**Appendix:**

**Search Strategies for PubMed and EMBASE**

**PubMed**

#1

"kangaroo-mother care method" [mh] OR "kangaroo mother care" OR "skin to skin" OR "kangaroo care"

#2

Biomarkers [MeSH Terms:noexp] OR "biological markers” OR "biological marker" OR "biochemical marker" OR "biochemical markers" OR Biomarkers [mh] OR Biomarkers OR biomarker OR hormones OR Cortisone [mh] OR cortisone OR cortisones OR cortisol OR cortisols OR hydrocortisone [mh] OR hydrocortisone OR hydrocortisone OR hydrocortisones OR hydrocortisonum OR oxytocin[mh] OR oxytocin OR

Oxidative stress [mh] OR “oxidative stress” OR “stress hormones” OR catecholamines [mh] OR catecholamines OR hypoxanthine [mh] OR hypoxanthine OR xanthines [mh] OR xanthines OR xanthine [mh] OR xanthine OR “uric acid” [mh] OR “uric acid”

#3

"infant"[mh] OR infant OR infants

#4

#1 AND #2 AND #3

Filters: **English, from 2017 - 2020**

**EMBASE**

#1

‘kangaroo care’/exp OR ‘kangaroo care’ OR ‘kangaroo mother care’ OR ‘skin to skin’

#2

'biological marker'/exp OR 'biological markers' OR 'biological marker' OR 'biochemical marker' OR 'biochemical markers' OR biomarkers OR hormone

#3

‘cortisone’/exp OR cortisone OR cortisol OR ‘hydrocortisone’/exp OR hydrocortisone OR hydrocortisonum

#4

'hypoxanthine'/exp OR hypoxanthine OR ‘xanthine oxidase’/exp OR ‘xanthine oxidase’

#5

'hypoxanthine phosphoribosyltransferase'/exp OR 'hypoxanthine phosphoribosyltransferase'

#6

**'catecholamine'**/exp OR **catecholamine** OR **catecholamines OR 'xanthine oxidase'**/exp OR **'xanthine oxidase'** OR **xanthine** OR **xanthines OR 'uric acid'**/exp OR **'uric acid'**

**#7**

'infants'/exp OR infant OR infants

#8

#2 OR #3 OR #4 OR #5 OR #6

#9

#1 AND #7 AND #8

#10

#9 AND [english]/lim