

**Literature Search Summary**  
**ACR Appropriateness Criteria®**  
**Multiple Gestations**

Literature Search Performed on: 2/9/2017

Beginning Date: January 2014

End Date: January 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 exp Twins/ (24792)
  - 2 Pregnancy, Multiple/ or multiple gestations.mp. (9475)
  - 3 fetal echocardiography.mp. (1484)
  - 4 echocardiog\*.mp. (167901)
  - 5 fetal.mp. (326344)
  - 6 4 and 5 (4747)
  - 7 (1 or 2) and (3 or 6) (94)
  - 8 limit 7 to case reports (23)
  - 9 7 not 8 (71)
  - 10 limit 9 to (abstracts and english language and yr="2014 -Current") (8)
  - 11 Diseases in Twins/ (13312)
  - 12 exp Echocardiography/ (116074)
  - 13 Ultrasonography, Prenatal/ (27838)
  - 14 11 and (12 or 13) (542)
  - 15 Pregnancy/ (797900)
  - 16 14 and 15 (472)
  - 17 Fetofetal Transfusion/ (1804)
  - 18 16 and 17 (78)
  - 19 10 or 18 (86)
  - 20 remove duplicates from 19 (85)

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Literature Search Performed on: 3/24/2016

Beginning Date: January 2013

End Date: February 2016

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 Twins, Monozygotic/ or Twins/ or Twins, Dizygotic/ (24101)
  - 2 exp Ultrasonography, Prenatal/ (27200)
  - 3 exp Ultrasonography/ (268481)
  - 4 2 or 3 (268481)
  - 5 multiple pregnancy.mp. or \*Pregnancy, Multiple/ (6791)
  - 6 1 or 5 (28136)
  - 7 multiple gestations.mp. (871)
  - 8 5 or 7 (7368)
  - 9 4 and 8 (981)
  - 10 limit 9 to (abstracts and english language and humans and yr="2013 -Current") (47)
  - 11 limit 10 to case reports (4)
  - 12 10 not 11 (43)
  - 13 remove duplicates from 12 (43)
  - 14 multiple gestation\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (1662)

- 15 multiple pregnanc\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (4075)
- 16 exp Pregnancy, Multiple/ (10002)
- 17 exp Ultrasonography/ (268481)
- 18 14 or 15 or 16 (13129)
- 19 17 and 18 (1806)
- 20 limit 19 to (abstracts and english language and humans and yr="2014 -Current") (117)
- 21 limit 20 to case reports (17)
- 22 20 not 21 (100)
- 23 remove duplicates from 22 (100)
- 24 13 or 23 (114)
- 25 remove duplicates from 23 (100)

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Literature Search Performed on: 2/11/2014  
 Beginning Date: January 2010  
 End Date: January 2014

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily, Ovid MEDLINE(R) and Ovid OLDMEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 multiple gestation\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (1466)
  - 2 multiple pregnanc\*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (3688)
  - 3 exp Pregnancy, Multiple/ (8977)
  - 4 exp Ultrasonography/ (242998)
  - 5 1 or 2 or 3 (11733)
  - 6 4 and 5 (1618)
  - 7 limit 6 to (abstracts and english language and humans and yr="2010 -Current") (167)
  - 8 limit 7 to case reports (41)
  - 9 7 not 8 (126)
  - 10 remove duplicates from 9 (126)

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Literature Search Performed on: 8/8/2013  
 Beginning Date: January 2010  
 End Date: July 2013

Database: Ovid MEDLINE(R), Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid OLDMEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 Twins, Monozygotic/ or Twins/ or Twins, Dizygotic/ (22506)
  - 2 exp Ultrasonography, Prenatal/ (24614)
  - 3 exp Ultrasonography/ (244372)
  - 4 2 or 3 (244372)
  - 5 multiple pregnancy.mp. or \*Pregnancy, Multiple/ (6556)
  - 6 1 or 5 (26332)
  - 7 multiple gestations.mp. (772)
  - 8 5 or 7 (7047)
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- 9 4 and 8 (935)
- 10 limit 9 to (abstracts and english language and humans and yr="2010 -Current") (56)
- 11 limit 10 to case reports (14)
- 12 10 not 11 (42)
- 13 remove duplicates from 12 (36)

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### **Literature Search Summary**

Of the 78 citations in the original bibliography, 39 were retained in the final document.

A literature search was conducted in August, 2013, February 2014, March 2016, and February 2017 to identify additional evidence published since the *ACR Appropriateness Criteria® Multiple Gestations* topic was finalized. Using the search strategies described above, 347 articles were found. Twenty articles were added to the bibliography. The remaining articles were not used due to either poor study design, the articles were not relevant or generalizable to the topic, or the results were unclear or biased.

The author added 42 citations from bibliographies, websites, or books that were not found in the literature searches, including 20 articles outside of the search date ranges.

Seven citations are supporting documents that were added by staff.