Literature Search

ACR Appropriateness Criteria®

Suspected Osteomyelitis of the Foot in Patients with Diabetes Mellitus

Literature Search Performed on: 01/23/2024

Beginning Date: January 2017

End Date: December 2023

Database: Ovid MEDLINE(R) ALL <1946 to January 19, 2024>

Search Strategy

1 Diabetic Foot/ (11730)

2 (Osteomyelitis/ or (ulcer* or sore* or infect* or necros* or necrotic or gangrene* or cellulitis or osteomyelitis).ti,kf.) and (instrumentation or hardware or implant).ti,kf. (2867)

3 (pedal or foot or feet or forefoot or tarsals or metatarsals or phalanges or hallux or hindfoot or talus or calcaneus or midfoot or navicular or cuboid or cuneiform* or ankle or subtalar or talocalcaneal or talonavicular or calcaneocuboid or tarsometatarsal or intermetatarsal or metatarsophalangeal).ti,kf. (95189)

4 1 or (2 and 3) (11760)

5 4 and (diagnosi* or Imaging or image* or diagnostic imaging or diagnostic or radiolog* or radiograph* or xray* or x-ray* or contrast or tomograph* or CT or CT scan* or CAT scan* or magnetic resonance or MRI or DWI or DCE or chemical shift or nuclear medicine or radionuclide* or radioisotope* or SPECT* or scintigraph* or HMPAO or leukocyte* scan or wbc scan or indium* or technetium or 99m or white blood cell scan or bone scan or 3phase or 3 phase or three phase or sulfur colloid or sulphur colloid or marrow scan or gallium or PET scan* or pet ct or pet mr* or positron emission or fdg or fluorodeoxyglucose or biops*).ti. (680)

6 4 and (exp *Diagnostic imaging/ or exp biopsy/) (438)

7 (MSK infection* or Musculoskeletal infection* or bone infection* charcot* or diabetic foot).ti. (7720)

8 ((ulcer* or sore* or infect* or necros* or necrotic or gangrene* or cellulitis or osteomyelitis) and (pedal or foot or feet or forefoot or tarsals or metatarsals or phalanges or hallux or hindfoot or talus or calcaneus or midfoot or navicular or cuboid or cuneiform* or ankle or subtalar or talocalcaneal or talonavicular or calcaneocuboid or tarsometatarsal or intermetatarsal or metatarsophalangeal or joint)).ti. (14082)

9 (7 or 8) and (diagnosi* or Imaging or image* or diagnostic imaging or diagnostic or radiolog* or radiograph* or xray* or x-ray* or contrast or tomograph* or CT or CT scan* or CAT scan* or magnetic resonance or MRI or DWI or DCE or chemical shift or nuclear medicine or radionuclide* or radioisotope* or SPECT* or scintigraph* or HMPAO or leukocyte* scan or wbc scan or indium* or technetium or 99m or white blood cell scan or bone scan or 3phase or 3 phase or three phase or sulfur colloid or sulphur colloid or marrow scan or gallium or PET scan* or pet ct or pet mr* or positron emission or fdg or fluorodeoxyglucose or biops*).ti. (1707)

10 *Diabetic Foot/di, dg or *Arthropathy, Neurogenic/di, dg or *Osteomyelitis/di, dg or *Arthroplasty, Replacement, Ankle/di, dg (4547)

11 ((Osteomyelitis and (pedal or foot or diabet*)) or (Diabet* and (foot or infection or charcot or arthropathy)) or (Charcot and (foot or arthropathy or joint)) or (infection and (msk or musculoskeletal))).ti. (13082)

12 10 and 11 and (diagnosi* or Imaging or image* or diagnostic imaging or diagnostic or radiolog* or radiograph* or xray* or x-ray* or contrast or tomograph* or CT or CT scan* or CAT scan* or magnetic resonance or MRI or DWI or DCE or chemical shift or nuclear medicine or radionuclide* or radioisotope* or SPECT* or scintigraph* or HMPAO or leukocyte* scan or wbc scan or indium* or technetium or 99m or white blood cell scan or bone scan or 3phase or 3 phase or three phase or sulfur colloid or sulphur colloid or marrow scan or gallium or PET scan* or pet ct or pet mr* or positron emission or fdg or fluorodeoxyglucose or biops*).ab. (459)

13 (foot and bone and biopsy and osteomyelitis).ti,kf. or (exp foot bones/ and Osteomyelitis/ and exp biopsy/) (49)

14 5 or 6 or 9 or 12 or 13 (2295)

15 limit 14 to (abstracts and english language and yr="2017 -Current") (972)

16 limit 15 to (children or children-focused) [Limit not valid in Ovid MEDLINE(R); records were retained] (37)

17 15 not 16 (935)

18 limit 17 to (address or autobiography or bibliography or biography or case reports or dataset or dictionary or directory or festschrift or interview) (47)

19 17 not 18 (888)

20 limit 19 to animals (12)

21 19 not 20 (876)

22 21 not ((animal or animals or canine* or dog or dogs or feline or hamster* or lamb or lambs or mice or monkey or monkeys or mice or mouse or murine or pig or piglet* or pigs or porcine or primate* or rabbit* or rat or rats or rodent* or sheep* or swine or horse* or stallion* or chick*3 or veterinar* or rooster* or snake* or theriogenolog* or (vitro not vivo)) not (human* or patient*)).ti,so. (875)

23 Diabetic Foot/ or Osteomyelitis/ or ((Osteomyelitis and (foot or diabet*)) or (Diabet* and (foot or infection or charcot or arthropathy)) or (Charcot and (foot or arthropathy or joint)) or (infection and (msk or musculoskeletal))).tw,kf. (79572)

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24 ("consensus development conference" or "practice guideline").pt. or "guidelines as topic"/ or Societies, Medical/ or exp consensus/ or exp "practice guidelines as topic"/ or ("appropriate use criteria" or "best practice*" or consensus or "expert opinion*" or guidance or guideline* or policy or "position paper*" or "practice bulletin*" or recommended or recommendation* or statement*).ti. (462848)

25 (diagnosi* or Imaging or image* or diagnostic imaging or diagnostic or radiolog* or radiograph* or xray* or x-ray* or contrast or tomograph* or CT or CT scan* or CAT scan* or magnetic resonance or MRI or DWI or DCE or chemical shift or nuclear medicine or radionuclide* or radioisotope* or SPECT* or scintigraph* or HMPAO or leukocyte* scan or wbc scan or indium* or technetium or 99m or white blood cell scan or bone scan or 3phase or 3 phase or three phase or sulfur colloid or sulphur colloid or marrow scan or gallium or PET scan* or pet ct or pet mr* or positron emission or fdg or fluorodeoxyglucose or biops*).tw,kf,ab. (7154140)

26 23 and 24 and 25 (362)

27 limit 26 to (english language and yr="2017 -Current") (165)

28 limit 27 to animals (2)

29 27 not 28 (163)

30 limit 29 to (children or children-focused) [Limit not valid in Ovid MEDLINE(R); records were retained] (30)

31 29 not 30 (133)

32 22 or 31 (989)

33 ((hip or knee).mp. and 32) not (pedal or foot or feet or forefoot or tarsals or metatarsals or phalanges or hallux or hindfoot or talus or calcaneus or midfoot or navicular or cuboid or cuneiform* or ankle or subtalar or talocalcaneal or talonavicular or calcaneocuboid or tarsometatarsal or intermetatarsal or metatarsophalangeal).tw,kf. (303)

34 32 not 33 (686)

35 34 and (biomarkers/ or Procalcitonin/ or Calcitonin/ or C-Reactive Protein/ or Carotid Artery Diseases/ or (prosthetic joint infection or periprosthetic joint infection or biomarker* or marker* or procalcitonin or Micrococcal).ti,kf.) (197)

36 35 and (exp biopsy/ or (Imaging or image* or diagnostic imaging or radiolog* or radiograph* or xray* or x-ray* or contrast or tomograph* or CT or CT scan* or CAT scan* or magnetic resonance or MRI or DWI or DCE or chemical shift or nuclear medicine or radionuclide* or radioisotope* or SPECT* or scintigraph* or HMPAO or leukocyte* scan or wbc scan or indium* or technetium or 99m or white blood cell scan or bone scan or 3phase or 3 phase or three phase or sulfur colloid or sulphur colloid or marrow scan or gallium or PET scan* or pet ct or pet mr* or positron emission or fdg or fluorodeoxyglucose or biops*).ti,kf.) (30)

37 (34 not 35) or 36 (519)

Summary

Source	#Unique Refs	#Retained Refs
Old bibliography	55	41
Literature Search(es)	516	19
Author Added	21	16
Supporting Docs	5	3
Total		79

References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.