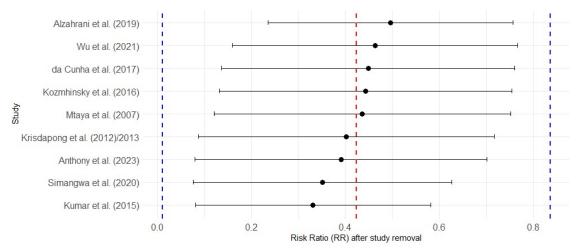
Supplementary material 1. Search strategy according to each database.

| PubMed | | . Search strategy according to each | | | | | | | |
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| Terms | PubN | PubMed = 588 (04/01/2022; update 08/03/2024) | | | | | | | |
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| OR "teenages"[Title/Abstract] OR "cavities"[Title/Abstract] OR "cavities"[Title/Abstract] OR "cavities"[Title/Abstract] OR "caries"[Title/Abstract] OR "life quality"[Title/Abstract]) OR "youths"[Title/Abstract] OR "young people"[Title/Abstract] OR "young people" #1 E #2 E #3 Scopus = 546 (04/01/2022; update 08/03/2024) (TITLE-ABS-KEY ("Dental decay") OR TITLE-ABS-KEY ("quality of life") OR TITLE-ABS-KEY ("mainum people") OR TITLE-ABS-KEY ("carious lesion") OR TITLE-ABS-KEY ("caries disease") OR TITLE-ABS-KEY ("Dental disease") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("caries disease") OR TITLE-ABS-KEY ("Dental disease") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("caries disease") OR TITLE-ABS-KEY ("Dental disease") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("caries disease") OR TITLE-ABS-KEY ("Dental disease") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("caries disease") OR TITLE-ABS-KEY ("Dental disease") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("activities of Daily Living") OR TITLE-ABS-KEY ("bental disease") OR TITLE-ABS-KEY (| 1 = | | | | | | | | |
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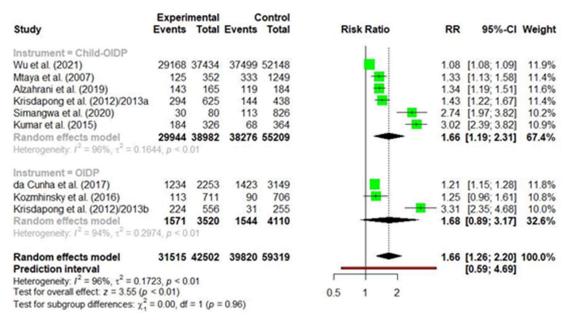
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| #1 E #2 E #2 | | | | | | |
| | | #1 E #2 E #3 | | | | |

| Study | Experiment Events Tot | | Control Total | Risk Ratio | RR | 95%-CI | Weight |
|---|--------------------------|---|---|------------|--|--|---|
| Alzahrani et al. (2019) Wu et al. (2021) da Cunha et al. (2017) Kozmhinsky et al. (2016) Mtaya et al. (2007) Krisdapong et al. (2012)/2013 Anthony et al. (2023) Simangwa et al. (2020) Kumar et al. (2015) | 349 82 | 4 37499 3 1423 1 90 2 333 1 175 8 215 0 113 | 184 52148 3149 706 1249 693 966 826 364 | # | 1.08 1.21 1.25 1.33 1.74 1.89 2.74 | [0.69; 0.94] [1.08; 1.09] [1.15; 1.28] [0.96; 1.61] [1.13; 1.58] [1.50; 2.00] [1.64; 2.18] [1.97; 3.82] [2.39; 3.82] | 11.3% 11.7% 11.6% 10.6% 11.2% 11.3% 11.3% 10.0% 10.8% |
| Random effects model Prediction interval Heterogeneity: $J^2 = 97\%$, $\tau^2 = 0.00$ Test for overall effect: $z = 2.94$ ($J^2 = 0.00$ | | 1 40035 | 60285 | 0.5 1 2 | | [1.15; 2.01] [0.54; 4.30] | 100.0% |

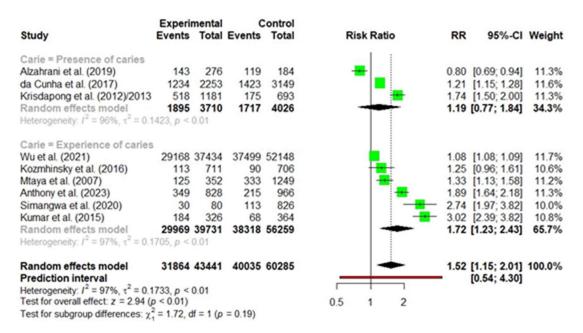
Supplementary material 2. General meta-analysis of the association between perceived impact of dental caries on daily activities of adolescents.



Supplementary material 3. Leave-one-out sensitivity analysis of the general meta-analysis.



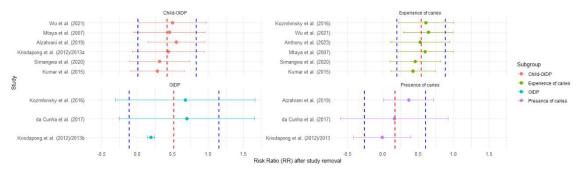
Supplementary material 4. Meta-analysis of the association between perceived impact of dental caries on daily activities of adolescents according to Child-OIDP and OIDP subgroups. Note: Experimental - with dental caries; Control - without dental caries. Different letters after Krisdapong et al.^{5,28} indicate different instruments used in the studies.



Supplementary material 5. Meta-analysis of the association between perceived impact of dental caries on daily activities of adolescents according to the presence or experience of the condition. Note: Experimental - with dental caries; Control - without dental caries. Different letters after Krisdapong et al.^{5,28} indicate different instruments used in the studies.

| | Experi | mental | C | ontrol | | | | |
|--|------------|----------|--------|--------|-----------------|------|--------------|--------|
| Study | Events | Total | Events | Total | Risk Ratio | RR | 95%-CI | Weight |
| Instrument = Child-OIDP | | | | | | | | |
| Alzahrani et al. (2019) | 143 | 276 | 119 | 184 | - | 0.80 | [0.69; 0.94] | 12.7% |
| Krisdapong et al. (2012)/2013a | | 625 | 144 | 438 | - i | | [1.22; 1.67] | 12.7% |
| Kumar et al. (2015) | 184 | 326 | 68 | 364 | - | 3.02 | [2.39: 3.82] | 12.2% |
| Mtaya et al. (2007) | 125 | 352 | 333 | 1249 | - | | [1.13; 1.58] | 12.7% |
| Simangwa et al. (2020) | 30 | 80 | 113 | 826 | - | | [1.97; 3.82] | 11.4% |
| Wu et al. (2021) | 29168 | 37434 | 37499 | 52148 | 4 | | [1.08; 1.09] | 13.2% |
| Random effects model | | 39093 | | 55209 | | 1.53 | [1.01; 2.31] | 74.9% |
| Heterogeneity: $I^2 = 96\%$, $\tau^2 = 0.25$ | 559, p < 0 | .01 | | | | | | |
| Instrument = OIDP | | | | | | | | |
| da Cunha et al. (2017) | 1234 | 2253 | 1423 | 3149 | + | 1.21 | [1.15; 1.28] | 13.1% |
| Kozmhinsky et al. (2016) | 113 | 711 | 90 | 706 | + + + | 1.25 | [0.96; 1.61] | 12.0% |
| Random effects model | | 2964 | | 3855 | ♦ | 1.21 | [1.15; 1.28] | 25.1% |
| Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $\rho = 0$ | = 0.83 | | | | | | | |
| Random effects model | | 42057 | | 59064 | | 1.44 | [1.06; 1.96] | 100.0% |
| Heterogeneity: $I^2 = 95\%$, $\tau^2 = 0.18$ | | | | | | | | |
| Test for subgroup differences: χ ₁ ² | = 1.18, df | = 1 (p = | 0.28) | | 0.5 1 2 | | | |
| _ | | | 1111 | | Risk Ratio (RR) | | | |

Supplementary material 6. Sensitivity analysis of the meta-analysis on the association between the perceived impact of dental caries on daily activities of adolescents, according to Child-OIDP and OIDP subgroups, after the exclusion of Krisdapong et al.^{5,28}b.



Supplementary material 7. Leave-one-out sensitivity analysis of the subgroups metaanalysis (experience of caries versus presence of caries, and OIDP versus Child-OIDP).