SUPPLEMENTAL DIGITAL CONTENT

 **APPENDIX 1. LITERATURE SEARCH STRATEGY**

ACOG CLINICAL CONSENSUS NUMBER 5

*URINARY TRACT INFECTIONS IN PREGNANT INDIVIDUALS*

**Database:** Ovid MEDLINE(R) Ovid MEDLINE(R) <1946 to April Week 4 2021>

* Asymptomatic bacteriuria searches were limited to 2017-present
* All other searches were limited to 2000-present

**Asymptomatic bacteriuria**

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | bacteriuria/ and (asymptomatic infections/ or asymptomatic.ti,ab.) | 1391 |
| 2 | (asymptomatic adj3 bacteriuria).ti,ab. | 1750 |
| 3 | 1 or 2 | 1950 |
| 4 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 958591 |
| 5 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$ or gestation or fetus$ or foetus$ or fetal$ or foetal$).ti. | 516554 |
| 6 | 4 or 5 | 1042308 |
| 7 | 3 and 6 | 585 |
| 8 | limit 7 to (english language and humans) | 425 |
| 9 | limit 8 to yr="2017 -Current" | 58 |

**Urinary tract infection – diagnosis**

(includes UTI, cystitis, pyelonephritis, recurrent infection)

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | \*urinary tract infections/ or \*pyuria/ or \*bacteriuria/ or cystitis/ or cystitis, interstitial/ or pyelocystitis/ or exp Pyelonephritis/ | 51579 |
| 2 | (urinary tract infection$ or pyuria or bacteriuria or cystitis or cystitides or Pyelonephritides or Pyelonephritis).ti. | 28377 |
| 3 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$ or (interstitial adj3 (Cystitides or Cystitis)) or (uncomplicated adj2 cystitis)).ti,ab. | 3543 |
| 4 | 1 or 2 or 3 | 52653 |
| 5 | urinary tract infections/ or pyuria/ or bacteriuria/ | 45143 |
| 6 | exp recurrence/ or (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. or (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 745617 |
| 7 | 5 and 6 | 5073 |
| 8 | 4 or 7 | 53713 |
| 9 | limit 8 to (english language and humans) | 33169 |
| 10 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 958591 |
| 11 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 424977 |
| 12 | 10 or 11 | 1012808 |
| 13 | 9 and 12 | 1949 |
| 14 | Diagnostic Techniques, Urological/ or Urinalysis/ or colony count, microbial/ or leukocyte count/ or enzyme linked immunosorbent assay/ or urodynamics/ or cystoscopy/ or Ultrasonography/ or Urography/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or Diagnostic Imaging/ | 1215499 |
| 15 | (culture$ or mri or ct or ultraso$ or sonogr$ or diagnos$ or image$ or imaging).ti. or (nitrite test or urinalysis or microscopic urine or urine microscopic or urine culture or urodynamics or cystoscop$ or cystourethroscop$ or pyelogra$ or tomograph$ or magnetic resonance imag$ or urograph$ or dipstick$).ti,ab. | 1616066 |
| 16 | 14 or 15 | 2289155 |
| 17 | 13 and 16 | 391 |
| 18 | limit 17 to yr="2000 -Current" | 202 |

**Urinary tract infection – treatment**

(includes UTI, cystitis, pyelonephritis, recurrent infection)

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | \*urinary tract infections/ or \*pyuria/ or \*bacteriuria/ or cystitis/ or cystitis, interstitial/ or pyelocystitis/ or exp Pyelonephritis/ | 51579 |
| 2 | (urinary tract infection$ or pyuria or bacteriuria or cystitis or cystitides or Pyelonephritides or Pyelonephritis).ti. | 28377 |
| 3 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$ or (interstitial adj3 (Cystitides or Cystitis)) or (uncomplicated adj2 cystitis)).ti,ab. | 3543 |
| 4 | 1 or 2 or 3 | 52653 |
| 5 | urinary tract infections/ or pyuria/ or bacteriuria/ | 45143 |
| 6 | exp recurrence/ or (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. or (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 745617 |
| 7 | 5 and 6 | 5073 |
| 8 | 4 or 7 | 53713 |
| 9 | limit 8 to (english language and humans) | 33169 |
| 10 | (child$ or pediatr$ or paediatr$).ti. | 846731 |
| 11 | 9 not 10 | 29939 |
| 12 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 958591 |
| 13 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$ or gestation or fetus$ or foetus$ or fetal$ or foetal$).ti. | 516554 |
| 14 | 12 or 13 | 1042308 |
| 15 | 11 and 14 | 1893 |
| 16 | exp anti-bacterial agents/ or anti-infective agents/ or drug resistance, bacterial/ or \*bacteriuria/dt or \*urinary tract infections/dt | 787253 |
| 17 | (therap$ or treat$ or manage$ or medication$ or drug$ or antibiotic$ or anti-biotic$ or antibacteria$ or anti-bacteria$ or antimicrob$ or anti-microb$).ti. | 2790077 |
| 18 | Nitrofurans/ or Nitrofurantoin/ or exp Ampicillin/ or exp penicillins/ or exp Cephalexin/ or Trimethoprim, Sulfamethoxazole Drug Combination/ or exp Fluoroquinolones/ or exp Cephalosporins/ | 153796 |
| 19 | (Nitrofuran\* or Nitrofurantoin or Furadoine or Furantoin or Macrodantin or Furadantin or Furadantine or Furadonine or Furalan or Macrobid or Ampicillin or Amoxicillin-Clavulanate or Azlocillin or Mezlocillin or Piperacillin or Piperacillin-Tazobactam or Pivampicillin or Talampicillin or Aminobenzylpenicillin or Aminobenzyl Penicillin or Pentrexyl or Polycillin or Ukapen or Amcill or Omnipen or Penbriti or Pfizerpen or Principen or Totacillin or penicillin$ or Amdinocillin or Cyclacillin or Methicillin or Nafcillin or Oxacillin or Cloxacillin or Penicillanic Acid or Tazobactam or Carbenicillin or Sulbenicillin or Sulbactam or Ticarcillin or Cephalexin or Cefaclor or Cefadroxil or Cefatrizine or Cephaloglycin or Cephradine or cefalexin or Ceporexine or Palitrex or Keflet or Keflex or Keftab or Panixine or (trimethoprim and sulfamethoxazole) or trimethoprim-sulfamethoxazole or Centrin or Cotrimoxazole or Eslectin or Insozalin or TMP-SMX or Trimezole or Co-Trimoxazole or Centran or Trimedin or Septrin or Trimethoprimsulfa or Bactifor or Sumetrolim or Abactrim or Bactrim or Biseptol$ or Drylin or Eusaprim or Kepinol or Lescot or Metomide or Oriprim or Septra or Sulprim or Trimosulfa or fluoroquinolone$ or Ciprofloxacin or Fleroxacin or Enoxacin or Enrofloxacin or Gatifloxacin or Gemifloxacin or Moxifloxacin or Norfloxacin or Ofloxacin or Levofloxacin or Pefloxacin or cipro or proquin or Penetrex or factive or avelox or floxin or levaquin or cephalosporin$ or Cephalosporanic Acid or Cefamandole or Cefoperazone or Cefazolin or Cefdinir or Cefepime or Cefonicid or Cefsulodin or Ceftibuten or Cefuroxime or Cephacetrile or Cefotaxime or Cephalothin or Cephapirin or Cefaclor or Cefadroxil or Cephaloglycin or Cephradine or Cephaloridine or Ceftazidime or Cephamycins or Cefmetazole or Cefotetan or Cefoxitin).ti,ab. | 183291 |
| 20 | 16 or 17 or 18 or 19 | 3313206 |
| 21 | 15 and 20 | 725 |
| 22 | limit 21 to yr="2000 -Current" | 335 |

**Urinary tract infection – Health equity**

(includes UTI, cystitis, pyelonephritis, recurrent infection)

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | \*urinary tract infections/ or \*pyuria/ or \*bacteriuria/ or cystitis/ or cystitis, interstitial/ or pyelocystitis/ or exp Pyelonephritis/ | 51579 |
| 2 | (urinary tract infection$ or pyuria or bacteriuria or cystitis or cystitides or Pyelonephritides or Pyelonephritis).ti. | 28377 |
| 3 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$ or (interstitial adj3 (Cystitides or Cystitis)) or (uncomplicated adj2 cystitis)).ti,ab. | 3543 |
| 4 | 1 or 2 or 3 | 52653 |
| 5 | urinary tract infections/ or pyuria/ or bacteriuria/ | 45143 |
| 6 | exp recurrence/ or (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. or (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 745617 |
| 7 | 5 and 6 | 5073 |
| 8 | 4 or 7 | 53713 |
| 9 | limit 8 to (english language and humans) | 33169 |
| 10 | (child$ or pediatr$ or paediatr$).ti. | 846731 |
| 11 | 9 not 10 | 29939 |
| 12 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 958591 |
| 13 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$ or gestation or fetus$ or foetus$ or fetal$ or foetal$).ti. | 516554 |
| 14 | 12 or 13 | 1042308 |
| 15 | 11 and 14 | 1893 |
| 16 | Vulnerable populations/ or medically underserved area/ or Socioeconomic factors/ or Social segregation/ or Race factors/ or Race relations/ or Racism/ or Prejudice/ or Poverty/ or Social class/ or Healthcare disparities/ or Health status disparities/ or Poverty areas/ or Urban population/ or Rural Population/ or Ethnic groups/ or \*African Americans/ or \*Hispanic Americans/ or \*Asian Americans/ or homosexuality/ or homosexuality, female/ or bisexuality/ or "Sexual and Gender Minorities"/ or transgender persons/ or Health Services for Transgender Persons/ or transsexualism/ or exp sex reassignment procedures/ or \*insurance, health/ or medically uninsured/ or exp medicare/ or medicaid/ or medical assistance/ or national health insurance, united states/ or "patient protection and affordable care act"/ or health insurance exchanges/ | 562033 |
| 17 | (ethnic$ or race or racial$ or socio-economic or socioeconomic or Hispanic$ or Latino$ or Latina$ or Latinx or Asian American$ or insured or insurance or ((African or Black) adj3 American$)).ti. | 112684 |
| 18 | (equit$ or inequit$ or inequalit$ or disparit$ or equality or racis$ or prejudic$ or race-relat$ or disproportionate risk$ or systemic barrier$ or SES or SEP or sociodemographic$ or socio-demographic$ or income or wealth$ or poverty or educational level or (level adj education$) or educational attainment or well educated or better educated or unemploy$ or home owner$ or tenure or affluen$ or well off or better off or worse off or lesbian$ or gay$ or homosexual$ or bisexual$ or lgbt$ or sexual orientation or sex reassign$ or gender confirm$ or gender affirm$ or gender change or gender reassign$ or sex change or gender identity disorder$ or transgender$ or transsexual$ or gender identity or gender fluid$ or nonbinary or non-binary or gender nonconform$ or gender non-conform$ or uninsured or underinsured or under-insured or affordable care act).ti,ab. | 386128 |
| 19 | ((implicit adj3 bias) or ((bias or prejudic$ or racis$) and (unconcious$ or implicit$ or institutional$ or structural$ or dismantl$)) or ((social$ or socio-economic or socioeconomic or economic or structural or material) adj3 (advantage$ or disadvantage$ or exclude$ or exclusion or include$ or inclusion or status or position or gradient$ or hierarch$ or class$ or determinant$)) or (health adj3 (gap$ or gradient$ or hierarch$)) or (gender adj3 dysphor$)).ti,ab. | 117856 |
| 20 | 16 or 17 or 18 or 19 | 869242 |
| 21 | 15 and 20 | 70 |
| 22 | limit 21 to yr="2000 -Current" | 50 |

**PubMed search – April 29, 2021**

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | asymptomatic[tiab] AND bacteriuria[tiab] | 2,206 |
| 2 | pregnan\*[ti] OR labor\*[ti] OR parturition[ti] OR prenat\*[ti] OR postpart\*[ti] OR perinat\*[ti] OR antenat\*[ti] OR antepart\*[ti] OR intrapart\*[ti] OR peripart\*[ti] OR puerper\*[ti] OR obstet\*[ti] OR delivery[ti] | 596,146 |
| 3 | #1 AND #2 | 488 |
| 4 | english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb])) | 4,624,865 |
| 5 | #3 AND #4 | 52 |
| 6 | #3 AND #4from 2017 - 2021 | 26 |
| 7 | urinary tract infection\*[ti] OR pyuria[ti] OR bacteriuria[ti] OR cystitis[ti] or cystitides[ti] or Pyelonephritides[tiab] OR Pyelonephritis[ti] OR Painful Bladder Syndrome\*[tiab] OR Bladder Pain Syndrome\*[tiab] OR interstitial cystitis[tiab] OR uncomplicated cystitis[tiab] OR ((urinary tract infection\*[tiab] OR pyuria[tiab] OR bacteriuria[tiab] OR cystitis[tiab] or cystitides[tiab] or Pyelonephritides[tiab] OR Pyelonephritis[tiab]) AND (recur\*[tiab] OR reinfection\*[tiab] OR re-infection\*[tiab] OR reactivated infection\*[tiab] OR relaps\*[tiab] OR flare-up\*[tiab] OR flareup\*[tiab] or exacerbat\*[tiab])) | 38,092 |
| 8 | #2 AND #7 | 1,608 |
| 9 | Culture\*[ti] OR mri[ti] OR ct[ti] OR ultraso\*[ti] OR sonogr\*[ti] OR diagnos\*[ti] OR image\*[ti] OR imaging[ti] OR nitrite test\*[tiab] OR urinalysis[tiab] OR microscopic urine[tiab] OR urine microscopic[tiab] OR urine culture\*[tiab] OR urodynamic\*[tiab] OR cystoscop\*[tiab] OR cystourethroscopy\*[tiab] OR pyelogram\*[tiab] OR tomograph\*[tiab] OR magnetic resonance imag\*[tiab] OR urograph\*[tiab] OR dipstick\*[tiab] | 1,921,408 |
| 10 | #8 AND #9 | 371 |
| 11 | #10 AND #4 | 36 |
| 12 | #10 AND #4from 2000 - 2021 | 33 |
| 13 | (therap\*[ti] OR treat\*[ti] OR manage\*[ti] OR medication\*[ti] OR drug\*[ti] OR antibiotic\*[tiab] OR anti-biotic\*[tiab] OR antibacteria\*[tiab] OR anti-bacteria\*[tiab] OR antimicrob\*[tiab] OR anti-microb\*[tiab] OR Nitrofuran\*[tiab] OR Nitrofurantoin[tiab] OR Furadoine[tiab] OR Furantoin[tiab] OR Macrodantin[tiab] OR Furadantin[tiab] OR Furadantine[tiab] OR Furadonine[tiab] OR Furalan[tiab] OR Macrobid[tiab] OR Ampicillin[tiab] OR Amoxicillin\*[tiab] OR Azlocillin[tiab] OR Mezlocillin[tiab] OR Piperacillin[tiab] OR Piperacillin-Tazobactam[tiab] OR Pivampicillin[tiab] OR Talampicillin[tiab] OR Aminobenzylpenicillin[tiab] OR Aminobenzyl Penicillin[tiab] OR Pentrexy[tiab]l OR Polycillin[tiab] OR Ukapen[tiab] OR Amcill[tiab] OR Omnipen[tiab] OR Penbriti[tiab] OR Pfizerpen[tiab] OR Principen[tiab] OR Totacillin[tiab] OR penicillin\*[tiab] OR Amdinocillin[tiab] OR Cyclacillin[tiab] OR Methicillin[tiab] OR Nafcillin[tiab] OR Oxacillin[tiab] OR Cloxacillin[tiab] OR Penicillanic Acid[tiab] OR Tazobactam[tiab] OR Carbenicillin[tiab] OR Sulbenicillin[tiab] OR Sulbactam[tiab] OR Ticarcillin[tiab] OR Cephalexin[tiab] OR Cefaclor[tiab] OR Cefadroxil[tiab] OR Cefatrizine[tiab] OR Cephaloglycin[tiab] OR Cephradine[tiab] OR cefalexin[tiab] OR Ceporexine[tiab] OR Palitrex[tiab] OR Keflet[tiab] OR Keflex[tiab] OR Keftab[tiab] OR Panixine[tiab] OR (trimethoprim[tiab] AND sulfamethoxazole[tiab]) OR trimethoprim-sulfamethoxazole[tiab] OR Centrin[tiab] OR Cotrimoxazole[tiab] OR Eslectin[tiab] OR Insozalin[tiab] OR TMP-SMX[tiab] OR Trimezole[tiab] OR Co-Trimoxazole[tiab] OR Centran[tiab] OR Trimedin[tiab] OR Septrin[tiab] OR Trimethoprimsulfa[tiab] OR Bactifor[tiab] OR Sumetrolim[tiab] OR Abactrim[tiab] OR Bactrim[tiab] OR Biseptol\*[tiab] OR Drylin[tiab] OR Eusaprim[tiab] OR Kepinol[tiab] OR Lescot[tiab] OR Metomide[tiab] OR Oriprim[tiab] OR Septra[tiab] OR Sulprim[tiab] OR Trimosulfa[tiab] OR fluoroquinolone\*[tiab] OR Ciprofloxacin[tiab] OR Fleroxacin[tiab] OR Enoxacin[tiab] OR Enrofloxacin[tiab] OR Gatifloxacin[tiab] OR Gemifloxacin[tiab] OR Moxifloxacin[tiab] OR Norfloxacin[tiab] OR Ofloxacin[tiab] OR Levofloxacin[tiab] OR Pefloxacin[tiab] OR cipro[tiab] OR proquin[tiab] OR Penetrex[tiab] OR factive[tiab] OR avelox[tiab] OR floxin[tiab] OR levaquin[tiab] OR cephalosporin\*[tiab] OR Cephalosporanic Acid[tiab] OR Cefamandole[tiab] OR Cefoperazone[tiab] OR Cefazolin[tiab] OR Cefdinir[tiab] OR Cefepime[tiab] OR Cefonicid[tiab] OR Cefsulodin[tiab] OR Ceftibuten[tiab] OR Cefuroxime[tiab] OR Cephacetrile[tiab] OR Cefotaxime[tiab] OR Cephalothin[tiab] OR Cephapirin[tiab] OR Cefaclor[tiab] OR Cefadroxil[tiab] OR Cephaloglycin[tiab] OR Cephradine[tiab] OR Cephaloridine[tiab] OR Ceftazidime[tiab] OR Cephamycins[tiab] OR Cefmetazole[tiab] OR Cefotetan[tiab] OR Cefoxitin[tiab]) | 362,076 |
| 14 | #8 AND #13 | 151 |
| 15 | #14 AND #4 | 27 |
| 16 | #14 AND #4from 2000 - 2021 | 26 |
| 17 | equit\*[tiab] OR inequit\*[tiab] OR inequalit\*[tiab] OR disparit\*[tiab] OR equality[tiab] OR ethnic\*[tiab] OR race[tiab] OR racial\*[tiab] OR racis\*[tiab] OR prejudic\*[tiab] OR race-relat\*[tiab] OR disproportionate risk[tiab] OR systemic barrier\*[tiab] OR health gap\*[tiab] OR health gradient\*[tiab] OR health hierarch\*[tiab] OR SES[tiab] OR SEP[tiab] OR sociodemographic\*[tiab] OR socio-demographic\*[tiab] OR income[tiab] OR wealth\*[tiab] OR poverty[tiab] OR educational level[tiab] OR "level of education"[tiab] OR educational attainment[tiab] OR well educated[tiab] OR better educated[tiab] OR unemploy\*[tiab] OR home owner\*[tiab] OR tenure[tiab] OR affluen\*[tiab] OR well off[tiab] OR better off[tiab] OR worse off[tiab] OR social\*[ti] OR socio-economic[ti] OR socioeconomic[ti] OR economic[ti] OR structural[ti] OR material[ti] OR African American\*[tiab] OR Black[ti] OR Black American\*[tiab] OR Hispanic\*[tiab] OR Latino\*[tiab] OR Latina\*[tiab] OR Latinx[tiab] OR Asian American\*[tiab] OR poverty[tiab] OR disparit\*[tiab] OR urban[tiab] OR rural[tiab] OR vulnerable[tiab] OR underserved[tiab] OR uninsured[tiab] OR underinsured[tiab] OR under-insured[tiab] OR affordable care act[tiab] OR insured[tiab] OR insurance[tiab] OR lesbian\*[tiab] or gay\*[tiab] or homosexual\*[tiab] or bisexual\*[tiab] or lgbt\*[tiab] or sexual orientation[tiab] or sex reassign\*[tiab] or gender confirm\*[tiab] or gender affirm\*[tiab] or gender change[tiab] or gender reassign\*[tiab] or sex change[tiab] or gender identity disorder\*[tiab] or transgender\*[tiab] or transsexual\*[tiab] or gender identity[tiab] or gender fluid\*[tiab] or nonbinary[tiab] or non-binary[tiab] or gender nonconform\*[tiab] or gender non-conform\*[tiab] OR gender dysphor\*[tiab] OR ((bias[tiab] or prejudic\*[tiab] or racis\*[tiab]) AND (unconcious\*[tiab] or implicit\*[tiab] or institutional\*[tiab] or structural\*[tiab] or dismantl\*[tiab])) OR ((social\*[tiab] or socio-economic[tiab] or socioeconomic[tiab] or economic[tiab] or structural[tiab] or material[tiab]) AND (advantage\*[tiab] or disadvantage\*[tiab] or exclude\*[tiab] or exclusion[tiab] or include\*[tiab] or inclusion[tiab] or status[tiab] or position[tiab] or gradient\*[tiab] or hierarch\*[tiab] or class\*[tiab] or determinant\*[tiab])) | 1,886,742 |
| 18 | #8 AND #17 | 107 |
| 19 | #18 AND #4 | 15 |

**Additional searches**

**Database:** Ovid MEDLINE(R) <1946 to September Week 3 2021>

**Sickle cell trait/disease related to pyelonephritis, asymptomatic bacteriuria, and UTI in pregnancy**

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | bacteriuria/ and (asymptomatic infections/ or asymptomatic.ti,ab.) | 1421 |
| 2 | (asymptomatic adj3 bacteriuria).ti,ab. | 1793 |
| 3 | 1 or 2 | 1996 |
| 4 | urinary tract infections/ or pyuria/ or bacteriuria/ or cystitis/ or cystitis, interstitial/ or pyelocystitis/ or exp Pyelonephritis/ | 65922 |
| 5 | (urinary tract infection$ or pyuria or bacteriuria or cystitis or cystitides or Pyelonephritides or Pyelonephritis).ti,ab. | 59803 |
| 6 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$ or (interstitial adj3 (Cystitides or Cystitis)) or (uncomplicated adj2 cystitis)).ti,ab. | 3641 |
| 7 | 4 or 5 or 6 | 85813 |
| 8 | urinary tract infections/ or pyuria/ or bacteriuria/ | 45923 |
| 9 | exp recurrence/ or (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. or (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 770999 |
| 10 | 8 and 9 | 5211 |
| 11 | 3 or 7 or 10 | 85813 |
| 12 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 979814 |
| 13 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 436386 |
| 14 | 12 or 13 | 1035251 |
| 15 | 11 and 14 | 5321 |
| 16 | limit 15 to (english language and humans) | 3578 |
| 17 | exp Anemia, Sickle Cell/ or sickle cell trait/ or (Sickle Cell\* or Hemoglobin S Disease).ti,ab. | 27417 |
| 18 | 16 and 17 | 50 |

**Database: Ovid MEDLINE(R)** <1946 to September Week 3 2021>

**Pyelonephritis diagnosis and epidemiology**

|  |  |  |
| --- | --- | --- |
| 1 | exp pyelonephritis/ or pyelonephr$.ti. | 14904 |
| 2 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 979814 |
| 3 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 436386 |
| 4 | 2 or 3 | 1035251 |
| 5 | 1 and 4 | 1331 |
| 6 | limit 5 to (english language and humans) | 678 |
| 7 | Diagnostic Techniques, Urological/ or Urinalysis/ or colony count, microbial/ or leukocyte count/ or enzyme linked immunosorbent assay/ or urodynamics/ or cystoscopy/ or Ultrasonography/ or Urography/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or Diagnostic Imaging/ | 1243422 |
| 8 | (culture$ or mri or ct or ultraso$ or sonogr$ or diagnos$ or image$ or imaging).ti. or (nitrite test or urinalysis or microscopic urine or urine microscopic or urine culture or urodynamics or cystoscop$ or cystourethroscop$ or pyelogra$ or tomograph$ or magnetic resonance imag$ or urograph$ or dipstick$).ti,ab. | 1668247 |
| 9 | Epidemiology/ | 12513 |
| 10 | (epidemiol$ or incidence or prevalence).ti. | 329228 |
| 11 | exp clinical laboratory techniques/ or diagnosis, differential/ or "diagnostic techniques and procedures"/ or diagnostic tests routine/ or diagnosis/ or diagnos$.ti. | 3466365 |
| 12 | 7 or 8 or 9 or 10 or 11 | 5165371 |
| 13 | 6 and 12 | 221 |
| 14 | limit 13 to yr="1970 - 2000" | 111 |

**Database; Ovid MEDLINE(R)** <1946 to September Week 3 2021>

**Maternal renal anomalies and UTIs**

|  |  |  |
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| **Line** | **Search** | **Results** |
| 1 | bacteriuria/ and (asymptomatic infections/ or asymptomatic.ti,ab.) | 1421 |
| 2 | (asymptomatic adj3 bacteriuria).ti,ab. | 1793 |
| 3 | 1 or 2 | 1996 |
| 4 | urinary tract infections/ or pyuria/ or bacteriuria/ or cystitis/ or cystitis, interstitial/ or pyelocystitis/ or exp Pyelonephritis/ | 65922 |
| 5 | (urinary tract infection$ or pyuria or bacteriuria or cystitis or cystitides or Pyelonephritides or Pyelonephritis).ti,ab. | 59803 |
| 6 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$ or (interstitial adj3 (Cystitides or Cystitis)) or (uncomplicated adj2 cystitis)).ti,ab. | 3641 |
| 7 | 4 or 5 or 6 | 85813 |
| 8 | urinary tract infections/ or pyuria/ or bacteriuria/ | 45923 |
| 9 | exp recurrence/ or (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. or (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 770999 |
| 10 | 8 and 9 | 5211 |
| 11 | 3 or 7 or 10 | 85813 |
| 12 | obstetrics/ or pregnancy/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or postpartum period/ or postnatal care/ or maternal health services/ | 979814 |
| 13 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or postpart$ or postnat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or post-part$ or post-nat$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 436386 |
| 14 | 12 or 13 | 1035251 |
| 15 | 11 and 14 | 5321 |
| 16 | limit 15 to (english language and humans) | 3578 |
| 17 | ((kidney$ or renal$) adj3 (anomal$ or abnormal$)).ti. | 1665 |
| 18 | \*kidney/ab or kidney transplantation/ or fused kidney/ or multicystic displastic kidney/ or nephritis, hereditary/ or solitary kidney/ | 108525 |
| 19 | kidney/ or kidney diseases/ | 343212 |
| 20 | abnormalities, multiple/ or congenital abnormalities/ or urogenital abnormalities/ or (abnormal$ or anomal$).ti. | 189370 |
| 21 | 19 and 20 | 6603 |
| 22 | 17 or 18 or 21 | 112644 |
| 23 | 16 and 22 | 120 |
| 24 | (infant$ or newborn$ or neonat$ or child$ or pediatr$ or paediatr$).ti. | 1187492 |
| 25 | 23 not 24 | 108 |

**PubMed searches – September 27, 2021**

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | asymptomatic[tiab] AND bacteriuria[tiab] | 2,255 |
| 2 | urinary tract infection\*[ti] OR pyuria[ti] OR bacteriuria[ti] OR cystitis[ti] or cystitides[ti] or Pyelonephritides[tiab] OR Pyelonephritis[ti] OR Painful Bladder Syndrome\*[tiab] OR Bladder Pain Syndrome\*[tiab] OR interstitial cystitis[tiab] OR uncomplicated cystitis[tiab] OR ((urinary tract infection\*[tiab] OR pyuria[tiab] OR bacteriuria[tiab] OR cystitis[tiab] or cystitides[tiab] or Pyelonephritides[tiab] OR Pyelonephritis[tiab]) AND (recur\*[tiab] OR reinfection\*[tiab] OR re-infection\*[tiab] OR reactivated infection\*[tiab] OR relaps\*[tiab] OR flare-up\*[tiab] OR flareup\*[tiab] or exacerbat\*[tiab])) | 38,811 |
| 3 | #1 OR #2 | 39,346 |
| 4 | pregnan\*[ti] OR labor\*[ti] OR parturition[ti] OR prenat\*[ti] OR postpart\*[ti] OR perinat\*[ti] OR antenat\*[ti] OR antepart\*[ti] OR intrapart\*[ti] OR peripart\*[ti] OR puerper\*[ti] OR obstet\*[ti] OR delivery[ti] | 609,026 |
| 5 | #3 AND #4 | 1,714 |
| 6 | english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb])) | 4,613,032 |
| 7 | #5 AND #6 | 144 |
| 8 | sickle cell[tiab] | 26,548 |
| 9 | #7 AND #8 | 2 |
| 10 | (kidney\*[tiab] OR renal\*[tiab]) AND (abnormal\*[tiab] or anomal\*[tiab]) | 52,272 |
| 11 | #7 AND #10 | 2 |
| 12 | Pyelonephritides[tiab] OR Pyelonephritis[tiab] | 14,117 |
| 13 | Culture\*[ti] OR mri[ti] OR ct[ti] OR ultraso\*[ti] OR sonogr\*[ti] OR diagnos\*[ti] OR image\*[ti] OR imaging[ti] OR nitrite test\*[tiab] OR urinalysis[tiab] OR microscopic urine[tiab] OR urine microscopic[tiab] OR urine culture\*[tiab] OR urodynamic\*[tiab] OR cystoscop\*[tiab] OR cystourethroscopy\*[tiab] OR pyelogram\*[tiab] OR tomograph\*[tiab] OR magnetic resonance imag\*[tiab] OR urograph\*[tiab] OR dipstick\*[tiab] OR epidemiol\*[ti] OR incidence\*[ti] OR prevalen\*[ti] | 2,332,165 |
| 14 | #12 AND #4 | 896 |
| 15 | #13 AND #14 | 181 |
| 16 | #15 AND #6 | 17 |

**Bridge Search**

**May 2022\_2021-Current**

|  |  |  |
| --- | --- | --- |
| 1 | urinary tract infections/ or pyuria/ | 42937 |
| 2 | (urinary tract infection$ or pyuria).ti. | 15450 |
| 3 | (bacteriuria/ or bacteriuria.ti.) not asymptomatic.ti. | 7102 |
| 4 | 1 or 2 or 3 | 47360 |
| 5 | cystitis/ or cystitis, interstitial/ or pyelocystitis/ | 10452 |
| 6 | (cystitis or cystitides).ti. | 5859 |
| 7 | (interstitial adj3 (Cystitides or Cystitis)).ti,ab. | 3251 |
| 8 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$).ti,ab. | 1340 |
| 9 | 5 or 6 or 7 or 8 | 11199 |
| 10 | exp Pyelonephritis/ | 15005 |
| 11 | (Pyelonephritides or Pyelonephritis).ti,ab. | 12429 |
| 12 | 10 or 11 | 18929 |
| 13 | bacteriuria/ and asymptomatic.ti,ab. | 1480 |
| 14 | (asymptomatic adj3 bacteriuria).ti,ab. | 1900 |
| 15 | 13 or 14 | 2088 |
| 16 | exp recurrence/ | 198890 |
| 17 | (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. | 765602 |
| 18 | (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 3956 |
| 19 | 16 or 17 or 18 | 835257 |
| 20 | 4 and 19 | 5501 |
| 21 | obstetrics/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or maternal health services/ | 587462 |
| 22 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 428030 |
| 23 | 21 or 22 | 747751 |
| 24 | 4 or 9 or 12 or 15 or 20 | 72047 |
| 25 | 23 and 24 | 3799 |
| 26 | limit 25 to (english language and humans) | 2417 |
| 27 | limit 26 to yr="2021 -Current" | 88 |
| 28 | 15 and 23 | 566 |
| 29 | limit 28 to (english language and humans) | 416 |
| 30 | limit 29 to yr="2021 -Current" | 16 |

**Bridge Search**

**Database:** Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review &

Other Non-Indexed Citations, Daily and Versions <1946 to April 19, 2023>

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | urinary tract infections/ or pyuria/ | 43240 |
| 2 | (urinary tract infection$ or pyuria).ti. | 17551 |
| 3 | (bacteriuria/ or bacteriuria.ti.) not asymptomatic.ti. | 7183 |
| 4 | 1 or 2 or 3 | 49689 |
| 5 | cystitis/ or cystitis, interstitial/ or pyelocystitis/ | 10525 |
| 6 | (cystitis or cystitides).ti. | 6731 |
| 7 | (interstitial adj3 (Cystitides or Cystitis)).ti,ab. | 3758 |
| 8 | (Painful Bladder Syndrome$ or Bladder Pain Syndrome$).ti,ab. | 1677 |
| 9 | 5 or 6 or 7 or 8 | 12301 |
| 10 | exp Pyelonephritis/ | 15045 |
| 11 | (Pyelonephritides or Pyelonephritis).ti,ab. | 13662 |
| 12 | 10 or 11 | 20163 |
| 13 | bacteriuria/ and asymptomatic.ti,ab. | 1490 |
| 14 | (asymptomatic adj3 bacteriuria).ti,ab. | 2195 |
| 15 | 13 or 14 | 2383 |
| 16 | exp recurrence/ | 199961 |
| 17 | (recur$ or reinfection$ or re-infection$ or reactivated infection$ or relaps$ or flare up$1 or flareup$).ti,ab. | 902872 |
| 18 | (Symptom adj3 (exacerbation$ or increas$ or magnification$ or worsen$ or exaggeration$)).ti,ab. | 4704 |
| 19 | 16 or 17 or 18 | 973355 |
| 20 | 4 and 19 | 5938 |
| 21 | obstetrics/ or pregnant women/ or exp pregnancy complications/ or exp pregnancy outcome/ or exp pregnancy, high risk/ or prenatal care/ or perinatal care/ or exp labor, obstetric/ or exp labor presentation/ or exp parturition/ or maternal health services/ | 592993 |
| 22 | (antenat$ or prenat$ or antepart$ or intrapart$ or peripart$ or perinat$ or ante-nat$ or pre-nat$ or ante-part$ or intra-part$ or peri-part$ or peri-nat$ or puerper$ or obstetric$ or pregnan$ or matern$).ti. | 476381 |
| 23 | 21 or 22 | 798593 |
| 24 | 4 or 9 or 12 or 15 or 20 | 76662 |
| 25 | 23 and 24 | 3947 |
| 26 | limit 25 to (english language and humans) | 2425 |
| 27 | limit 26 to yr="2022 -Current" | 50 |
| 28 | 15 and 23 | 618 |
| 29 | limit 28 to (english language and humans) | 416 |
| 30 | limit 29 to yr="2022 -Current" | 9 |
| 31 | 27 or 30 | 50 |
| 32 | child/ or child$.ti,ab. | 2571104 |
| 33 | 31 not 32 | 39 |

**Database: PubMed (searched April 21, 2023)**

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | asymptomatic[tiab] AND bacteriuria[tiab] | 2,412 |
| 2 | urinary tract infection\*[ti] OR pyuria[ti] OR bacteriuria[ti] OR cystitis[ti] OR Pyelonephritides[tiab] OR Pyelonephritis[ti] OR Painful Bladder Syndrome\*[tiab] OR Bladder Pain Syndrome\*[tiab] OR interstitial cystitis[tiab] OR uncomplicated cystitis[tiab] OR ((urinary tract infection\*[tiab] OR pyuria[tiab] OR bacteriuria[tiab] OR cystitis[tiab] or cystitides[tiab] or Pyelonephritides[tiab] OR Pyelonephritis[tiab]) AND (recur\*[tiab] OR reinfection\*[tiab] OR re-infection\*[tiab] OR reactivated infection\*[tiab] OR relaps\*[tiab] OR flare-up\*[tiab] OR flareup\*[tiab] or exacerbat\*[tiab])) | 41,401 |
| 3 | 1 or 2 | 41,974 |
| 4 | pregnan\*[ti] OR labor\*[ti] OR parturition[ti] OR prenat\*[ti] OR postpart\*[ti] OR perinat\*[ti] OR antenat\*[ti] OR antepart\*[ti] OR intrapart\*[ti] OR peripart\*[ti] OR puerper\*[ti] OR obstet\*[ti] OR delivery[ti] | 658,684 |
| 5 | 3 and 4 | 1,784 |
| 6 | english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb])) - Saved search | 5,127,191 |
| 7 | 5 and 6 | 157 |
| 8 | sickle cell[tiab] | 28,777 |
| 9 | 7 and 8 | 1 |
| 10 | (kidney\*[tiab] OR renal\*[tiab]) AND (abnormal\*[tiab] or anomal\*[tiab]) | 56,150 |
| 11 | 7 and 10 | 1 |
| 12 | Pyelonephritides[tiab] OR Pyelonephritis[tiab] | 14,674 |
| 13 | Culture\*[ti] OR mri[ti] OR ct[ti] OR ultraso\*[ti] OR sonogr\*[ti] OR diagnos\*[ti] OR image\*[ti] OR imaging[ti] OR nitrite test\*[tiab] OR urinalysis[tiab] OR microscopic urine[tiab] OR urine microscopic[tiab] OR urine culture\*[tiab] OR urodynamic\*[tiab] OR cystoscop\*[tiab] OR cystourethroscopy\*[tiab] OR pyelogram\*[tiab] OR tomograph\*[tiab] OR magnetic resonance imag\*[tiab] OR urograph\*[tiab] OR dipstick\*[tiab] OR epidemiol\*[ti] OR incidence\*[ti] OR prevalen\*[ti] | 2,550,861 |
| 14 | 12 and 4 | 929 |
| 15 | 13 and 14 | 191 |
| 16 | ((Culture\*[ti] OR mri[ti] OR ct[ti] OR ultraso\*[ti] OR sonogr\*[ti] OR diagnos\*[ti] OR image\*[ti] OR imaging[ti] OR nitrite test\*[tiab] OR urinalysis[tiab] OR microscopic urine[tiab] OR urine microscopic[tiab] OR urine culture\*[tiab] OR urodynamic\*[tiab] OR cystoscop\*[tiab] OR cystourethroscopy\*[tiab] OR pyelogram\*[tiab] OR tomograph\*[tiab] OR magnetic resonance imag\*[tiab] OR urograph\*[tiab] OR dipstick\*[tiab] OR epidemiol\*[ti] OR incidence\*[ti] OR prevalen\*[ti]) AND ((Pyelonephritides[tiab] OR Pyelonephritis[tiab]) AND (pregnan\*[ti] OR labor\*[ti] OR parturition[ti] OR prenat\*[ti] OR postpart\*[ti] OR perinat\*[ti] OR antenat\*[ti] OR antepart\*[ti] OR intrapart\*[ti] OR peripart\*[ti] OR puerper\*[ti] OR obstet\*[ti] OR delivery[ti]))) AND ("english"[Language] AND ("publisher"[Filter] OR "inprocess"[Filter] OR "pubmednotmedline"[Filter] OR ("pubstatusnihms"[All Fields] AND "publisher"[Filter]) OR ("pubstatuspmcsd"[All Fields] AND "publisher"[Filter]))) | 18 |
| 17 | From 2022 - 2023 | 2 |