

1. PICO Question:

Population: Adults with advanced heart failure undergoing LVAD implantation

Intervention: LVAD

Comparison: patients receiving LVAD + tricuspid valve surgery (repair or replacement)

Outcomes: cardiopulmonary bypass time, early postoperative use of RVAD, renal failure, early mortality, postoperative length of stay and duration of inotropic support

2. Search Strategy:

Search strategy LVAD tricuspid 5/10/2014

Scopus

(TITLE-ABS-KEY((lvad* OR "left ventricular assist*" OR "heart assist devices" OR "heart mate" OR heartware) AND (tricuspid OR tvrpr OR tvr))) AND (procedure* OR replace* OR repair* OR annuloplast* OR prosth*)

Your query: ((TITLE-ABS-KEY(lvad* OR "heart assist" OR "left ventricular assist") AND TITLE-ABS-KEY(tricuspid* OR tvrpr OR tvr)) AND PUBYEAR > 1999) AND (trial* OR observ* OR series OR cohort* OR prospective* OR retrospective* OR compar* OR follow-up) AND (LIMIT-TO(LANGUAGE, "English"))

WoS

Topic=((lvad* or "heart assist" or "left ventricular assist") AND (tricuspid OR Tvrpr OR tvr)) 77
Timespan=2000-2014. Databases=SCI-EXPANDED.

Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present

Searches

- lvad*1.mp. or heart-assist devices/ or "heart assist".mp. or "left ventricular assist".mp.
- 1 [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept, rare disease supplementary concept, unique identifier]
- 2 tricuspid valve/su or tricuspid insufficiency/su
(tricuspid valve/ or tricuspid insufficiency/) and (annuloplast*.mp. or heart valve prosthesis/ or heart valve prosthesis implantation/ or repair*.mp. or replace*.mp. or tvrpr.mp. or tvr.mp.)
- 3 [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept, rare disease supplementary concept, unique identifier]
- 4 1 and (2 or 3)
1 and tricuspid*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept, rare disease supplementary concept, unique identifier]
- 5 1 and tricuspid*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept, rare disease supplementary concept, unique identifier]
- 6 limit 5 to (english language and yr="2000 - 2013")
- 7 4 or 6

Embase 1988 to 2014

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Searches

- lvad*1.mp. or heart-assist devices/ or "heart assist".mp. or "left ventricular assist".mp.
- 1 [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
 - 2 left ventricular assist device/
 - 3 1 or 2
 - 4 tricuspid valve/
 - 5 tricuspid valve disease/ or exp tricuspid valve regurgitation/ or exp tricuspid valve stenosis/
 - 6 tricuspid annuloplasty/
 - 7 tricuspid valve/su or (tricuspid valve disease/su or exp tricuspid valve regurgitation/su or exp tricuspid valve stenosis/su)
 - 8 tricuspid valve procedure/ or tricuspid valve replacement/ or 6 or tricuspid repair/
- (4 or 5 or tricuspid*.mp.) and (annuloplast*.mp. or heart valve prosthesis/ or heart valve prosthesis implantation/ or repair*.mp. or replace*.mp. or tvrpr.mp. or tvr.mp.) [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
- 9
 - 10 6 or 7 or 8 or 9
 - 11 3 and 10
 - 12 limit 11 to (english language and yr="2000 - 2014")