**Additional File 1: Data Extraction Form** - Medical & Health Sciences Research landscapes

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| **Authors and article characteristics** |
| **Article ID** | **Title** | **Institution of the CA\*** | **Specialty of the CAa** | **Professional qualification of the CA\*** | **Numbers of authors**  | **Numbers of institutions** | **Numbers of oversea authors** | **Numbers of oversea institutions** | **Number of specialty/****disciplinary of all authors** | **Journal name** | **Journal locality** | **Journal scope** | **Journal subscription** |
| First Name & Year | Full title | Name, country | 1. Family medicine
2. Public health
3. Medical
4. Pediatric
5. Psychiatry
6. Surgery
7. O&G
8. Orthopedic
9. ENT
10. Eye
11. Pharmacy
12. Nursing
13. Dietetic
14. Biomedical
 | 1. PhD (clinician)
2. PhD (Non-clinician)
3. MD
4. Master (MMed)
5. Master (Non-MMed)
6. Bachelor
7. Diploma
8. Others (lower degrees)
9. Not stated
 | 1 to \_ | 1 to \_ | 0 to \_ | 0 to \_ | 1 to \_ | Full name  | 1. Local- Malaysia
2. Regional- within Asia
3. International
 | 1. General- multidisciplinary
2. Specific
 | 1. OA
2. Subscription
 |
| Eg. Chan KE 1962(2 variables) | *String* | *String* (2 variables) | *Nominal* | *Ordinal*Highest professional qualification | *Scale*  | *Scale* | *Scale* | *Scale*Including local authors affiliated with oversea institutions | *Scale* | *String* | *Ordinal*Regional refers to Asian regions | *Nominal* General vs. discipline-specific | *Nominal* open access vs. traditional subscription-based |

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| **Research characteristics** |
| **Type of article** | **Field of study** | **Level of study**  | **Class of study**  | **Type of quantitative study** | **Data collection** | **Years when the study conducted, completed** | **Numbers of study site** | **Settinga** | **Condition/Organ system studiedb** | **Measuresc** | **Intervention** |
| 1. Research (original & reviews)
2. Research protocol
3. Audits
4. Case report/series
5. Commentary, quizzes, CME etc
6. Letters
 | 1. Clinical
2. Public health
3. Health services
4. Laboratory
5. Education
 | 1. Primary
2. Secondary (database)
3. Secondary (review)
4. Opinion
 | 1. Quantitative
2. Qualitative
3. Mixed
4. Others
 | 1. Prevalence
2. Diagnostic
3. Diagnostic test
4. Prognostic
5. Etiologic
6. Interventional
7. Psychometric study
 | 1. Cross-sectional
2. Cohort
3. Case-control
4. Nested case-control
5. Randomized controlled trial (RCT)
6. Quasi-RCT
7. Cross-over
8. Secondary data retrieval
 | Year started, year completed | 1 to \_ | 1. Hospital
2. Clinic
3. Community
4. Laboratory
5. University/ college
 | ***ICPC-2e chapters- See below*** | Subjective: 1. Self-report
2. Other's report

Objective: 1. Operator dependence2. Non-operator-dependence eg. lab analyser | 1. No
2. Drug
3. Device, Tool or App
4. Surgical procedure
5. Psychological or behavioral
6. Socio-economic
7. Health services
 |
| *Nominal**(Only proceed with no. 1)* | *Nominal* | *Nominal* | *Nominal* | *Nominal* | *Nominal* | *Scale*2011, 2015(2 variables) | *Scale*  | *Nominal* | *Nominal*(2 variables- primary and secondary) | *Nominal* | *Nominal* |

CA= corresponding author; CME= continuous medial education activity; Eg.= for example; ENT= ear, nose and throat; ICPC-2= International Classification of Primary Care- second edition; ID= identity; MMed= master in medicine degree; OA= open-access; O&G= obstetrics and gynecology; Qs= questionnaires

a Up to two corresponding authors

b consists of two variables, the primary and secondary settings

c consists of two variables, the primary and secondary conditions

d consists of two variables, the subjective and objective outcome measures

**International Classification of Primary Care (ICPC) chapters and components**

(A) General and unspecified

(B) Blood, blood forming organs, lymphatics, spleen

(D) Digestive

(F) Eye

(H) Ear

(K) Circulatory

(L) Musculoskeletal

(N) Neurological

(P) Psychological

(R) Respiratory

(S) Skin

(T) Endocrine, metabolic and nutritional

(U) Urology

(W) Pregnancy, childbirth, family planning

(X) Female genital system and breast

(Y) Male genital system

(Z) Social problems