**Supplementary Appendix**

This appendix has been provided by the authors to give readers additional information about their work

Supplemental Appendix Table of Contents

S1 (Search Strategy) ……………………………………………………………………………………………………………… Pages 2-3

**Appendix S1: Search Strategy**

|  |
| --- |
| **Ovid MEDLINE(R) ALL <1946 to March 01, 2022>** |
| 1 | exp Hematopoietic Stem Cell Transplantation/ or exp Stem Cell Transplantation/ or exp Bone Marrow Transplantation/ |
| 2 | (((hematopoietic or bone marrow or stem cell or cord blood or peripheral blood or allogen\*) adj3 transplant\*) or tandem transplant\* or allo-HCT or allotransplant\* or hsct or pbsc or hct or bmt).mp. |
| 3 | 1 or 2 |
| 4 | (BNT162b2 or Pfizer or BioNTech or Moderna or "mRNA-1273" or comirnaty or spikevax or elasomeran or Tozinameran or (mrna\* and (vaccin\* or immuniz\* or immuns\*))).mp. |
| 5 | (dose\* or dosag\* or dosing\* or boost\* or third\* or three\* or triple\*).mp. |
| 6 | 3 and 4 and 5 |
| 7 | limit 6 to yr="2020 -Current" |
| **Scopus** |
| 1 | TITLE-ABS-KEY(((h\*ematopoietic OR "bone marrow" OR "stem cell" OR "cord blood" OR "peripheral blood" OR allogen\*) W/3 transplant\*) OR "tandem transplant\*" OR allo-HCT or allotransplant\* or hsct or pbsc or hct or bmt) |
| 2 | TITLE-ABS-KEY(BNT162b2 or Pfizer OR BioNTech or Moderna or "mRNA-1273" or comirnaty or spikevax or elasomeran or Tozinameran or (mrna\* and (vaccin\* or immuniz\* or immuns\*))) |
| 3 | TITLE-ABS-KEY ( dose\* OR dosag\* OR dosing\* OR boost\* OR third\* OR three\* OR triple\*)  |
| 4 | #1 AND #2 AND #3 |
|   | Limit to 2020 - current |
| **Web of Science: Core Collection (Science Citation Index Expanded, Conference Proceedings Citation Index – Science, Conference Proceedings Citation Index – Social Science & Humanities, Emerging Sources Citation Index), BIOSIS Citation Index, Current Contents Connect** |
| 1 | TS=(((h\*ematopoietic OR "bone marrow" OR "stem cell" OR "cord blood" OR "peripheral blood" OR allogen\*) NEAR/3 transplant\*) OR "tandem transplant\*" OR allo-HCT or allotransplant\* or hsct or pbsc or hct or bmt) |
| 2 | TS=(BNT162b2 or Pfizer OR BioNTech or Moderna or "mRNA-1273" or comirnaty or spikevax or elasomeran or Tozinameran or (mrna\* and (vaccin\* or immuniz\* or immuns\*))) |
| 3 | TS=( dose\* OR dosag\* OR dosing\* OR boost\* OR third\* OR three\* OR triple\*)  |
| 4 | #1 AND #2 AND #3 |
|   | Limit to 2020 - current |
| **CENTRAL (Wiley)** |
| 1 | (((h\*ematopoietic OR "bone marrow" OR "stem cell" OR "cord blood" OR "peripheral blood" OR allogen\*) NEAR/3 transplant\*) OR "tandem transplant\*" OR allo-HCT or allotransplant\* or hsct or pbsc or hct or bmt) |
| 2 | (BNT162b2 or Pfizer OR BioNTech or Moderna or "mRNA-1273" or comirnaty or spikevax or elasomeran or Tozinameran or (mrna\* and (vaccin\* or immuniz\* or immuns\*))) |
| 3 | ( dose\* OR dosag\* OR dosing\* OR boost\* OR third\* OR three\* OR triple\*) |
| 4 | #1 AND #2 AND #3 |
|   | Limit to 2020 - current, Trials |