

Supplemental Digital Content 2.

Data extraction table for variables extracted from the top 100 articles retrieved from Scopus under search terms relating to healthcare simulation education and research, and healthcare professionals and trainees. Articles with the same number of citations were given the exact same rank.

| Rank | Author and year | Total number of citations | Type of paper | Type of simulator | Skill | Clinical topic | Participants/population | Journal | Country of publication |
|------|-----------------------------------------|---------------------------|-------------------------|------------------------|------------------|-----------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|------------------------|
| 1 | Seymour et al., 2002 ²² | 1411 | Intervention | VR (part-task trainer) | Technical skills | Surgery (laparoscopy); Medical education and training; | Surgical residents ($n=16$) | Annals of Surgery | USA |
| 2 | Issenberg et al., 2005 ²³ | 1342 | Systematic review | Various | Both | Medical education and training; | Medical trainees and professionals | Medical Teacher | USA |
| 3 | Epstein & Hundert, 2002 ²⁴ | 1201 | Review (non-systematic) | Various | Both | Assessing clinical/professional competence; medical education and training; | Medical trainees and professionals | Journal of the American Medical Association (JAMA) | USA |
| 4 | Martin et al., 1997 ⁹⁰ | 1084 | Tool evaluation | Various | Technical skills | Surgery (generic); medical education and training; | Surgical residents, PGY1, 3, 5 ($n=20$) | British Journal of Surgery | Canada |
| 5 | Ericsson, 2004 ²⁵ | 1066 | Invited address | Various | Both | Medical education and training; | Medical trainees and professionals | Academic Medicine | USA |
| 6 | Reznick & McRae, 2006 ⁹¹ | 740 | Review (non-systematic) | Various | Technical skills | Surgery (generic); Medical education and training; | Surgeons and trainees | New England Journal of Medicine | Canada |
| 7 | Grantcharov et al., 2004 ¹⁰⁸ | 711 | Intervention | VR (part-task trainer) | Technical skills | Surgery (laparoscopy); medical education and training; | 16 surgical trainees | British Journal of Surgery | Denmark |
| 8 | Peabody et al., 2000 ²⁶ | 656 | Tool evaluation | SPs | Both | Primary care; assessing | 20 primary care physicians | JAMA | USA |

| | | | | | | | | | |
|----|----------------------------------------|-----|-------------------------|-------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|--------|
| 9 | Epstein, 2007 ²⁷ | 622 | Review (non-systematic) | Various | Both | clinical/professional competence; Assessing clinical/professional competence; medical education and training; | Medical trainees and professionals | New England Journal of Medicine | USA |
| 9 | Reznick et al., 1997 ⁹² | 622 | Tool evaluation | Inanimate part-task trainer | Technical skills | Surgery (generic); medical education and training; | 48 general surgery residents | American Journal of Surgery | Canada |
| 11 | Gaba, 2004 ¹⁷ | 562 | Review (non-systematic) | Various | Both | Healthcare in general; medical education and training; | Healthcare trainees and professionals | Quality and Safety in Healthcare | USA |
| 12 | Issenberg et al., 1999 ²⁸ | 543 | Review (non-systematic) | Various | Both | Medical education and training; | Medical trainees and professionals. | JAMA | USA |
| 13 | Fallowfield et al., 2002 ⁶⁷ | 536 | Intervention | SPs | Non-technical skills | Doctor-patient communication; Oncology; medical education and training; | 160 oncologists. | The Lancet | UK |
| 14 | McGaghie et al 2010 ¹ | 507 | Review (non-systematic) | Various | Both | Medical education and training; | Medical trainees and professionals | Medical Education | USA |
| 15 | Roter et al., 1995 ²⁹ | 505 | Intervention | SPs | Non-technical skills | Medical education and training; primary care; Doctor-patient communication; | Primary care physicians | Archives of Internal Medicine | USA |
| 16 | Fried et al., 2004 ⁹³ | 484 | Tool evaluation | Inanimate part-task trainer | Technical skill | Surgery (laparoscopy); Medical education and training; | 215 surgeons and trainees. | Annals of Surgery | Canada |
| 17 | Fletcher et al., 2003 ⁶³ | 480 | Tool evaluation | Manikin; full simulated environment | Non-technical skills | Anesthesiology; CRM; Medical | 50 consultant anesthetists | British Journal of Anesthesia | UK |

| | | | | | | | | | |
|----|--------------------------------------|-----|-------------------------------------|-------------------------------------|----------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------|
| 18 | Scott et al., 2000 ³⁰ | 476 | Intervention | Inanimate part-task trainer | Technical skills | education and training; Surgery (laparoscopy); medical education and training; | 22 second and third year residents. | Journal of the American College of Surgeons The Lancet | USA |
| 19 | Wass et al., 2001 ⁶⁴ | 475 | Review (non-systematic) | SPs | Both | Assessing clinical/professional competence; medical education and training; | Medical trainees/students | | UK |
| 20 | Cook et al, 2011 ³¹ | 461 | Systematic review and meta-analysis | Various | Both | Health professions education/training; | Health professions trainees | JAMA | USA |
| 21 | Gallagher et al., 2005 ³² | 456 | Review (non-systematic) | VR (part-task trainers) | Technical skills | Surgery (MIS); medical education and training; | Surgical trainees | Annals of Surgery | USA |
| 22 | Jeffries, 2005 ³³ | 445 | Review (non-systematic) | Various | Both | Nursing education and training; | Nursing students | Nursing Education Perspectives | USA |
| 23 | Derossis et al., 1998 ¹⁰⁵ | 443 | Observational | Inanimate part-task trainers | Technical skills | Surgery (laparoscopy); medical education and training; | N=42; 6 general surgery residents from each of the 5 years (n=30); 6 laparoscopic surgeons; 6, non-laparoscopic, attending surgeons | American Journal of Surgery | Canada |
| 24 | Howard et al., 1992 ³⁴ | 424 | Intervention | Manikin; full simulated environment | Non-technical skills | Anesthesiology; CRM; surgery (laparoscopy); medical education and training; | 12 anesthesia residents | Aviation, Space and Environmental Science. | USA |

| | | | | | | | | | |
|----|------------------------------------------|-----|-------------------------|--------------------------------------|----------------------|---------------------------------------------------------------|------------------------------------------|---------------------------------|--------|
| 25 | Maguire & Pitceantly, 2002 ⁸⁹ | 423 | Review (non-systematic) | SPs | Non-technical skills | Doctor-patient communication; medical education and training; | Medical professionals | British Medical Journal (BMJ) | UK |
| 26 | Regehr et al., 1998 ⁹⁵ | 418 | Tool evaluation | Inanimate part-task trainers | Technical skills | Surgery (generic); medical education and training; | 53 general surgery residents (PGY1-PGY6) | Academic Medicine | Canada |
| 27 | Fanning & Gaba, 2007 ³⁵ | 411 | Review (non-systematic) | General/non specified | Both | Medical education and training; | Medical professionals | Simulation in Healthcare | USA |
| 28 | Ziv et al., 2003 ¹⁰⁶ | 398 | Review (non-systematic) | Various | Both | Surgery (generic); medical education and training; | | Academic Medicine | Israel |
| 29 | Appleyard et al., 2000 ⁶⁵ | 389 | Tool evaluation | Live animals | Technical skills | Surgery (endoscopy); | Surgeons | Gastroenterology | UK |
| 30 | Cooke et al., 2006 ³⁶ | 381 | Review (non-systematic) | Various | Both | Medical education and training; | Medical professionals. | New England Journal of Medicine | USA |
| 31 | McGaghie et al., 2011 ³⁷ | 364 | Meta-analysis | Various | Both | Medical education and training; | Medical trainees | Academic Medicine | USA |
| 32 | Peabody et al., 2004 ³⁸ | 350 | Tool evaluation | SPs; computerized clinical vignettes | Both | Primary care; assessing clinical competence/quality of care; | Primary care physicians (n=116) | Annals of Internal Medicine | USA |
| 33 | Moorthy et al., 2003 ⁶⁶ | 348 | Review (non-systematic) | Various | Technical skills | Surgery (generic); medical education and training. | Surgical trainees | BMJ | UK |
| 33 | Gaba et al., 1998 ²¹ | 348 | Performance assessment | Manikins; full simulated environment | Both | Anesthesiology; CRM; | Anesthetists | Anesthesiology | USA |
| 35 | Gaba et al., 2001 ³⁹ | 345 | Review (non-systematic) | Manikins; Full simulated environment | Both | CRM; Anesthesiology; Medical education and training; | Anesthetists and trainees. | Simulation and Gaming | USA |
| 36 | Wayne et al., 2008 ²⁰ | 343 | Observational | Manikin | Technical skills | Medical education/training; | Internal medical residents | Chest | USA |

| | | | | | | | | | |
|----|--------------------------------------|-----|-------------------------|--------------------------------------|----------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|--------|
| 37 | Anastakis et al., 1999 ⁹⁶ | 338 | Intervention | Various | Technical skills | Surgery(generic); Medical education and training; | PGY1 surgical residents (<i>n</i> =23) | American Journal of Surgery | Canada |
| 38 | Bradley, 2006 ⁶⁸ | 327 | Review (non-systematic) | Various | Both | Medical education and training; | Medical trainees | Medical Education | UK |
| 39 | Maran & Glavin, 2003 ⁶⁹ | 326 | Review (non-systematic) | Various | Both | Medical education and training; | Medical trainees | Medical Education | UK |
| 40 | Back et al., 2007 ⁴⁰ | 324 | Intervention | SPs | Non-technical skills | Oncology; Doctor-patient communication; medical education and training; | 115 medical oncology fellows | Archives of Internal Medicine | USA |
| 41 | Yule et al., 2006 ⁷⁰ | 322 | Review (non-systematic) | Various | Non-technical skills | Surgery (generic); medical education and training; | Trainees or consultant surgeons | Surgery | UK |
| 42 | Taffinder et al., 1998 ⁷¹ | 313 | Performance assessment | VR (Part-task trainer); | Technical skills | Surgery (laparoscopy); | 6 trainee surgeons | The Lancet | UK |
| 43 | Vassiliou et al., 2006 ⁹⁸ | 303 | Tool evaluation | Inanimate part-task trainers | Technical skills | Surgery (Laparoscopy); medical education and training; | General surgery residents PGY1- 5 (<i>n</i> =17); attending surgeons (<i>n</i> =4) | American Journal of Surgery | Canada |
| 44 | Reznick, 1993 ⁹⁷ | 296 | Review (non-systematic) | Various | Technical skills | Surgery (generic); medical education and training; | Surgeons | American Journal of Surgery | Canada |
| 45 | Baker et al., 2006 ⁴¹ | 291 | Review (non-systematic) | Manikins; full simulated environment | Non-technical skills | Team training; CRM; medical education and training; | Medical professionals | Health Services Research | USA |
| 46 | Okuda et al., 2009 ⁴² | 288 | Review (non-systematic) | Various | Both | Medical education and training; | Undergraduate and graduate medical trainees | Mount Sinai Journal of Medicine | USA |
| 47 | Satava, 1993 ⁴³ | 287 | Review (non-systematic) | VR (part-task trainer) | Technical skills | Surgery (generic); medical education and training; | Surgical residents and trainees | Surgical Endoscopy | USA |

| | | | | | | | | | |
|----|----------------------------------------|-----|-------------------------|-----------------------------------------------------|------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|
| 48 | Kneebone et al., 2003 ⁷² | 283 | Review (non-systematic) | Various | Both | Surgery (generic); medical education and training; | Healthcare trainees and professionals | Medical Education | UK |
| 49 | Gaba & De Anda, 1988 ⁴⁴ | 276 | User evaluations | Manikin; Full simulated environment | Technical skills | Anesthesiology; CRM; medical education and training; | First and second year residents; medical students (<i>n</i> =17) | Anesthesiology | USA |
| 50 | Ahlberg et al., 2007 ¹⁰⁹ | 272 | Intervention | VR (part-task trainer) | Technical skills | Surgery (laparoscopy); medical education and training; | 13 surgical residents | American Journal of Surgery | Sweden |
| 51 | Aggarwal et al., 2004 ⁷³ | 266 | Review (non-systematic) | VR (Part-task trainers) | Technical skills | Surgery (laparoscopy); medical education and training; | Surgeons and surgical trainees | British Journal of Surgery | UK |
| 52 | Datta et al., 2001 ⁷⁴ | 265 | Tool evaluation | Inanimate part-task trainers | Technical skills | Surgery (generic); medical education; | Basic surgical trainees (<i>n</i> =12); junior specialist registrars (<i>n</i> =13); senior specialist registrars (<i>n</i> =13); consultants (<i>n</i> =13). | Journal of the American College of Surgeons | UK |
| 53 | Sutherland et al., 2006 ¹¹⁴ | 263 | Systematic review | Various | Technical skills | Surgery (generic); medical education and training; | Surgeons; surgical trainees/residents; medical students | Annals of Surgery | Australia |
| 53 | Korndorffer et al., 2005 ⁴⁵ | 263 | Intervention | Inert animal products; Inanimate part-task trainer; | Technical skills | Surgery (laparoscopy); Medical education and training; | Surgical residents (PGY1-PGY5; <i>n</i> =17) | Journal of the American College of Surgeons | USA |

| | | | | | | | | | |
|----|----------------------------------------|-----|-------------------------|----------------------------------------|----------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------|
| 55 | Sturm et al., 2008 ¹¹⁵ | 262 | Systematic review | Various | Technical skills | Surgery (generic); Medical education and training; | Surgeons and trainees. | Annals of Surgery | Australia |
| 56 | Draycott et al., 2008 ⁷⁵ | 258 | Observational | Manikins | Both | Medical education and training; Obstetrics/midwifery /gynecology; | Midwifery and obstetric staff | Obstetrics and Gynecology | UK |
| 56 | Downing, 2004 ⁴⁶ | 258 | Review (non-systematic) | SPs | Both | Medical education and training; | Undergraduate medical trainees | Medical Education | USA |
| 58 | Shapiro et al., 2004 ⁴⁷ | 256 | Intervention | Manikins; full simulated environment | Non-technical skills | Emergency medicine; team training; CRM; medical education and training; | Teams of ED physicians and nurses. | Quality and Safety in Healthcare | USA |
| 58 | Fallowfield et al., 1998 ⁷⁶ | 256 | Intervention | SPs | Non-technical skills | Doctor-patient communication; medical education and training; oncology; | Senior oncologists (attending; <i>n</i> =127); senior registrars (<i>n</i> =51) | Journal of Clinical Oncology | UK |
| 60 | Rudolph et al., 2006 ⁴⁸ | 253 | Review (non-systematic) | Non-specified (simulation in general) | Non-Technical skills | Medical education and training; | Medical professionals and trainees. | Simulation in Healthcare | USA |
| 61 | Cant & Cooper., 2010 ¹¹⁶ | 251 | Systematic review | Manikins; Full simulated environments. | Both | Nursing education and training; | Nursing students and registered nurses. | Journal of Advanced Nursing | Australia |
| 62 | Yedidia et al., 2003 ⁴⁹ | 250 | Intervention | SPs | Non-technical skills | Medical education and training; Doctor-patient communication; | Medical students (<i>n</i> =293) | JAMA | USA |
| 63 | Barsuk et al., 2009 ⁵⁰ | 248 | Observational | Manikin | Technical skills | Medical education and training; Critical care; | Postgraduate trainees; 2 nd & 3 rd year internal medicine and emergency medicine (<i>n</i> =103) | Critical Care Medicine | USA |

| | | | | | | | | | |
|----|--------------------------------------|-----|------------------------------------------|------------------------------------------------------|----------------------|---------------------------------------------------------------|-----------------------------------------------------------|----------------------------------|-----------------|
| 64 | Duffy et al., 2004 ⁵² | 246 | Review (non-systematic) | SPs | Non-technical skills | Doctor-patient communication; medical education and training; | Physicians | Academic Medicine | USA |
| 65 | Chopra et al., 1994 ¹¹⁰ | 240 | Intervention | Manikin; full simulated environment | Both | Anesthesiology; CRM; medical education and training; | Anesthetists and anesthesiology trainees (<i>n</i> =28) | British Journal of Anesthesia | The Netherlands |
| 66 | Steadman et al., 2006 ⁵³ | 239 | Intervention | Manikin; full simulated environment | Both | Medical education and training; CRM; | 4 th year medical students (<i>n</i> =31) | Critical Care Medicine | USA |
| 67 | Fletcher et al., 2002 ⁷⁷ | 238 | Review (non-systematic) | Manikins; Full simulated environments. | Non-technical skills | Anesthesiology; medical education and training; CRM; | Anesthetists and anesthetic trainees. | British Journal of Anesthesia | UK |
| 68 | Yule et al., 2006 ⁷⁸ | 235 | Qualitative; Tool evaluation/development | Various | Non-technical skills | Surgery (generic); | Trainees or consultant surgeons | Medical Education | UK |
| 69 | Grober et al., 2004 ⁹⁹ | 228 | Intervention | Inanimate part-task trainers & live animals | Technical skills | Medical education and training; Surgery (generic); CRM; | Junior Surgical residents (PGY 1 & 3; <i>N</i> =50) | Annals of Surgery | Canada |
| 70 | Barsuk et al., 2009 ⁵¹ | 227 | Observational | Manikin | Technical skills | Medical education and training; | Internal and emergency medicine residents (<i>n</i> =92) | Archives of Internal Medicine | USA |
| 71 | Sroka et al., 2010 ¹⁰⁰ | 224 | Intervention | Inanimate part-task trainer | Technical skills | Surgery (laparoscopy); Medical education and training; | Junior surgical residents (<i>n</i> =16) | American Journal of Surgery | Canada |
| 71 | Beaubien & Baker, 2004 ⁵⁴ | 224 | Review (non-systematic) | Various | Non-technical skills | Medical education and training; Team training; | Healthcare professionals | Quality and Safety in Healthcare | USA |
| 71 | Munz et al., 2004 ⁷⁹ | 224 | Intervention | VR (part-task trainer); Inanimate part-task trainers | Technical skills | Surgery (Laparoscopy); medical education and training; | Medical students (<i>n</i> =24) | Surgical Endoscopy | UK |

| | | | | | | | | | |
|----|---------------------------------------|-----|--------------------------------|-------------------------------------------------------|----------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|--------|
| 74 | Tamblyn et al., 2007 ¹⁰¹ | 220 | Observational | SPs | Both | Doctor-patient communication; medical education and training | Medical trainees and professionals. | JAMA | Canada |
| 74 | Taffinder et al., 1998 ⁸⁰ | 220 | Tool evaluation; intervention; | VR (part-task trainer); Inanimate part-task trainers; | Technical skills | Surgery (laparoscopy); medical education and training; | Expert (n=10) and novice (n=10) surgeons. | Conference proceedings – Studies in Health Technology and Informatics. | UK |
| 76 | Lasater, 2007 ⁵⁵ | 216 | Review (non-systematic) | Manikins; Full simulated environments; | Non-technical skills | Nursing education and training; | Nursing students | Journal of Nursing Education | USA |
| 77 | Aggarwal et al., 2007 ⁸¹ | 215 | Intervention | Various | Technical skills | Surgery (laparoscopy); medical education and training; | Experienced LC surgeons (n=10); Novice LC surgeons (n=20) | Annals of Surgery | UK |
| 78 | Alinier et al., 2006 ⁸² | 214 | Intervention | Manikin; Full simulated environment; | Both | Nursing education and training; | Nursing students | Journal of Advanced Nursing | UK |
| 79 | Hyltander et al., 2002 ¹¹¹ | 213 | Intervention | VR (part-task trainer); Inert animal products; | Technical skills | Surgery (laparoscopy); medical education and training; | 24 medical students (surgical rotation) | Surgical Endoscopy | Sweden |
| 80 | Luck et al., 2000 ⁵⁶ | 211 | Tool evaluation | SPs | Both | Primary care; assessing clinical competence; | Faculty physicians, 2 nd & 3 rd year residents (n=20) | The American Journal of Medicine. | USA |
| 81 | Faulkner et al., 1996 ¹⁰² | 210 | Tool evaluation | Inanimate part-task trainers | Technical skills | Surgery (generic); medical education and training; | Surgical residents (3 rd & 5 th year; n=12) | Academic Medicine | Canada |
| 82 | Yule et al., 2008 ⁸³ | 209 | Tool evaluation | Manikin; full simulated environment | Non-technical skills | Surgery (generic); medical education and training; | Consultant surgeons (n=44) | World Journal of Surgery | UK |

| | | | | | | | | | |
|----|-----------------------------------------|-----|------------------------------------------|------------------------------|----------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|
| 83 | Fraser et al., 2003 ¹⁰³ | 205 | Tool evaluation; performance assessment | Inanimate part-task trainer. | Technical skills | Surgery (laparoscopy); Medical education and training; | Medical students and junior surgical residents (<i>n</i> =83); Chief senior surgical residents (<i>n</i> =82) | Surgical Endoscopy | Canada |
| 84 | Derossis et al., 1998 ⁹⁴ | 203 | Intervention; | Inanimate part-task trainer. | Technical skills | Surgery (laparoscopy); Medical education and training; | Surgical residents (PGY3; <i>n</i> =12) | Surgical Endoscopy | Canada |
| 85 | Flin & Maran, 2004 ⁸⁴ | 202 | Review (non-systematic) | Various | Non-technical skills | Emergency medicine; medical education and training; CRM; | Emergency medical staff; anesthetists; surgeons. | Quality and Safety in Healthcare | UK |
| 85 | Hodges et al., 1999 ¹⁰⁴ | 202 | Tool evaluation | SPs | Non-technical skills | Medical education and training; | Clinical clerks (psychiatry; <i>n</i> =14); family practice residents (<i>n</i> =14); practicing family physicians (<i>n</i> =14). | Academic Medicine | Canada |
| 87 | Awad et al., 2005 ⁵⁷ | 200 | Intervention | Role-play | Non-technical skills | Team training; medical education and training; surgery (generic); CRM; | Operating room teams | American Journal of Surgery | USA |
| 88 | Grantcharov et al., 2003 ¹¹³ | 199 | Performance assessment; tool evaluation. | VR (part-task trainer); | Technical skills | Surgery (laparoscopy); medical education and training; | Surgeons (<i>n</i> =41) | American Journal of Surgery | Denmark |
| 89 | Fallowfield et al., 2003 ⁸⁵ | 198 | Intervention follow up | SPs | Non-technical skills | Doctor-patient communication; Oncology; medical | Oncologists (<i>n</i> =74); of whom: consultants | British Journal of Cancer | UK |

| | | | | | | | | | |
|----|--------------------------------------|-----|-------------------------|-------------------------------------|----------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------|
| 90 | Parle et al., 1997 ⁸⁶ | 197 | Review (non-systematic) | SPs; role-play | Non-technical skills | education and training; Doctor-patient communication; oncology; medical education and training; | (n=48); Senior SPRs in training (n=26); Healthcare professionals | Social Science & Medicine | UK |
| 90 | Holzman et al., 1995 ⁵⁸ | 197 | Intervention | Manikin; full simulated environment | Non-technical skills | Anesthesiology; CRM; medical education and training; | Anesthesiologists (n=68); anesthesia nurses (n=4) | Journal of Clinical Anesthesia | USA |
| 92 | Kneebone et al., 2004 ⁸⁷ | 196 | Review (non-systematic) | Various | Both | Medical education and training; | Medical trainees and professionals. | Medical Education | UK |
| 93 | Larsen et al., 2009 ¹¹² | 195 | Intervention | VR (part-task trainer); | Technical skills | Surgery (laparoscopy); Gynecology and obstetrics; medical education and training; | First and second year registrars specializing in gynecology and obstetrics (n=24) | BMJ | Denmark |
| 94 | Van Hove et al., 2010 ¹⁰⁷ | 194 | Review (non-systematic) | Various | Technical skills | Surgery (generic); medical education and training; | Surgeons; surgical trainees. | British Journal of Surgery | The Netherlands |
| 94 | Brown et al., 1999 ⁵⁹ | 194 | Intervention | Role-play | Non-technical skills | Doctor-patient communication; medical education and training; | Primary care physicians; surgeons; medical subspecialists; nurse practitioners; physician assistants (n=69) | Annals of Internal Medicine | USA |
| 96 | Gaba, 1992 ⁶⁰ | 192 | Editorial | Various | Both | Anesthesiology; CRM; | Anesthesiologists | Anesthesiology | USA |

| | | | | | | | | | |
|-----|----------------------------------------|-----|------------------------------------------------|--------------------------------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|---------|
| 97 | Feingold et al., 2004 ⁶¹ | 190 | User evaluations | Manikin; Full simulated environment. | Both | Nursing education and training; | Nursing students (<i>n</i> =65); faculty (<i>n</i> =4) | Journal of Nursing Education | USA |
| 98 | Aggarwal et al., 2006 ¹¹⁷ | 189 | Curriculum development; performance assessment | VR (part-task trainer) | Technical skills | Surgery (laparoscopy); medical education and training; | Experienced surgeons (<i>n</i> =20); novice surgeons (<i>n</i> =20) | Annals of Surgery | Denmark |
| 99 | Gurusamy et al., 2008 ⁸⁸ | 188 | Systematic review | VR (part-task trainers) | Technical skills | Surgery (laparoscopy); medical education and training; | Surgical trainees; medical students; surgical residents. | British Journal of Surgery | UK |
| 100 | Scott & Dunnington, 2008 ⁶² | 186 | Review (non-systematic) | Various | Both | Surgery (generic); Medical education and training; | Surgeons/surgical trainees | Journal of Gastrointestinal Surgery | USA |
