

Maternal adaptations to pregnancy: Renal and urinary tract physiology

AUTHORS: Ravi I Thadhani, MD, MPH, Sharon E Maynard, MD

SECTION EDITORS: Richard J Glassock, MD, MACP, Richard H Sterns, MD

DEPUTY EDITOR: Alana Chakrabarti, MD

Literature review current through: **Sep 2023.**

This topic last updated: Jun 07, 2022.

INTRODUCTION

Normal pregnancy is characterized by profound changes in almost every organ system to accommodate the demands of the fetus. Thus, pregnancy results in both structural and functional changes of the kidney and urinary tract. This topic will review physiologic changes in the kidney and urinary tract.

Related topics on kidney disease in pregnancy and other maternal adaptations can be found separately.

- (See "Pregnancy in patients with nondialysis chronic kidney disease".)
- (See "Maternal adaptations to pregnancy: Cardiovascular and hemodynamic changes".)
- (See "Maternal adaptations to pregnancy: Hematologic changes".)

To continue reading this article, you must log in. For more information or to purchase a personal subscription, click below on the option that best describes you:

Medical Professional

Resident, Fellow or Student

Hospital or Institution

Group Practice

Patient or Caregiver

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications, side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at https://www.wolterskluwer.com/en/know/clinical-effectiveness-terms ©2023 UpToDate, Inc. and its affiliates and/or licensors. All rights reserved.

