

## Literature search strategies for review question: What is the effectiveness of pelvic floor muscle training (including Kegel exercises, biofeedback, weighted vaginal cones, and electrical stimulation) for improving symptoms of pelvic floor dysfunction?

### Clinical Search

#### Database(s): Medline & Embase (Multifile)

Last searched on **Embase Classic+Embase** 1947 to 2021 February 01, **Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily** 1946 to February 01, 2021

Date of last search: 2<sup>nd</sup> February 2021

*Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily*

| #  | Searches   |
|----|--|
| 1  | Pelvic Floor/ or Pelvic Floor Disorders/ or exp *Urinary Incontinence/ or *Urinary Bladder, Overactive/ or exp *Pelvic Organ Prolapse/ or *Rectocele/ or *Fecal Incontinence/ or Urinary Retention/ or Fecal Impaction/ or Vaginismus/   |
| 2  | 1 use ppez   |
| 3  | pelvis floor/ or pelvic floor disorder/ or exp *urine incontinence/ or *overactive bladder/ or *bladder instability/ or exp *pelvic organ prolapse/ or *rectocele/ or *feces incontinence/ or urine retention/ or defecation disorder/ or Feces Impaction/ or female sexual dysfunction/ or vaginism/  |
| 4  | 3 use emczd  |
| 5  | (pelvi\$ adj (floor\$ or diaphragm\$) adj3 (dysfunction\$ or disorder\$ or fail\$ or impair\$ or incompeten\$ or insufficien\$ or dyssynerg\$ or symptom\$ or laxity or change\$ or care\$ or health\$ or wellbeing\$ or well-being\$ or prevent\$ or rehabilitat\$ or weak\$ or hypertonic\$ or overactiv\$ or over activ\$ or over-activ\$)).tw. |
| 6  | (pelvi\$ adj (dysfunction\$ or disorder\$ or fail\$ or impair\$ or incompeten\$ or insufficien\$ or dyssynerg\$ or symptom\$ or laxity or care\$ or health\$ or wellbeing\$ or well-being\$ or prevent\$ or rehabilitat\$ or weak\$ or hypertonic\$ or overactiv\$ or over activ\$ or over-activ\$)).tw.   |
| 7  | ((stress\$ or mix\$ or urg\$ or urin\$) adj5 incontinen\$).ti.   |
| 8  | (bladder\$ adj5 (overactiv\$ or over activ\$ or over-activ\$ or instabilit\$ or hyper-reflex\$ or hyperreflex\$ or hyper reflex\$ or incontinen\$)).ti.  |
| 9  | (detrusor\$ adj5 (overactiv\$ or over activ\$ or over-activ\$ or instabilit\$ or hyper-reflex\$ or hyperreflex\$ or hyper reflex\$)).ti.   |
| 10 | ((urgency adj2 frequency) or (frequency adj2 urgency)).ti.   |
| 11 | ((urin\$ or bladder\$) adj2 (urg\$ or frequen\$)).ti.  |
| 12 | (SUI or OAB).ti.   |
| 13 | (pelvic\$ adj3 organ\$ adj3 prolaps\$).ti.   |
| 14 | (urinary adj3 bladder adj3 prolaps\$).ti.  |
| 15 | ((vagin\$ or urogenital\$ or genit\$ or uter\$ or viscer\$ or anterior\$ or posterior\$ or apical or pelvi\$ or vault\$ or urethr\$ or bladder\$ or cervi\$ or rectal or rectum) adj3 prolaps\$).ti.   |
| 16 | (splachnoptos\$ or visceroptos\$).ti.  |
| 17 | (hernia\$ adj3 (pelvi\$ or vagin\$ or urogenital\$ or uter\$ or bladder\$ or urethr\$ or viscer\$)).ti.  |
| 18 | (urethroc?ele\$ or enteroc?ele\$ or sigmoidoc?ele\$ or proctoc?ele\$ or rectoc?ele\$ or cystoc?ele\$ or rectoenteroc?ele\$ or cystourethroc?ele\$).ti.   |
| 19 | ((faecal or fecal or faeces or feces or fecally or faecally or anal or anally or stool or stools or bowel or double or defecat\$ or defaecat\$) adj5 (incontinence or incontinent or urge\$ or leak or leaking or leakage or soiling or seeping or seepage or impacted or impaction)).ti.  |
| 20 | (urin\$ adj3 (retention\$ or retain\$)).tw.  |
| 21 | (voiding adj (disorder\$ or dysfunction\$ or problem\$)).tw.   |
| 22 | (empty\$ adj disorder\$ adj3 (bowel\$ or bladder\$ or vesical\$ or stool\$)).tw.   |
| 23 | ((urogeni\$ or anorec\$ or ano-rec\$ or ano rec\$) adj3 dysfunction\$).tw.   |
| 24 | ((difficult\$ or delay\$ or irregular\$ or infrequen\$ or pain\$) adj3 (defecat\$ or defaecat\$ or stool\$ or faeces or feces or bowel movement\$)).tw.  |
| 25 | (obstruct\$ adj3 (defecat\$ or defaecat\$)).tw.  |
| 26 | ((defecat\$ or defaecat\$ or evacuat\$) adj3 (disorder\$ or dysfunction\$)).tw.  |
| 27 | outlet\$ dysfunction\$ constipa\$.tw.  |
| 28 | (dys?ynerg\$ adj (defecat\$ or defaecat\$)).tw.  |
| 29 | (pelvi\$ adj3 dyskines\$).tw.  |
| 30 | pelvi\$ outlet\$ obstruct\$.tw.  |
| 31 | anismus\$.tw.  |
| 32 | puborectal\$ contract\$.tw.  |

| #  | Searches  |
|----|---|
| 33 | ((rectal or rectum) adj3 urge\$.tw.   |
| 34 | (female adj sex\$ adj (dysfunct\$ or satisf\$ or problem\$ or symptom\$ or arouse\$ or activit\$ or disorder\$)).tw.  |
| 35 | (obstruct\$ adj3 intercourse).tw.   |
| 36 | (vagin\$ adj3 laxity\$.tw.  |
| 37 | (vagin\$ adj wind).tw.  |
| 38 | vaginismus\$.tw.  |
| 39 | (vagin\$ adj penetrat\$ adj disorder\$.tw.  |
| 40 | or/2,4-39   |
| 41 | exp Exercise Therapy/ or Physical Therapy Modalities/ or Electric Stimulation/ or *Electric Stimulation Therapy/ or Transcutaneous Electric Nerve Stimulation/ or *Magnetics/ or Magnetic Field Therapy/ or Biofeedback, Psychology/ or Resistance Training/  |
| 42 | 41 use ppez   |
| 43 | *physiotherapy/ or pelvic floor muscle training/ or kinesiotherapy/ or *muscle exercise/ or vaginal cone/ or vagina cone/ or weighted vaginal cone/ or electrostimulation/ or electrotherapy/ or transcutaneous nerve stimulation/ or magnetic stimulation/ or magnetotherapy/ or extracorporeal magnetic innervation therapy/ or feedback system/ or biofeedback/ or perineometry/ or resistance training/ |
| 44 | 43 use emczd  |
| 45 | ((((pelvi\$ adj (floor\$ or muscl\$)) or PFM\$) adj3 (training or exercise\$ or re-training or retraining or rehabilitat\$ or strengthen\$)).tw.  |
| 46 | (pelvi\$ adj floor\$ adj muscl\$ adj (physiotherap\$ or therap\$ or treatment)).tw.   |
| 47 | (pelvi\$ adj floor\$ adj (physiotherap\$ or physical therap\$)).tw.   |
| 48 | (PFMT or PFME or PFPT).tw.  |
| 49 | (kegel\$ or kegal\$ or knack\$.tw.  |
| 50 | (physiotherap\$ or physical therap\$.ti.  |
| 51 | physiotherapy-led.tw.   |
| 52 | (vagin\$ adj3 (cone or cones)).tw.  |
| 53 | (vagin\$ adj (ball or balls)).tw.   |
| 54 | (weight adj (cone or cones)).tw.  |
| 55 | (pelvi\$ adj floor\$ adj2 (cone or cones)).tw.  |
| 56 | ((cone or cones) adj5 (continen\$ or incontinen\$)).ti.   |
| 57 | (electr\$ adj3 stimulat\$.tw.   |
| 58 | (electrostimulat\$ or electro-stimulat\$.tw.  |
| 59 | ((transcutaneous\$ or percutaneous\$ or neuromusc\$ or posterior\$ or anterior\$ or tibia\$ or perine\$ or intravagin\$ or intra-vagin\$) adj4 stimulat\$.tw.   |
| 60 | ((magnet\$ or electro-magnet\$ or electromagnet\$) adj (stimulation\$ or therap\$ or treatment\$)).tw.  |
| 61 | ((magnet\$ or electro-magnet\$ or electromagnet\$) adj (nerve\$ or energ\$ or pelvi\$ floor or pelvi\$ muscl\$) adj (stimulation\$ or therap\$ or treatment\$)).tw.   |
| 62 | ((magnet\$ or electro-magnet\$ or electromagnet\$) adj innervation\$).tw.   |
| 63 | (interferential\$ adj3 (current or currents or therap\$ or treatment\$)).tw.  |
| 64 | hifem\$.tw.   |
| 65 | (biofeedback\$ or bio-feedback\$).mp.   |
| 66 | ((digital\$ or manual\$) adj3 (feedback\$ or palpat\$ or assess\$ or contract\$)).tw.   |
| 67 | (pressure\$ adj3 perin?ometr\$.tw.  |
| 68 | ((strength\$ or resistan\$) adj3 (training or exercise\$ or physiotherap\$)).tw.  |
| 69 | (manual adj3 therap\$.tw.   |
| 70 | (myofascia\$ adj3 (release\$ or therap\$ or technique\$)).tw.   |
| 71 | or/42,44-70   |
| 72 | 40 and 71   |
| 73 | limit 72 to english language  |
| 74 | limit 73 to yr="1980 -Current"  |
| 75 | (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.  |
| 76 | crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.   |
| 77 | meta-analysis/  |
| 78 | meta-analysis as topic/   |
| 79 | systematic review/  |
| 80 | meta-analysis/  |
| 81 | (meta analy* or metanaly* or metaanaly*).ti,ab.   |
| 82 | ((systematic or evidence) adj2 (review* or overview*)).ti,ab.   |
| 83 | ((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.   |
| 84 | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.  |
| 85 | (search strategy or search criteria or systematic search or study selection or data extraction).ab.   |
| 86 | (search* adj4 literature).ab.   |
| 87 | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.  |
| 88 | cochrane.jw.  |
| 89 | ((pool* or combined) adj2 (data or trials or studies or results)).ab.   |

| #   | Searches  |
|-----|---|
| 90  | 75 use ppez   |
| 91  | 76 use emczd  |
| 92  | 90 or 91  |
| 93  | (or/77-78,81,83-88) use ppez  |
| 94  | (or/79-82,84-89) use emczd  |
| 95  | 93 or 94  |
| 96  | 92 or 95  |
| 97  | letter/ or editorial/ or news/ or historical article/ or anecdotes as topic/ or comment/ or case reports/                 |
| 98  | 97 use ppez   |
| 99  | (conference abstract or letter).pt.   |
| 100 | (editorial or note).pt. or case report/ or case study/ or letter/   |
| 101 | (or/99-100) use emczd   |
| 102 | (letter or comment* or abstracts).ti.   |
| 103 | or/98,101-102   |
| 104 | randomized controlled trial/  |
| 105 | random*.ti,ab.  |
| 106 | or/104-105  |
| 107 | 103 not 106   |
| 108 | (animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ |
| 109 | 108 use ppez  |
| 110 | (animal/ not human/) or nonhuman/ or exp animal experiment/ or exp experimental animal/ or animal model/ or exp rodent/   |
| 111 | 110 use emczd   |
| 112 | (rat or rats or mouse or mice).ti.  |
| 113 | or/107,109,111-112  |
| 114 | 74 not 113  |
| 115 | 96 and 114  |

### Database(s): Cochrane Library

Last searched on **Cochrane Database of Systematic Reviews**, Issue 2 of 12, February 2021, **Cochrane Central Register of Controlled Trials**, Issue 2 of 12, February 2021

Date of last search: 2<sup>nd</sup> February 2021

| #   | Searches   |
|-----|--|
| #1  | MeSH descriptor: [Pelvic Floor] this term only   |
| #2  | MeSH descriptor: [Pelvic Floor Disorders] this term only   |
| #3  | ((pelvi* NEXT (floor* or diaphragm*) NEAR/3 (dysfunction* or disorder* or fail* or impair* or incompeten* or insufficien* or dyssynerg* or symptom* or laxity or change* or care* or health* or wellbeing* or well-being* or prevent* or rehabilitat* or weak* or hypertonic* or overactiv* or over activ* or over-activ*)):ti,ab,kw |
| #4  | ((pelvi* NEXT (dysfunction* or disorder* or fail* or impair* or incompeten* or insufficien* or dyssynerg* or symptom* or laxity or care* or health* or wellbeing* or well-being* or prevent* or rehabilitat* or weak* or hypertonic* or overactiv* or over activ* or over-activ*)):ti,ab,kw  |
| #5  | MeSH descriptor: [Urinary Incontinence] explode all trees  |
| #6  | MeSH descriptor: [Urinary Bladder, Overactive] this term only  |
| #7  | ((((stress* or mix* or urg* or urin*) NEAR/5 incontinen*)):ti  |
| #8  | ((((bladder* NEAR/5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex* or incontinen*)):ti   |
| #9  | ((((detrusor* NEAR/5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex*)):ti   |
| #10 | (((((urgency NEAR/2 frequency) or (frequency NEAR/2 urgency))):ti  |
| #11 | (((((urin* or bladder*) NEAR/2 (urg* or frequen*)):ti  |
| #12 | ((((SUI or OAB)):ti  |
| #13 | MeSH descriptor: [Pelvic Organ Prolapse] explode all trees   |
| #14 | MeSH descriptor: [Rectocele] this term only  |
| #15 | ((((pelvic* NEAR/3 organ* NEAR/3 prolaps*)):ti   |
| #16 | ((((urinary NEAR/3 bladder NEAR/3 prolaps*)):ti  |
| #17 | (((((vagin* or urogenital* or genit* or uter* or viscer* or anterior* or posterior* or apical or pelvi* or vault* or urethr* or bladder* or cervi* or rectal or rectum) NEAR/3 prolaps*)):ti   |
| #18 | ((((splanchnoptos* or visceroptos*)):ti  |
| #19 | (((((hernia* NEAR/3 (pelvi* or vagin* or urogenital* or uter* or bladder* or urethr* or viscer*)):ti   |
| #20 | (((((urethroc?ele* or enteroc?ele* or sigmoidoc?ele* or proctoc?ele* or rectoc?ele* or cystoc?ele* or rectoenteroc?ele* or cystourethroc?ele*)):ti   |
| #21 | MeSH descriptor: [Fecal Incontinence] this term only   |
| #22 | (((((faecal or fecal or faeces or feces or fecally or faecally or anal or anally or stool or stools or bowel or double or defecat* or defaecat*) NEAR/5 (incontinence or incontinent or urge* or leak or leaking or leakage or soiling or seeping or seepage or impacted or impaction))):ti  |
| #23 | MeSH descriptor: [Urinary Retention] this term only  |
| #24 | (((((urin* NEAR/3 (retention* or retain*)):ti,ab,kw  |

| #   | Searches   |
|-----|--|
| #25 | ((voiding NEXT (disorder* or dysfunction* or problem*)):ti,ab,kw   |
| #26 | ((empty* NEXT disorder* NEAR/3 (bowel* or bladder* or vesical* or stool*)):ti,ab,kw  |
| #27 | ((urogeni* or anorec* or ano-rec* or ano rec*) NEAR/3 dysfunction*)):ti,ab,kw  |
| #28 | MeSH descriptor: [Fecal Impaction] this term only  |
| #29 | ((difficult* or delay* or irregular* or infrequen* or pain*) NEAR/3 (defecat* or defaecat* or stool* or faecal or fecal or faeces or feces or fecally or faecally or bowel movement*)):ti,ab,kw  |
| #30 | ((obstruct* NEAR/3 (defecat* or defaecat*)):ti,ab,kw   |
| #31 | ((defecat* or defaecat* or evacuat*) NEAR/3 (disorder* or dysfunction*)):ti,ab,kw  |
| #32 | ((outlet* dysfunction* constipa*)):ti,ab,kw  |
| #33 | ((dys?ynerg* NEXT (defecat* or defaecat*)):ti,ab,kw  |
| #34 | ((pelvi* NEAR/3 dyskines*)):ti,ab,kw   |
| #35 | ((pelvi* outlet* obstruct*)):ti,ab,kw  |
| #36 | ((anismus*)):ti,ab,kw  |
| #37 | ((puborectal* contract*)):ti,ab,kw   |
| #38 | ((rectal or rectum) NEAR/3 urge*)):ti,ab,kw  |
| #39 | ((female NEXT sex* NEXT (dysfunct* or satisf* or problem* or symptom* or arous* or activit* or disorder*)):ti,ab,kw  |
| #40 | ((obstruct* NEAR/3 intercourse)):ti,ab,kw  |
| #41 | ((vagin* NEAR/3 laxity*)):ti,ab,kw   |
| #42 | ((vagin* NEXT wind)):ti,ab,kw  |
| #43 | MeSH descriptor: [Vaginismus] this term only   |
| #44 | ((vaginismus*)):ti,ab,kw   |
| #45 | ((vagin* NEXT penetrat* NEXT disorder*)):ti,ab,kw  |
| #46 | #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45 |
| #47 | MeSH descriptor: [Exercise Therapy] explode all trees  |
| #48 | MeSH descriptor: [Physical Therapy Modalities] this term only  |
| #49 | ((pelvi* NEXT (floor* or muscl*) or PFM*) NEAR/3 (training or exercise* or re-training or retraining or rehabilitat* or strengthen*)):ti,ab,kw   |
| #50 | ((pelvi* NEXT floor* NEXT muscl* NEXT (physiotherap* or therap* or treatment))):ti,ab,kw   |
| #51 | ((pelvi* NEXT floor* NEXT (physiotherap* or physical therap*)):ti,ab,kw  |
| #52 | ((PFMT or PFME or PFPT)):ti,ab,kw  |
| #53 | ((kegel* or Kegel* or knack*)):ti,ab,kw  |
| #54 | ((physiotherap* or "physical therap*")):ti   |
| #55 | (physiotherapy-led):ti,ab,kw   |
| #56 | ((vagin* NEAR/3 (cone or cones))):ti,ab,kw   |
| #57 | ((vagin* NEXT (ball or balls))):ti,ab,kw   |
| #58 | ((weight NEXT (cone or cones))):ti,ab,kw   |
| #59 | (pelvi* NEXT floor* NEAR/2 (cone or cones)):ti,ab,kw   |
| #60 | ((cone or cones) NEAR/5 (continen* or incontinen*)):ti   |
| #61 | MeSH descriptor: [Electric Stimulation] this term only   |
| #62 | MeSH descriptor: [Electric Stimulation Therapy] this term only   |
| #63 | MeSH descriptor: [Transcutaneous Electric Nerve Stimulation] this term only  |
| #64 | ((electr* NEAR/3 stimulat*)):ti,ab,kw  |
| #65 | ((electrostimulat* or electro-stimulat*)):ti,ab,kw   |
| #66 | ((transcutaneous* or percutaneous* or neuromusc* or posterior* or anterior* or tibia* or perine* or intravagin* or intra-vagin*) NEAR/4 stimulat*)):ti,ab,kw   |
| #67 | MeSH descriptor: [Magnetics] this term only  |
| #68 | MeSH descriptor: [Magnetic Field Therapy] this term only   |
| #69 | ((magnet* or electro-magnet* or electromagnet*) NEXT (stimulation* or therap* or treatment*)):ti,ab,kw   |
| #70 | ((magnet* or electro-magnet* or electromagnet*) NEXT (nerve* or energ* or pelvi* floor or pelvi* muscl*) NEXT (stimulation* or therap* or treatment*)):ti,ab,kw  |
| #71 | ((magnet* or electro-magnet* or electromagnet*) NEXT innervation*)):ti,ab,kw   |
| #72 | ((interferential* NEAR/3 (current or currents or therap* or treatment*)):ti,ab,kw  |
| #73 | (hifem*):ti,ab,kw  |
| #74 | MeSH descriptor: [Biofeedback, Psychology] this term only  |
| #75 | ((biofeedback* or bio-feedback*)):ti,ab,kw   |
| #76 | ((digital* or manual*) NEAR/3 (feedback* or palpat* or assess* or contract*)):ti,ab,kw   |
| #77 | ((pressure* NEAR/3 perin?ometr*)):ti,ab,kw   |
| #78 | MeSH descriptor: [Resistance Training] this term only  |
| #79 | ((strength* or resistan*) NEAR/3 (training or exercise* or physiotherap*)):ti,ab,kw  |
| #80 | ((manual NEAR/3 therap*)):ti,ab,kw   |
| #81 | (myofascia* NEAR/3 (release* or therap* or technique*)):ti,ab,kw   |
| #82 | #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53 OR #54 OR #55 OR #56 OR #57 OR #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 OR #71 OR #72 OR #73 OR #74 OR #75 OR #76 OR #77 OR #78 OR #79 OR #80 OR #81  |
| #83 | #46 AND #82  |

**Database(s): CRD: Database of Abstracts of Reviews of Effects (DARE), HTA Database**  
Date of last search: 2<sup>nd</sup> February 2021

| #  | Searches  |
|----|---|
| 1  | MeSH DESCRIPTOR Pelvic Floor IN DARE,HTA  |
| 2  | MeSH DESCRIPTOR Pelvic Floor Disorders IN DARE,HTA  |
| 3  | ((pelvi* NEXT (floor* or diaphragm*) NEAR3 (dysfunction* or disorder* or fail* or impair* or incompeten* or insufficien* or dyssynerg* or symptom* or laxity or change* or care* or health* or wellbeing* or well-being* or prevent* or rehabilitat* or weak* or hypertonic* or overactiv* or over activ* or over-activ*)) IN DARE, HTA |
| 4  | ((pelvi* NEXT (dysfunction* or disorder* or fail* or impair* or incompeten* or insufficien* or dyssynerg* or symptom* or laxity or care* or health* or wellbeing* or well-being* or prevent* or rehabilitat* or weak* or hypertonic* or overactiv* or over activ* or over-activ*)) IN DARE, HTA   |
| 5  | MeSH DESCRIPTOR Urinary Incontinence EXPLODE ALL TREES IN DARE,HTA  |
| 6  | MeSH DESCRIPTOR Urinary Bladder, Overactive IN DARE,HTA   |
| 7  | ((stress* or mix* or urg* or urin*) NEAR5 incontinen*) IN DARE, HTA   |
| 8  | ((bladder* NEAR5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex* or incontinen*)) IN DARE, HTA   |
| 9  | ((detrusor* NEAR5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex*)) IN DARE, HTA   |
| 10 | ((urgency NEAR2 frequency) or (frequency NEAR2 urgency)) IN DARE, HTA   |
| 11 | ((urin* or bladder*) NEAR2 (urg* or frequen*)) IN DARE, HTA   |
| 12 | ((SUI or OAB)) IN DARE, HTA   |
| 13 | MeSH DESCRIPTOR Pelvic Organ Prolapse EXPLODE ALL TREES IN DARE,HTA   |
| 14 | MeSH DESCRIPTOR Rectocele IN DARE,HTA   |
| 15 | ((pelvic* NEAR3 organ* NEAR3 prolaps*)) IN DARE, HTA  |
| 16 | ((urinary NEAR3 bladder NEAR3 prolaps*)) IN DARE, HTA   |
| 17 | ((vagin* or urogenital* or genit* or uter* or viscer* or anterior* or posterior* or apical or pelvi* or vault* or urethr* or bladder* or cervi* or rectal or rectum) NEAR3 prolaps*)) IN DARE, HTA  |
| 18 | ((splanchnoptos* or visceroptos*)) IN DARE, HTA   |
| 19 | ((hernia* NEAR3 (pelvi* or vagin* or urogenital* or uter* or bladder* or urethr* or viscer*)) IN DARE, HTA  |
| 20 | ((urethroc?ele* or enteroc?ele* or sigmoidoc?ele* or proctoc?ele* or rectoc?ele* or cystoc?ele* or rectoenteroc?ele* or cystourethroc?ele*)) IN DARE, HTA   |
| 21 | MeSH DESCRIPTOR Fecal Incontinence IN DARE,HTA  |
| 22 | ((faecal or fecal or faeces or feces or fecally or faecally or anal or anally or stool or stools or bowel or double or defecat* or defaecat*) NEAR5 (incontinence or incontinent or urge* or leak or leaking or leakage or soiling or seeping or seepage or impacted or impaction)) IN DARE, HTA  |
| 23 | MeSH DESCRIPTOR Urinary Retention IN DARE,HTA   |
| 24 | ((urin* NEAR3 (retention* or retain*)) IN DARE, HTA   |
| 25 | ((voiding NEXT (disorder* or dysfunction* or problem*)) IN DARE, HTA  |
| 26 | ((empty* NEXT disorder* NEAR3 (bowel* or bladder* or vesical* or stool*)) IN DARE, HTA  |
| 27 | ((urogeni* or anorec* or ano-rec* or ano rec*) NEAR3 dysfunction*) IN DARE, HTA   |
| 28 | MeSH DESCRIPTOR Fecal Impaction IN DARE,HTA   |
| 29 | ((difficult* or delay* or irregular* or infrequen* or pain*) NEAR3 (defecat* or defaecat* or stool* or faecal or fecal or faeces or feces or fecally or faecally or bowel movement*)) IN DARE, HTA  |
| 30 | ((obstruct* NEAR3 (defecat* or defaecat*)) IN DARE, HTA   |
| 31 | ((defecat* or defaecat* or evacuat*) NEAR3 (disorder* or dysfunction*)) IN DARE, HTA  |
| 32 | ((outlet* NEXT dysfunction* NEXT constipa*)) IN DARE, HTA   |
| 33 | ((dys?ynerg* NEXT (defecat* or defaecat*)) IN DARE, HTA   |
| 34 | ((pelvi* NEAR3 dyskines*)) IN DARE, HTA   |
| 35 | ((pelvi* NEXT outlet* NEXT obstruct*) IN DARE, HTA  |
| 36 | ((anismus*)) IN DARE, HTA   |
| 37 | ((puborectal* NEXT contract*)) IN DARE, HTA   |
| 38 | ((rectal or rectum) NEAR3 urge*) IN DARE, HTA   |
| 39 | ((female NEXT sex* NEXT (dysfunc* or satisf* or problem* or symptom* or arous* or activit* or disorder*)) IN DARE, HTA  |
| 40 | ((obstruct* NEAR3 intercourse)) IN DARE, HTA  |
| 41 | ((vagin* NEAR3 laxity*)) IN DARE, HTA   |
| 42 | ((vagin* NEXT wind)) IN DARE, HTA   |
| 43 | MeSH DESCRIPTOR Vaginismus IN DARE,HTA  |
| 44 | ((vaginismus*)) IN DARE, HTA  |
| 45 | ((vagin* NEXT penetrat* NEXT disorder*)) IN DARE, HTA   |
| 46 | #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45                          |
| 47 | MeSH DESCRIPTOR Exercise Therapy EXPLODE ALL TREES IN DARE,HTA  |
| 48 | MeSH DESCRIPTOR Physical Therapy Modalities IN DARE,HTA   |
| 49 | ((pelvi* NEXT (floor* or muscl*) or PFM*) NEAR3 (training or exercise* or re-training or retraining or rehabilitat* or strengthen*)) IN DARE, HTA   |
| 50 | ((pelvi* NEXT floor* NEXT muscl* NEXT (physiotherap* or therap* or treatment))) IN DARE, HTA  |
| 51 | ((pelvi* NEXT floor* NEXT (physiotherap* or physical therap*)) IN DARE, HTA   |

| #  | Searches   |
|----|--|
| 52 | ((PFMT or PFME or PFPT)) IN DARE, HTA  |
| 53 | ((kegel* or Kegel* or knack*)) IN DARE, HTA  |
| 54 | ((physiotherap* or "physical therap*")):TI IN DARE, HTA  |
| 55 | ((physiotherapy-led)):TI IN DARE, HTA  |
| 56 | ((vagin* NEAR3 (cone or cones))):TI IN DARE, HTA   |
| 57 | ((vagin* NEXT (ball or balls))):TI IN DARE, HTA  |
| 58 | ((weight NEXT (cone or cones))):TI IN DARE, HTA  |
| 59 | ((pelvi* NEXT floor* NEAR2 (cone or cones))):TI IN DARE, HTA   |
| 60 | ((cone or cones) NEAR5 (continen* or incontinen*))):TI IN DARE, HTA  |
| 61 | MeSH DESCRIPTOR Electric Stimulation IN DARE,HTA   |
| 62 | MeSH DESCRIPTOR Electric Stimulation therapy IN DARE,HTA   |
| 63 | MeSH DESCRIPTOR Transcutaneous Electric Nerve Stimulation IN DARE,HTA  |
| 64 | ((elect* NEAR3 stimulat*)):TI IN DARE, HTA   |
| 65 | ((electrostimulat* or electro-stimulat*)):TI IN DARE, HTA  |
| 66 | ((transcutaneous* or percutaneous* or neuromusc* or posterior* or anterior* or tibia* or perine* or intravagin* or intra-vagin*) NEAR4 stimulat*)):TI IN DARE, HTA   |
| 67 | MeSH DESCRIPTOR Transcutaneous Electric Nerve Stimulation IN DARE,HTA  |
| 68 | MeSH DESCRIPTOR Magnetic Field Therapy IN DARE,HTA   |
| 69 | MeSH DESCRIPTOR Magnetics IN DARE,HTA  |
| 70 | ((magnet* or electro-magnet* or electromagnet*) NEXT (stimulation* or therap* or treatment*))):TI IN DARE, HTA   |
| 71 | ((magnet* or electro-magnet* or electromagnet*) NEXT (nerve* or energ* or pelvi* floor or pelvi* muscl*) NEXT (stimulation* or therap* or treatment*))):TI IN DARE, HTA  |
| 72 | ((magnet* or electro-magnet* or electromagnet*) NEXT innervation*)):TI IN DARE, HTA  |
| 73 | ((interferential* NEAR3 (current or currents or therap* or treatment*))):TI IN DARE, HTA   |
| 74 | ((hifem*)):TI IN DARE, HTA   |
| 75 | MeSH DESCRIPTOR Biofeedback, Psychology IN DARE,HTA  |
| 76 | ((biofeedback* or bio-feedback*)):TI IN DARE, HTA  |
| 77 | ((digital* or manual*) NEAR3 (feedback* or palpat* or assess* or contract*))):TI IN DARE, HTA  |
| 78 | ((pressure* NEAR3 perin?omet*)):TI IN DARE, HTA  |
| 79 | MeSH DESCRIPTOR Resistance Training IN DARE,HTA  |
| 80 | ((strength* or resistan*) NEAR3 (training or exercise* or physiotherap*))):TI IN DARE, HTA   |
| 81 | ((manual NEAR3 therap*)):TI IN DARE, HTA   |
| 82 | ((myofascia* NEAR3 (release* or therap* or technique*))):TI IN DARE, HTA   |
| 83 | #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53 OR #54 OR #55 OR #56 OR #57 OR #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 OR #71 OR #72 OR #73 OR #74 OR #75 OR #76 OR #77 OR #78 OR #79 OR #80 OR #81 OR #82 |
| 84 | #46 AND #83  |

## Economic Search

One global search was conducted for economic evidence across the guideline.

## Database(s): CRD: NHS Economic Evaluation Database (NHS EED), HTA Database

Date of last search: 3<sup>rd</sup> February 2021

| #  | Searches  |
|----|---|
| 1  | MeSH DESCRIPTOR Pelvic Floor IN NHSEED,HTA  |
| 2  | MeSH DESCRIPTOR Pelvic Floor Disorders IN NHSEED,HTA  |
| 3  | MeSH DESCRIPTOR Urinary Bladder, Overactive IN NHSEED,HTA   |
| 4  | ((pelvi* NEXT (floor* or diaphragm*) NEAR3 (dysfunction* or disorder* or fail* or impair* or incompeten* or insufficien* or dyssynerg* or symptom* or laxity or change* or care* or health* or wellbeing* or well-being* or prevent* or rehabilitat* or weak* or hypertonic* or overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex* or incontinen*)) IN NHSEED, HTA |
| 5  | MeSH DESCRIPTOR Urinary Incontinence EXPLODE ALL TREES IN NHSEED,HTA  |
| 6  | MeSH DESCRIPTOR Urinary Bladder, Overactive IN NHSEED,HTA   |
| 7  | ((stress* or mix* or urg* or urin*) NEAR5 incontinen*)) IN NHSEED, HTA  |
| 8  | ((bladder* NEAR5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex* or incontinen*)) IN NHSEED, HTA   |
| 9  | ((detrusor* NEAR5 (overactiv* or over activ* or over-activ* or instabilit* or hyper-reflex* or hyperreflex* or hyper reflex*)) IN NHSEED, HTA   |
| 10 | ((urgency NEAR2 frequency) or (frequency NEAR2 urgency)) IN NHSEED, HTA   |
| 11 | ((urin* or bladder*) NEAR2 (urg* or frequen*)) IN NHSEED, HTA   |
| 12 | ((SUI or OAB)) IN NHSEED, HTA   |
| 13 | MeSH DESCRIPTOR Pelvic Organ Prolapse EXPLODE ALL TREES IN NHSEED,HTA   |
| 14 | MeSH DESCRIPTOR Rectocele IN NHSEED,HTA   |
| 15 | ((pelvic* NEAR3 organ* NEAR3 prolaps*)) IN NHSEED, HTA  |
| 16 | ((urinary NEAR3 bladder NEAR3 prolaps*)) IN NHSEED, HTA   |
| 17 | ((vagin* or urogenital* or genit* or uter* or viscer* or anterior* or posterior* or apical or pelvi* or vault* or urethr* or bladder* or cervi* or rectal or rectum) NEAR3 prolaps*)) IN NHSEED, HTA  |
| 18 | ((splanchnoptos* or visceroptos*)) IN NHSEED, HTA   |

| #  | Searches  |
|----|---|
| 19 | (((hernia* NEAR3 (pelvi* or vagin* or urogenital* or uter* or bladder* or urethr* or viscer*))) IN NHSEED, HTA  |
| 20 | (((urethro?ele* or enteroc?ele* or sigmoidoc?ele* or proctoc?ele* or rectoc?ele* or cystoc?ele* or rectoenteroc?ele* or cystourethro?ele*))) IN NHSEED, HTA   |
| 21 | MeSH DESCRIPTOR Fecal Incontinence IN NHSEED,HTA  |
| 22 | (((faecal or fecal or faeces or feces or fecally or faecally or anal or anally or stool or stools or bowel or double or defecat* or defaecat*) NEAR5 (incontinence or incontinent or urge* or leak or leaking or leakage or soiling or seeping or seepage or impacted or impaction)))) IN NHSEED, HTA                           |
| 23 | MeSH DESCRIPTOR Urinary Retention IN NHSEED,HTA   |
| 24 | (((urin* NEAR3 (retention* or retain*))) IN NHSEED, HTA   |
| 25 | (((voiding NEXT (disorder* or dysfunction* or problem*))) IN NHSEED, HTA  |
| 26 | (((empty* NEXT disorder* NEAR3 (bowel* or bladder* or vesical* or stool*))) IN NHSEED, HTA  |
| 27 | (((urogeni* or anorec* or ano-rec* or ano rec*) NEAR3 dysfunction*)) IN NHSEED, HTA   |
| 28 | MeSH DESCRIPTOR Fecal Impaction IN NHSEED,HTA   |
| 29 | (((difficult* or delay* or irregular* or infrequen* or pain*) NEAR3 (defecat* or defaecat* or stool* or faecal or fecal or faeces or feces or fecally or faecally or bowel movement*))) IN NHSEED, HTA  |
| 30 | (((obstruct* NEAR3 (defecat* or defaecat*))) IN NHSEED, HTA   |
| 31 | (((defecat* or defaecat* or evacuat*) NEAR3 (disorder* or dysfunction*))) IN NHSEED, HTA  |
| 32 | (((outlet* NEXT dysfunction* NEXT constipa*))) IN NHSEED, HTA   |
| 33 | (((dys?ynerg* NEXT (defecat* or defaecat*))) IN NHSEED, HTA   |
| 34 | (((pelvi* NEAR3 dyskines*))) IN NHSEED, HTA   |
| 35 | (((pelvi* NEXT outlet* NEXT obstruct*))) IN NHSEED, HTA   |
| 36 | (((anismus*))) IN NHSEED, HTA   |
| 37 | (((puborectal* NEXT contract*))) IN NHSEED, HTA   |
| 38 | (((rectal or rectum) NEAR3 urge*)) IN NHSEED, HTA   |
| 39 | (((female NEXT sex* NEXT (dysfunct* or satisf* or problem* or symptom* or arous* or activit* or disorder*))) IN NHSEED, HTA   |
| 40 | (((obstruct* NEAR3 intercourse))) IN NHSEED, HTA  |
| 41 | (((vagin* NEAR3 laxity*))) IN NHSEED, HTA   |
| 42 | (((vagin* NEXT wind))) IN NHSEED, HTA   |
| 43 | MeSH DESCRIPTOR Vaginismus IN NHSEED,HTA  |
| 44 | (((vaginismus*))) IN NHSEED, HTA  |
| 45 | (((vagin* NEXT penetrat* NEXT disorder*))) IN NHSEED, HTA   |
| 46 | (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45) IN NHSEED, HTA |

### Database(s): Medline & Embase (Multifile)

**Embase Classic+Embase** 1947 to 2021 February 01, **Ovid MEDLINE(R)** and **Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily** 1946 to February 01, 2021  
Date of last search: 3<sup>rd</sup> February 2021

*Multifile database codes: emczd = Embase Classic+Embase; ppez= MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily*

| #  | Searches  |
|----|---|
| 1  | Pelvic Floor/ use ppez  |
| 2  | Pelvic Floor Disorders/ use ppez  |
| 3  | pelvis floor/ use emczd   |
| 4  | pelvic floor disorder/ use emczd  |
| 5  | (pelvi\$ adj (floor\$ or diaphragm\$) adj3 (dysfunction\$ or disorder\$ or fail\$ or impair\$ or incompeten\$ or insufficien\$ or dyssynerg\$ or symptom\$ or laxity or change\$ or care\$ or health\$ or wellbeing\$ or well-being\$ or prevent\$ or rehabilitat\$ or weak\$ or hypertonic\$ or overactiv\$ or over-activ\$).tw. |
| 6  | (pelvi\$ adj (dysfunction\$ or disorder\$ or fail\$ or impair\$ or incompeten\$ or insufficien\$ or dyssynerg\$ or symptom\$ or laxity or care\$ or health\$ or wellbeing\$ or well-being\$ or prevent\$ or rehabilitat\$ or weak\$ or hypertonic\$ or overactiv\$ or over-activ\$).tw.   |
| 7  | or/1-6  |
| 8  | exp *Urinary Incontinence/ use ppez   |
| 9  | *Urinary Bladder, Overactive/ use ppez  |
| 10 | exp *urine incontinence/ use emczd  |
| 11 | *overactive bladder/ use emczd  |
| 12 | *bladder instability/ use emczd   |
| 13 | ((stress\$ or mix\$ or urg\$ or urin\$) adj5 incontinen\$.ti.   |
| 14 | (bladder\$ adj5 (overactiv\$ or over-activ\$ or instabilit\$ or hyper-reflex\$ or hyperreflex\$ or hyper reflex\$ or incontinen\$).ti.  |
| 15 | (detrusor\$ adj5 (overactiv\$ or over-activ\$ or instabilit\$ or hyper-reflex\$ or hyperreflex\$ or hyper reflex\$).ti.   |
| 16 | ((urgency adj2 frequency) or (frequency adj2 urgency)).ti.  |
| 17 | ((urin\$ or bladder\$) adj2 (urg\$ or frequen\$)).ti.   |

| #  | Searches  |
|----|---|
| 18 | (SUI or OAB).ti.  |
| 19 | or/8-18   |
| 20 | exp *Pelvic Organ Prolapse/ use ppez  |
| 21 | exp *pelvic organ prolapse/ use emczd   |
| 22 | *Rectocele/ use ppez  |
| 23 | *rectocele/ use emczd   |
| 24 | (pelvic\$ adj3 organ\$ adj3 prolaps\$).ti.  |
| 25 | (urinary adj3 bladder adj3 prolaps\$).ti.   |
| 26 | ((vagin\$ or urogenital\$ or genit\$ or uter\$ or viscer\$ or anterior\$ or posterior\$ or apical or pelvi\$ or vault\$ or urethr\$ or bladder\$ or cervi\$ or rectal or rectum) adj3 prolaps\$).ti.  |
| 27 | (splanchnoptos\$ or visceroptos\$).ti.  |
| 28 | (hernia\$ adj3 (pelvi\$ or vagin\$ or urogenital\$ or uter\$ or bladder\$ or urethr\$ or viscer\$)).ti.   |
| 29 | (urethroc?ele\$ or enteroc?ele\$ or sigmoidoc?ele\$ or proctoc?ele\$ or rectoc?ele\$ or cystoc?ele\$ or rectoenteroc?ele\$ or cystourethroc?ele\$).ti.  |
| 30 | or/20-29  |
| 31 | *Fecal Incontinence/ use ppez   |
| 32 | *feces incontinence/ use emczd  |
| 33 | ((faecal or fecal or faeces or feces or fecally or faecally or anal or anally or stool or stools or bowel or double or defecat\$ or defaecat\$) adj5 (incontinence or incontinent or urge\$ or leak or leaking or leakage or soiling or seeping or seepage or impacted or impaction)).ti. |
| 34 | or/31-33  |
| 35 | Urinary Retention/ use ppez   |
| 36 | urine retention/ use emczd  |
| 37 | (urin\$ adj3 (retention\$ or retain\$)).tw.   |
| 38 | (voiding adj (disorder\$ or dysfunction\$ or problem\$)).tw.  |
| 39 | (empty\$ adj disorder\$ adj3 (bowel\$ or bladder\$ or vesical\$ or stool\$)).tw.  |
| 40 | ((urogeni\$ or anorec\$ or ano-rec\$ or ano rec\$) adj3 dysfunction\$).tw.  |
| 41 | defecation disorder/ use emczd  |
| 42 | Fecal Impaction/ use ppez   |
| 43 | Feces Impaction/ use emczd  |
| 44 | ((difficult\$ or delay\$ or irregular\$ or infrequen\$ or pain\$) adj3 (defecat\$ or defaecat\$ or stool\$ or faeces or feces or bowel movement\$)).tw.   |
| 45 | (obstruct\$ adj3 (defecat\$ or defaecat\$)).tw.   |
| 46 | ((defecat\$ or defaecat\$ or evacuat\$) adj3 (disorder\$ or dysfunction\$)).tw.   |
| 47 | outlet\$ dysfunction\$ constipa\$.tw.   |
| 48 | (dys?ynerg\$ adj (defecat\$ or defaecat\$)).tw.   |
| 49 | (pelvi\$ adj3 dyskines\$).tw.   |
| 50 | pelvi\$ outlet\$ obstruct\$.tw.   |
| 51 | anismus\$.tw.   |
| 52 | puborectal\$ contract\$.tw.   |
| 53 | ((rectal or rectum) adj3 urge\$).tw.  |
| 54 | or/35-53  |
| 55 | female sexual dysfunction/ use emczd  |
| 56 | (female adj sex\$ adj (dysfunct\$ or satisf\$ or problem\$ or symptom\$ or arous\$ or activit\$ or disorder\$)).tw.   |
| 57 | (obstruct\$ adj3 intercourse).tw.   |
| 58 | (vagin\$ adj3 laxity\$).tw.   |
| 59 | (vagin\$ adj wind).tw.  |
| 60 | Vaginismus/ use ppez  |
| 61 | vaginism/ use emczd   |
| 62 | vaginismus\$.tw.  |
| 63 | (vagin\$ adj penetrat\$ adj disorder\$).tw.   |
| 64 | or/55-63  |
| 65 | 7 or 19 or 30 or 34 or 54 or 64   |
| 66 | Economics/ use ppez   |
| 67 | Value of life/ use ppez   |
| 68 | exp "Costs and Cost Analysis"/ use ppez   |
| 69 | exp Economics, Hospital/ use ppez   |
| 70 | exp Economics, Medical/ use ppez  |
| 71 | Economics, Nursing/ use ppez  |
| 72 | Economics, Pharmaceutical/ use ppez   |
| 73 | exp "Fees and Charges"/ use ppez  |
| 74 | exp Budgets/ use ppez   |
| 75 | health economics/ use emczd   |
| 76 | exp economic evaluation/ use emczd  |
| 77 | exp health care cost/ use emczd   |
| 78 | exp fee/ use emczd  |
| 79 | budget/ use emczd   |
| 80 | funding/ use emczd  |
| 81 | budget*.ti,ab.  |



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| #  | Searches  |
|----|---|
| 82 | cost*.ti.   |
| 83 | (economic* or pharmaco?economic*).ti.   |
| 84 | (price* or pricing*).ti,ab.   |
| 85 | (cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 86 | (financ* or fee or fees).ti,ab.   |
| 87 | (value adj2 (money or monetary)).ti,ab.   |
| 88 | or/66-87  |
| 89 | 65 and 88   |
| 90 | limit 89 to english language  |