

1. SUMMARY OF THE ARTICLES SELECTED FOR THE ELABORATION OF THE ARTICLE.

Table S1. Filtered articles and their study variables.

| <i>Articles and authors</i>                                                                                                                                                                                                 | <i>Year</i> | <i>Results</i>                                                                                                                                                                                                   | <i>Level of evidence</i> |
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| <i>Deceased Donor Uterus Transplantation: A Narrative Review of the First 24 Published Cases.</i><br><i>Basilio Pecorino, Giuseppe Scibilia, Martina Ferrara, Pierfrancesco Veroux, Benito Chiofalo &amp; Paolo Scollo.</i> | 2024        | Review of 24 published articles on deceased donor uterus transplants. These transplants resulted in 12 live births with a 25% occurrence of graft loss during follow-up (6 of 24).                               | 1+                       |
| <i>What is the cure for absolute infertility? Biomedicalisation and routinisation of surrogacy and uterus transplantation in Nordic medical journals.</i><br><i>Lise Eriksson.</i>                                          |             | Investigation of 20 years of discursive struggles in Nordic medical journals around the process of legitimating and routinising gestational surrogacy and uterus transplantation in Finland and Sweden.          | 2+                       |
| <i>Procedures and technical considerations of robotic-assisted human uterus.</i><br><i>Lianghao Zhai, Jian Dong, Li Wei, Fuxing Zhou &amp; Biliang Chen</i>                                                                 | 2023        | Surgical experience and technical highlights of uterine transplantation using robotic surgery.<br><br>Description of the preoperative procedures, of both surgeries (donor and recipient) and organ preparation. | 1+                       |
| <i>Registry of the International Society of Uterus Transplantation: First Report.</i>                                                                                                                                       |             | Review of the 45 transplants from 2012 to 2020 from which 19 babies were born, between weeks 31 and 38, of 16 recipients (14 of which with LDs' organs).                                                         | 1+                       |

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| <i>Mats Brännström, Stefan G. Tullius, Sara Brucker, Pernilla Dahm-Kähler, Rebecca Flyckt, Iori Kisu, et al.</i>                                                                                                                                                                                       |  | Hysterectomy is performed in week 9.5 on average after delivery.                                                                                                                                                                      |    |
| <i>Immunosuppression in uterus transplantation: from transplant to delivery.</i><br><br><i>Giuseppe D'Amico, Luca Del Pretea, Bijan Eghtesad, Koji Hashimoto, Charles Miller, Andreas Tzakis, Cristiano Quintini &amp; Tommaso Falcone</i>                                                             |  | Description of the processes before (IVF, immunosuppressive tests and treatment) and after the transplant (embryo implantation, graft rejection, gestation and postpartum hysterectomy), together with the implantation surgery.      | 1+ |
| <i>Uterine allograft removal by total laparoscopic hysterectomy after successful cesarean delivery in a living-donor uterus recipient with uterovaginal agenesis (MRKHS).</i><br><br><i>Sara Yvonne Brucker, Bernhard Krämer, Harald Abele, Melanie Henes, Markus Hoopmann, Dorit Schöller, et al.</i> |  | First successful total hysterectomy performed by laparoscopy in a recipient after the birth of her newborn.<br><br>Description of the process that the recipient goes through, started in 2019 and concluding with the birth in 2021. | 1+ |
| <i>Graft Failure after Uterus Transplantation in 16 Recipients: A Review.</i><br><br><i>Iori Kisu, Risa Matsuda, Tetsuro Shiraishi, Ryoma Hayashi, Yusuke Matoba, Masato Tamate, et al.</i>                                                                                                            |  | Review of graft rejections which occurred after transplant interventions in Saudi Arabia, Sweden, the United States and the Czech Republic.                                                                                           | 1+ |
| <i>Living uterus donors' perceptions of decision-making and informed consent: a qualitative study of the Dallas Uterus Transplant Study participants.</i>                                                                                                                                              |  | Perceptions of the LDs and reason for their decision to be part of the process by donating their uterus.                                                                                                                              | 1+ |

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| <i>Anji E. Wall, Liza Johannesson, Vikrant Reddy, Ann Marie Warren, Elisa J. Gordon &amp; Giuliano Testa</i>                                                                                           |      |                                                                                                                                                                                                                                        |     |
| <i>Transgender Males as Potential Donors for Uterus Transplantation: A Survey.</i><br><br><i>Marie Carbonnel, Léa Karpel, Ninon Corruble, Sophie Legendri, Lucile Pencole, Bernard Cordier, et al.</i> |      | Assessment of trans men who had undergone a hysterectomy as potential donors (experience in organ removal, willingness to donate it...).                                                                                               | 2+  |
| <i>Pregnancy management and outcome after uterus transplantation.</i><br><br><i>I. Mendilcioglu, N. U. Dogan, O. Ozkan, M. Bahceci, K. Boynukalin, S. Dogan, et al.</i>                                | 2022 | 50 pregnancies with a result of 32 live newborns, without postnatal risks, all by caesarean section.<br><br>In nine of the gestations with favourable results, preeclampsia was diagnosed.<br><br>Risk of spontaneous abortion of 36%. | 2++ |
| <i>The Ethical Evolution of Uterus Transplantation From Concept to Clinical Procedure.</i><br><br><i>Briget Da Graca, Liza Johannesson, Giuliano Testa &amp; Anji E Wall</i>                           |      | Evolution of ethical considerations throughout the process.                                                                                                                                                                            | 1+  |
| <i>Uterine transplantation: A maternal-fetal medicine perspective.</i><br><br><i>Steven J. Ralston</i>                                                                                                 |      | Assessment of the principles of autonomy, beneficence and non-maleficence from the maternal-foetal perspective.                                                                                                                        | 1+  |

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| <p><i>The reproductive potential of uterus transplantation: future prospects.</i></p> <p><i>Andrea Etrusco, Manuela Fabio, Gaspare Cucinella, Claudio Rossi, Valentina Billone &amp; Giuseppe Gullo</i></p>                                              |  | <p>Use of "The Montreal Criteria" to determine the ethical feasibility of uterine transplantation (focused on the recipient, the donor and the medical team).</p> <p>Greater number of cases with LDs (27 compared to 11 in DDs).</p> <p>Embryo transfer between 3 and 12 months post-transplant.</p> <p>24 newborns after 62 transplants worldwide.</p> <p>Approach to the bioengineering of uterine tissue as an alternative due to the effects of immunosuppressants and graft rejection.</p> | 1+ |
| <p><i>Uterus Transplantation: Revisiting the Question of Deceased Donors versus Living Donors for Organ Procurement.</i></p> <p><i>Emily H. Frisch, Tommaso Falcone, Rebecca L. Flyckt, Andreas G. Tzakis, Eric Kodish &amp; Elliott G. Richards</i></p> |  | <p>Considerations from the ethical and medical point of view in favour of one type of donor or another.</p>                                                                                                                                                                                                                                                                                                                                                                                      | 1+ |
| <p><i>Evolving clinical challenges in uterus transplantation.</i></p> <p><i>Jean Marc Ayoubi, Marie Carbonnel, Catherine Racowsky, Dominique de Ziegler, Antonio Gargiulo, Niclas Kvarnström, et al.</i></p>                                             |  | <p>Need for surgery and associated risks on the three involved.</p> <p>Recipients whose process failed had lower scores in the psychological evaluation program.</p> <p>34 live and healthy newborns (no more than two successful pregnancies per recipient) through caesarean delivery at 34+3 weeks, on average.</p> <p>Average life of the transplant of six years.</p>                                                                                                                       | 1+ |

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|                                                                                                                                                                                                                                                                                |  | High risk of prematurity (recipients do not feel contractions, requiring close monitoring).                                                                                                                                                                                                                                                                                                                                                         |    |
| <p><i>The journey from infertility to uterus transplantation: A qualitative study of the perspectives of participants in the Dallas Uterus Transplant Study</i></p> <p>Anji E. Wall, Liza Johannesson, Monica Sok, Ann Marie Warren, Elisa J. Gordon &amp; Giuliano Testa</p>  |  | <p>Perceptions of the recipients after the diagnosis of infertility (emotional impact, affection in family and couple relationships, and change in their self-perception as a woman) and during their participation in the transplant (menstruation, gestation and psychological impact).</p> <p>Six participants are pregnant (one with their second baby), four with their newborn, six suffered early graft rejection and four awaiting IVF.</p> | 1+ |
| <p><i>Uterus transplantation: Lessons learned from a psychological perspective.</i></p> <p>Stina Järholm &amp; Ann Marie Warren</p>                                                                                                                                            |  | <p>Psychological challenge in relation to the sudden diagnosis and coping with physical changes (weight gain due to drug treatment, post-surgical process, menstruation...) and in their self-perception (feeling the same as other women as opposed to being “different” again after hysterectomy).</p>                                                                                                                                            | 1+ |
| <p><i>Strategic Planning and Essential Steps for Establishing a Uterine Transplant and Rehabilitation Program: From Idea to Reality.</i></p> <p>Amir H. Dorafshar, Alireza Hamidian Jahromi, Sydney R. Horen, Loren S. Schechter, Liza Johannesson, Giuliano Testa, et al.</p> |  | <p>Informed consents reviewed by the ethics committee for approval.</p> <p>Success of the process related to the establishment of protocols, knowledge of the literature and the specialists involved.</p>                                                                                                                                                                                                                                          | 1+ |

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| <p><i>The First 5 Years of Uterus Transplant in the US: A Report From the United States Uterus Transplant Consortium.</i></p> <p><i>Liza Johannesson, Elliott Richards, Vikrant Reddy, Jessica Walter, Kim Olthoff, Cristiano Quintini, et al.</i></p>     |  | <p>No cases of mortality of donors or recipients.</p> <p>Graft survival in 23 women one year later.</p> <p>21 newborns from 19 recipients (delivery at week 36+6, with an average weight of 2,860g), without detected congenital malformations.</p> <p>The most common complications in pregnant women were hypertension, gestational diabetes and preeclampsia; all with good management.</p> | 2+  |
| <p><i>Antepartum Care of the Uterus Transplant Patient: The Experience of 3 Successful US Centers.</i></p> <p><i>Uma C. Perni, Eileen Y. Wang &amp; Anthony R. Gregg</i></p>                                                                               |  | <p>Types of care that patients need during pregnancy (monitoring, possible complications...) and childbirth.</p>                                                                                                                                                                                                                                                                               | 3   |
| <p><i>A multi-institutional study of renal outcomes and renal-related pregnancy outcomes in uterus transplant recipients.</i></p> <p><i>Deirdre Sawinski, Liza Johannesson, Jakub Kristek, Jiri Fronek, Kathleen E. O'Neill, Anthony Gregg, et al.</i></p> |  | <p>All participants with at least one newborn, always by caesarean section.</p> <p>IVF 6 months after the transplant.</p> <p>Subjected to immunosuppressive treatment.</p> <p>Decreased glomerular filtration post-transplant.</p>                                                                                                                                                             | 2++ |

*Uterine transplantation as a treatment of absolute uterine factor infertility: systematic review.*

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| <p><i>Meeting Report: Third International Congress of the International Society of Uterus Transplantation, Tübingen.</i></p> <p><i>Mats Brännström, Stefan G. Tullius, Jiri Fronek &amp; Sara Y. Brucker</i></p>                                                        |  | <p>Summary about the third international congress, which took place in October 2021 in Germany.</p> <p>Updating of the data on uterine transplants performed to date.</p>                                                                       | 3  |
| <p><i>Directed and conditional uterus donation.</i></p> <p><i>Elisabeth Chloe Romanis &amp; Jordan A. Parsons</i></p>                                                                                                                                                   |  | <p>Assessment of the donation at the choice of the donor or according to the needs of the recipient.</p>                                                                                                                                        | 1+ |
| <p><i>Why uterine transplantation requires us to rethink the role of the preconception welfare principle.</i></p> <p><i>Laura O'Donovan</i></p>                                                                                                                         |  | <p>Limitations of transplantation as treatment of infertility, regulation in the United Kingdom and evaluation of the well-being of the newborn.</p>                                                                                            | 1+ |
| <p><i>Early initiation of embryo transfers after uterus transplantation to shorten the administration of immunosuppressive therapy.</i></p> <p><i>R. Chmel, M. Nováčková, M. Čekal, J. Matěcha &amp; Z. Pastor</i></p>                                                  |  | <p>Assessment of the start times of the first embryo transfer after the transplant.</p>                                                                                                                                                         | 1+ |
| <p><i>Reproductive, obstetric, and long-term health outcome after uterus transplantation: results of the first clinical trial.</i></p> <p><i>Mats Brännström, Pernilla Dahm-Kähler, Niclas Kvarnström, Anders Enskog, Jan I. Olofsson, Michael Olausson, et al.</i></p> |  | <p>Low levels of anxiety and depression, along with high levels of satisfaction when the baby was born after the transplant.</p> <p>Nine transplants with LDs' organs, seven of them successfully.</p> <p>IVF on days 2 and 5 of the cycle.</p> | 1+ |

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|                                                                                                                                                                                                                                                                                                            |      | <p>Six women gestated nine babies (normal fetal and postnatal growth and good intrauterine blood flow) who were delivered by caesarean section at an average of 35 weeks.</p> <p>Diagnosis of preeclampsia in three women and RDS in four newborns.</p>                                                                                                                                                                                                          |    |
| <p><i>Striving for motherhood after uterus transplantation: a qualitative study concerning pregnancy attempts, and the first years of parenthood after transplantation.</i></p> <p><i>Stina Järoholm, Hans Bokström, Anders Enskog, Catrina Hammarling, Pernilla Dahm-Kähler &amp; Mats Brännström</i></p> |      | <p>Personal assessment of psychological aspects, pregnancy, maternity and social aspects.</p> <p>Seven pregnant, of which six managed to give birth to their baby.</p>                                                                                                                                                                                                                                                                                           | 2+ |
| <p><i>Uterus transplantation: state of art in 2021.</i></p> <p><i>Elliott G. Richards, Ruth M. Farrell, Stephanie Ricci, Uma Perni, Cristiano Quintini, Andreas Tzakis, et al.</i></p>                                                                                                                     | 2021 | <p>Ethical considerations from the initial decision to undergo transplantation to adaptation to emerging data (successes, setbacks, and challenges).</p> <p>31 women managed to gestate at least one baby (birth by caesarean section in all cases, with an average of 34+6 weeks and 2,500g of weight).</p> <p>During pregnancy, pregnant suffered complications such as preeclampsia, gestational diabetes, pyelonephritis, intrahepatic cholelithiasis...</p> | 1+ |
| <p><i>Uterine transplantation. First viable case in Southern Europe.</i></p>                                                                                                                                                                                                                               |      | <p>First uterus transplant performed in Spain.</p>                                                                                                                                                                                                                                                                                                                                                                                                               | 3  |

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| <p><i>Francisco Carmona, Mariona Rius, Berta Díaz-Feijoo, Mireia Musquera, Jaume Tort &amp; Antonio Alcaraz</i></p>                                                                                                                                   |  | <p>Hospital discharge 7 days after surgery.</p> <p>Signs of graft rejection at three weeks, resolved with drug treatment.</p> <p>First menstruation at 47 days.</p>                                                                   |    |
| <p><i>Perceptions and Motivations for Uterus Transplant in Transgender Women</i></p> <p><i>Benjamin P. Jones, Abirami Rajamanoharan, Saaliha Vali, Nicola J. Williams, Srdjan Saso, Meen-Yau Thum, et al.</i></p>                                     |  | <p>Perception of 182 transgender women between 20 to 29 years old.</p>                                                                                                                                                                | 1+ |
| <p><i>Hysterectomy after uterus transplantation and detailed analyses of graft failures.</i></p> <p><i>Camilla C. Karlsson, Pernilla Dahm-Kähler, Niclas Kvarnström, Johan Mölne, Verena Broecker &amp; Mats Brännström</i></p>                       |  | <p>Process of hysterectomy on recipients after transplantation.</p> <p>Cases in which graft rejection occurred.</p>                                                                                                                   | 2+ |
| <p><i>Clinical pregnancy rates and experience with in vitro fertilization after uterus transplantation: Dallas Uterus Transplant Study.</i></p> <p><i>J. Michael Putman, Lilly Zhang, Anthony R. Gregg, Giuliano Testa &amp; Liza Johannesson</i></p> |  | <p>Cases of 14 recipients who managed to become pregnant (ten in the first embryo transfer and four after 2-4 attempts), of which three aborted.</p> <p>Finally, 13 newborns resulted (two from the same pregnant woman).</p>         | 2+ |
| <p><i>Uterine transplant: an ethical framework analysis from a Middle Eastern perspective.</i></p> <p><i>Khaldoon Aljerian</i></p>                                                                                                                    |  | <p>Ethical considerations in relation to scientific validity, collaborative association, social value, fair selection of the study population, informed consent, favourable risk-benefit ratio, and respect for the participants.</p> | 1+ |

*Uterine transplantation as a treatment of absolute uterine factor infertility: systematic review.*

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| <p><i>Uterus transplantation: ethical considerations.</i></p> <p><i>Briget Da Graca, Liza Johannesson, Giuliano Testa &amp; Anji E Wall</i></p>                                                                                                                   |  | <p>Principle of non-maleficence in relation to the LDs, the recipient and the newborn.</p> <p>It may clash with the principle of autonomy of donors and pregnant women.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1+ |
| <p><i>Uterine Transplantation: Review of Livebirths and Reproductive Implications.</i></p> <p><i>Benjamin P. Jones, Lorraine Kasaven, Saaliha Vali, Srdjan Saso, Maria Jalnbrand, Timothy Bracewell-Milnes, et al.</i></p>                                        |  | <p>Feelings of relief and joy after the first menstruation. No significant impact on sexual desire or satisfaction.</p> <p>Positive psychological impact in the majority of recipients with post-transplant success as opposed to the psychological stress manifested in those with graft failure and childlessness.</p> <p>21 women have given birth to 23 babies (19 via LDs and two by donors diagnosed as brain dead), all by caesarean section.</p> <p>The 17 newborns from whom information is available were born without congenital malformations and maintained a normal Apgar score after 10 minutes.</p> | 1+ |
| <p><i>Risk constellations, viral infections, and prophylaxis in uterine transplantation.</i></p> <p><i>Courtney E. Harris &amp; Nicolas C. Issa</i></p>                                                                                                           |  | <p>UTIs are the most common post-transplant infections. Others are bacterial (at the graft site by Enterococcus), viral (herpes simplex, cytomegalovirus, or human papillomavirus), and fungal (candida).</p>                                                                                                                                                                                                                                                                                                                                                                                                       | 1+ |
| <p><i>A New Approach for Treatment of Woman With Absolute Uterine Factor Infertility: A Traditional Review of Safety and Efficacy Outcomes in the First 65 Recipients of Uterus Transplantation.</i></p> <p><i>Iana Malasevskaia &amp; Ahmed A. Al-Awadhi</i></p> |  | <p>Review of transplants performed in Saudi Arabia, Turkey, Sweden, China, the United States, the Czech Republic, Brazil, Germany, Serbia, India, and Lebanon.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1+ |

*Uterine transplantation as a treatment of absolute uterine factor infertility: systematic review.*

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| <p><i>Perspectives of 281 patients with Mayer-Rokitansky-Küster-Hauser Syndrome on uterine transplantation.</i></p> <p><i>Nicole Fischer, Helen Xun, Amy Lossie, Darya Fadavi, Halley Darrach, Pooja Yesantharao, et al.</i></p>                                                       |  | <p>Perspectives and opinions of women with MRKH syndrome in relation to uterus transplantation.</p>                                                                                                                                                                                                                                                                                                                                                                 | 2+ |
| <p><i>May I have your uterus? The contribution of considering complexities preceding live uterus transplantation.</i></p> <p><i>Lisa Guntram</i></p>                                                                                                                                   |  | <p>Perception of adoption as a slow process full of uncertainties.</p> <p>High levels of stress and anxiety to find a donor among their relatives (there is a risk of pressure and emotional burden).</p>                                                                                                                                                                                                                                                           | 3  |
| <p><i>Decision making and informed consent in uterus transplant recipients: A mixed-methods study of the Dallas Uterus Transplant Study (DUETS) participants.</i></p> <p><i>Anji E. Wall, Liza Johannesson, Monica Sok, Ann Marie Warren, Elisa J. Gordon &amp; Giuliano Testa</i></p> |  | <p>The recipients stated that the decision to undergo the transplant was conditioned by the fact that it was a unique opportunity.</p> <p>The factors that led to their participation were the desire to gestate, help other women and increase the possible avenues of maternity.</p> <p>Six graft failures occurred. Among the successes there were seven pregnant recipients (one with the second baby), five with a healthy newborn, and four awaiting IVF.</p> | 3  |
| <p><i>Uterus transplantation and pregnancy induction: Approved protocol at the Royal Prince Alfred Hospital.</i></p> <p><i>Dana Georgevsky, Ying Li, Selvan Pather, Trevor Tejada-Berges, David Robinson, Jerome Laurence, et al.</i></p>                                              |  | <p>Process of developing a protocol for uterine transplantation in an Australian hospital.</p>                                                                                                                                                                                                                                                                                                                                                                      | 1+ |

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| <p><i>Uterus transplantation: joys and frustrations of becoming a 'complete' woman—a qualitative study regarding self-image in the 5-year period after transplantation.</i></p> <p><i>Stina Järholm, Anders Enskog, Catrina Hammarling, Pernilla Dahm-Kähler &amp; Mats Brännström</i></p> | 2020 | <p>The frustrations and joys of being able to gestate stand out.</p> <p>They also noted changes related to the transplant (sexuality, body, self-perception and self-concept), regardless of its success.</p> <p>Two women suffered graft failure and seven had post-transplant success (all were pregnant, but only six gave birth to eight newborns in total).</p>                      | 2+ |
| <p><i>Two Cases of Pregnancy Following Uterine Transplant: An Ethical Analysis.</i></p> <p><i>Anji E. Wall, Liza Johannesson, Giuliano Testa &amp; Ann Marie Warren</i></p>                                                                                                                |      | <p>The recipients suffered physical signs and symptoms (tiredness and swollen legs, back and/or hip pain, morning sickness, bloating, breast pain, heartburn...), development of cravings and emotional changes.</p> <p>Both felt foetal movements from weeks 18 and 20.</p> <p>Feelings of joy versus disbelief and fear.</p> <p>Successful transplants with a newborn in each case.</p> | 3  |
| <p><i>Human uterine transplantation: a review of outcomes from the first 45 cases.</i></p> <p><i>BP Jones, S Saso, T Bracewell-Milnes, M-Y Thum, J Nicopoullos, C Diaz-Garcia, et al.</i></p>                                                                                              | 2019 | <p>Assessment of the important points of the 45 cases to date (recipients and donors, surgical procedure, immunosuppressive treatment, graft rejection, pregnancy and complications during the process), with a result of 18 newborns.</p> <p>The organs came from LDs between the ages of 20 and 62 in 36 of the cases.</p>                                                              | 1+ |

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| <p><i>Ethical and policy issues raised by uterus transplants.</i></p> <p><i>Laura O'Donovan, Nicola Jane Williams &amp; Stephen Wilkinson</i></p>          |  | <p>Discussion on bioethical principles: respect for the principle of donor autonomy of the donors and non-compliance with the principle of non-maleficence (the success of the treatment is prioritized over the well-being of the donors).</p> <p>13 newborns (11 from LDs and 2 from DDs) up to that moment.</p> | 1+ |
| <p><i>Live versus deceased donor in uterus transplantation.</i></p> <p><i>Niclas Kvarnström, Anders Enskog, Pernilla Dahm-Kähler y Mats Brännström</i></p> |  | <p>Comparison of LDs and DDs in relation to the surgical procedure, risks, organ assessment, organ viability and results.</p>                                                                                                                                                                                      | 1+ |

Source: self-elaboration.