**Appendix. Search Strategies**

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Date of completed search: August 7, 2023

Total number of articles (before de-duplication): 30706

Total number of articles (after de-duplication): 9373

**Database: MEDLINE (OVID)**

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| **Set #** | **Search Strategy** | **Results** |
| 1Wearables | exp Wearable Electronic Devices/ OR exp Fitness Trackers/ OR exp Remote Sensing Technology/ OR exp Telemetry/ OR (wearable OR wearables OR smartwatch OR smartwatches OR fitbit OR garmin OR "apple watch" OR "apple watches" OR telemetry OR telemonitor\*).ti,ab. OR ((smart OR remote OR remotely OR continuous OR step OR steps OR fitness OR worn OR electronic OR biometric OR wireless OR "body worn" OR body-worn) adj5 (sensor OR sensors OR biosensor OR biosensors OR gyroscope OR gyroscopes OR sensing OR sensed OR device OR devices OR system OR watch OR watches OR tracker OR trackers OR watch OR watches OR instrument OR instruments OR technology OR technologies OR technologic OR monitor OR monitors OR monitoring OR counter OR counters OR fabric OR textile OR textiles OR clothing OR garment OR garments OR clothes OR accessor\* OR wrist\* OR belt OR belts OR ring OR rings)).ti,ab. OR ((remote OR remotely OR virtual OR virtually OR fitness) adj5 (tracking OR tracked OR monitor\* OR measur\* OR sensing OR sensed)).ti,ab. | 207026 |
| 2Discharge/readmission keywords | exp Patient Discharge/ OR exp Patient Readmission/ OR (discharge OR discharges OR discharged OR discharging OR readmission OR readmissions OR readmitted OR readmitting OR rehospitalization OR rehospitalizations OR rehospitalized).ti,ab. | 381405 |
| 3 | 1 AND 2 | 4634 |
| 4 | 3 NOT (editorial OR comment OR letter OR case reports OR clinical conference).pt. | 4299 |
| 5 | Limit 4 to da=20000101-20230831 | 4015 |

**Database: Embase (Elsevier)**

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| **Set #** | **Search Strategy** | **Results** |
| 1Wearables | 'wearable computer'/exp OR 'smart watch'/exp OR 'remote sensing'/exp OR 'activity tracker'/exp OR 'telemetry'/exp OR 'biotelemetry device'/exp OR (wearable OR wearables OR smartwatch OR smartwatches OR fitbit OR garmin OR 'apple watch' OR 'apple watches' OR telemetry OR telemonitor\*):ti,ab OR ((smart OR remote OR remotely OR continuous OR step OR steps OR fitness OR worn OR electronic OR biometric OR wireless OR 'body worn' OR body-worn) NEAR/5 (sensor OR sensors OR biosensor OR biosensors OR gyroscope OR gyroscopes OR sensing OR sensed OR device OR devices OR system OR watch OR watches OR tracker OR trackers OR watch OR watches OR instrument OR instruments OR technology OR technologies OR technologic OR monitor OR monitors OR monitoring OR counter OR counters OR fabric OR textile OR textiles OR clothing OR garment OR garments OR clothes OR accessor\* OR wrist\* OR belt OR belts OR ring OR rings)):ti,ab OR ((remote OR remotely OR virtual OR virtually OR fitness) NEAR/5 (tracking OR tracked OR monitor\* OR measur\* OR sensing OR sensed)):ti,ab | 266970 |
| 2Discharge/readmission keywords | 'hospital discharge'/exp OR 'hospital readmission'/exp OR (discharge OR discharges OR discharged OR discharging OR readmission OR readmissions OR readmitted OR readmitting OR rehospitalization OR rehospitalizations OR rehospitalized):ti,ab | 709046 |
| 3 | 1 AND 2 | 9999 |
| 4 | #3 NOT ('case report'/exp OR 'editorial'/exp OR [editorial]/lim OR 'letter'/exp OR [letter]/lim OR 'note'/exp OR [note]/lim OR [conference abstract]/lim OR 'conference abstract'/exp OR 'conference abstract'/it) | 4827 |
| 5 | #4 AND [01-01-2000]/sd | 4389 |

**Database: Scopus (Elsevier)**

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| **Set #** | **Search Strategy** | **Results** |
| 1Wearables | TITLE-ABS(wearable OR wearables OR smartwatch OR smartwatches OR fitbit OR garmin OR {apple watch} OR {apple watches} OR telemetry OR telemonitor\*) OR TITLE-ABS((smart OR remote OR remotely OR continuous OR step OR steps OR fitness OR worn OR electronic OR biometric OR wireless OR body-worn) W/5 (sensor OR sensors OR biosensor OR biosensors OR gyroscope OR gyroscopes OR sensing OR sensed OR device OR devices OR system OR watch OR watches OR tracker OR trackers OR watch OR watches OR instrument OR instruments OR technology OR technologies OR technologic OR monitor OR monitors OR monitoring OR counter OR counters OR fabric OR textile OR textiles OR clothing OR garment OR garments OR clothes OR accessory OR accessories OR accessorized OR accessorizing OR wrist OR wrists OR belt OR belts OR ring OR rings)) OR TITLE-ABS((remote OR remotely OR virtual OR virtually OR fitness) W/5 (tracking OR tracked OR monitor\* OR measur\* OR sensing OR sensed)) | 1366918 |
| 2Discharge/readmission keywords | TITLE-ABS(discharge OR discharges OR discharged OR discharging OR readmission OR readmissions OR readmitted OR readmitting OR rehospitalization OR rehospitalizations OR rehospitalized) | 915056 |
| 3 | 1 AND 2 | 17213 |
| 4 | Selected Publication Type: article, review | 12625 |
| 5 | Selected Subject Areas: Engineering, Medicine, Materials Science, computer science, nursing | 8126 |
| 5 | Publication date filter: 2000 - present | 7288 |

**Database: Global Health (EBSCOhost)**

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| **Set #** | **Search Strategy** | **Results** |
| 1Wearables | TI (wearable OR wearables OR smartwatch OR smartwatches OR fitbit OR garmin OR "apple watch" OR "apple watches" OR telemetry OR telemonitor\*) OR AB (wearable OR wearables OR smartwatch OR smartwatches OR fitbit OR garmin OR "apple watch" OR "apple watches" OR telemetry OR telemonitor\*) OR TI ((smart OR remote OR remotely OR continuous OR step OR steps OR fitness OR worn OR electronic OR biometric OR wireless OR "body worn" OR body-worn) N5 (sensor OR sensors OR biosensor OR biosensors OR gyroscope OR gyroscopes OR sensing OR sensed OR device OR devices OR system OR watch OR watches OR tracker OR trackers OR watch OR watches OR instrument OR instruments OR technology OR technologies OR technologic OR monitor OR monitors OR monitoring OR counter OR counters OR fabric OR textile OR textiles OR clothing OR garment OR garments OR clothes OR accessor\* OR wrist\* OR belt OR belts OR ring OR rings)) OR AB ((smart OR remote OR remotely OR continuous OR step OR steps OR fitness OR worn OR electronic OR biometric OR wireless OR "body worn" OR body-worn) N5 (sensor OR sensors OR biosensor OR biosensors OR gyroscope OR gyroscopes OR sensing OR sensed OR device OR devices OR system OR watch OR watches OR tracker OR trackers OR watch OR watches OR instrument OR instruments OR technology OR technologies OR technologic OR monitor OR monitors OR monitoring OR counter OR counters OR fabric OR textile OR textiles OR clothing OR garment OR garments OR clothes OR accessor\* OR wrist\* OR belt OR belts OR ring OR rings)) OR TI ((remote OR remotely OR virtual OR virtually OR fitness) adj5 (tracking OR tracked OR monitor\* OR measur\* OR sensing OR sensed)) OR AB ((remote OR remotely OR virtual OR virtually OR fitness) N5 (tracking OR tracked OR monitor\* OR measur\* OR sensing OR sensed)) | 22070 |
| 2Discharge/readmission keywords | TI (discharge OR discharges OR discharged OR discharging OR readmission OR readmissions OR readmitted OR readmitting OR rehospitalization OR rehospitalizations OR rehospitalized) OR AB (discharge OR discharges OR discharged OR discharging OR readmission OR readmissions OR readmitted OR readmitting OR rehospitalization OR rehospitalizations OR rehospitalized) | 59751 |
| 3 | 1 AND 2 | 479 |
| 4 | Publication date filter: 2000 - present | 451 |