

**Article title:** The Association Between Hospital Financial Performance and the Quality of Care – A Scoping Literature Review

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**Authors' information:** Katarzyna Dubas-Jakóbczyk<sup>1</sup>, Ewa Kocot<sup>1</sup>, Marzena Tambor<sup>1</sup>, Przemysław Szetela<sup>1</sup>, Olga Kostrzevska<sup>2</sup>, Richard B. Siegrist Jr<sup>3</sup>, Wilm Quentin<sup>4,5\*</sup>

<sup>1</sup>Health Economics and Social Security Department, Institute of Public Health, Faculty of Health Sciences, Jagiellonian University Medical College, Krakow, Poland.

<sup>2</sup>Institute of Public Health, Faculty of Health Sciences, Jagiellonian University Medical College, Krakow, Poland.

<sup>3</sup>Harvard T.H. Chan School of Public Health, Boston, MA, USA.

<sup>4</sup>Department of Health Care Management, Technische Universität Berlin, Berlin, Germany.

<sup>5</sup>European Observatory on Health Systems and Policies, WHO European Centre for Health Policy Eurostation (Office 07C020), Brussels, Belgium.

(\*Corresponding author: Email: [Katarzyna.Dubas@uj.edu.pl](mailto:Katarzyna.Dubas@uj.edu.pl))

**Supplementary file 2.** Search Results Per Database and List of Organizational Websites Screened

**Search results per database:**

**Database: ABI/INFORM**

**Date of the search: 09/08/2021**

| Search    | Query  | Results |
|-----------|--|---------|
| <u>S6</u> | ((ab(hospital*) OR ab(inpatient*)) AND PEER(yes)) AND (((ab(financial performance) OR ab(financial standing) OR ab(financial situation) OR ab(financial indicator*) OR ab(financial condition*) OR ab(profit*) OR ab(operating margin*) OR ab(debt*) OR ab(financial failure) OR ab(financial distress)) AND PEER(yes)) OR ((ab(financial measure*) OR ab(financial parameter*) OR ab(liquidity) OR ab(asset turnover) OR ab(cash flow)) AND PEER(yes))) AND ((ab(quality) OR ab(staff*) OR ab(technology) OR ab(patient* safety) OR ab(adverse event*) OR ab(health outcome*) OR ab(readmission*) OR ab(complication*) OR ab(patient* satisfaction)) AND PEER(yes)) | 644     |
| <u>S5</u> | ab(quality) OR ab(staff*) OR ab(technology) OR ab (patient* safety) OR ab (adverse event*) OR ab (health outcome*) OR ab(readmission*) OR ab(complication*) OR ab (patient* satisfaction)  | 213155  |
| <u>S4</u> | ((ab (financial performance) OR ab (financial standing) OR ab (financial situation) OR ab (financial indicator*) OR ab(financial condition*) OR ab(profit*) OR ab(operating margin*) OR ab(debt*) OR ab(financial failure) OR ab(financial distress)) AND PEER(yes)) OR ((ab(financial measure*) OR ab(financial parameter*) OR ab(liquidity) OR ab(asset turnover) OR ab(cash flow)) AND PEER(yes))   | 78731   |
| <u>S3</u> | ab (financial measure*) OR ab (financial parameter*) OR ab(liquidity) OR ab (asset turnover) OR ab (cash flow)   | 23739   |

|           |   |       |
|-----------|---|-------|
| <u>S2</u> | ab (financial performance) OR ab (financial standing) OR ab (financial situation) OR ab (financial indicator*) OR ab (financial condition*) OR ab(profit*) OR ab (operating margin*) OR ab(debt*) OR ab (financial failure) OR ab(financial distress) | 65268 |
| <u>S1</u> | ab(hospital*) OR ab(inpatient*)   | 24893 |

**Database: Business Source Complete**

**Date of the search: 04/08/2021**

Only in English

Expanders - Apply equivalent subjects

| Search     | Query   | Actions   |
|------------|---|-----------|
| <u>#30</u> | S3 AND S19 AND S29  | 1,703     |
| <u>#29</u> | S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28                                     | 1,606,010 |
| <u>#28</u> | AB complication*  | 10,414    |
| <u>#27</u> | AB adverse event*   | 3,779     |
| <u>#26</u> | AB readmission*   | 1,342     |
| <u>#25</u> | AB patient* satisfaction  | 3,715     |
| <u>#24</u> | AB patient* safety  | 8,662     |
| <u>#23</u> | AB health outcome*  | 16,973    |
| <u>#22</u> | AB technology   | 1,062,141 |
| <u>#21</u> | AB staff*   | 172,312   |
| <u>#20</u> | AB quality  | 394,211   |
| <u>#19</u> | S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 | 876,981   |
| <u>#18</u> | AB asset turnover   | 1,514     |
| <u>#17</u> | AB liquidity  | 45,642    |
| <u>#16</u> | AB debt*  | 214,459   |
| <u>#15</u> | AB cash flow  | 31,823    |
| <u>#14</u> | AB operating margin*  | 7,527     |
| <u>#13</u> | AB profit*  | 411,580   |
| <u>#12</u> | AB financial parameter*   | 3,866     |
| <u>#11</u> | AB financial measure*   | 36,858    |
| <u>#10</u> | AB financial distress   | 3,370     |
| <u>#9</u>  | AB financial failure  | 15,161    |
| <u>#8</u>  | AB financial condition*   | 35,319    |
| <u>#7</u>  | AB financial indicator*   | 11,872    |
| <u>#6</u>  | AB financial situation  | 12,755    |
| <u>#5</u>  | AB financial standing   | 2,742     |
| <u>#4</u>  | AB financial performance  | 138,856   |
| <u>#3</u>  | S1 OR S2  | 181,840   |
| <u>#2</u>  | AB inpatient*   | 5,615     |
| <u>#1</u>  | AB hospital*  | 179,871   |

**Database: EconLit**

**Date of the search: 04/08/2021**

Only in English

Expanders - Apply equivalent subjects

| Search | Query  | Actions |
|--------|--|---------|
| #30    | S3 AND S19 AND S29   | 322     |
| #29    | S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28  | 112,517 |
| #28    | AB adverse event*  | 912     |
| #27    | AB readmission*  | 790     |
| #26    | AB patient* satisfaction   | 186     |
| #25    | AB patient* safety   | 214     |
| #24    | AB mortality   | 207     |
| #23    | AB health outcome*   | 6,331   |
| #22    | AB technology  | 52,672  |
| #21    | AB staff*  | 4,568   |
| #20    | AB quality   | 53,382  |
| #19    | S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13<br>OR S14 OR S15 OR S16 OR S17 OR S18 | 121,925 |
| #18    | AB asset turnover  | 468     |
| #17    | AB liquidity   | 15,863  |
| #16    | AB debt*   | 28,692  |
| #15    | AB cash flow   | 6,074   |
| #14    | AB operating margin*   | 690     |
| #13    | AB profit*   | 43,133  |
| #12    | AB financial parameter*  | 3,093   |
| #11    | AB financial measure*  | 16,206  |
| #10    | AB financial distress  | 2,076   |
| #9     | AB financial failure   | 3,175   |
| #8     | AB financial condition*  | 11,391  |
| #7     | AB financial indicator*  | 4,851   |
| #6     | AB financial situation   | 2,954   |
| #5     | AB financial standing  | 339     |
| #4     | AB financial performance   | 12,601  |
| #3     | S1 OR S2   | 6605    |
| #2     | AB inpatient*  | 826     |
| #1     | AB hospital*   | 6,759   |

**Database: Embase via Ovid**

**Date of the search: 10/08/2021**

| Set | Query  | Results |
|-----|--|---------|
| #4  | 1 and 2 and 3  | 3126    |
| #3  | (quality or staff* or technology or health outcome* or patient* safety or<br>adverse event* or readmission* or complication* or patient* satisfaction).<br>ab.   | 3395310 |
| #2  | (financial performance or financial situation or financial standing or financial<br>indicator* or financial condition* or profit* or operating margin* or debt* or<br>financial measure* or financial parameter* or financial failure or financial<br>distress or liquidity or asset turnover or cash flow). ab. | 40859   |
| #1  | (hospital* or inpatient*). ab.   | 2073729 |

**Database: Medline via PubMed**  
**Date of the search: 09/08/2021**

| Search | Query   | Results   |
|--------|---|-----------|
| #33    | Search: (((((hospital*[Title/Abstract]) OR (inpatient*[Title/Abstract])) OR (administration, hospital[MeSH])) AND (((((((((((((((financial performance[Title/Abstract]) OR (financial standing[Title/Abstract])) OR (financial situation[Title/Abstract])) OR (financial indicator*[Title/Abstract])) OR (financial condition*[Title/Abstract])) OR (financial failure[Title/Abstract])) OR (financial distress[Title/Abstract])) OR (financial measure*[Title/Abstract])) OR (financial parameter*[Title/Abstract])) OR (profit*[Title/Abstract])) OR (operating margin*[Title/Abstract])) OR (debt*[Title/Abstract])) OR (liquidity[Title/Abstract])) OR (asset turnover[Title/Abstract])) OR (cash flow[Title/Abstract]))) AND (((((((((((quality[Title/Abstract]) OR (assessment, healthcare quality[MeSH])) OR (staff*[Title/Abstract])) OR (technology[Title/Abstract])) OR (health outcome*[Title/Abstract])) OR (patient* safety[Title/Abstract])) OR (readmission*[Title/Abstract])) OR (adverse event*[Title/Abstract])) OR (complication*[Title/Abstract])) OR (patient* satisfaction[Title/Abstract])) Filters: English | 2,526     |
| #32    | Search: (((((hospital*[Title/Abstract]) OR (inpatient*[Title/Abstract])) OR (administration, hospital[MeSH])) AND (((((((((((((((financial performance[Title/Abstract]) OR (financial standing[Title/Abstract])) OR (financial situation[Title/Abstract])) OR (financial indicator*[Title/Abstract])) OR (financial condition*[Title/Abstract])) OR (financial failure[Title/Abstract])) OR (financial distress[Title/Abstract])) OR (financial measure*[Title/Abstract])) OR (financial parameter*[Title/Abstract])) OR (profit*[Title/Abstract])) OR (operating margin*[Title/Abstract])) OR (debt*[Title/Abstract])) OR (liquidity[Title/Abstract])) OR (asset turnover[Title/Abstract])) OR (cash flow[Title/Abstract]))) AND (((((((((((quality[Title/Abstract]) OR (assessment, healthcare quality[MeSH])) OR (staff*[Title/Abstract])) OR (technology[Title/Abstract])) OR (health outcome*[Title/Abstract])) OR (patient* safety[Title/Abstract])) OR (readmission*[Title/Abstract])) OR (adverse event*[Title/Abstract])) OR (complication*[Title/Abstract])) OR (patient* satisfaction[Title/Abstract]))                  | 2,765     |
| #31    | Search: (((((((((((quality [Title/Abstract]) OR (assessment, healthcare quality [MeSH])) OR (staff*[Title/Abstract])) OR (technology [Title/Abstract])) OR (health outcome*[Title/Abstract])) OR (patient* safety [Title/Abstract])) OR (readmission*[Title/Abstract])) OR (adverse event*[Title/Abstract])) OR (complication*[Title/Abstract])) OR (patient* satisfaction [Title/Abstract]))   | 3,242,709 |
| #30    | Search: patient* satisfaction [Title/Abstract]  | 101,574   |
| #29    | Search: complication* [Title/Abstract]  | 1,055,851 |
| #28    | Search: adverse event* [Title/Abstract]   | 182,180   |
| #27    | Search: readmission* [Title/Abstract]   | 34,620    |
| #26    | Search: patient* safety [Title/Abstract]  | 333,191   |
| #25    | Search: health outcome* [Title/Abstract]  | 61,285    |
| #24    | Search: technology [Title/Abstract]   | 363,169   |

|     |   |           |
|-----|---|-----------|
| #23 | Search: staff* [Title/Abstract]   | 182,813   |
| #22 | Search: assessment, healthcare quality [Mesh]   | 341,311   |
| #21 | Search: quality [Title/Abstract]  | 1,143,604 |
| #20 | Search: (((((((((((financial performance[Title/Abstract] OR (financial standing[Title/Abstract])) OR (financial situation[Title/Abstract])) OR (financial indicator*[Title/Abstract])) OR (financial condition*[Title/Abstract])) OR (financial failure[Title/Abstract])) OR (financial distress[Title/Abstract])) OR (financial measure* [Title/Abstract])) OR (financial parameter*[Title/Abstract])) OR (profit*[Title/Abstract])) OR (operating margin*[Title/Abstract])) OR (debt*[Title/Abstract])) OR (liquidity[Title/Abstract])) OR (asset turnover[Title/Abstract])) OR (cash flow[Title/Abstract]) |           |
| #19 | Search: cash flow [Title/Abstract]  | 597       |
| #18 | Search: asset turnover [Title/Abstract]   | 11        |
| #17 | Search: liquidity [Title/Abstract]  | 368       |
| #16 | Search: debt* [Title/Abstract]  | 5,436     |
| #15 | Search: operating margin*[Title/Abstract]   | 254       |
| #14 | Search: profit*[Title/Abstract]   | 28,133    |
| #13 | Search: financial parameter*[Title/Abstract]  | 40        |
| #12 | Search: financial measure*[Title/Abstract]  | 93        |
| #11 | Search: financial distress [Title/Abstract]   | 358       |
| #10 | Search: financial failure [Title/Abstract]  | 17        |
| #9  | Search: financial condition*[Title/Abstract]  | 347       |
| #8  | Search: financial indicator*[Title/Abstract]  | 131       |
| #7  | Search: financial situation [Title/Abstract]  | 900       |
| #6  | Search: financial standing [Title/Abstract]   | 46        |
| #5  | Search: financial performance [Title/Abstract]  | 986       |
| #4  | Search: (hospital*[Title/Abstract] OR (inpatient*[Title/Abstract]))   | 1,628,345 |
| #3  | Search: administration, hospital [Mesh]   | 270,147   |
| #2  | Search: inpatient*[Title/Abstract]  | 131,855   |
| #1  | Search: hospital*[Title/Abstract]   | 1413276   |

**Database: Scopus**

**Date of the search: 09/08/2021**

| Search | Query  | Actions |
|--------|--|---------|
| #31    | ABS (hospital*) OR (ABS (inpatient*)) AND ((ABS (financial AND performance)) OR (ABS (financial AND standing)) OR (ABS (financial AND situation)) OR (ABS (financial AND indicator*)) OR (ABS (financial AND condition*)) OR (ABS (financial AND failure)) OR (ABS (financial AND distress)) OR (ABS (financial AND measure*)) OR (ABS (financial AND parameter*)) OR (ABS (profit*)) OR (ABS (operating AND margin*)) OR (ABS (debt*)) OR (ABS (liquidity)) OR (ABS (asset AND turnover)) OR (ABS (cash AND flow)) AND ((ABS (quality)) OR (ABS (staff*)) OR (ABS (technology)) OR (ABS (health AND outcome*)) OR (ABS (patient* AND safety)) OR (ABS (readmission*)) OR (ABS (adverse AN | 6,753   |

|            |  |           |
|------------|--|-----------|
|            | D event*)) OR (ABS (complication*)) OR (ABS (patient* AND satisfaction))) AND (LIMIT-TO (PUBSTAGE, "final")) AND (LIMIT-TO (DOCTYPE, "ar") OR LIMIT-TO (DOCTYPE, "re") OR LIMIT-TO (DOCTYPE, "bk")) AND (LIMIT-TO (LANGUAGE, "English"))   |           |
| <u>#30</u> | ABS (hospital*) OR (ABS (inpatient*)) AND ((ABS (financial AND performance )) OR (ABS (financial AND standing) ) OR (ABS (financial AND situation )) OR (ABS (financial AND indicator*)) OR (ABS (financial AND condition*)) OR (ABS (financial AND failure)) OR (ABS (financial AND distress)) OR (ABS (financial AND measure*)) OR(ABS (financial AND parameter*)) OR (ABS (profit*)) OR (ABS (operating AND margin*)) OR (ABS (debt*)) OR (ABS (liquidity) OR (ABS (asset AND turnover ))OR (ABS (cash AND flow))) AND ((ABS (quality)) OR (ABS (staff*)) OR (ABS (technology)) OR (ABS (health AND outcome*))OR (ABS (patient* AND safety)) OR (ABS (readmission*)) OR (ABS (adverse AND event*)) OR (ABS (complication*)) OR (ABS (patient* AND satisfaction))) | 8,420     |
| <u>#29</u> | ABS (quality)) OR (ABS (staff*)) OR (ABS (technology)) OR (ABS (health AND outcome*)) OR (ABS (patient* AND safety)) OR (ABS (readmission*)) OR (ABS (adverse AND event*)) OR (ABS (complication*)) OR (ABS (patient* AND satisfaction))   | 7,638,569 |
| <u>#28</u> | ABS patient* AND satisfaction  | 103,653   |
| <u>#27</u> | ABS complication*  | 1,089,251 |
| <u>#26</u> | ABS adverse event*   | 241,405   |
| <u>#25</u> | ABS readmission*   | 31,951    |
| <u>#24</u> | ABS patient* AND safety  | 337,845   |
| <u>#23</u> | ABS health AND outcome*  | 392,168   |
| <u>#22</u> | ABS technology   | 2,807,192 |
| <u>#21</u> | ABS staff*   | 320,959   |
| <u>#20</u> | ABS quality  | 3,210,443 |
| <u>#19</u> | ABS (financial AND performance))OR (ABS (financial AND standing)) OR ABS (financial AND situation)) OR (ABS (financial AND indicator*))OR (ABS (financial AND condition*)) OR (ABS (financial AND failure)) OR (ABS (financial AND distress )) OR (ABS (financial AND measure*)) OR (ABS (financial AND parameter*)) OR (ABS (profit*)) OR (ABS (operating AND margin*)) OR (ABS (debt* )) OR (ABS (liquidity)) OR (ABS (asset AND turnover)) OR (ABS(cash AND flow))  | 494,422   |
| <u>#18</u> | ABS cash AND flow  | 16,857    |
| <u>#17</u> | ABS asset AND turnover   | 1,302     |
| <u>#16</u> | ABS liquidity  | 18,989    |
| <u>#15</u> | ABS debt*  | 48,635    |
| <u>#14</u> | ABS operating AND margin*  | 16,183    |
| <u>#13</u> | ABS profit*  | 250,908   |
| <u>#12</u> | ABS financial AND parameter*   | 13,979    |
| <u>#11</u> | ABS financial AND measure*   | 63,560    |
| <u>#10</u> | ABS financial AND distress   | 5,372     |
| <u>#9</u>  | ABS financial AND failure  | 13,782    |
| <u>#8</u>  | ABS financial AND condition*   | 43,265    |

|    |                                     |           |
|----|-------------------------------------|-----------|
| #7 | ABS financial AND indicator*        | 18,572    |
| #6 | ABS financial AND situation         | 20,803    |
| #5 | ABS financial AND standing          | 1,898     |
| #4 | ABS financial AND performance       | 57,446    |
| #3 | ABS (hospital*) OR (ABS inpatient*) | 1,611,008 |
| #2 | ABS inpatient*                      | 127,785   |
| #1 | ABS hospital*                       | 1,553,321 |

**Database: Web of Science**  
**Date of the search: 09/08/2021**

| Set | Query  | Results   |
|-----|--|-----------|
| #32 | #3 AND #19 AND #29 and Articles or Review Articles or Book Chapters (Document Types) and English (Languages) | 5,322     |
| #31 | #3 AND #19 AND #29 and Articles or Review Articles or Book Chapters (Document Types)                         | 5,765     |
| #30 | #3 AND #19 AND #29   | 6,059     |
| #29 | #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28  | 5,188,373 |
| #28 | AB=patient* satisfaction   | 81,170    |
| #27 | AB=complication*   | 749,409   |
| #26 | AB=adverse event*  | 207,970   |
| #25 | AB=patient* safety   | 266,958   |
| #24 | AB=readmission*  | 27,601    |
| #23 | AB=health outcome*   | 333,550   |
| #22 | AB=technology  | 1,712,040 |
| #21 | AB=staff*  | 198,370   |
| #20 | AB=quality   | 2,276,750 |
| #19 | #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18              | 353,941   |
| #18 | AB=cash flow   | 11,134    |
| #17 | AB=asset turnover  | 1,079     |
| #16 | AB=liquidity   | 15,005    |
| #15 | AB=debt*   | 34,046    |
| #14 | AB=operating margin  | 16,062    |
| #13 | AB=profit*   | 167,525   |
| #12 | AB= financial parameter*   | 10,708    |
| #11 | AB= financial measure*   | 49,311    |
| #10 | AB= financial distress   | 4,888     |
| #9  | AB= financial failure  | 9,403     |
| #8  | AB=financial condition*  | 33,342    |
| #7  | AB=financial indicator*  | 15,997    |
| #6  | AB=financial situation   | 16,553    |
| #5  | AB=financial standing  | 3,547     |
| #4  | AB=financial performance   | 42,799    |
| #3  | #1 OR #2   | 1,094,770 |
| #2  | AB=inpatient*  | 99,089    |
| #1  | AB=hospital*   | 1,050,541 |

**Websites screening:**

| <b>Organization</b>  | <b>www</b>  | <b>Screening date</b> |
|--|---|-----------------------|
| WHO – World Health Organization: Health                      | <a href="https://www.who.int/health-topics">https://www.who.int/health-topics</a>   | 24/08/2021            |
| OECD:Health Care Quality and Outcomes                        | <a href="https://www.oecd.org/health/health-systems/health-care-quality-and-outcomes.htm">https://www.oecd.org/health/health-systems/health-care-quality-and-outcomes.htm</a> | 24/08/2021            |
| HOPE – European Hospital and Healthcare Federation           | <a href="https://hope.be">https://hope.be</a>   | 24/08/2021            |
| RAND Corporation   | <a href="https://www.rand.org">https://www.rand.org</a>   | 24/08/2021            |
| NICE – National Institute for Health and Care Excellence     | <a href="https://www.nice.org.uk">https://www.nice.org.uk</a>   | 24/08/2021            |
| AHA – American Hospital Association                          | <a href="https://www.aha.org">https://www.aha.org</a>   | 26/08/2021            |
| AHRQ – Agency for Healthcare Research and Quality            | <a href="https://www.ahrq.gov">https://www.ahrq.gov</a>   | 24/08/2021            |
| NSQHS – National Safety and Quality Health Service           | <a href="https://www.safetyandquality.gov.au">https://www.safetyandquality.gov.au</a>   | 26/08/2021            |
| HIMMS – Healthcare Information and Management System Society | <a href="https://www.himss.org">https://www.himss.org</a>   | 26/08/2021            |
| PIIE – Peterson Institute for International Economics        | <a href="https://www.piie.com">https://www.piie.com</a>   | 24/08/2021            |
| ISQua – International Society for Quality in Healthcare Care | <a href="https://isqua.org">https://isqua.org</a>   | 26/08/2021            |
| AHD – American Hospital Directory                            | <a href="https://www.ahd.com">https://www.ahd.com</a>   | 26/08/2021            |
| AHIMA – American Health Information Management Association   | <a href="https://www.ahima.org">https://www.ahima.org</a>   | 30/08/2021            |
| America's Essential Hospitals                                | <a href="https://essentialhospitals.org">https://essentialhospitals.org</a>   | 30/08/2021            |
| NPSF – National Patient Safety Foundation                    | <a href="https://npsf.digitellinc.com/npsf/">https://npsf.digitellinc.com/npsf/</a>   | 30/08/2021            |
| NCQA – National Committee for Quality Assurance              | <a href="https://www.ncqa.org">https://www.ncqa.org</a>   | 30/08/2021            |
| FAH - Federation of American Hospitals                       | <a href="https://www.fah.org">https://www.fah.org</a>   | 30/08/2021            |
| Eurostat: Health   | <a href="https://ec.europa.eu/eurostat/web/health">https://ec.europa.eu/eurostat/web/health</a>   | 30/08/2021            |
| Care Quality Commission                                      | <a href="https://www.cqc.org.uk">https://www.cqc.org.uk</a>   | 30/08/2021            |
| Care Inspectorate  | <a href="https://www.careinspectorate.com">https://www.careinspectorate.com</a>   | 30/08/2021            |
| IHI – Institute for Healthcare Improvement                   | <a href="http://www.ihl.org">http://www.ihl.org</a>   | 30/08/2021            |