*Table S1. Detail search strategy across distinct database, tracking and summary of all identified records*

*Preliminary search*

|  |  |
| --- | --- |
| Search set# ID | APA PsycInfo 1806 to September Week 2 2020 |
| S1 | (ironic processes.mp. OR mental control.mp.) |
| S2 | (ironic effects.mp. or ironic errors.mp. or avoidant instructions.mp. or motor task.mp. or pressure performance.mp.) |

*Updated Boolean searching strategy*

|  |  |
| --- | --- |
| ID | Databases |
| APA PsycInfo | CINAHL | Embase | ERIC | MEDLINE | PsycArticles | PubMed | SPORTDiscus with Full Text | Web of Science | Google Scholar (Advanced Search) |
| S1 | "ironic process\*".ab. or "ironic process\*".ti. or "mental control\*".ab. or "mental control\*".ti. | AB "ironic process\*" OR TI "ironic process\*" OR AB "mental control\*" OR TI "mental control\*" | (AB "ironic process\*" OR TI "ironic process\*") OR (AB "mental control" OR TI "mental control") | AB "ironic process\*" OR TI "ironic process\*" OR AB "mental control\*" OR TI "mental control\*" | "ironic process\*".ab. or "ironic process\*".ti. or "mental control\*".ab. or "mental control\*".ti. | Abstract: "ironic process\* OR Title: "ironic process\* OR Abstract: "mental control\*" OR Title: "mental control\*" | **("ironic process\*"****[Title/Abstract]) OR ("mental control\*"****[Title/Abstract])** | AB "ironic process\*" OR TI "ironic process\*" OR AB "mental control\*" OR TI "mental control\*" | **(TS=("ironic process\*")) OR TS=("mental control\*")** | With all the words: (ironic process) OR (mental control) OR (ironic effect) OR (ironic error) OR (avoidant instruction) OR (motor task) OR (pressure performance)With the exact phrase: ironic processWith at least one of the words: ironic effectWithout the words: --Where my words occur: anywhere in the articleArticles dated between 1998 and 2022 |
| S2 | “ironic effect\*”.ab. or “ironic effect\*”.ti. or “ironic error\*”.ab. or “ironic error\*”.ti. or “avoidant\* instructi\*”.ab. or “avoidant\* instructi\*”.ti. or “motor\* task\*”.ab. or “motor\* task\*”.ti. or “pressure\* perform\*”.ab. or “pressure\* perform\*”.ti. | AB "ironic effect\*" OR TI "ironic effect\*" OR AB "ironic error\*" OR TI "ironic error\*" OR AB "avoidant\* instructi\*" OR TI "avoidant\* instructi\*" OR AB "motor\* task\*" OR TI "motor\* task\*" OR AB "pressure\* perform\*" OR TI "pressure\* perform\*" | (AB "ironic effect\*" OR TI "ironic effect\*") OR (AB "ironic error\*" OR TI "ironic error\*") OR (AB "avoidant\* instructi\*" OR TI "avoidant\* instructi\*") OR (AB "motor\* task\*" OR TI "motor\* task\*") OR (AB "pressure\* perform\*" OR TI "pressure\* perform\*") | AB "ironic effect\*" OR TI "ironic effect\*" OR AB "ironic error\*" OR TI "ironic error\*" OR AB "avoidant\* instructi\*" OR TI "avoidant\* instructi\*" OR AB "motor\* task\*" OR TI "motor\* task\*" OR AB "pressure\* perform\*" OR TI "pressure\* perform\*" | "ironic effect\*".ab. or "ironic effect\*".ti. or "ironic error\*".ab. or "ironic error\*".ti. or "avoidant\* instructi\*".ab. or "avoidant\* instructi\*".ti. or "motor\* task\*".ab. or "motor\* task\*".ti. or "pressure\* perform\*".ab. or "pressure\* perform\*".ti. | Abstract: "ironic effect\*" OR Title: "ironic effect\*" OR Abstract: "ironic error\*" OR Title: "ironic error\*" OR Abstract: "avoidant\* instructi\*" OR Title: "avoidant\* instructi\*" OR Abstract: "motor\* task\*" OR Title: "motor\* task\*" OR Abstract: "pressure\* perform\*" OR Title: "pressure\* perform\*" | ("ironic effect\*"[Title/Abstract]) OR ("ironic error\*"[Title/Abstract]) OR ("avoidant\* instructi\*"[Title/Abstract]) OR ("motor\* task\*"[Title/Abstract]) OR ("pressure\* perform\*"[Title/Abstract]) | AB "ironic effect\*" OR TI "ironic effect\*" OR AB "ironic error\*" OR TI "ironic error\*" OR AB "avoidant\* instructi\*" OR TI "avoidant\* instructi\*" OR AB "motor\* task\*" OR TI "motor\* task\*" OR AB "pressure\* perform\*" OR TI "pressure\* perform\*" | **((((TS=("ironic effect\*")) OR TS=("ironic error\*")) OR TS=("avoidant\* instructi\*")) OR TS=("motor\* task\*")) OR TS=("pressure\* perform\*")** |  |
| S3 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 AND S2 | S1 |
| S4 | Limit S3 to peer reviewed journal; Document Types: Journal Article; Language: English; Publication Year: 1998 - 2022 | Limit S3 to peer reviewed journal; Publication Type: Academic Journal; Language: English; Publication Years: 1998 – 2022 | Limit S3 to peer reviewed journal; Publication Types: Article; Source Types: Journal; Language: English; Publication Years: 1998 – 2022 | Limit S3 to peer reviewed journal; Publication Type: Journal Articles; Source Types: Academic Journals; Language: English; Publication Years: 1998 – 2022 | Limit S3 to Document Types: Journal Article; Language: English; Publication Years: 1998 - 2022 | Limit S3 to peer reviewed; Publication Type: Journal; Language: English; Publication Year: 1998 - 2022 | Limit S3 to peer reviewed journal; Article Type: Journal Article; Language: English; Publication Year: 1998 - 2022 | Limit S3 to peer reviewed journal; Source Types: Publication Type: Academic Journal Language: English; Publication Years: 1998 – 2022 | Limit S3 to Document Types: Articles; Language: English; Publication Years: 1998 - 2022 | Limit S1 to Document Types: Articles; Language: English |
| Total | 20 | 5 | 8 | 1 | 14 | 4 | 15 | 9 | 31 | 5 |

*Track of all identified records*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Database | Records identified via S1 | Records identified via S2 | Records identified via S3 (S1 AND S2) | Record identified via limit S3 (Limit S1 for Google Scholar) | Records deduplicated – Duplicates removed via database removal feature | Included at title and abstract screening | Full-text screening required |
| Preliminary (pilot) search (September 20, 2020) | APA PsycInfo | 512 | 3,156 | 22 |  | - | - | - |
| First search (July 21, 2021) | Ovid MEDLINE(R) ALL 1946 to July 20, 2021, APA PsycInfo 1806 to July Week 2 2021 | 730 | 11,364 | 46 | 36 | 11 | 25 | 0 |
|  | Google Scholar (Advanced Search) | 114 | - | - | 38 | 0 | 38 | 0 |
| PsycArticles | 33 | 214 | 4 | 4 | 0 | 4 | 0 |
| PubMed | 272 | 6,517 | 15 | 15 | 0 | 15 | 0 |
| SPORTDiscus with Full Text, CINAHL | 135 | 2,798 | 16 | 15 | 3 | 12 | 0 |
| Web of Science (Core Collection) | 553 | 7,095 | 31 | 30 | 0 | 30 | 0 |
| Total |  |  |  |  | 138 | 14 | 124 | 0 |
| Updated search (January 01, 2022) | APA PsycInfo 1806 to December Week 4 2021 | 470 | 4,747 | 31 | 20 | 0 | 20 | 0 |
| CINAHL | 75 | 1,422 | 7 | 5 | 0 | 5 | 0 |
|  | Embase 1974 to 2021 Week 51 | 31 | 8,537 | 12 | 8 | 0 | 8 | 0 |
| ERIC | 14 | 271 | 1 | 1 | 0 | 1 | 0 |
| Google Scholar (Advanced Search) | 22 | - | - | 5 | 0 | 5 | 0 |
| MEDLINE 1950 to present | 265 | 6,837 | 15 | 14 | 0 | 14 | 0 |
| PsycArticles | 75 | 216 | 4 | 4 | 0 | 4 | 0 |
| PubMed | 246 | 6,737 | 16 | 15 | 0 | 15 | 0 |
| SPORTDiscus with Full Text | 65 | 1,522 | 10 | 9 | 0 | 9 | 0 |
| Web of Science (Core Collection) | 570 | 7,438 | 34 | 31 | 0 | 31 | 0 |
| Total |  |  |  |  | 112 | 0 | 112 | 0 |

*Summary identification of studies via databases*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Search date | Identification | Screening | Eligibility | Included |
|  | Records identified through databases | Records identified manually | Records identified from online  | Titles and abstracts screened | Records after duplicates removed | Records screened for relevance  | Records excluded | Full text articles assess for eligibility | Records excluded | Studies included in the synthesis |
| January 1, 2022 | 112 | 8 | 3 | 112 | 38 | 49 | 19 | 30 | 13 | 17 |

Notes: (1) Abbreviations as follows: S1 = search 1; S2 = search 2; S3 = search 1 and search 2; S4 = limit applied to search 3