-----------------------------------|------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------|---------------------------------------------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                   |                                                                  | Polymakers' Decision-Making Criteria                   |                                      | 4.52                                        |       |          |                                                                                                                                                            |
|                                      |                                   |                                                                  | Characteristics of Policy Decisions                    |                                      | 4.52                                        |       |          | Merging with the New Title "Characteristics of Policymaking"                                                                                               |
|                                      |                                   |                                                                  | Type of Policymaking                                   |                                      | 4.32                                        |       |          |                                                                                                                                                            |
|                                      |                                   |                                                                  | Policy Interventions                                   |                                      | 4.08                                        |       |          | Deleted. Despite basic themes "Policy Interventions" receiving a high score, most experts agreed to delete it, with only one expert opposing the decision. |
|                                      |                                   | Stakeholders                                                     | Individual Characteristics of Research Users           |                                      | 4.12                                        |       |          | Merging with the New Title "Types and Characteristics of User Groups"                                                                                      |
|                                      |                                   |                                                                  | User Group Characteristics                             |                                      | 4.08                                        |       |          |                                                                                                                                                            |
|                                      |                                   |                                                                  | Conducting a Workshop for Research Users               |                                      | 3.76                                        |       |          | Deleted due to not scoring in Delphi                                                                                                                       |
|                                      |                                   |                                                                  | Research User Oversight Board Team                     |                                      | 3.64                                        |       |          | Deleted due to not scoring in Delphi                                                                                                                       |
| Knowledge Dissemination and Transfer | Knowledge Dissemination Processes | Activities Based on Active and Effective Knowledge Dissemination | Common Forms of Academic Scientific Production         |                                      | 4.16                                        |       |          | Deleted                                                                                                                                                    |
|                                      |                                   |                                                                  | Workshop Technologies (E-Mail, Video Conferencing)     |                                      | 4                                           |       |          | Deleted                                                                                                                                                    |
|                                      |                                   |                                                                  | Membership of Researchers and Managers in Associations |                                      | 3.76                                        |       |          | Deleted due to not scoring in Delphi                                                                                                                       |
|                                      |                                   |                                                                  | Participation in Knowledge-Based Conferences           |                                      | 3.8                                         |       |          | Deleted due to not scoring in Delphi                                                                                                                       |
|                                      |                                   |                                                                  | Workshop Technologies (E-Mail, Video Conferencing)     |                                      | 3.92                                        |       |          | Deleted                                                                                                                                                    |
|                                      |                                   |                                                                  | Professional Publications and Guides                   |                                      | 4                                           |       |          | Deleted                                                                                                                                                    |



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|------------------------|------------------------------|-----------------------------------------------------------|------------------------------------------------------|--------------------------------------|---------------------------------------------|-------|----------|------------------------------------------------------------------------------------|
|                        |                              | Activities Based on the Dissemination of Research Results | Dissemination of Knowledge from Health Research      |                                      | 4.16                                        |       |          | Deleted due to not scoring in Delphi                                               |
|                        |                              | Activities Based on the Publication of Research Results   | Shared Responsibility for Research Dissemination     |                                      | 3.76                                        |       |          | Deleted due to not scoring in Delphi                                               |
|                        |                              |                                                           | Peer Review of Similar Research by Academic Peers    |                                      | 3.84                                        |       |          | Deleted due to not scoring in Delphi                                               |
|                        | Knowledge Transfer Processes | Factors Facilitating Knowledge Transfer                   | Specificity of Knowledge Transfer Evaluation Systems |                                      | 4.08                                        |       |          | Deleted                                                                            |
|                        |                              |                                                           | Factors Affecting Knowledge Transfer                 |                                      | 4.16                                        |       |          | Edit to "Activities Related to Knowledge Transfer"                                 |
|                        |                              | Environmental Factors for Knowledge Transfer              | Multi-Stage Process of Knowledge Transfer            |                                      | 3.88                                        |       |          | Deleted                                                                            |
|                        |                              |                                                           |                                                      |                                      |                                             |       |          |                                                                                    |
| Knowledge Mobilization | Knowledge Distribution       | Activities Based on Social Interactions                   | Continuous Negotiation and Dialogue                  |                                      | 4.12                                        |       |          | Merging with the New Title "Extensive Stakeholder Participation"                   |
|                        | Knowledge Outsourcing        | Activities Based on Social Participation                  | Participatory Collaboration                          |                                      | 4.2                                         |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Meso Level  |
|                        |                              |                                                           | Participatory Research                               |                                      | 4.24                                        |       |          |                                                                                    |
|                        |                              |                                                           | Extensive Stakeholder Participation                  |                                      | 4.44                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Macro Level |
|                        |                              |                                                           | Participation in Decision-Making of Research Results |                                      | 4.4                                         |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Macro Level |
|                        |                              |                                                           | Stakeholder Participation in the Research Process    |                                      | 4.44                                        |       |          | Transition to Basic Themes in Knowledge and Research                               |



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|--------------------------|-----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-------|----------|------------------------------------------------------------------------------------|
|                          |                                                           |                                                                |                                                                     |                                      |                                             |       |          | Governance at the Macro Level                                                      |
|                          |                                                           |                                                                | Criteria for Participation in Research Evaluation                   |                                      | 4.12                                        |       |          | Deleted                                                                            |
|                          |                                                           |                                                                | Practical Aspects of Participation and Collaboration in Research    |                                      | 4.44                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Macro Level |
|                          |                                                           |                                                                | Level of Stakeholder Participation in Research (Micro, Meso, Macro) |                                      | 4.32                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Macro Level |
|                          |                                                           |                                                                | Understanding Participatory Processes in Research                   |                                      | 4.16                                        |       |          | Deleted                                                                            |
| Knowledge Popularization | External Components of Knowledge Popularization           | Social Impact of Research in Health (as a Long-Term Effect)    | Social Impact on Scientometric Fields                               |                                      | 4                                           |       |          | Edit to " <i>Social Impact of Research in the Fields of Scientometrics</i> "       |
|                          |                                                           |                                                                | Balancing the Social and Scientific Value of Research               |                                      | 4.08                                        |       |          | Deleted                                                                            |
|                          |                                                           |                                                                | Social Cohesion of Research                                         |                                      | 4                                           |       |          | Deleted                                                                            |
|                          |                                                           |                                                                | Social Capital of Research                                          |                                      | 4.16                                        |       |          | Deleted                                                                            |
|                          |                                                           |                                                                | The Role of Social Outputs of Research                              |                                      | 4.16                                        |       |          | Deleted                                                                            |
|                          |                                                           |                                                                | Social Interventions of Research                                    |                                      | 4.16                                        |       |          | Deleted                                                                            |
|                          | Internal Components of Knowledge Popularization (Deleted) | Activities Based on the Processes of Social Impact of Research | Research Evaluation Processes                                       |                                      | 4.4                                         |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Micro Level |
|                          |                                                           |                                                                | Research Evaluation Systems                                         |                                      | 4.2                                         |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Meso Level  |



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|-----------------------|--------------------------|-----------------------------------------------------------|-------------------------------------------------------|--------------------------------------|---------------------------------------------|-------|----------|------------------------------------------------------------------------------------|
|                       |                          |                                                           | Health Technology Evaluation Indicators               |                                      | 4.28                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Meso Level  |
|                       |                          |                                                           | Effective Components in Social Evaluation of Research |                                      | 4.4                                         |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Meso Level  |
|                       |                          |                                                           | Recognition and Types of Social Values of Research    |                                      | 4.16                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Micro Level |
|                       |                          |                                                           | Challenges in Measuring the Social Impact of Research |                                      | 4.04                                        |       |          | Transition to Basic Themes in Knowledge and Research Governance at the Meso Level  |
| Knowledge Utilization | Knowledge Implementation | Behaviors Leading to Research Results in Health Promotion | Social Volunteer Activities                           |                                      | 4.08                                        |       |          | Deleted                                                                            |
|                       |                          |                                                           | Improving Participation                               |                                      | 4.16                                        |       |          | Deleted                                                                            |
|                       |                          |                                                           | Professional Services                                 |                                      | 4.12                                        |       |          | Deleted                                                                            |