

Appendix 1: Final Search Strings

PUBMED

Tanning + cancer

((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND (((("skin neoplasms"[MeSH Terms] OR skin cancer OR skin cancers OR skin neoplasm OR skin neoplasms OR ((cutaneous OR skin* OR dermatol*) AND (basal cell OR squamous cell)) OR non-melanoma skin cancer OR non-melanoma skin cancers OR "Carcinoma, Basal Cell"[Mesh] OR "basal cell carcinoma" OR "basal cell carcinomas" OR "Carcinoma, Squamous Cell"[Mesh] OR "squamous cell carcinoma" OR "squamous cell carcinomas" OR Melanoma[Mesh] OR melanoma*))))))

English: 955

All: 1002

Tanning + “benefits”

((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND (“vitamin D” OR “vitamin D”[mh] OR “mood enhancing” OR “mood-enhancing” OR “mood enhancement” OR “endorphin” OR “endorphins” OR seasonal affective disorder[mh] OR depression[mh] OR anxiety[mh] OR “pain relief” OR “photoprotection” OR “photo protection” OR “photoprotective” OR “phototherapy” OR “beauty” OR cosmetic[mh] OR “acne” OR “psoriasis”))

English: 549

All: 571

Tanning + cancer + “benefits”

((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND (((("skin neoplasms"[MeSH Terms] OR skin cancer OR skin cancers OR skin neoplasm OR skin neoplasms OR ((cutaneous OR skin* OR derma*) AND (basal cell OR squamous cell)) OR non-melanoma skin cancer OR non-melanoma skin cancers OR "Carcinoma, Basal Cell"[Mesh] OR "basal cell carcinoma" OR "basal cell carcinomas" OR "Carcinoma, Squamous Cell"[Mesh] OR "squamous cell carcinoma" OR "squamous cell carcinomas" OR Melanoma[Mesh] OR melanoma*)))) AND (“vitamin D” OR “vitamin D”[mh] OR “mood enhancing” OR “mood-enhancing” OR “mood enhancement” OR “endorphin” OR “endorphins” OR seasonal affective disorder[mh] OR depression[mh] OR anxiety[mh] OR “pain relief” OR “photoprotection” OR “photo protection” OR “photoprotective” OR “phototherapy” OR “beauty” OR cosmetic[mh] OR “acne” OR “psoriasis”))

English: 363

All: 379

EMBASE

Tanning + Cancer

(indoor AND (tan OR tanning OR sunburn OR sunburns OR 'sun burn' OR 'sun burns' OR sunbathing OR suntan OR sunlight OR 'ultraviolet ray' OR 'ultraviolet rays' OR 'uv tanning') OR 'indoor tanning' OR sunbed OR sunbeds OR 'sun bed' OR 'sun beds' OR 'tanning bed' OR 'tanning beds' OR 'tanning booth' OR 'tanning booths' OR 'tanning salon' OR 'tanning salons' OR 'sun tan parlor' OR 'sun tan parlors' OR solarium OR solaria OR sunlamp OR 'sun lamp' OR sunlamps OR 'sun lamps' OR 'artificial tanning' OR 'non-solar ultraviolet radiation' OR 'non-solar uv radiation' OR 'nonsolar ultraviolet radiation' OR 'nonsolar uv radiation') AND ('skin cancer' OR 'skin neoplasm' OR 'skin cancers' OR 'skin neoplasms' OR 'nonmelanoma skin cancer' OR 'nonmelanoma skin cancers' OR 'non-melanoma skin cancer' OR 'non-melanoma skin cancers' OR 'basal cell' OR 'squamous cell' OR melanoma OR melanomas)

English: 1179

All: 1242

Tanning + “benefits”

(indoor AND (tan OR tanning OR sunburn OR sunburns OR 'sun burn' OR 'sun burns' OR sunbathing OR suntan OR sunlight OR 'ultraviolet ray' OR 'ultraviolet rays' OR 'uv tanning') OR 'indoor tanning' OR sunbed OR sunbeds OR 'sun bed' OR 'sun beds' OR 'tanning bed' OR 'tanning beds' OR 'tanning booth' OR 'tanning booths' OR 'tanning salon' OR 'tanning salons' OR 'sun tan parlor' OR 'sun tan parlors' OR solarium OR solaria OR sunlamp OR 'sun lamp' OR sunlamps OR 'sun lamps' OR 'artificial tanning' OR 'non-solar ultraviolet radiation' OR 'non-solar uv radiation' OR 'nonsolar ultraviolet radiation' OR 'nonsolar uv radiation') AND ('cosmetic' OR 'beauty' OR 'vitamin D' OR 'mood' OR 'mood-enhancing' OR 'mood-enhancement' OR 'photo protection' OR 'photoprotection' OR 'photoprotective' OR 'anxiety' OR 'depression' OR 'endorphin' OR 'endorphins' OR 'phototherapy' OR 'seasonal affective disorder' OR 'pain relief' OR 'acne' OR 'psoriasis')

English: 572

All: 618 + acne 706 all, 655 English)

Tanning + “benefits” + cancer

(indoor AND (tan OR tanning OR sunburn OR sunburns OR 'sun burn' OR 'sun burns' OR sunbathing OR suntan OR sunlight OR 'ultraviolet ray' OR 'ultraviolet rays' OR 'uv tanning') OR 'indoor tanning' OR sunbed OR sunbeds OR 'sun bed' OR 'sun beds' OR 'tanning bed' OR 'tanning beds' OR 'tanning booth' OR 'tanning booths' OR 'tanning salon' OR 'tanning salons' OR 'sun tan parlor' OR 'sun tan parlors' OR solarium OR solaria OR sunlamp OR 'sun lamp' OR sunlamps OR 'sun lamps' OR 'artificial tanning' OR 'non-solar ultraviolet radiation' OR 'non-solar uv radiation' OR 'nonsolar ultraviolet radiation' OR 'nonsolar uv radiation') AND ('skin cancer' OR 'skin neoplasm' OR 'skin cancers' OR 'skin neoplasms' OR 'nonmelanoma skin cancer' OR 'nonmelanoma skin cancers' OR 'non-melanoma skin cancer' OR 'non-melanoma skin cancers' OR 'basal cell' OR 'squamous cell' OR melanoma OR melanomas) AND ('cosmetic' OR 'beauty' OR 'vitamin D' OR 'mood' OR 'mood-enhancing' OR 'mood-enhancement' OR 'photo protection' OR 'photoprotection' OR 'photoprotective' OR 'anxiety' OR 'depression' OR 'endorphin' OR 'endorphins' OR 'phototherapy' OR 'seasonal affective disorder' OR 'pain relief' OR 'acne' OR 'psoriasis')

English: 280

All: 300 (acne 304 all, English 284) (psoriasis 308, 288 English only)

WEB OF SCIENCE

Tanning + cancer

((((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND (((("skin neoplasms"[MeSH Terms] OR skin cancer OR skin cancers OR skin neoplasm OR skin neoplasms OR ((cutaneous OR skin* OR dermatol*) AND (basal cell OR squamous cell)) OR non-melanoma skin cancer OR non-melanoma skin cancers OR "Carcinoma, Basal Cell"[Mesh] OR "basal cell carcinoma" OR "basal cell carcinomas" OR "Carcinoma, Squamous Cell"[Mesh] OR "squamous cell carcinoma" OR "squamous cell carcinomas" OR Melanoma[Mesh] OR melanoma*))))))

English: 869

All: 887

Tanning + "benefits"

((((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND ("vitamin D" OR "vitamin D"[mh] OR "mood enhancing" OR "mood-enhancing" OR "mood enhancement" OR "endorphin" OR "endorphins" OR seasonal affective disorder[mh] OR depression[mh] OR anxiety[mh] OR "pain relief" OR "photoprotection" OR "photo protection" OR "photoprotective" OR "phototherapy" OR "beauty" OR cosmetic[mh] OR "acne" OR "psoriasis"))

English: 246

All: 250

Tanning + cancer + "benefits"

((((((((("Sunburn"[Mesh] OR "Sunbathing"[Mesh] OR "Suntan"[Mesh] OR Sunlight/adverse effects[mh] OR Ultraviolet rays/adverse effects[mh]) AND indoor) OR "indoor tanning" OR "sunbed" OR "sunbeds" OR "sun bed" OR "sun beds" OR "tanning bed" OR "tanning beds" OR "tanning booth" OR "tanning booths" OR "tanning salon" OR "tanning salons" OR suntan parlors OR "solarium" OR "solariums" OR "solaria" OR "sunlamp" OR "sunlamps" OR "sun lamp" OR "sun lamps" OR "artificial tanning" OR "UV tanning" OR "non-solar ultraviolet radiation")))) AND (((("skin neoplasms"[MeSH Terms] OR skin cancer OR skin cancers OR skin neoplasm OR skin neoplasms OR ((cutaneous OR skin* OR derma*) AND (basal cell OR squamous cell)) OR non-melanoma skin cancer OR non-melanoma skin cancers OR "Carcinoma, Basal Cell"[Mesh] OR "basal cell carcinoma" OR "basal cell carcinomas" OR "Carcinoma, Squamous Cell"[Mesh] OR "squamous cell carcinoma" OR "squamous cell carcinomas" OR Melanoma[Mesh] OR melanoma*)))) AND ("vitamin D" OR "vitamin D"[mh] OR "mood enhancing" OR "mood-enhancing" OR "mood enhancement" OR "endorphin" OR "endorphins" OR seasonal affective disorder[mh] OR depression[mh] OR anxiety[mh] OR "pain relief" OR "photoprotection" OR

“photo protection” OR “photoprotective” OR “phototherapy” OR “beauty” OR cosmetic[mh] OR “acne”
OR “psoriasis”)))

English: 144

All: 146