**Supplementary Table S-2**

Frequency Distribution of Core Ethical Values in Computational Psychiatry Literature (N=83)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ethical Value | Number of Studies | Percentage | Common Implementation Contexts | Contributing Studies |
| Privacy & Confidentiality | 70 | 82.35% | Digital phenotyping (65.10%)  Electronic health records (58.10%)  Remote monitoring (52.30%) | (Ahmed and Hens 2022; Arbanas 2024; Avula and Amalakanti 2024; Ball, Kalinowski, and Williams 2020; Bentley et al. 2021; Bertl, Ross, and Draheim 2022; Briganti 2023; Chekroud et al. 2021; I. Chen et al. 2022; Z. S. Chen et al. 2022; Clarke, Foltz, and Garrard 2020; D’Alfonso 2020; Davidson 2022; Diaz-Asper et al. 2024; D’Souza et al. 2024; Dube et al. 2024; Dwyer and Koutsouleris 2022; Espejo, Reiner, and Wenzinger 2023; Faissner et al. 2024; Fardouly, Crosby, and Sukunesan 2022; Farmer et al. 2024; Fusar-Poli et al. 2022; Gillett and Saunders 2019; Gooding and Kariotis 2021; Graham et al. 2019; Gültekin and Şahin 2024; Hagendorff 2021; Hart et al. 2022; Hurley et al. 2024; Islam et al. 2024; Jacobson et al. 2020; Jin et al. 2023; Kappen, Vanderhasselt, and Slavich 2023; Kirtley et al. 2022; Kleine et al. 2023; Kolding et al. 2024; Koutsouleris et al. 2022; Leung 2023; Manchia et al. 2020; Mazor et al. 2023; McCradden, Hui, and Buchman 2023; Monaco et al. 2024; Monosov et al. 2024; Monteith et al. 2022, 2023; Morley et al. 2020; Murray et al. 2021; Ortiz and Mulsant 2024; Oudin et al. 2023; Parziale and Mascalzoni 2022; Pavlopoulos, Rachiotis, and Maglogiannis 2024; Rahul et al. 2024; Rocheteau 2023; Saheb, Saheb, and Carpenter 2021; Shen et al. 2022; Singhal et al. 2024; Smith et al. 2023; Starke et al. 2021; Stein and Prost 2024; Straw 2021; Sultan, Scholz, and van den Bos 2023; Terra et al. 2023; Thieme, Belgrave, and Doherty 2020; Torous et al. 2021; Upreti et al. 2024; Vale 2024; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021; Zhang et al. 2023; Zidaru, Morrow, and Stockley 2021) |
| Transparency & Explainability | 63 | 74.12% | Clinical decision support (69.80%)  Risk prediction (62.80%)  Treatment selection (55.80%) | (Avula and Amalakanti 2024; Ball et al. 2020; Bertl et al. 2022; Briganti 2023; Chekroud et al. 2021; Z. S. Chen et al. 2022; D’Alfonso 2020; Diaz-Asper et al. 2024; D’Souza et al. 2024; Dube et al. 2024; Espejo et al. 2023; Faissner et al. 2024; Farmer et al. 2024; Fisher 2024; Fusar-Poli et al. 2022; Graham et al. 2019; Gültekin and Şahin 2024; Hagendorff 2021; Heinrichs and Eickhoff 2020; Hurley et al. 2024; Jin et al. 2023; Kirtley et al. 2022; Kleine et al. 2023; Kolding et al. 2024; Koutsouleris et al. 2022; Levkovich, Shinan-Altman, and Elyoseph 2024; Lewis et al. 2024; Manchia et al. 2020; Mazor et al. 2023; McCradden et al. 2023; Monaco et al. 2024; Monteith et al. 2022, 2023; Morley et al. 2020; Ortiz and Mulsant 2024; Ostojic et al. 2024; Oudin et al. 2023; Pavlopoulos et al. 2024; Rahul et al. 2024; Rocheteau 2023; Saheb et al. 2021; Sahin et al. 2024; Singhal et al. 2024; Skorburg, O’Doherty, and Friesen 2024; Smith et al. 2023:202; Starke et al. 2021; Straw 2021; Terra et al. 2023; Thieme et al. 2020; Torous et al. 2021; Vale 2024; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021; Zhang et al. 2023; Zidaru et al. 2021) |
| Justice & Equity | 55 | 64.71% | Diagnostic systems (55.80%)  Treatment allocation (51.20%)  Service delivery (47.70%) | (Arbanas 2024; Avula and Amalakanti 2024; Ball et al. 2020; Bertl et al. 2022; Briganti 2023; I. Chen et al. 2022; Z. S. Chen et al. 2022; D’Souza et al. 2024; Dube et al. 2024; Dwyer and Koutsouleris 2022; Espejo et al. 2023; Faissner et al. 2024; Farmer et al. 2024; Fisher 2024; Fusar-Poli et al. 2022; Galderisi et al. 2024; Gooding and Kariotis 2021; Graham et al. 2019; Gültekin and Şahin 2024; Hagendorff 2021; Islam et al. 2024; Jin et al. 2023; Kleine et al. 2023; Koutsouleris et al. 2022; Levkovich et al. 2024; Lewis et al. 2024; Mazor et al. 2023; McCradden et al. 2023; Monaco et al. 2024; Monteith et al. 2022, 2023; Morley et al. 2020; Murray et al. 2021; Oudin et al. 2023; Pavlopoulos et al. 2024; Rahul et al. 2024; Rocheteau 2023; Saheb et al. 2021; Sahin et al. 2024; Singhal et al. 2024; Skorburg et al. 2024; Smith et al. 2023; Starke et al. 2021; Stein and Prost 2024; Terra et al. 2023; Thieme et al. 2020; Torous et al. 2021; Vale 2024; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021; Zhang et al. 2023; Zidaru et al. 2021) |
| Beneficence & Non-maleficence | 50 | 58.82% | Patient safety protocols (54.7%)  Risk-benefit assessment (52.3%)  Intervention timing (47.7%) | (Ball et al. 2020; Bentley et al. 2021; Briganti 2023; Z. S. Chen et al. 2022; D’Souza et al. 2024; Dube et al. 2024; Dwyer and Koutsouleris 2022; Espejo et al. 2023; Farmer et al. 2024; Fisher 2024; Fusar-Poli et al. 2022; Galderisi et al. 2024; Gillett and Saunders 2019; Graham et al. 2019; Gültekin and Şahin 2024; Hagendorff 2021; Hurley et al. 2024; Jacobson et al. 2020; Jin et al. 2023; Kirtley et al. 2022; Kolding et al. 2024; Koutsouleris et al. 2022; Leung 2023; Levkovich et al. 2024; Manchia et al. 2020; Mazor et al. 2023; McCradden et al. 2023; Monaco et al. 2024; Monteith et al. 2022, 2023; Murray et al. 2021; Ortiz and Mulsant 2024; Oudin et al. 2023; Pavlopoulos et al. 2024; Rocheteau 2023; Saheb et al. 2021; Singhal et al. 2024; Smith et al. 2023; Starke et al. 2021; Straw 2021; Terra et al. 2023; Thieme et al. 2020; Torous et al. 2021; Vale 2024; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021; Zhang et al. 2023; Zidaru et al. 2021) |
| Autonomy & Informed Consent | 47 | 55.29% | Treatment planning (48.80%)  Data collection consent (44.20%)  Risk assessment (41.90%) | (Ahmed and Hens 2022; Arbanas 2024; Ball et al. 2020; Z. S. Chen et al. 2022; Davidson 2022; D’Souza et al. 2024; Faissner et al. 2024; Farmer et al. 2024; Fisher 2024; Fusar-Poli et al. 2022; Galderisi et al. 2024; Gillett and Saunders 2019; Graham et al. 2019; Gültekin and Şahin 2024; Hagendorff 2021; Hurley et al. 2024; Jacobson et al. 2020; Jin et al. 2023; Kappen et al. 2023; Lewis et al. 2024; Manchia et al. 2020; McCradden et al. 2023; Monaco et al. 2024; Murray et al. 2021; Ortiz and Mulsant 2024; Oudin et al. 2023; Pavlopoulos et al. 2024; Rocheteau 2023; Saheb et al. 2021; Shen et al. 2022; Skorburg et al. 2024; Smith et al. 2023; Stein and Prost 2024; Straw 2021; Sultan et al. 2023; Terra et al. 2023; Thieme et al. 2020; Torous et al. 2021; Vale 2024; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021; Zidaru et al. 2021) |
| Scientific Integrity & Validity | 44 | 51.76% | Model validation (48.80%)  Clinical translation (44.20%)  Quality assessment (41.90%) | (Ahmed and Hens 2022; Ball et al. 2020; Bentley et al. 2021; Bertl et al. 2022; Chekroud et al. 2021; Z. S. Chen et al. 2022; Clarke et al. 2020; Dikaios et al. 2023; Dwyer and Koutsouleris 2022; Espejo et al. 2023; Fusar-Poli et al. 2022; Hagendorff 2021; Hart et al. 2022; Heinrichs and Eickhoff 2020; Islam et al. 2024; Kirtley et al. 2022; Lewis et al. 2024; Mazor et al. 2023; McCradden et al. 2023; Monosov et al. 2024; Monteith et al. 2022, 2023; Murray et al. 2021; Ortiz and Mulsant 2024; Ostojic et al. 2024; Oudin et al. 2023; Rahul et al. 2024; Sahin et al. 2024; Smith et al. 2023; Starke et al. 2021; Stein and Prost 2024; Straw 2021; Tabb and Lemoine 2021; Tejavibulya et al. 2022; Terra et al. 2023; Thieme et al. 2020; Torous et al. 2021; Wang et al. 2024; Wiese and Friston 2022; Wouters et al. 2024; Wray et al. 2021) |

Note. Percentages indicate proportion of studies addressing each ethical value and implementation context. Implementation contexts represent the three most frequently documented applications for each ethical value based on systematic coding of the extraction data. Percentages and frequencies greater than 100 due to multiple values being endorsed across studies.

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