Appendix **4.** Summary of the findings of each of the themes based on the ODSF Decisional Needs Coding Manual- 1) Decisional conflict, 2) Inadequate Knowledge, 3) Unrealistic expectations, 4)Unclear values, 5) Inadequate support/resources, 6) Complex decision characteristics, 7) Personal and clinical needs

The operational definitions of Ottawa Decision Support Framework (ODSF) Decisional Needs Coding Manual (the verstion of July 13, 2020) See in [https://decisionaid.ohri.ca/docs/develop/ODSF\_Decisional\_Needs\_Coding\_Manual.pdf](https://decisionaid.ohri.ca/docs/develop/ODSF_Decisional_Needs_Coding_Manual.pdf（）)

|  |  |  |  |
| --- | --- | --- | --- |
| **Manifestations (and Contributing Factors) for Each Decisional Needs** | **References** | **ODSF code** | **N(%) of studies (N=56)** |
| **Decisional conflict** | [1-16] | **1** | **16 (29%)** |
| unsure about the best course of action | [2, 5, 7, 14, 16] | 1.1 | 5 (8.93%) |
| worried about what could go wrong | [8, 10-12, 14-16] | 1.2 | 7 (12.50%) |
| questions what is desirable /important to them (personal values) when attempting decision | [14, 15] | 1.4 | 2 (3.57%) |
| feels distressed or upset when attempting decision | [1, 3, 4, 6, 9, 11, 14] | 1.5 | 7 (12.50%) |
| wavers between choices or changing one’s mind | [13, 14] | 1.6 | 2 (3.57%) |
| constantly thinks about decision/can’t get off mind | [12, 14] | 1.7 | 2 (3.57%) |
| Feeling physically stressed: muscle tension, rapid heartbeat, difficulty sleeping when trying to make decisions | — | 1.8 | — |
| **Inadequate Knowledge** | [1-4, 6-10, 12, 13, 16-41] | 2 | **37 (66.07%)** |
| unaware that a decision needs to be made | [2, 9, 17, 29, 34-37, 39] | 2.1 | 9 (16.07%) |
| don’t know (enough) about the health problem, condition, or situation to make a decision | [1, 3, 4, 6-9, 12, 13, 16-36, 38, 40, 41] | 2.2 | **33 (**58.93**%)** |
| don’t know (enough about) options | [10, 37, 39] | 2.3 | 3 (5.36%) |
| don’t know (enough about) benefits, harms/risks, and/or scientific uncertainties | — | 2.4 | — |
| **Unrealistic Expectations** | [3, 34, 42] | 3 | **3 (5.36%)** |
| don’t know chances of benefits, harms/risks for each option | [3, 34] | 3.1 | 2 (3.57%) |
| * perceptions of one’s outcome probabilities are not aligned with current evidence for similar people | [34] | 3.2 | 1 (1.79%) |
| * difficult believing that the outcome probabilities apply to them | [34, 42] | 3.3 | 2 (3.57%) |
| **Unclear Values** | [11, 29, 42] | 4 | **3 (5.36%)** |
| unclear about option features that are important to them | [11, 29, 42] | 4.1 | 3 (5.36%) |
| **Inadequate Support and Resources** | [1-7, 9-23, 25-37, 39-41, 43-55] | **5** | 51（91.07%） |
| **Social Pressure** | [10, 29, 31, 36] | **5.2** | **4 (7.14%)** |
| **Difficult decisional roles** | [11, 12, 14-16, 31, 34, 36, 40, 41, 43] | **5.3** | **11 (19.64%)** |
| Unclear about role in decision making | [11, 12, 15, 31, 34, 40, 41] | **5.3.1** | **7** (12.50%) |
| Difficulty involving family member in decision-making. | [14-16, 41, 43] | **5.3.3** | **5** (8.93%) |
| Difficult shared family deliberation on options | [14] | **5.3.4** | **1** (1.79%) |
| Difficulty deliberating with practitioner because the patient/family | [12, 15, 31, 36] | **5.3.5** | **4** (7.14%) |
| **Inadequate experience** | [32, 35, 54, 55] | **5.4** | **4 (7.14%)** |
| lacks experience | [32, 35, 54, 55] | **5.4.1** | **4** **(7.14%)** |
| **Inadequate self-efficacy** | [2, 4, 6, 7, 11, 12, 15-20, 22, 26, 28, 30, 32, 34, 36, 37, 39, 41, 51] | **5.5** | **23 (41%)** |
| **lacks belief/confidence in ability to participate in decision-making** | [2, 4, 6, 7, 12, 15-20, 22, 26, 28, 30, 32, 34, 36, 37, 39, 41, 51] | **5.5.1** | **22 (39.29%)** |
| **lacks** **beliefconfidence in ability to implement chosen option** | [11, 37] | **5.5.2** | **2** (3.57%) |
| **Inadequate motivation** | [35, 36] | **5.6** | 2 (3.57%) |
| **lacks the ability or** **skill to make a decision** | [15, 41, 53] | **5.7** | 3 (5.36%) |
| **Inadequate information** | [9, 12-14, 21, 23, 28, 34, 35, 41, 48, 55] | **5.8** | 12 (21%) |
| Lacks access to (did not receive) information. | [9, 12-14, 21, 23, 28, 41, 48, 55] | **5.8.1** | **10 (17.86%)** |
| poor quality information | [12-14, 34, 35] | **5.8.2** | **5** (8.93%) |
| **Inadequate advice** | [7, 10, 15, 28-30, 39] | **5.9** | 7 (12.50%) |
| * lacks advice from important others involved in the decision | [7, 15, 30] | **5.9.1** | **3** (5.36%) |
| poor quality advice from important others involved in the decision | [7, 10, 28, 29, 39] | **5.9.2** | **5** (8.93%) |
| **Inadequate emotional** **support** | [1, 3-7, 12, 14-16, 22, 29-31, 36, 37, 45, 50, 51, 53] | **5.10** | **20 (35.71%)** |
| **Inadequate instrumental help** | [1-4, 7, 17-22, 25, 27, 34, 43-50, 52, 53] | **5.11** | **24 (42.86%)** |
| lacks instrumental help | [1-4, 7, 17-22, 25, 27, 34, 43-50, 52, 53] | **5.11.1** | **24** (42.86%) |
| **Inadequate health and social services** | [7, 11, 15, 27, 29, 31, 34, 39] | **5.12** | 8 (14.29%) |
| lacks health & social services, specify | [7, 11, 15, 27, 29, 31, 34, 39] | **5.12.1** | 8 (14.29%) |
| **Inadequate financial assistance** | [9, 14, 15, 32, 33, 36, 37, 45, 54] | **5.13** | 9 (16.07%) |
| lacks financial assistance, specify | [9, 14, 15, 32, 33, 36, 37, 45, 54] | **5.13.1** | 9 (16.07%) |
| **Complex Decision Characteristics** | [10, 11, 15, 16, 34, 35, 38, 55] | **6** | **8(14.29%)** |
| **Difficult Decision Type** | [35, 55,56] | **6.1** | 3 (5.36%) |
| Multiple options | [35,56] | **6.1.1** | **2** (3.57%) |
| Unknown outcomes, specify | [55] | **6.1.2** | **1** (1.79%) |
| **Difficult Decision Timing** | [10, 11, 15, 16, 34, 38] | **6.2** | **6 (10.71%)** |
| Timing is urgent | [10, 11, 15, 38] | **6.2.1** | **4** (7.14%) |
| Decision needs to be made soon | [10] | **6.2.2** | **1** (1.79%) |
| Timing is delayed | [16, 34] | **6.2.3** | **2** (3.57%) |
| **Unreceptive Decisional Stage** | — | **6.3** | **—** |
| **Personal and Clinical Needs** | [2, 3, 6, 7, 11, 15, 17, 20, 28, 29, 32-34, 41, 44, 45, 50, 51,56] | **7** | **19（34%）** |
| **Personal Needs** | [7, 11, 15, 28, 32-34, 41, 44] | **7.1** | **9 (16.07%)** |
| Special needs due to patient’s personal characteristics, specify need/characteristic | [32] | **7.1.1** | **1** (1.79%) |
| Need for tailored decision support | [7, 11, 15, 28, 33, 34, 41, 44] | **7.1.2** | **8** (14.29%) |
| **Clinical Needs** | [2, 3, 6, 17, 20, 29, 45, 50, 51,56] | **7.2** | **10 (17.86%)** |
| Special needs due to patient’s clinical characteristics, specify need/characteristic | [2, 3, 6, 17, 20, 29, 45, 50, 51,56] | **7.2.1** | **10 (17.86%)** |

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