

Consultation version of evidence tables for 2019 surveillance of menopause

Table 1 Vasomotor and general menopausal symptoms

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|-----------------------|----------------|------------|-------------|-------------------|-------------------|--------------------------------|---|-----------------------------------|-------------|----------------------------|
| Gaudard et al. (2016) | 9 | SR-C | 793 | 4 | - | Women with menopausal symptoms | HRT (oestrogen patch) | Placebo | Hot flushes | Improved with intervention |
| Gaudard et al. (2016) | 9 | SR-C | - | 3 | - | Women with menopausal symptoms | HRT (oestrogen gel) | Placebo | Hot flushes | Improved with intervention |
| Gaudard et al. (2016) | 9 | SR-C | 356 | 2 | - | Women with menopausal symptoms | HRT (oestrogen, oral) | Placebo | Hot flushes | Improved with intervention |
| Gaudard et al. (2016) | 9 | SR-C | - | 1 | - | Women with menopausal symptoms | HRT (oestrogen topical emulsion) | Placebo | Hot flushes | Improved with intervention |
| Gaudard et al. (2016) | 9 | SR-C | 458 | 1 | - | Women with menopausal symptoms | HRT (oestrogen intranasal) | Placebo | Hot flushes | Improved with intervention |
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (conjugated oestrogen plus progestogen) | Placebo | Hot flushes | Improved with intervention |
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (oestrogen, transdermal) | Placebo | Hot flushes | Improved with intervention |
| Gaudard et al. (2016) | 9 | SR-C | - | - | - | Women with menopausal symptoms | HRT (oestrogen, bioidentical oral) | HRT (conjugated equine oestrogen) | Hot flushes | No effect of intervention |
| Ensrud et al. (2015) | 2 | RCT | 339 | - | 2 | Women with hot flushes | HRT (oestrogen only) | Placebo | Insomnia | Improved with intervention |

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|---------------------------|----|------|-------|---|----|---|---|--------------------------------|-------------------------------------|----------------------------|
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (conjugated oestrogen plus progestogen) | Placebo | Insomnia | Improved with intervention |
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (oestrogen, transdermal) | Placebo | Insomnia | Improved with intervention |
| Yu, C-G; et al. (2016) | 3 | RCT | 100 | - | 3 | Women with menopausal symptoms | HRT (oestrogen) | HRT (progestogen) | Menopause symptoms | Improved with intervention |
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (conjugated oestrogen plus progestogen) | Placebo | Night sweats | Improved with intervention |
| Santoro et al. (2017) | 1 | RCT | 727 | - | 48 | Postmenopausal women | HRT (oestrogen, transdermal) | Placebo | Night sweats | Improved with intervention |
| Caan et al. (2015) | 4 | RCT | 339 | - | 2 | Women with vasomotor symptoms | HRT (oestrogen, low-dose) | Placebo | Quality of life | Improved with intervention |
| Diem et al. (2018) | 5 | RCT | 302 | - | 3 | Postmenopausal women with vulvovaginal symptoms | HRT (vaginal oestrogen) plus placebo gel | Placebo vaginal tablet and gel | Quality of life (menopause related) | Improved with intervention |
| Constantine et al. (2019) | 6 | RCT | 726 | - | 3 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Quality of life (menopause related) | Improved with intervention |
| Ensrud et al. (2015) | 2 | RCT | 339 | - | 2 | Women with hot flushes | HRT (oestrogen only) | Placebo | Sleep quality | Improved with intervention |
| Kagan et al. (2018) | 7 | RCT | 1,835 | - | 3 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Sleep score | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 1,657 | 7 | - | Women with menopausal symptoms | HRT (tibolone) | Placebo | Vasomotor symptoms | Improved with intervention |
| Constantine et al. (2019) | 6 | RCT | 726 | - | 3 | Postmenopausal women | Oestrogen plus progestogen (oral capsule) | Placebo | Vasomotor symptoms | Improved with intervention |
| Paoletti et al. (2015) | 8 | RCT | 100 | - | 12 | Postmenopausal women with vasomotor symptoms | HRT (oestrogen plus progestogen) | Placebo | Vasomotor symptoms | Improved with intervention |

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|-----------------------|----|------|-------|---|---|--------------------------------|----------------|----------------|--------------------|-------------------------|
| Formoso et al. (2016) | 10 | SR-C | 1,336 | 9 | - | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Vasomotor symptoms | Worse with intervention |
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Table 2 Vaginal symptoms

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|-----------------------|----------------|------------|-------------|-------------------|-------------------|--|------------------------|------------------------|-----------------------------|----------------------------|
| Lethaby et al. (2016) | 18 | SR-C | 67 | 1 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen ring) | Placebo | Symptoms of vaginal atrophy | Improved with intervention |
| Lethaby et al. (2016) | 18 | SR-C | 198 | 2 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen cream) | Placebo | Symptoms of vaginal atrophy | Improved with intervention |
| Lethaby et al. (2016) | 18 | SR-C | 50 | 1 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen cream) | Isoflavone gel | Symptoms of vaginal atrophy | No effect of intervention |
| Lethaby et al. (2016) | 18 | SR-C | 341 | 2 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen ring) | HRT (oestrogen cream) | Symptoms of vaginal atrophy | No effect of intervention |
| Lethaby et al. (2016) | 18 | SR-C | 208 | 2 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen tablet) | HRT (oestrogen cream) | Symptoms of vaginal atrophy | No effect of intervention |
| Lethaby et al. (2016) | 18 | SR-C | 567 | 3 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen ring) | HRT (oestrogen tablet) | Symptoms of vaginal atrophy | No effect of intervention |
| Lethaby et al. (2016) | 18 | SR-C | 1,638 | 2 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen tablet) | Placebo | Symptoms of vaginal atrophy | No effect of intervention |

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|---------------------------|----|-----|-----|---|----|--|---|--|--|----------------------------|
| Constantine et al. (2018) | 11 | RCT | 561 | - | 3 | Postmenopausal women with vulvovaginal atrophy | HRT (oestrogen, intravaginal) | Placebo | Dyspareunia | Improved with intervention |
| Kroll et al. (2018) | 12 | RCT | 550 | - | 3 | Postmenopausal women with vulvovaginal atrophy | HRT (oestrogen intravaginal) | Placebo | Dyspareunia | Improved with intervention |
| Taylor et al. (2017) | 13 | RCT | 670 | - | 48 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Sexual function | Improved with intervention |
| Mitchell et al. (2018) | 14 | RCT | 302 | - | 3 | Postmenopausal women with moderate to severe vulvovaginal symptoms | HRT (vaginal oestrogen tablet plus placebo gel) | Placebo tablet plus placebo gel | Sexual function | No effect of intervention |
| Taylor et al. (2017) | 13 | RCT | 670 | - | 48 | Postmenopausal women | HRT (conjugated equine oestrogens plus progestogen) | Placebo | Sexual function | No effect of intervention |
| Constantine et al. (2017) | 15 | RCT | 764 | - | 3 | Postmenopausal women | HRT (vaginal oestrogen gel capsule) | Placebo | Dyspareunia plus measures of superficial and parabasal cells, and vaginal pH | Improved with intervention |
| Archer et al. (2018) | 16 | RCT | 576 | - | 3 | Postmenopausal women with vaginal atrophy | HRT (oestrogen vaginal cream) | Placebo | Vaginal dryness | Improved with intervention |
| Rioux J.E.; et al. (2018) | 17 | RCT | 159 | - | 6 | Women with menopausal symptoms | HRT (oestrogen, intravaginal, 25 mg) | HRT (conjugated equine oestrogen, intravaginal, 1.25 mg) | Vaginal symptoms | No effect of intervention |

Table 3 Depression

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|----------------------|----------------|------------|-------------|-------------------|----------------------|--|------------|------------------|----------------------------|
| Gordon et al. (2018) | 19 | RCT | 172 | - | Postmenopausal women | HRT (oestrogen, transdermal, plus progestogen, oral) | Placebo | Depression score | Improved with intervention |

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|-----------------------|----|-----|-----|---|----------------------|---|---------|---------------------|----------------------------|
| Gleason et al. (2015) | 20 | RCT | 693 | - | Postmenopausal women | HRT (conjugated equine oestrogen, oral, plus progestogen) | Placebo | Depression symptoms | Improved with intervention |
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Table 4 Other outcomes

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|---------------------------|----------------|------------|-------------|-------------------|-------------------|--|---------------------------------|---|---|----------------------------|
| Rioux J.E.; et al. (2018) | 17 | RCT | 159 | - | 6 | Women with menopausal symptoms | HRT (oestrogen, intravaginal) | HRT (conjugated equine oestrogen, intravaginal) | Follicle stimulating hormone level | Improved with intervention |
| Kingsberg et al. (2017) | 3 | RCT | 764 | - | - | Postmenopausal women with vulval and vaginal atrophy | HRT (oestrogen vaginal capsule) | Placebo | Intention to use product again | Improved with intervention |
| Yu, C-G; et al. (2016) | 21 | RCT | 100 | - | 3 | Women with menopausal symptoms | HRT (oestrogen) | HRT (progestogen) | Luteinising hormone and follicle stimulating hormone levels | Improved with intervention |
| Rioux J.E.; et al. (2018) | 17 | RCT | 159 | - | 6 | Women with menopausal symptoms | HRT (oestrogen, intravaginal) | HRT (conjugated equine oestrogen, intravaginal) | Oestrogen level | Improved with intervention |
| Yu, C-G; et al. (2016) | 21 | RCT | 100 | - | 3 | Women with menopausal symptoms | HRT (oestrogen) | HRT (progestogen) | Oestrogen level | Improved with intervention |
| Rioux J.E.; et al. (2018) | 17 | RCT | 159 | - | 6 | Women with menopausal symptoms | HRT (oestrogen, intravaginal) | HRT (conjugated equine oestrogen, intravaginal) | Patient acceptance | Improved with intervention |
| Kingsberg et al. (2017) | 21 | RCT | 764 | - | - | Postmenopausal women with vulval and vaginal atrophy | HRT (oestrogen vaginal capsule) | Placebo | Satisfaction with treatment | Improved with intervention |

Table 5 Adverse events

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|-----------------------|----------------|------------|-------------|-------------------|-------------------|--------------------------------|----------------------------------|-----------------------------------|-----------------------|----------------------------|
| Gaudard et al. (2016) | 9 | SR-C | 103 | 1 | - | Women with menopausal symptoms | HRT (oestrogen, oral) | HRT (conjugated equine oestrogen) | Adverse events | No effect of intervention |
| Gaudard et al. (2016) | 9 | SR-C | 433 | 3 | - | Women with menopausal symptoms | HRT (oestrogen, oral) | Placebo | Adverse events | No effect of intervention |
| Gaudard et al. (2016) | 9 | SR-C | 200 | 1 | - | Women with menopausal symptoms | HRT (oestrogen topical emulsion) | Placebo | Adverse events | No effect of intervention |
| Gaudard et al. (2016) | 9 | SR-C | 1,822 | 9 | - | Women with menopausal symptoms | HRT (oestrogen patch) | Placebo | Adverse events | Worse with intervention |
| Gaudard et al. (2016) | 9 | SR-C | 1,086 | 3 | - | Women with menopausal symptoms | HRT (oestrogen gel) | Placebo | Adverse events | Worse with intervention |
| Gaudard et al. (2016) | 9 | SR-C | 458 | 1 | - | Women with menopausal symptoms | HRT (oestrogen intranasal) | Placebo | Adverse events | Worse with intervention |
| Formoso et al. (2016) | 10 | SR-C | 6,438 | 16 | - | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Bleeding | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 7,814 | 9 | - | Women with menopausal symptoms | HRT (tibolone) | Placebo | Bleeding | Worse with intervention |
| Lethaby et al. (2016) | 18 | SR-C | 151 | 2 | - | Women with vaginal atrophy | HRT (oestrogen tablet) | Placebo | Endometrial thickness | No effect of intervention |

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| | | | | | | after the menopause | | | | |
| Lethaby et al. (2016) | 18 | SR-C | 273 | 2 | - | Women with vaginal atrophy after the menopause | HRT (oestrogen ring) | HRT (oestrogen cream) | Endometrial thickness | Worse with intervention |
| Yu, C-G; et al. (2016) | 3 | RCT | 100 | - | 3 | Women with menopausal symptoms | HRT (oestrogen) | HRT (progestogen) | Adverse events, uterine volume and endometrial thickness | No effect of intervention |

Table 6 Non-HRT drug treatments

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|--------------------------------|----------------|------------|-------------|-------------------|-------------------|--|---|--------------------------|-----------------|----------------------------|
| Labrie, Fernand; et al. (2015) | 22 | RCT | 482 | - | 3 | Postmenopausal women with vaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Dyspareunia | Improved with intervention |
| Labrie, Fernand; et al. (2016) | 22 | RCT | 482 | - | 3 | Women with vulvovaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Dyspareunia | Improved with intervention |
| Labrie, Fernand; et al. (2015) | 24 | RCT | 482 | - | 3 | Postmenopausal women with vaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Lubrication | Improved with intervention |
| Labrie, Fernand; et al. (2015) | 24 | RCT | 482 | - | 3 | Postmenopausal women with vaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Orgasm | Improved with intervention |
| Labrie, Fernand; et al. (2015) | 24 | RCT | 482 | - | 3 | Postmenopausal women with vaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Satisfaction | Improved with intervention |
| Labrie, Fernand; et al. (2015) | 24 | RCT | 482 | - | 3 | Postmenopausal women with vaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Sexual desire | Improved with intervention |
| Barton, Debra L; et al. (2018) | 23 | RCT | 464 | - | 3 | Postmenopausal women with a history of breast or gynaecological cancer | Prasterone (dehydroepiandrosterone, intravaginal) | Intravaginal moisturiser | Sexual health | Improved with intervention |
| Labrie, Fernand; et al. (2016) | 22 | RCT | 482 | - | 3 | Women with vulvovaginal atrophy | Prasterone (dehydroepiandrosterone, intravaginal) | Placebo | Vaginal dryness | Improved with intervention |
| Labrie, Fernand; et al. (2016) | 22 | RCT | 482 | - | 3 | Women with vulvovaginal atrophy | Dehydroepiandrosterone (intravaginal) | Placebo | Parabasal cells | Improved with intervention |

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|-----------------------------------|----|-----|-----|---|---|--|---|--------------------------|---|----------------------------|
| Labrie, Fernand; et al. (2016) | 22 | RCT | 482 | - | 3 | Women with vulvovaginal atrophy | Dehydroepiandrosterone (intravaginal) | Placebo | Superficial cells | Improved with intervention |
| Labrie, Fernand; et al. (2016) | 22 | RCT | 482 | - | 3 | Women with vulvovaginal atrophy | Dehydroepiandrosterone (intravaginal) | Placebo | Vaginal pH | Improved with intervention |
| Barton, Debra L; et al. (2018) | 23 | RCT | 464 | - | 3 | Postmenopausal women with a history of breast or gynaecological cancer | Dehydroepiandrosterone (intravaginal) | Intravaginal moisturiser | Vaginal dryness or dyspareunia | No effect of intervention |
| Barton, Debra L; et al. (2018) | 23 | RCT | 464 | - | 3 | Postmenopausal women with a history of breast or gynaecological cancer | Prasterone (dehydroepiandrosterone, intravaginal) | Intravaginal moisturiser | Vaginal dryness or dyspareunia | No effect of intervention |
| Parandavar, Nehleh; et al. (2018) | 28 | RCT | 240 | - | 3 | Postmenopausal women | Melatonin | Placebo | Low-density lipoprotein cholesterol | No effect of intervention |
| Li Y.; et al. (2016) | 27 | RCT | 128 | - | 6 | Women with premature ovarian failure | Melatonin | Placebo | Luteinising and follicle stimulating hormone levels | Improved with intervention |
| Li Y.; et al. (2016) | 27 | RCT | 128 | - | 6 | Women with premature ovarian failure | Melatonin | Placebo | Ovarian hormone secretion | Improved with intervention |
| Parandavar, Nehleh; et al. (2018) | 28 | RCT | 240 | - | 3 | Postmenopausal women | Melatonin | Placebo | Triglycerides | No effect of intervention |
| Archer, David F; et al. (2019) | 25 | RCT | 631 | - | 3 | Postmenopausal women with vaginal dryness | Ospemifene | Placebo | Dyspareunia | Improved with intervention |
| Constantine, G; et al. (2015) | 26 | RCT | 919 | - | 3 | Postmenopausal women with vulvar and vaginal atrophy | Ospemifene | Placebo | Sexual function | Improved with intervention |
| Archer, David F; et al. (2019) | 25 | RCT | 631 | - | 3 | Postmenopausal women with vaginal dryness | Ospemifene | Placebo | Sexual function | Improved with intervention |
| Archer, David F; et al. (2019) | 25 | RCT | 631 | - | 3 | Postmenopausal women with vaginal dryness | Ospemifene | Placebo | Vaginal dryness | Improved with intervention |

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|-----------------------------------|----|-----|-----|---|---|--|---------------------------|---------|--|----------------------------|
| Archer, David F; et al. (2019) | 25 | RCT | 631 | - | 3 | Postmenopausal women with vaginal dryness | Ospemifene | Placebo | Parabasal and superficial cells, vaginal pH, and severity of vaginal dryness | Improved with intervention |
| Simon, James A; et al. (2016) | 29 | RCT | 148 | - | | Postmenopausal women | Oxybutynin | Placebo | Vasomotor symptoms | Improved with intervention |
| Simon, James A; et al. (2016) | 29 | RCT | 148 | - | 3 | Postmenopausal women | Oxybutynin | Placebo | Dry mouth | Worse with intervention |
| Simon, James A; et al. (2016) | 29 | RCT | 148 | - | | Postmenopausal women | Oxybutynin | Placebo | Sleep quality | Improved with intervention |
| Torky H.A.; et al. (2018) | 30 | RCT | 140 | - | 1 | Postmenopausal women with vulvovaginal atrophy | Oxytocin intravaginal gel | Placebo | Dyspareunia | Improved with intervention |
| Ensrud, Kristine E; et al. (2015) | 2 | RCT | 339 | - | 2 | Women with hot flashes | Venlafaxine | Placebo | Insomnia | Improved with intervention |
| Caan, Bette; et al. (2015) | 4 | RCT | 339 | - | 2 | Women with vasomotor symptoms | Venlafaxine | Placebo | Quality of life | Improved with intervention |
| Ensrud, Kristine E; et al. (2015) | 2 | RCT | 339 | - | 2 | Women with hot flashes | Venlafaxine | Placebo | Sleep quality | Improved with intervention |

Table 7 Physical and psychological treatments

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|------------------------------|----------------|------------|-------------|-------------------|-------------------|---|-------------------|-------------------|--|----------------------------|
| Hardy, Claire; et al. (2018) | 31 | RCT | 124 | - | 2 | Women with vasomotor symptoms | CBT, self-help | Wait list control | Hot flashes or night sweats | Improved with intervention |
| Atema et al. (2019) | 32 | RCT | 254 | - | 2 | Women with a history of breast cancer and | CBT, self-managed | Wait list control | Impact of hot flashes and night sweats | Improved with intervention |

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| | | | | | | menopausal symptoms | | | | |
| Atema et al. (2019) | 32 | RCT | 254 | - | 2 | Women with a history of breast cancer and menopausal symptoms | CBT, self-managed | Wait list control | Sleep quality | Improved with intervention |
| McCurry, Susan M; et al. (2016) | 33 | RCT | 106 | - | 2 | Menopausal women with insomnia | CBT, telephone-based | Menopause education control | Hot flushes | No effect of intervention |
| McCurry, Susan M; et al. (2016) | 33 | RCT | 106 | - | 2 | Menopausal women with insomnia | CBT, telephone-based | Menopause education control | Insomnia | Improved with intervention |
| McCurry, Susan M; et al. (2016) | 33 | RCT | 106 | - | 2 | Menopausal women with insomnia | CBT, telephone-based | Menopause education control | Sleep quality | Improved with intervention |
| Atema et al. (2019) | 32 | RCT | 254 | - | 2 | Women with a history of breast cancer and menopausal symptoms | CBT, therapist-guided | Wait list control | Impact of hot flushes and night sweats | Improved with intervention |
| Atema et al. (2019) | 32 | RCT | 254 | - | 2 | Women with a history of breast cancer and menopausal symptoms | CBT, therapist-guided | Wait list control | Sleep quality | Improved with intervention |
| Huang, Alison J; et al. (2015) | 34 | RCT | 123 | - | 3 | Women with vasomotor symptoms | Device-guided slow-paced breathing | Control device | Hot flush frequency | Improved with intervention |
| Huang, Alison J; et al. (2015) | 34 | RCT | 123 | - | 3 | Women with vasomotor symptoms | Device-guided slow-paced breathing | Control device | Hot flushes | Improved with intervention |
| Huang, AJ; et al. (2015) | 34 | RCT | 123 | - | 3 | Women with vasomotor symptoms | Device-guided slow-paced breathing | Non-rhythmic music | Hot flushes | No effect of intervention |

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|---|----|-----|-----|---|----|-------------------------------|--|----------------------|--------------------------------------|----------------------------|
| Daley, A J; et al. (2015) | 35 | RCT | 261 | - | 6 | Women with vasomotor symptoms | Exercise intervention (2 consultations with physical activity facilitator) | Control | Hot flushes or night sweats | No effect of intervention |
| Daley, A J; et al. (2015) | 35 | RCT | 261 | - | 6 | Women with vasomotor symptoms | Exercise intervention (menopause information DVD and written information to encourage physical activity) | Control | Hot flushes or night sweats | No effect of intervention |
| Abedi, P; et al. (2015) | 36 | RCT | 106 | - | 3 | Postmenopausal women | Exercise intervention (pedometer-monitored walking) | Unspecified control | Anxiety and insomnia | Improved with intervention |
| Abedi, P; et al. (2015) | 36 | RCT | 106 | - | 3 | Postmenopausal women | Exercise intervention (pedometer-monitored walking) | Unspecified control | Depression | Improved with intervention |
| Tadayon, M; et al. (2016) | 37 | RCT | 112 | - | 3 | Postmenopausal women | Exercise intervention (pedometer-monitored walking) | Usual care | Sleep quality | Improved with intervention |
| Abedi, P; et al. (2015) | 36 | RCT | 106 | - | 3 | Postmenopausal women | Exercise intervention (pedometer-monitored walking) | Unspecified control | Step count increase | Improved with intervention |
| Gozuyesil, Ebru; Baser, Muruvvet (2016) | 38 | RCT | 120 | - | - | Women with vasomotor symptoms | Foot reflexology | Control aromatherapy | Hot flushes, sweats and night sweats | Improved with intervention |
| Almeida, Osvaldo P; et al. (2016) | 39 | RCT | 351 | - | 12 | Menopausal women | Health coaching | Usual care | Depression symptoms | No effect of intervention |

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| Mirghafourvand, M; et al. (2015) | 40 | RCT | 124 | - | 2 | Women with menopausal symptoms | Self-directed learning | Control (no learning) | Hot flushes | Improved with intervention |
| Mirghafourvand, M; et al. (2015) | 40 | RCT | 124 | - | 2 | Women with menopausal symptoms | Self-directed learning | Control (no learning) | Menopausal symptoms | Improved with intervention |

Table 8 Alternative and complementary medicine

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|---|----------------|------------|-------------|-------------------|-------------------|--|---|------------|-------------------------------------|----------------------------|
| Heudel P.-E.; et al. (2019) | 41 | RCT | 299 | - | 1 | Women with breast cancer (non-metastatic, localised, ECOG=PS<=1) | Actheane (homeopathic medicine complex) | Placebo | Hot flushes | No effect of intervention |
| Heudel P.-E.; et al. (2019) | 41 | RCT | 299 | - | 1 | Women with breast cancer and vasomotor symptoms | Actheane (homeopathic medicine complex) | Placebo | Quality of life | No effect of intervention |
| Steels E.; et al. (2018) | 42 | RCT | 117 | - | 3 | Women with menopausal symptoms | Ayurvedic herbal remedy | Placebo | Vasomotor symptoms | Improved with intervention |
| Steels E.; et al. (2018) | 42 | RCT | 117 | - | 3 | Women with menopausal symptoms | Ayurvedic herbal remedy | Placebo | Quality of life (menopause related) | Improved with intervention |
| Farshbaf-Khalili, Azizeh; et al. (2018) | 43 | RCT | 156 | - | 2 | Postmenopausal women | Bitter orange capsule | Placebo | Anxiety | Improved with intervention |

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| Kamalifard M.; et al. (2017) | 44 | RCT | 156 | - | 2 | Women with menopausal symptoms | Bitter orange capsule | Placebo | Depression | Improved with intervention |
| Kamalifard, Mahin; et al. (2019) | 44 | RCT | 157 | - | 3 | Postmenopausal women | Bitter orange capsule | Placebo | Sleep quality | Improved with intervention |
| Dastenaiei, BM; et al. (2017) | 45 | RCT | 100 | - | 1 | Postmenopausal women | Evening primrose oil | Placebo | Hot flushes | Improved with intervention |
| Steels, E; et al. (2017) | 46 | RCT | 115 | - | 3 | Women with menopausal symptoms | Fenugreek seed extract | Placebo | Hot flushes | Improved with intervention |
| Steels, E; et al. (2017) | 46 | RCT | 115 | - | 3 | Women with menopausal symptoms | Fenugreek seed extract | Placebo | Menopausal symptoms | Improved with intervention |
| Aghamiri, Vida; et al. (2016) | 47 | RCT | 120 | - | 3 | Women with symptoms of menopause | Hop extract | Placebo | Hot flushes | Improved with intervention |
| Aghamiri, Vida; et al. (2016) | 47 | RCT | 120 | - | 3 | Women with symptoms of menopause | Hop extract | Placebo | Menopausal symptoms | Improved with intervention |
| Kazemzadeh, Rafat; et al. (2016) | 48 | RCT | 100 | - | 3 | Women with menopausal symptoms | Lavender aromatherapy | Control aromatherapy | Hot flushes | Improved with intervention |
| Nikjou R.; et al. (2018) | 49 | RCT | 100 | - | - | Women with menopausal symptoms | Lavender aromatherapy | Diluted milk control | Menopausal symptoms | Improved with intervention |
| Farshbaf-Khalili, Azizeh; et al. (2018) | 43 | RCT | 157 | - | 3 | Postmenopausal women | Lavender capsule | Placebo | Anxiety | Improved with intervention |
| Farshbaf-Khalili, Azizeh; et al. (2018) | 43 | RCT | 157 | - | 3 | Postmenopausal women | Lavender capsule | Bitter orange capsule | Anxiety | No effect of intervention |

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|-------------------------------------|----|-----|-----|---|---|--|---|---------------------------------|-----------------------------|----------------------------|
| Kamalifard M.; et al. (2017) | 44 | RCT | 156 | - | 2 | Women with menopausal symptoms | Lavender capsule | Placebo | Depression | Improved with intervention |
| Kamalifard, Mahin; et al. (2018) | 44 | RCT | 156 | - | 2 | Postmenopausal women | Lavender capsule | Placebo | Sleep quality | Improved with intervention |
| Sathyapalan, T; et al. (2018) | 50 | RCT | 200 | - | 6 | Women in early menopause | Protein bar with isoflavones | Protein bar without isoflavones | Cardiovascular risk factors | Improved with intervention |
| Gocan A.; et al. (2018) | 51 | RCT | 180 | - | 3 | Women with hot flushes | Soy germ extract | Placebo | Hot flushes | Improved with intervention |
| Mitchell, Caroline M; et al. (2018) | 14 | RCT | 302 | - | 3 | Postmenopausal women with moderate to severe vulvovaginal symptoms | Vaginal moisturiser plus placebo vaginal tablet | Placebo tablet plus placebo gel | Sexual function | No effect of intervention |

Table 9 Chinese herbal medicine

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|-----------------------|----------------|------------|-------------|-------------------|-------------------|--------------------------------|-------------------------|--|----------------|---------------------------|
| Zhu, X; et al. (2016) | 52 | SR-C | 705 | 7 | - | Women with menopausal symptoms | Chinese herbal medicine | Placebo | Adverse events | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 864 | 2 | - | Women with menopausal symptoms | Chinese herbal medicine | HRT | Adverse events | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 139 | 2 | - | Women with menopausal symptoms | Chinese herbal medicine | Other drug treatments (such as fluoxetine) | Adverse events | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 199 | 2 | - | Women with menopausal symptoms | Chinese herbal medicine | Placebo | Hot flushes | No effect of intervention |

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|-------------------------|----|------|-----|---|---|--------------------------------|-------------------------|---------|---------------------|---------------------------|
| Jiang D.; et al. (2015) | 53 | RCT | 224 | - | 3 | Women with menopausal symptoms | Chinese herbal medicine | Placebo | Menopausal symptoms | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 64 | 1 | - | Women with menopausal symptoms | Chinese herbal medicine | Placebo | Night sweats | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 256 | 3 | - | Women with menopausal symptoms | Chinese herbal medicine | Placebo | Vasomotor symptoms | No effect of intervention |
| Zhu, X; et al. (2016) | 52 | SR-C | 127 | 2 | - | Women with menopausal symptoms | Chinese herbal medicine | HRT | Vasomotor symptoms | No effect of intervention |

Table 10 Acupuncture

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|------------------------------|----------------|------------|-------------|-------------------|-------------------|--------------------------------|--------------|------------------|---|----------------------------|
| Li, O; Wang, F (2018) | 54 | RCT | 128 | - | 2 | Women with menopausal insomnia | Acupuncture | Alprazolam | Oestrogen levels | Improved with intervention |
| Avis, Nancy E; et al. (2016) | 55 | RCT | 209 | - | 6 | Women with vasomotor symptoms | Acupuncture | Waitlist control | Vasomotor symptoms | Improved with intervention |
| Li, O; Wang, F (2018) | 54 | RCT | 128 | - | 2 | Women with menopausal insomnia | Acupuncture | Alprazolam | Sleep quality | Improved with intervention |
| Li, O; Wang, F (2018) | 54 | RCT | 128 | - | 2 | Women with menopausal insomnia | Acupuncture | Alprazolam | Luteinising hormone and follicle stimulating hormone levels | No effect of intervention |
| Liu Z.; et al. (2018) | 56 | RCT | 360 | - | 8 | Women with menopausal symptoms | Acupuncture | Sham acupuncture | Hot flushes | Improved with intervention |
| Liu Z.; et al. (2018) | 56 | RCT | 360 | - | 8 | Women with menopausal symptoms | Acupuncture | Sham acupuncture | Menopausal symptoms | Improved with intervention |

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|-----------------------------|----|-----|-----|---|---|---|---|---------------------------|-------------------------------------|----------------------------|
| Liu Z.; et al. (2018) | 56 | RCT | 360 | - | 8 | Women with menopausal symptoms | Acupuncture | Sham acupuncture | Quality of life (menopause related) | Improved with intervention |
| Ee, Carolyn; et al. (2016) | 57 | RCT | 327 | - | 2 | Women with vasomotor symptoms | Acupuncture | Sham acupuncture | Hot flushes | No effect of intervention |
| Lesi, Grazia; et al. (2016) | 58 | RCT | 190 | - | 3 | Women with breast cancer and vasomotor symptoms | Acupuncture plus enhanced self-care | Self-care | Hot flushes | Improved with intervention |
| Peng, YY; et al. (2018) | 59 | RCT | 100 | - | 3 | Women with menopausal symptoms | Acupuncture therapies (electroacupuncture, plus acupoint injection, plus fire needle treatment) | Control (no intervention) | Menopausal symptoms | Improved with intervention |

Table 11 Coronary heart disease

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|------------------------|----------------|------------|-------------|-------------------|---|--|------------|------------------------------------|----------------------------|
| Crandall et al. (2018) | 60 | Cohort | 45,663 | - | Postmenopausal women without hysterectomy | HRT (oestrogen, intravaginal) | No HRT | Coronary heart disease | Improved with intervention |
| Crandall et al. (2019) | 60 | Cohort | 45,664 | - | Postmenopausal women with previous hysterectomy | HRT (oestrogen, intravaginal) | No HRT | Coronary heart disease | No effect of intervention |
| Mikkola et al. (2016) | 61 | Cohort | 195,756 | - | Postmenopausal women | HRT (oestrogen, intravaginal, 3-5 year duration) | no HRT | Coronary heart disease (mortality) | Improved with intervention |

Table 12 Stroke

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|----------------------------|----------------|------------|-------------|-------------------|----------------------|--|-------------------|-------------------|----------------------------|
| Mikkola et al. (2015) | 61 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped more than a year ago) | No HRT | Mortality, stroke | Improved with intervention |
| Mikkola et al. (2016) | 61 | Cohort | 195,756 | - | Postmenopausal women | HRT (oestrogen, intravaginal, 3-5 year duration) | no HRT | Mortality, stroke | Improved with intervention |
| Mikkola et al. (2015) | 61 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped up to a year ago) | No HRT | Mortality, stroke | Worse with intervention |
| Mikkola et al. (2015) | 61 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped up to a year ago) | HRT (current use) | Mortality, stroke | Worse with intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (started within 5 years of menopause) | No HRT | Stroke | Improved with intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (conjugated equine oestrogen started later than 5 years after menopause) | No HRT | Stroke | Improved with intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (combined HRT started later than 5 years after menopause) | No HRT | Stroke | Improved with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (oestrogen, intravaginal) | No HRT | Stroke | Improved with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (transdermal) | No HRT | Stroke | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (combined, continuous) | Placebo | Stroke | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (oestrogen only) | Placebo | Stroke | Worse with intervention |

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|----------------------------|----|--------|---------|----|------------------------------------|--|---------|--------------------------|----------------------------|
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Stroke | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Stroke | Worse with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (current use) | No HRT | Stroke | Worse with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (continuous oestrogen plus progestogen) | No HRT | Stroke | Worse with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (cyclic oestrogen plus progestogen) | No HRT | Stroke | Worse with intervention |
| Lokkegaard et al. (2017) | 65 | Cohort | 980,003 | - | Postmenopausal women | HRT (oestrogen only) | No HRT | Stroke | Worse with intervention |
| Chen et al. (2015) | 64 | Cohort | 1,284 | - | Postmenopausal women with diabetes | HRT (conjugated equine oestrogen) | No HRT | Stroke (ischaemic) | Improved with intervention |
| Chang et al. (2019) | 63 | Cohort | 4,982 | - | Postmenopausal women | HRT | No HRT | Stroke (ischaemic) | Worse with intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (conjugated equine oestrogen started later than 5 years after menopause) | No HRT | Stroke, haemorrhagic | Improved with intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (started within 5 years of menopause) | No HRT | Stroke, haemorrhagic | No effect of intervention |
| Carrasquilla et al. (2017) | 62 | Cohort | 88,914 | - | Postmenopausal women | HRT (combined HRT started later than 5 years after menopause) | No HRT | Stroke, haemorrhagic | No effect of intervention |
| Qureshi et al. (2016) | 66 | Cohort | 93,676 | - | Postmenopausal women | HRT (oestrogen only, current use) | No HRT | Subarachnoid haemorrhage | No effect of intervention |
| Qureshi et al. (2016) | 66 | Cohort | 93,676 | - | Postmenopausal women | HRT (oestrogen plus progestogen, current use) | No HRT | Subarachnoid haemorrhage | No effect of intervention |

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|-----------------------|----|--------|--------|---|----------------------|-------------------|--------|--------------------------|-------------------------|
| Qureshi et al. (2016) | 66 | Cohort | 93,676 | - | Postmenopausal women | HRT (current use) | No HRT | Subarachnoid haemorrhage | Worse with intervention |
|-----------------------|----|--------|--------|---|----------------------|-------------------|--------|--------------------------|-------------------------|

Table 13 Venous thromboembolism

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|----------------------------|----------------|------------|-------------|-------------------|--|----------------------------------|----------------|------------------------|---------------------------|
| Formoso et al. (2016) | 10 | SR-C | 4529 | 4 | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Venous thromboembolism | No effect of intervention |
| Formoso et al. (2016) | 10 | SR-C | 9,176 | - | Women with menopausal symptoms | HRT (tibolone) | Placebo | Venous thromboembolism | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (combined, continuous) | Placebo | Venous thromboembolism | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women with cardiovascular disease | HRT (combined, continuous) | Placebo | Venous thromboembolism | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (oestrogen only) | Placebo | Venous thromboembolism | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (oestrogen only) | Placebo | Venous thromboembolism | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Venous thromboembolism | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Venous thromboembolism | Worse with intervention |
| Chang et al. (2019) | 63 | Cohort | 4,982 | - | Postmenopausal women | HRT | No HRT | Venous thromboembolism | Worse with intervention |

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|-------------------|----|--------|---------|---|----------------------|-----|--------|------------------------|-------------------------|
| Lee et al. (2015) | 70 | Cohort | 924,557 | - | Postmenopausal women | HRT | No HRT | Venous thromboembolism | Worse with intervention |
|-------------------|----|--------|---------|---|----------------------|-----|--------|------------------------|-------------------------|

Table 14 Diabetes

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|--------------------------|----------------|------------|-------------|-------------------|----------------------|----------------------------------|------------|----------|----------------------------|
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Diabetes | Improved with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Diabetes | Improved with intervention |

Table 15 Other cardiovascular outcomes

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|--------------------------|----------------|------------|-------------|-------------------|--|--|---|--------------------------------|----------------------------|
| Chang et al. (2019) | 63 | Cohort | 4,982 | - | Postmenopausal women | HRT | No HRT | Acute coronary syndrome | Worse with intervention |
| Dinger, J; et al. (2016) | 72 | Cohort | 30,597 | - | Postmenopausal women | HRT (oestrogen plus progestogen, drospirenone) | HRT (oestrogen plus non-drospirenone progestogen) | Arterial thromboembolic events | Improved with intervention |
| Paoletti et al. (2016) | 8 | RCT | 101 | - | Postmenopausal women with vasomotor symptoms | HRT (oestrogen plus progestogen) | Placebo | Blood pressure | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 8,401 | 4 | Women with menopausal symptoms | HRT (tibolone) | Placebo | Cardiovascular events | No effect of intervention |

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|----------------------------|----|--------|--------|---|--|---|-----------------------|--------------------------|---------------------------|
| Formoso et al. (2016) | 10 | SR-C | 3,794 | 2 | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Cardiovascular events | No effect of intervention |
| Huang et al. (2018) | 71 | RCT | 2,763 | - | Postmenopausal women with congestive heart disease who did not have hot flushes at baseline | HRT (conjugated equine oestrogens plus progestogen) | Placebo | Cardiovascular events | No effect of intervention |
| Huang et al. (2018) | 71 | RCT | 2,763 | - | Postmenopausal women with congestive heart disease who had hot flushes at baseline | HRT (conjugated equine oestrogens plus progestogen) | Placebo | Cardiovascular events | Worse with intervention |
| Simon et al. (2016) | 29 | Cohort | - | - | Women with menopausal symptoms | HRT (oestrogen, transdermal) | HRT (oestrogen, oral) | Cardiovascular events | No effect of intervention |
| Formoso et al. (2016) | 10 | SR-C | 7,930 | 4 | Women with menopausal symptoms | HRT (tibolone) | Placebo | Cerebrovascular events | No effect of intervention |
| Formoso et al. (2016) | 10 | SR-C | 4,562 | 4 | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Cerebrovascular events | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (oestrogen only) | Placebo | Coronary event | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (combined, continuous) | Placebo | Coronary event | Worse with intervention |
| Swica et al. (2018) | 73 | RCT | 27,347 | - | Postmenopausal women without history of hysterectomy who did not have hypertension at baseline | HRT (conjugated equine oestrogens plus progestogen) | Placebo | Hypertension (diagnosis) | Worse with intervention |
| Swica et al. (2018) | 73 | RCT | 27,347 | - | Postmenopausal women with history of hysterectomy who did not have hypertension at baseline | HRT (conjugated equine oestrogens) | Placebo | Hypertension (diagnosis) | Worse with intervention |

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|--------------------------------|----|--------|---------|---|------------------------|---|-------------------|------------------------------|----------------------------|
| Ki et al. (2016) | 74 | Cohort | 2,232 | - | Postmenopausal women | HRT | No HRT | Low-density lipoprotein | Improved with intervention |
| Mikkola, Tomi S; et al. (2015) | 67 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped up to a year ago) | HRT (current use) | Mortality, cardiac | Worse with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started 3 or more years ago) | No HRT | Mortality, cardiovascular | Improved with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after hysterectomy or oophorectomy, in past 3 years) | No HRT | Mortality, cardiovascular | Improved with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after hysterectomy or oophorectomy, more than 3 years ago) | No HRT | Mortality, cardiovascular | Improved with intervention |
| Holm et al. (2019) | 76 | Cohort | 29,243 | - | Women aged 50–64 years | HRT (after 5 years of follow-up) | No HRT | Mortality, cardiovascular | Improved with intervention |
| Mikkola et al. (2015) | 67 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped more than a year ago) | No HRT | Mortality, cardiovascular | Improved with intervention |
| Manson et al. (2017) | 77 | RCT | 27,347 | - | Postmenopausal women | HRT (conjugated equine oestrogen alone or with progestogen) | Placebo | Mortality, cardiovascular | No effect of intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started in past 3 years) | No HRT | Mortality, cardiovascular | No effect of intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after natural menopause) | No HRT | Mortality, cardiovascular | No effect of intervention |
| Mikkola et al. (2015) | 67 | Cohort | 332 202 | - | Postmenopausal women | HRT (stopped up to a year ago) | No HRT | Mortality, cardiovascular | Worse with intervention |
| Ki et al. (2016) | 74 | Cohort | 2,232 | - | Postmenopausal women | HRT | No HRT | Non-high-density lipoprotein | Improved with intervention |

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|------------------|----|--------|-------|---|----------------------|-----|--------|---|----------------------------|
| Ki et al. (2016) | 74 | Cohort | 2,232 | - | Postmenopausal women | HRT | No HRT | Total cholesterol to high-density lipoprotein ratio | Improved with intervention |
| Ki et al. (2016) | 74 | Cohort | 2,232 | - | Postmenopausal women | HRT | No HRT | Triglycerides | Improved with intervention |

Table 16 Long-term HRT breast cancer outcomes

| Reference | | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|----------------------------|----|------------|-------------|-------------------|-------------------|--|----------------------------------|----------------|---------------------------|----------------------------|
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | 84 | Postmenopausal women | HRT (oestrogen only) | Placebo | Cancer, breast | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 5,500 | 4 | - | Women with menopausal symptoms and no history of breast cancer | HRT (tibolone) | Placebo | Cancer, breast | No effect of intervention |
| Formoso et al. (2016) | 10 | SR-C | 4,835 | 5 | - | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Cancer, breast | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | 67 | Postmenopausal women | HRT (combined, continuous) | Placebo | Cancer, breast | Worse with intervention |
| Formoso et al. (2016) | 10 | SR-C | 3,165 | 2 | - | Women with menopausal symptoms and a history of breast cancer | HRT (tibolone) | Placebo | Cancer, breast | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | - | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Cancer, breast (invasive) | Worse with intervention |
| Chlebowski et al. (2016) | 87 | RCT | 27,344 | - | - | Postmenopausal women | HRT (oestrogen only) | No HRT | Cancer, breast | Improved with intervention |
| Chlebowski et al. (2017) | 87 | RCT | 1,616 | - | 86 | Postmenopausal women with more than 80% African ancestry who have had hysterectomy | HRT | Placebo | Cancer, breast | Improved with intervention |

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|----------------------------------|----|--------|-----------|---|----|----------------------|--|------------|---------------------------|----------------------------|
| Chlebowski et al. (2016) | 87 | RCT | 27,344 | - | - | Postmenopausal women | HRT (oestrogen plus progestogen) | No HRT | Cancer, breast | Worse with intervention |
| Liu et al. (2016) | 81 | Cohort | 22,929 | - | - | Postmenopausal women | HRT (4-year duration) | No HRT | Cancer, breast | Improved with intervention |
| Liu et al. (2016) | 81 | Cohort | 22,929 | - | - | Postmenopausal women | HRT (8-year duration) | No HRT | Cancer, breast | Improved with intervention |
| Suhrke and Zahl (2015) | 85 | Cohort | 449,717 | - | 60 | Postmenopausal women | HRT (oestrogen only, at least 1-year duration) | No HRT | Cancer, breast | No effect of intervention |
| Ettinger et al. (2019) | 79 | Cohort | 455 | - | - | Postmenopausal women | HRT (long-term use) | No HRT use | Cancer, breast | No effect of intervention |
| Jones et al. (2016) | 86 | Cohort | 58,148 | - | 65 | Postmenopausal women | HRT (oestrogen only) | No HRT | Cancer, breast | No effect of intervention |
| Suhrke and Zahl (2015) | 85 | Cohort | 449,717 | - | 60 | Postmenopausal women | HRT (oestrogen plus progestogen, at least 1-year duration) | No HRT | Cancer, breast | Worse with intervention |
| Suhrke and Zahl (2015) | 85 | Cohort | 449,717 | - | 60 | Postmenopausal women | HRT (tibolone, at least 1-year duration) | No HRT | Cancer, breast | Worse with intervention |
| Brusselsaers et al. (2018) | 78 | Cohort | 1,160,351 | - | - | Postmenopausal women | HRT (oestrogen only, current use) | No HRT | Cancer, breast | Worse with intervention |
| Brusselsaers et al. (2018) | 78 | Cohort | 1,160,351 | - | - | Postmenopausal women | HRT (oestrogen plus progestogen, current use) | No HRT | Cancer, breast | Worse with intervention |
| Ettinger et al. (2018) | 79 | Cohort | 454 | - | - | Postmenopausal women | HRT (long-term use) | No HRT use | Cancer, breast | Worse with intervention |
| Jones et al. (2016) | 86 | Cohort | 58,148 | - | 65 | Postmenopausal women | HRT (oestrogen plus progestogen, current use) | No HRT | Cancer, breast | Worse with intervention |
| Holm et al. (2018) | 80 | Cohort | 29,152 | - | - | Postmenopausal women | HRT | No HRT | Cancer, breast | Worse with intervention |
| Siegelmann-Danieli et al. (2018) | 83 | Cohort | 40,678 | - | - | Perimenopausal women | HRT (progestogen, intrauterine) | Control | Cancer, breast (invasive) | Worse with intervention |

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|---------------------|----|--------|---------|---|---|---|--|---|--|----------------------------|
| Obi et al. (2016) | 82 | Cohort | 3,321 | - | - | Postmenopausal women diagnosed with breast cancer | HRT (current use at breast cancer diagnosis) | No current HRT use at time of breast cancer diagnosis | Cancer, breast (mortality) | Improved with intervention |
| Obi et al. (2016) | 82 | Cohort | 3,321 | - | - | Postmenopausal women diagnosed with breast cancer (low grade) | HRT (current use at breast cancer diagnosis) | No current HRT use at time of breast cancer diagnosis | Cancer, breast (mortality) | Improved with intervention |
| Holm et al. (2019) | 76 | Cohort | 29,243 | - | - | Women aged 50–64 years | HRT (after 15 years of follow-up) | No HRT | Cancer, breast (mortality) | Worse with intervention |
| Obi et al. (2016) | 82 | Cohort | 3,321 | - | - | Postmenopausal women diagnosed with breast cancer | HRT (current use at breast cancer diagnosis) | No current HRT use at time of breast cancer diagnosis | Cancer, breast (recurrence) | Improved with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | - | - | Women aged 40 years or older | HRT | No HRT | Cancer, breast, endometrial or ovarian | Worse with intervention |

Table 17 Long-term HRT other cancer outcomes

| Reference | Text reference | Study type | Sample size | Number of studies | Duration (months) | Population | Intervention | Comparator | Outcome | Result |
|----------------------|----------------|------------|-------------|-------------------|-------------------|---|----------------|------------|---|----------------------------|
| Blanks et al. (2015) | 88 | Cohort | 899,166 | - | - | Postmenopausal women | HRT (ever use) | No HRT | Cancer, adenoma (detected by bowel cancer screen) | Improved with intervention |
| Edey et al. (2018) | 102 | SR-C | 1,236 | 1 | 36 | Women who previously had endometrial cancer | HRT | Placebo | Cancer, any | No effect of intervention |
| Holm et al. (2018) | 80 | Cohort | 29,152 | - | - | Postmenopausal women | HRT | No HRT | Cancer, any | Worse with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | - | - | Women aged 40 years or older | HRT | No HRT | Cancer, any | Worse with intervention |

| | | | | | | | | | | |
|----------------------------------|----|--------|-----------|----|-------|------------------------------|---|----------------|-------------------------|----------------------------|
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT (oestrogen only) | No HRT | Cancer, any | Worse with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT (oestrogen plus progestogen) | No HRT | Cancer, any | Worse with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 70 years or older | HRT (oestrogen plus progestogen) | No HRT | Cancer, any | Worse with intervention |
| Manson et al. (2017) | 77 | RCT | 27,347 | – | 67–86 | Postmenopausal women | HRT (conjugated equine oestrogen alone or with progestogen) | Placebo | Cancer, any (mortality) | Worse with intervention |
| Morch et al. (2016) | 96 | Cohort | 1,006,219 | – | – | Menopausal women | HRT (oestrogen only) | No HRT | Cancer, colon | Improved with intervention |
| Morch et al. (2016) | 96 | Cohort | 1,006,219 | – | – | Menopausal women | HRT (oestrogen plus progestogen) | No HRT | Cancer, colon | Improved with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT | No HRT | Cancer, colon | Improved with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | – | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Cancer, colorectal | Improved with intervention |
| Blanks et al. (2015) | 88 | Cohort | 899,166 | – | – | Postmenopausal women | HRT (ever use) | No HRT | Cancer, colorectal | Improved with intervention |
| Botteri, Edoardo; et al. (2017b) | 90 | Cohort | 466,822 | – | – | Postmenopausal women | HRT (current use) | HRT (past use) | Cancer, colorectal | Improved with intervention |
| Holm et al. (2018) | 80 | Cohort | 29,152 | – | – | Postmenopausal women | HRT | No HRT | Cancer, colorectal | Improved with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | – | – | – | Postmenopausal women | HRT | Placebo | Cancer, colorectal | No effect of intervention |
| Botteri et al. (2017b) | 90 | Cohort | 466,822 | – | – | Postmenopausal women | HRT (oestrogen only, current use) | No HRT | Cancer, colorectal | No effect of intervention |

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|----------------------------------|-----|--------|-----------|---|----|--------------------------------|--|----------------|---------------------------------|----------------------------|
| Botteri et al. (2017b) | 90 | Cohort | 466,822 | – | – | Postmenopausal women | HRT (oestrogen plus progestogen, current use) | No HRT | Cancer, colorectal | No effect of intervention |
| Botteri, Edoardo; et al. (2017b) | 90 | Cohort | 466,822 | – | – | Postmenopausal women | HRT (current use) | HRT (past use) | Cancer, colorectal (metastatic) | Improved with intervention |
| Holm et al. (2019) | 76 | Cohort | 29,243 | – | – | Women aged 50–64 years | HRT (after 15 years of follow-up) | No HRT | Cancer, colorectal (mortality) | Improved with intervention |
| Chlebowski et al. (2016) | 102 | RCT | 16,608 | – | 67 | Postmenopausal women | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Cancer, endometrial | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 8,504 | 9 | – | Women with menopausal symptoms | HRT (tibolone) | Placebo | Cancer, endometrial | No effect of intervention |
| Formoso et al. (2016) | 10 | SR-C | 3,689 | 5 | – | Women with menopausal symptoms | HRT (tibolone) | HRT (combined) | Cancer, endometrial | No effect of intervention |
| Holm et al. (2018) | 80 | Cohort | 29,152 | – | – | Postmenopausal women | HRT | No HRT | Cancer, endometrial | Worse with intervention |
| Lokkegaard and Morch (2018) | 98 | Cohort | 900,000 | – | – | Postmenopausal women | HRT (tibolone) | No HRT | Cancer, endometrial | Worse with intervention |
| Chlebowski et al. (2016) | 102 | RCT | 16,608 | – | 67 | Postmenopausal women | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Cancer, endometrial (mortality) | No effect of intervention |
| Kilander et al. (2019) | 97 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT | No HRT use | Cancer, extra-hepatic bile duct | No effect of intervention |
| Kilander et al. (2019) | 97 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT | No HRT use | Cancer, gallbladder | Improved with intervention |
| Kilander et al. (2019) | 97 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT | No HRT use | Cancer, gallbladder | No effect of intervention |
| Brusselsaers et al. (2017) | 94 | Cohort | 1,160,352 | – | – | Postmenopausal women | HRT (ever use) | No HRT | Cancer, gastric adenocarcinoma | Improved with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT | No HRT | Cancer, gastrointestinal cancer | Improved with intervention |

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|----------------------------|-----|--------|---------|---|-------|------------------------------|---|--|--------------------------------|----------------------------|
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT | No HRT | Cancer, liver | Improved with intervention |
| Chlebowski et al. (2016) | 99 | RCT | 16,608 | – | 168 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Cancer, lung | No effect of intervention |
| Chlebowski et al. (2016) | 99 | RCT | 16,608 | – | 168 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Cancer, lung (mortality) | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | – | – | 12–48 | Postmenopausal women | HRT (combined, continuous) | Placebo | Cancer, lung (mortality) | Worse with intervention |
| Botteri et al. (2017a) | 89 | Cohort | 684,969 | – | 57 | Postmenopausal women | HRT (oestrogen plus progestogen) | no HRT | Cancer, melanoma | No effect of intervention |
| Botteri et al. (2017a) | 89 | Cohort | 684,969 | – | 57 | Postmenopausal women | HRT (oestrogen only) | No HRT | Cancer, melanoma | Worse with intervention |
| Botteri et al. (2017a) | 89 | Cohort | 684,969 | – | 57 | Postmenopausal women | HRT (oestrogen only, oral) | No HRT | Cancer, melanoma | Worse with intervention |
| Botteri et al. (2017a) | 89 | Cohort | 684,969 | – | 57 | Postmenopausal women | HRT (oestrogen only, intravaginal) | No HRT | Cancer, melanoma | Worse with intervention |
| Cervenka et al. (2019) | 95 | Cohort | 98,995 | – | – | Postmenopausal women | HRT (ever use) | No HRT use | Cancer, melanoma | Worse with intervention |
| Cervenka et al. (2019) | 95 | Cohort | 98,995 | – | – | Postmenopausal women | HRT (past use) | No HRT use | Cancer, melanoma | Worse with intervention |
| Cervenka I.; et al. (2019) | 95 | Cohort | 98,995 | – | – | Postmenopausal women | HRT (starting within 6 months of menopause) | HRT (starting 2 or more years after menopause) | Cancer, melanoma | Worse with intervention |
| Kato et al. (2016) | 101 | RCT | 16,654 | – | 67 | Postmenopausal women | HRT (conjugated equine oestrogen) | Placebo | Cancer, non-Hodgkin's lymphoma | No effect of intervention |
| Kato et al. (2016) | 101 | RCT | 16,654 | – | 67 | Postmenopausal women | HRT (conjugated equine oestrogen alone or with progestogen) | Placebo | Cancer, non-Hodgkin's lymphoma | No effect of intervention |

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|--|-----|--------|-----------|---|----|--|--|---------|--|----------------------------|
| Kato et al. (2016) | 101 | RCT | 16,654 | – | 67 | Postmenopausal women | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Cancer, non-Hodgkin's lymphoma | No effect of intervention |
| Brusselsaers et al. (2017) | 94 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT (ever use) | No HRT | Cancer, oesophageal | Improved with intervention |
| Simin et al. (2017) | 84 | Cohort | 290,186 | – | – | Women aged 40 years or older | HRT | No HRT | Cancer, oesophageal | Improved with intervention |
| Brusselsaers et al. (2017) | 94 | Cohort | 1,160,354 | – | – | Postmenopausal women younger than 60 years | HRT (ever use) | No HRT | Cancer, oesophageal (adenocarcinoma) | Improved with intervention |
| Brusselsaers et al. (2017) | 94 | Cohort | 1,160,353 | – | – | Postmenopausal women | HRT (ever use) | No HRT | Cancer, oesophageal (squamous cell) | Improved with intervention |
| Collaborative Group On Epidemiological Studies Of Ovarian Cancer et al. (2015) | 96 | Cohort | 12,110 | – | – | Postmenopausal women | HRT (current use but less than 5-year duration) | No HRT | Cancer, ovarian | Worse with intervention |
| Holm et al. (2018) | 80 | Cohort | 29,152 | – | – | Postmenopausal women | HRT | No HRT | Cancer, ovarian | Worse with intervention |
| Lokkegaard and Mørch (2018) | 98 | Cohort | 900,000 | – | – | Postmenopausal women | HRT (tibolone) | No HRT | Cancer, ovarian | Worse with intervention |
| Lokkegaard and Mørch (2018) | 98 | Cohort | 900,000 | – | – | Postmenopausal women | HRT (tibolone) | No HRT | Cancer, ovarian (serous) | Worse with intervention |
| Collaborative Group On Epidemiological Studies Of Ovarian Cancer et al. (2015) | 96 | Cohort | 12,110 | – | – | Postmenopausal women | HRT (current use but less than 5-year duration) | No HRT | Cancer, ovarian (endometrioid) | Worse with intervention |
| Collaborative Group On Epidemiological Studies Of Ovarian Cancer et al. (2015) | 96 | Cohort | 12,110 | – | – | Postmenopausal women | HRT (current use but less than 5-year duration) | No HRT | Cancer, ovarian (serous or endometrioid) | Worse with intervention |
| Collaborative Group On Epidemiological Studies Of Ovarian Cancer et al. (2015) | 96 | Cohort | 12,110 | – | – | Postmenopausal women | HRT (current use but less than 5-year duration) | No HRT | Cancer, ovarian (serous) | Worse with intervention |

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|--------------------------|-----|--------|-----------|---|----|---|----------------------------------|------------------------|---|----------------------------|
| Eeles et al. (2015) | 100 | RCT | 150 | – | 60 | Women with epithelial ovarian cancer | HRT | No HRT | Cancer, ovarian, (recurrence-free survival) | Improved with intervention |
| Eeles et al. (2015) | 100 | RCT | 150 | – | 60 | Women with epithelial ovarian cancer | HRT | No HRT | Cancer, ovarian, (survival) | Improved with intervention |
| Sadr-Azodi et al. (2017) | 89 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT (ever use) | No HRT | Cancer, pancreatic | Improved with intervention |
| Sadr-Azodi et al. (2017) | 89 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT (1–2 year duration) | No HRT | Cancer, pancreatic | Improved with intervention |
| Sadr-Azodi et al. (2017) | 89 | Cohort | 1,160,351 | – | – | Postmenopausal women | HRT (more than 3-year duration) | No HRT | Cancer, pancreatic | Improved with intervention |
| Morch et al. (2016) | 88 | Cohort | 1,006,219 | – | – | Menopausal women | HRT (oestrogen only) | No HRT | Cancer, rectal | Improved with intervention |
| Morch et al. (2016) | 88 | Cohort | 1,006,219 | – | – | Menopausal women | HRT (oestrogen plus progestogen) | No HRT | Cancer, rectal | Improved with intervention |
| Zamora-Ros et al. (2015) | 90 | Cohort | 345,157 | – | – | Postmenopausal women who had natural menopause (not surgical) | HRT (use at baseline) | No HRT use at baseline | Cancer, thyroid | No effect of intervention |
| Zamora-Ros et al. (2015) | 90 | Cohort | 345,157 | – | – | Postmenopausal women | HRT (use at baseline) | No HRT use at baseline | Cancer, thyroid | Worse with intervention |

Table 18 Osteoporosis

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|----------------------------|----------------|------------|-------------|-------------------|----------------------|----------------------------|------------|----------------------|----------------------------|
| Kuh et al. (2016) | 104 | Cohort | 848 | – | Postmenopausal women | HRT | No HRT | Bone mineral density | Improved with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | – | – | Postmenopausal women | HRT (combined, continuous) | Placebo | Fracture | Improved with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | – | – | Postmenopausal women | HRT (oestrogen only) | Placebo | Fracture | Improved with intervention |

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|----------------------------|-----|--------|--------|----|--------------------------------|-----------------------------------|---------|---------------------|----------------------------|
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Fracture | Improved with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Fracture | Improved with intervention |
| Watts et al. (2017) | 106 | RCT | 15,187 | – | Women with hysterectomy | HRT (conjugated equine oestrogen) | Placebo | Fracture | Improved with intervention |
| Watts et al. (2017) | 106 | RCT | 15,187 | – | Women with menopausal symptoms | HRT (oestrogen plus progestogen) | Placebo | Fracture | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | – | – | Postmenopausal women | HRT (oestrogen only) | Placebo | Fracture (clinical) | Improved with intervention |
| Saarelainen et al. (2016) | 105 | Cohort | 5,119 | – | Postmenopausal women | HRT (10 year duration) | No HRT | Fracture, wrist | Improved with intervention |
| Saarelainen et al. (2016) | 105 | Cohort | 5,119 | – | Postmenopausal women | HRT (15 year duration) | No HRT | Fracture, wrist | Improved with intervention |

Table 19 Dementia

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|------------------------|----------------|------------|-------------|-------------------|---|---|------------|---------------------|----------------------------|
| Imtiaz et al. (2017) | 107 | Cohort | 8,195 | – | Postmenopausal women | HRT (long-term use) | No HRT | Alzheimer's disease | Improved with intervention |
| Imtiaz et al. (2017) | 107 | Cohort | 8,195 | – | Postmenopausal women | HRT | No HRT | Alzheimer's disease | No effect of intervention |
| Espeland et al. (2017) | 108 | RCT | 4,256 | – | Women with menopausal symptoms aged 50–54 years | HRT (conjugated equine oestrogens, plus progestogen for women without hysterectomy) | Placebo | Cognitive function | No effect of intervention |
| Espeland et al. (2017) | 108 | RCT | 4,256 | – | Women with menopausal symptoms aged 65–79 years | HRT (conjugated equine oestrogens, plus progestogen for women without hysterectomy) | Placebo | Cognitive function | Worse with intervention |

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|----------------------------|-----|------|--------|----|---|---|---------|---------------------|---------------------------|
| Gleason et al. (2015) | 20 | RCT | 693 | - | Postmenopausal women | HRT (conjugated equine oestrogen, oral, plus progestogen) | Placebo | Cognitive outcomes | No effect of intervention |
| Gleason et al. (2015) | 20 | RCT | 693 | - | Postmenopausal women | HRT (oestrogen, transdermal) | Placebo | Cognitive outcomes | No effect of intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (combined, continuous) | Placebo | Dementia | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Dementia (probable) | Worse with intervention |
| Espeland et al. (2017) | 108 | RCT | 4,256 | - | Women with menopausal symptoms aged 65-79 years | HRT (conjugated equine oestrogens, plus progestogen for women without hysterectomy) | Placebo | Executive function | Worse with intervention |
| Henderson et al. (2016) | 110 | RCT | 567 | - | Postmenopausal women | HRT (oestrogen, oral, plus progestogen in women without hysterectomy) | Placebo | Memory, verbal | No effect of intervention |
| Espeland et al. (2017) | 108 | RCT | 4,256 | - | Women with menopausal symptoms aged 65-79 years | HRT (conjugated equine oestrogens, plus progestogen for women without hysterectomy) | Placebo | Memory, working | Worse with intervention |
| Espeland et al. (2015) | 109 | RCT | 1,402 | - | Postmenopausal women without diabetes | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Total brain volume | No effect of intervention |
| Espeland et al. (2015) | 109 | RCT | 1,402 | - | Postmenopausal women with diabetes | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Total brain volume | Worse with intervention |

Table 20 Mortality

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|-----------------------------|----------------|------------|-------------|-------------------|--------------------------------|---|------------|-----------|----------------------------|
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started 3 or more years ago) | No HRT | Mortality | Improved with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started in past 3 years) | No HRT | Mortality | Improved with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after hysterectomy or oophorectomy, in past 3 years) | No HRT | Mortality | Improved with intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after hysterectomy or oophorectomy, more than 3 years ago) | No HRT | Mortality | Improved with intervention |
| Paganini-Hill et al. (2018) | 111 | Cohort | 8,801 | - | Postmenopausal women | HRT | No HRT use | Mortality | Improved with intervention |
| Formoso et al. (2016) | 10 | SR-C | 8,242 | 4 | Women with menopausal symptoms | HRT (tibolone) | Placebo | Mortality | No effect of intervention |
| Manson et al. (2017) | 77 | RCT | 27,347 | - | Postmenopausal women | HRT (conjugated equine oestrogen alone or with progestogen) | Placebo | Mortality | No effect of intervention |
| Manson et al. (2017) | 77 | RCT | 27,347 | - | Postmenopausal women | HRT (conjugated equine oestrogen) | Placebo | Mortality | No effect of intervention |
| Manson et al. (2017) | 77 | RCT | 27,347 | - | Postmenopausal women | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Mortality | No effect of intervention |
| Chen et al. (2017) | 75 | Cohort | 13,715 | - | Postmenopausal women | HRT (started after natural menopause) | No HRT | Mortality | No effect of intervention |

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|--------------------|----|--------|--------|---|---|--|---|---------------------------------------|----------------------------|
| Holm et al. (2019) | 76 | Cohort | 29,243 | - | Women aged 50–64 years | HRT | No HRT | Mortality | No effect of intervention |
| Obi et al. (2016) | 82 | Cohort | 3,321 | - | Postmenopausal women diagnosed with breast cancer | HRT (current use at breast cancer diagnosis) | No current HRT use at time of breast cancer diagnosis | Mortality (all cause) | Improved with intervention |
| Obi et al. (2016) | 82 | Cohort | 3,321 | - | Postmenopausal women diagnosed with breast cancer | HRT (current use at breast cancer diagnosis) | No current HRT use at time of breast cancer diagnosis | Mortality (not breast cancer related) | Improved with intervention |

Table 21 Other long-term risks associated with HRT

| Reference | Text reference | Study type | Sample size | Number of studies | Population | Intervention | Comparator | Outcome | Result |
|----------------------------|----------------|------------|-------------|-------------------|--|---|------------|------------------------|----------------------------|
| Kattah et al. (2018) | 119 | SR | - | 12 | Postmenopausal women | HRT | No HRT | Albuminuria | Improved with intervention |
| Kattah et al. (2018) | 119 | Cohort | 2,217 | - | Postmenopausal women | HRT | No HRT | Albuminuria | Improved with intervention |
| Gleason et al. (2015) | 20 | RCT | 693 | - | Postmenopausal women | HRT (conjugated equine oestrogen, oral, plus progestogen) | Placebo | Anxiety | Improved with intervention |
| Al-Rousan et al. (2018) | 117 | Cohort | 16,053 | - | Postmenopausal women with hysterectomy | HRT (conjugated equine oestrogen) | Placebo | Carpal tunnel syndrome | Improved with intervention |
| Al-Rousan et al. (2018) | 117 | Cohort | 16,053 | - | Postmenopausal women without hysterectomy | HRT (conjugated equine oestrogen plus progestogen) | Placebo | Carpal tunnel syndrome | Improved with intervention |
| Staller et al. (2017) | 116 | Cohort | 55,828 | - | Postmenopausal women | HRT (past use) | No HRT | Faecal incontinence | Worse with intervention |
| Staller et al. (2017) | 116 | Cohort | 55,828 | - | Postmenopausal women | HRT (current use) | No HRT | Faecal incontinence | Worse with intervention |
| Sommer et al. (2015) | 115 | Cohort | 610,604 | - | Postmenopausal women (without hysterectomy or history of fibroids) | HRT | No HRT | Fibroids | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (combined, continuous) | Placebo | Gallbladder disease | Worse with intervention |
| Marjoribanks et al. (2017) | 68 | SR-C | - | - | Postmenopausal women | HRT (oestrogen only) | Placebo | Gallbladder disease | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Gallbladder disease | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Gallbladder disease | Worse with intervention |
| Kilander et al. (2019) | 97 | Cohort | 1,160,351 | - | Postmenopausal women | HRT | No HRT use | Gallstone disease | Worse with intervention |

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|------------------------------------|-----|--------|--------|---|--|--|---|---|----------------------------|
| Crandall, Carolyn J; et al. (2017) | 122 | Cohort | 45,112 | - | Postmenopausal women | HRT (conjugated equine oestrogen, less than 0.625 mg/day, plus progestogen) | HRT (conjugated equine oestrogen, 0.625 mg/day, plus progestogen) | Global index event (coronary heart disease, breast cancer, stroke, pulmonary embolism, hip fracture, colorectal cancer, endometrial cancer, or death) | Improved with intervention |
| Crandall, Carolyn J; et al. (2017) | 122 | Cohort | 45,112 | - | Postmenopausal women | HRT (conjugated equine oestrogen, 0.625 mg/day, plus progestogen for at least 5 years) | HRT (conjugated equine oestrogen, 0.625 mg/day, plus progestogen for less than 5 years) | Global index event (coronary heart disease, breast cancer, stroke, pulmonary embolism, hip fracture, colorectal cancer, endometrial cancer, or death) | Worse with intervention |
| Curhan et al. (2017) | 114 | Cohort | 80,972 | - | Postmenopausal women | HRT (5 to 10 year duration of oestrogen-only or oestrogen plus progestogen) | No HRT | Hearing loss | Worse with intervention |
| Curhan et al. (2018) | 114 | Cohort | 80,973 | - | Postmenopausal women | HRT (more than 10 year duration of oestrogen-only or oestrogen plus progestogen) | No HRT | Hearing loss | Worse with intervention |
| Vajaranant et al. (2016) | 121 | RCT | 1,668 | - | Postmenopausal women | HRT (conjugated equine oestrogen in women with hysterectomy) | Placebo | Intraocular pressure | Improved with intervention |
| Vajaranant et al. (2016) | 121 | RCT | 2,679 | - | Postmenopausal women | HRT (oestrogen plus progestogen in women without hysterectomy) | Placebo | Intraocular pressure | No effect of intervention |
| Chlebowski et al. (2018) | 113 | RCT | 10,739 | - | Postmenopausal women with hysterectomy | HRT (conjugated equine oestrogens) | Placebo | Joint pain (frequency) | Improved with intervention |
| Chlebowski et al. (2018) | 113 | RCT | 10,739 | - | Postmenopausal women with hysterectomy | HRT (conjugated equine oestrogens) | Placebo | Joint swelling (frequency) | Worse with intervention |

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|--------------------------|-----|--------|---------|----|----------------------|----------------------------------|------------------------------------|-------------------------------------|----------------------------|
| Triebner et al. (2019) | 120 | Cohort | 658 | - | Postmenopausal women | HRT (6–10 years of use) | No HRT | Lung function (FEV1) | Improved with intervention |
| Triebner et al. (2019) | 120 | Cohort | 658 | - | Postmenopausal women | HRT (more than 10 years of use) | No HRT | Lung function (FEV1) | Improved with intervention |
| Bengtsson et al. (2017) | 112 | Cohort | 237,130 | - | Postmenopausal women | HRT (use for 8 years or more) | No HRT or less than 8 years of HRT | Rheumatoid arthritis (seropositive) | Worse with intervention |
| Chen et al. (2019) | 118 | Cohort | 13,112 | - | Postmenopausal women | HRT | No HRT use | Sudden sensorineural hearing loss | No effect of intervention |
| Chen et al. (2018) | 118 | Cohort | 55,680 | - | Postmenopausal women | HRT | No HRT | Tinnitus | Improved with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen only) | Placebo | Urinary incontinence | Worse with intervention |
| Gartlehner et al. (2017) | 69 | SR | 40,058 | 18 | Postmenopausal women | HRT (oestrogen plus progestogen) | Placebo | Urinary incontinence | Worse with intervention |

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