**Search strategy implemented in search string**

The search was conducted in October 2019. We developed a search strategy including three main search terms: (“biomedical data sharing”, OR “clinical data sharing”) AND（“China ”） AND（“ethical challenges” OR “governance”） within the databases that we used. Other relevant search terms pertaining to these terms were identified. Articles were selected based on a set of inclusion and exclusion criteria. The identified articles were managed in an EndNote.

|  |  |  |  |
| --- | --- | --- | --- |
| Database | Search date | Search terms | Number of results |
| Pubmed | 15/10/2019 | “biomedical data sharing”, OR “clinical data sharing”AND“China ” AND“ethical challenges” OR “governance”[Title/Abstract] | 43 |
| EMBASE | 15/10/2019 | “biomedical data sharing”, OR “clinical data sharing”)AND“China ” AND“ethical challenges” OR “governance” [Title/Abstract] | 78 |
| CNKI | 15/10/2019 | “临床数据共享”（clinical data sharing）OR“健康医疗数据共享”(health data sharing)“医疗数据共享”(medical data sharing)OR“生物医学数据共享”(biomedical data sharing)AND “伦理”(ethics)OR“管理”(management)OR“挑战”(challenge) [主题](theme) | 316 |
| WANFANG | 15/10/2019 | “临床数据共享”（clinical data sharing）OR“健康医疗数据共享”(health data sharing)“医疗数据共享”(medical data sharing)OR“生物医学数据共享”(biomedical data sharing)AND “伦理”(ethics)OR“管理”(management)OR“挑战”(challenge) [title/keyword] | 1264 |
| GOOGLE SCHOLAR | 18/10/2019 | “biomedical data sharing”, OR “clinical data sharing” AND“China ” AND“ethical challenges” OR “governance” | 218 |