**Supplementary Table 1.** Risk of bias assessment tool\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | Adequate sequence generation | Allocation concealment | Blinding | Incomplete outcome data addressed | Free of selective reporting | Free of other bias | Summary assessment |
| Benatar et al. (R1) | Yes | Unclear | Unclear | Yes | Yes | Unclear | Unclear risk |
| Berg et al. (R2) | Unclear | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Chen et al. (R3) | Unclear | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Copeland et al. (R4) | Yes | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Dar et al. (R5) | Yes | Yes | Yes | Yes | Yes | Yes | Low risk |
| Dunagan et al. (R6) | Yes | Yes | Yes | Yes | Yes | Yes | Low risk |
| Finkelstein et al. (R7) | Yes | No | No | No | Yes | No | High risk |
| Galbreath et al. (R8) | Yes | Unclear | No | No | Yes | Yes | Unclear risk |
| Giordano et al. (R9) | Yes | Unclear | Unclear | Yes | Yes | Yes | Unclear risk |
| Hebert et al. (R10) | Yes | Unclear | Yes | Yes | Yes | No | Unclear risk |
| Heidenreich et al. (R11) | Unclear | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Ho et al. (R12) | Unclear | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Hudson et al. (R13) | Unclear | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Jerant et al. (R14) | Yes | Yes | Unclear | Yes | Yes | Yes | Unclear risk |
| Johnston et al. (R15) | Yes | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Kasper et al. (R16) | Yes | Yes | Yes | Yes | Yes | No | Low risk |
| Laramee et al. (R17) | Yes | Yes | No | Yes | Yes | Unclear | Unclear risk |
| Myers et al. (R18) | Yes | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Noel et al. (R19) | Yes | Unclear | Yes | Yes | Yes | No | Unclear risk |
| Peikes et al. (R20) | Yes | Yes | No | Yes | Yes | Yes | Low risk |
| Riegel et al. (R21) | Yes | Yes | Yes | Yes | Yes | No | Low risk |
| Riegel et al. (R22) | Yes | Yes | Yes | Yes | Yes | No | Low risk |
| Riegel et al. (R23) | Yes | Yes | Unclear | Yes | Yes | No | Unclear risk |
| Scalvini et al. (R24) | Unclear | Unclear | Unclear | Unclear | Yes | Unclear | Unclear risk |
| Schwartz et al. (R25) | Yes | Unclear | Unclear | No | Yes | Unclear | Unclear risk |
| Smith et al. (R26) | Yes | Unclear | Unclear | Yes | Yes | No | Unclear risk |
| Soran et al. (R27) | Yes | No | Yes | Yes | Yes | No | Low risk |
| Tompkins et al. (R28) | Yes | Unclear | Unclear | Yes | Yes | Unclear | Unclear risk |
| Vaccaro et al. (R29) | Yes | Yes | Unclear | Yes | Yes | Yes | Unclear risk |
| Wennberg et al. (R30) | Yes | Yes | Unclear | Yes | Yes | Yes | Unclear risk |
| Wootton et al. (R31) | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear risk |
| Wootton et al. (R32) | Unclear | Unclear | Yes | Yes | Yes | Unclear | Unclear risk |
| **Results** |  | | | | | |  |
| **Unclear risk of bias** | Plausible bias that raises some doubt about the results | | | | | | 24 |
| **Low risk of bias** | Plausible bias unlikely to seriously alter the results | | | | | | 7 |
| **High risk of bias** | Plausible bias that seriously weakens confidence in the results | | | | | | 1 |

*\*Derived from The Cochrane Collaboration (15)*

Supplementary Table 2. An overview of the methodological quality of the studies\*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | Was a well-defined question posed in answerable form? | Was a comprehensive description of the competing alternatives given? | Was the effectiveness of the programmes or services established? | Were all the important and relevant costs and consequences for each alternative identified? | Were costs and consequences measured accurately in appropriate physical units | Were costs and consequences valued credibly? | Were costs and consequences adjusted for differential timing? | Was an incremental analysis of costs and consequences of alternatives performed? | Was allowance made for uncertainty in the estimates of costs and consequences? | Did the presentation and discussion of study results include all issues of concern to users? |
| Benatar et al. (R1) | No | Yes | Can’t tell | No | Yes | No | N.A. | No | No | No |
| Berg et al. (R2) | Can’t tell | Yes | Can’t tell | No | Yes | No | N.A. | No | No | No |
| Chen et al. (R3) | Yes | Yes | Yes | No | Yes | No | N.A. | No | No | No |
| Copeland et al. (R4) | No | Yes | Yes | No | Yes | Can’t tell | No | No | No | Yes |
| Dar et al. (R5) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | Yes | No | Yes |
| Dunagan et al. (R6) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | Yes | No | Yes |
| Finkelstein et al. (R7) | Yes | Yes | Yes | No | Yes | Yes | N.A. | Yes | No | No |
| Galbreath et al. (R8) | Yes | Yes | Yes | No | Yes | Can’t tell | No | No | No | No |
| Giordano et al. (R9) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | Yes |
| Hebert et al. (R10) | Yes | Yes | Yes | Yes | Yes | Can’t tell | N.A. | Yes | Yes | Yes |
| Heidenreich et al. (R11) | Yes | Yes | Yes | Can’t tell | Yes | Can’t tell | N.A. | No | No | Yes |
| Ho et al. (R12) | No | No | Yes | Can’t tell | Yes | Can’t tell | No | Yes | No | Yes |
| Hudson et al. (R13) | Yes | Yes | Can’t tell | Can’t tell | Yes | Can’t tell | N.A. | Yes | No | No |
| Jerant et al. (R14) | Yes | Yes | Yes | No | Yes | Yes | N.A. | No | Yes | No |
| Johnston et al. (R15) | Yes | Yes | Yes | No | Yes | Can’t tell | No | No | No | No |
| Kasper et al. (R16) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Laramee et al. (R17) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Myers et al. (R18) | No | Yes | Can’t tell | No | Yes | Can’t tell | N.A. | No | No | No |
| Noel et al. (R19) | No | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Peikes et al. (R20) | Can’t tell | Yes | Yes | No | Can’t tell | Can’t tell | No | No | No | Can’t tell |
| Riegel et al. (R21) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Riegel et al. (R22) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Riegel et al. (R23) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Scalvini et al. (R24) | Can’t tell | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Schwartz et al. (R25) | Yes | Yes | Yes | No | Can’t tell | Can’t tell | N.A. | No | No | No |
| Smith et al. (R26) | Yes | Yes | Yes | Can’t tell | Yes | Yes | Yes | Yes | No | Yes |
| Soran et al. (R27) | Yes | Yes | Yes | Can’t tell | Yes | Can’t tell | N.A. | No | No | Yes |
| Tompkins et al. (R28) | Yes | Yes | Yes | Can’t tell | Yes | Can’t tell | N.A. | No | No | No |
| Vaccaro et al. (R29) | No | Can’t tell | Yes | Can’t tell | Can’t tell | Can’t tell | N.A. | No | No | No |
| Wennberg et al. (R30) | Yes | Yes | Yes | Yes | Yes | Can’t tell | Yes | No | No | Yes |
| Wootton et al. (R31) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| Wootton et al. (R32) | Yes | Yes | Yes | No | Yes | Can’t tell | N.A. | No | No | No |
| *(Continued)* | | | | | | | | | | |
| **Results** | | | | | | | | | | |
| **Yes** | **23 (71,9 %)** | **30 (93,7 %)** | **28 (87,5 %)** | 2 | **29 (90,6 %)** | 3 | 2 | 7 | 2 | 10 |
| **No** | 6 | 1 | 0 | **23 (71,9 %)** | 0 | 3 | 5 | **25 (78,1 %)** | **30 (93,7 %)** | **21 (65,6 %)** |
| **Can’t tell** | 3 | 1 | 4 | 7 | 3 | **26 (81,2 %)** | 0 | 0 | 0 | 1 |
| **N.A.** | 0 | 0 | 0 | 0 | 0 | 0 | **25 (78,1 %)** | 0 | 0 | 0 |

*\*Derived from Drummond, Sculpher, Torrance, O'Brien, & Stoddart (7)*

# Supplementary Table 3. Data Mining\*

# *\*Derived from The Cochrane Handbook for Systematic Reviews of Interventions (15)*

|  |  |  |
| --- | --- | --- |
|  | **STUDIES** | **AUTHORS** |
| **Source** | | |
| Disease | | |
| Chronic Heart Failure | 26 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Dar, et al., 2009), (Dunagan, et al., 2005), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Hebert, et al., 2008), (Heidenreich, Ruggerio, & Massie, 1999), (Ho, et al., 2007) (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Kasper, et al., 2002), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wootton, Gramotnev, & Hailey, 2009) |
| CHF, COPD, Chronic Wound Care | 1 | (Finkelstein, Speedie, & Potthoff, 2006) |
| CHF, CAD, Diabetes | 1 | (Peikes, Chen, Schore, & Brown, 2009) |
| HF, Diabetes, Osteoarthritis | 1 | (Wootton, Gramotnev, & Hailey, 2010) |
| HF, CAD, COPD, Diabetes, Asthma | 1 | (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| HF, Chronic lung disease, Diabetes | 1 | (Noel, Vogel, Erdos, Cornwall, & Levin, 2004) |
| CHF, COPD, Cerebral Vascular Accident, Cancer, Diabetes, Anxiety, CWC | 1 | (Johnston, Wheeler, Deuser, & Sousa, 2000) |
| **Methods** | | |
| Study design | | |
| Randomized Controlled Trial | 18 | (Dar, et al., 2009), (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Jerant, Azari, & Nesbitt, 2001), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Tompkins & Orwat, 2010), (Wootton, Gramotnev, & Hailey, 2009) |
| Prospective randomized study | 3 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Copeland, Berg, Johnson, & Bauer, 2010), (Kasper, et al., 2002) |
| Quasiexperimental study | 2 | (Johnston, Wheeler, Deuser, & Sousa, 2000), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), |
| The evaluation of the RCT | 1 | (Wootton, Gramotnev, & Hailey, 2010) |
| A stratified randomization design | 1 | (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| Concurrent matched-cohort | 1 | (Berg, Wadhwa, & Johnson, 2004) |
| Non-concurrent, prospective design | 1 | (Chen, et al., 2010) |
| Prospective cohort study | 1 | (Heidenreich, Ruggerio, & Massie, 1999) |
| Cost-effectiveness analysis conducted alongside a randomized trial | 1 | (Hebert, et al., 2008) |
| Pre-post study (Data analysed for time periods before, during, and after the monitoring intervention) | 1 | (Hudson, et al., 2005) |
| Matching of the retrospective control data with the observed intervention data | 1 | (Vaccaro, Cherry, Harper, & O'Connell, 2001) |
| Prospective study | 1 | (Ho, et al., 2007) |
|  | | |
| Total study duration | | |
| 6 months | 10 | (Chen, et al., 2010), (Dar, et al., 2009), (Finkelstein, Speedie, & Potthoff, 2006), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Kasper, et al., 2002), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Soran, et al., 2010) |
| 12 months | 5 | (Berg, Wadhwa, & Johnson, 2004), (Dunagan, et al., 2005), (Giordano, et al., 2009), (Hebert, et al., 2008), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003) |
| 18 months | 2 | (Galbreath, et al., 2011), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008) |
| 3 months | 1 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003) |
| 2 months | 1 | (Myers, Grant, Lugn, Holbert, & Kvedar, 2006) |
| 1-year preintervention data collection period and a 1-year intervention and follow-up (24 months) | 1 | (Copeland, Berg, Johnson, & Bauer, 2010) |
| From May 1996 to October 1997 (17 months) | 1 | (Johnston, Wheeler, Deuser, & Sousa, 2000) |
| 7.4 ± 3 months (range 11 days to 10.9 months) | 1 | (Heidenreich, Ruggerio, & Massie, 1999) |
| Between Jan and Dec 2004 (11 months) | 1 | (Ho, et al., 2007) |
|  | | |
| Blinding | | |
| n/a | 20 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Heidenreich, Ruggerio, & Massie, 1999), (Ho, et al., 2007), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| Yes | 6 | (Dar, et al., 2009), (Dunagan, et al., 2005), (Hebert, et al., 2008), (Kasper, et al., 2002), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| No | 3 | (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009) |
| Partially | 3 | (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Soran, et al., 2010) |
|  | | |
| Bias | | |
| n/a | 16 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Dar, et al., 2009), (Finkelstein, Speedie, & Potthoff, 2006), (Hebert, et al., 2008), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Concerns | 14 | (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Heidenreich, Ruggerio, & Massie, 1999), (Kasper, et al., 2002), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| No concerns | 2 | (Dunagan, et al., 2005), (Ho, et al., 2007) |
| **Participants** | | |
| Setting | | |
| Outpatient (home based) | 30 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Dar, et al., 2009), (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Hebert, et al., 2008), (Heidenreich, Ruggerio, & Massie, 1999), (Ho, et al., 2007), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Kasper, et al., 2002), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011), (Wootton, Gramotnev, & Hailey, 2010) |
| n/a | 1 | (Wootton, Gramotnev, & Hailey, 2009) |
|  | | |
| Country | | |
| USA | 25 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Copeland, Berg, Johnson, & Bauer, 2010), (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Hebert, et al., 2008), (Heidenreich, Ruggerio, & Massie, 1999), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Kasper, et al., 2002), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Schwartz, Mion, Hudock, & Litman, 2008), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| Australia | 2 | (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Italy | 2 | (Giordano, et al., 2009), (Scalvini, et al., 2005) |
| UK | 1 | (Dar, et al., 2009) |
| China | 1 | (Chen, et al., 2010) |
| Taiwan | 1 | (Ho, et al., 2007) |
| **Intervention** | | |
| Intervention details | | |
| Telephone case management | 15 | (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Dunagan, et al., 2005), (Hebert, et al., 2008), (Ho, et al., 2007), (Kasper, et al., 2002), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Telemonitoring + telephone case management | 7 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Giordano, et al., 2009), (Hudson, et al., 2005), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Scalvini, et al., 2005), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008) |
| Telemonitoring | 7 | (Dar, et al., 2009), (Galbreath, et al., 2011), (Heidenreich, Ruggerio, & Massie, 1999), (Schwartz, Mion, Hudock, & Litman, 2008), (Soran, et al., 2010), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001) |
| Video visits | 1 | (Finkelstein, Speedie, & Potthoff, 2006) |
| Video visits + telephone visits | 1 | (Jerant, Azari, & Nesbitt, 2001) |
| Video visits + telephone visits + in-person visits + peripheral equipment | 1 | (Johnston, Wheeler, Deuser, & Sousa, 2000) |
|  | | |
| Frequency | | |
| n/a | 6 | (Jerant, Azari, & Nesbitt, 2001), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Daily | 6 | (Dar, et al., 2009), (Hudson, et al., 2005), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Schwartz, Mion, Hudock, & Litman, 2008), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001) |
| Intermittent | 5 | (Johnston, Wheeler, Deuser, & Sousa, 2000), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002) |
| Condensed | 5 | (Berg, Wadhwa, & Johnson, 2004), (Copeland, Berg, Johnson, & Bauer, 2010), (Ho, et al., 2007), (Scalvini, et al., 2005), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| Weekly | 4 | (Dunagan, et al., 2005), (Giordano, et al., 2009), (Heidenreich, Ruggerio, & Massie, 1999), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003) |
| Weekly to monthly | 2 | (Galbreath, et al., 2011), (Kasper, et al., 2002) |
| Two times per week | 1 | (Finkelstein, Speedie, & Potthoff, 2006) |
| Three times per week and decreasing | 1 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), |
| Biweekly | 1 | (Chen, et al., 2010) |
| Quarterly | 1 | (Hebert, et al., 2008) |
| **Outcomes** | | |
| Usage related | | |
| Admission rate/ hospitalization | 14 | (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Dar, et al., 2009), (Dunagan, et al., 2005), (Giordano, et al., 2009), (Hebert, et al., 2008), (Ho, et al., 2007), (Hudson, et al., 2005), (Kasper, et al., 2002), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Scalvini, et al., 2005), (Vaccaro, Cherry, Harper, & O'Connell, 2001) |
| Readmissions | 12 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Copeland, Berg, Johnson, & Bauer, 2010), (Dunagan, et al., 2005), (Giordano, et al., 2009), (Ho, et al., 2007), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Schwartz, Mion, Hudock, & Litman, 2008) |
| Length of stay | 10 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Chen, et al., 2010), (Dar, et al., 2009), (Ho, et al., 2007), (Jerant, Azari, & Nesbitt, 2001), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Schwartz, Mion, Hudock, & Litman, 2008), (Tompkins & Orwat, 2010) |
| ER visit | 7 | (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Schwartz, Mion, Hudock, & Litman, 2008), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001) |
| Service utilization | 3 | (Berg, Wadhwa, & Johnson, 2004), (Copeland, Berg, Johnson, & Bauer, 2010), (Johnston, Wheeler, Deuser, & Sousa, 2000) |
| Insurance claims | 3 | (Heidenreich, Ruggerio, & Massie, 1999), (Hudson, et al., 2005), (Soran, et al., 2010) |
| Prescription drugs use | 2 | (Berg, Wadhwa, & Johnson, 2004), (Johnston, Wheeler, Deuser, & Sousa, 2000) |
| Primary care visits | 1 | (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Tompkins & Orwat, 2010) |
| Use of resources | 1 | (Noel, Vogel, Erdos, Cornwall, & Levin, 2004) |
| Home visits | 1 | (Myers, Grant, Lugn, Holbert, & Kvedar, 2006) |
| Acute care visits | 1 | (Tompkins & Orwat, 2010) |
| Transfer to a different level of care | 1 | (Finkelstein, Speedie, & Potthoff, 2006) |
| Patient related | | |
| Quality of life | 11 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Dar, et al., 2009), (Hebert, et al., 2008), (Jerant, Azari, & Nesbitt, 2001), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Wootton, Gramotnev, & Hailey, 2010) |
| Satisfaction with care | 7 | (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Schwartz, Mion, Hudock, & Litman, 2008) |
| Mortality | 5 | (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Kasper, et al., 2002) |
| Functional status / SF 12 or EQ-5D | 4 | (Dunagan, et al., 2005), (Hebert, et al., 2008), (Jerant, Azari, & Nesbitt, 2001), (Wootton, Gramotnev, & Hailey, 2009) |
| Depression | 3 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Riegel, Carlson, Glaser, & Romero, 2006), (Schwartz, Mion, Hudock, & Litman, 2008) |
| Self-efficacy | 2 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Johnston, Wheeler, Deuser, & Sousa) |
| Morbidity | 1 | (Finkelstein, Speedie, & Potthoff, 2006) |
| Days alive | 1 | (Dar, et al., 2009) |
| Physical examination | 1 | (Ho, et al., 2007) |
| Walk test performance | 1 | (Galbreath, et al., 2011) |
| Improve in functional therapeutic class | 1 | (Galbreath, et al., 2011) |
| Adherence | 1 | (Laramee, Levinsky, Sargent, Ross, & Callas, 2003) |
| Anxiety | 1 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003) |
| Cost related | | |
| Intervention costs | 14 | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Copeland, Berg, Johnson, & Bauer, 2010), (Dunagan, et al., 2005), (Finkelstein, Speedie, & Potthoff, 2006), (Galbreath, et al., 2011), (Giordano, et al., 2009), (Ho, et al., 2007), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Total costs (Intervention, equipment, hospital/primary are, drug and transport costs) | 9 | (Dar, et al., 2009), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Peikes, Chen, Schore, & Brown, 2009), (Scalvini, et al., 2005), (Schwartz, Mion, Hudock, & Litman, 2008), (Soran, et al., 2010), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011), (Wootton, Gramotnev, & Hailey, 2010) |
| Hospitalization charges | 6 | (Hudson, et al., 2005), (Riegel, Carlson, Glaser, & Romero, 2006), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wootton, Gramotnev, & Hailey, 2009) |
| Cost of personnel | 3 | (Finkelstein, Speedie, & Potthoff, 2006), (Kasper, et al., 2002), (Scalvini, et al., 2005) |
| Readmission charges | 2 | (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001) |
| Resource costs | 1 | (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002) |
| Direct and indirect | 1 | (Johnston, Wheeler, Deuser, & Sousa, 2000) |
| Insurance claims | 1 | (Heidenreich, Ruggerio, & Massie, 1999) |
| Cost-effectiveness | 1 | (Hebert, et al., 2008) |
| **Results** | | |
| Costs | | |
| Saved | **19** | (Benatar, Bondmass, Ghitelman, & Avitall, 2003), (Berg, Wadhwa, & Johnson, 2004), (Chen, et al., 2010), (Finkelstein, Speedie, & Potthoff, 2006), (Giordano, et al., 2009), (Hebert, et al., 2008), (Heidenreich, Ruggerio, & Massie, 1999), (Ho, et al., 2007), (Hudson, et al., 2005), (Jerant, Azari, & Nesbitt, 2001), (Johnston, Wheeler, Deuser, & Sousa, 2000), (Myers, Grant, Lugn, Holbert, & Kvedar, 2006), (Noel, Vogel, Erdos, Cornwall, & Levin, 2004), (Riegel, Carlson, Kopp, LePetri, Glaser, & Unger, 2002), (Riegel, Carslon, Glaser, Kopp, & Romero, 2002), (Scalvini, et al., 2005), (Tompkins & Orwat, 2010), (Vaccaro, Cherry, Harper, & O'Connell, 2001), (Wennberg, Marr, Lang, O’Malley, & Bennett, 2011) |
| Same | **9** | (Dunagan, et al., 2005), (Galbreath, et al., 2011), (Kasper, et al., 2002), (Laramee, Levinsky, Sargent, Ross, & Callas, 2003), (Peikes, Chen, Schore, & Brown, 2009), (Riegel, Carlson, Glaser, & Romero, 2006), (Schwartz, Mion, Hudock, & Litman, 2008), (Wootton, Gramotnev, & Hailey, 2009), (Wootton, Gramotnev, & Hailey, 2010) |
| Incurred | **4** | (Copeland, Berg, Johnson, & Bauer, 2010), (Dar, et al., 2009), (Smith, Hughes-Cromwick, Forkner, & Galbreath, 2008), (Soran, et al., 2010) |