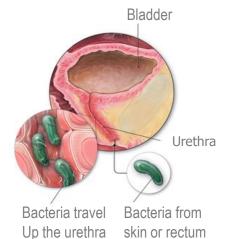
SIGNS & SYMPTOMS OF

- Burning sensation during urination
- Pungent smell
- Lower abdominal pain
- Sudden urge to urinate frequently
- Blood in urine
- Dribble when urinating

Perplexed by Urinary Tract Infections



- Women have more than a 50% chance of getting a UTI in their lifetime.
- UTIs are common, and around 11% of women have an UTI each year.
- Recurrent UTIs carry a significant burden for the patient.
- Recurrent infections occur in around 35% to 53% of women treated for UTI within 12 months².



- The treatment recommended for UTIs by conventional medicine is antibiotics.
- For those suffering from recurrent infections, low doses of antibiotics are generally prescribed to be taken daily for a period of six months or even more.
- This might increase the risk of:
 - Developing antibiotic-resistant strains.
 - Antibiotic might kill both the good and bad bacteria in your gut, which may cause major health disruptions.



· The good news is Cran-D can help deal with UTIs before they take hold, that too naturally!

A combination of 3 proven natural ingredients to fight UTIs and reduce the chances of recurrence of RUTIs.



CRAN-D contains,

- Cranberry extract
- D-Mannose
- Vitamin C

D-MANNOSE

- Cranberries contain proanthocyanidins (PACs) that can inhibit adherence of Pfimbriated E. coli to the uroepithelial cell receptors¹.
- Based on the studies, it was concluded that cranberry products significantly reduce the incidence of UTIs at 12 months compared with placebo/control in women with recurrent UTIs1.
- Cranberry juice provides an alternative tool for prevention of urinary tract infection that could result in decreased use of antimicrobials².

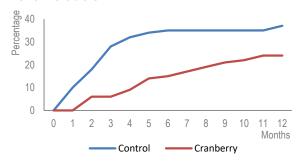


Fig 1: Cumulative rate of first recurrence of urinary tract infection during 12 month follow up in women receiving cranberry juice for six months or no intervention. Occurrence of urinary tract infection was significantly lower in cranberry group than in control group (P=0.014 at 6 months, 0.052 at 12 months)²

- D-mannose is a sugar that has an important role in human metabolism, especially in the glycosylation of certain proteins³.
- Studies suggest that this compound plays a role in supporting healthy genito-urinary function and preventing UTI's by maintaining a healthy mucosal surface⁴.
- D-mannose binds to the type 1 pili of enteric bacteria blocking their adhesion to uroepithelial cells, and reduce bacteriuria levels⁵.

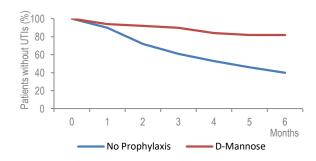


Fig. 2: Kaplan–Meier plot showing the percentage of patients remaining cystitis-free during the 6-month clinical trial period³





- Vitamin C can acidify urine and has been associated with decreased risk of UTI
- Vitamin C can also have a bacteriostatic effect within urine, mediated by reduction of urinary nitrites to reactive nitrogen oxides ⁶.



• The combination of Cranberry extract, Dmannose and Vitamin C provides the combined power to prevent and treat urinary tract infections with natural ingredients.

Naturally CRAN-D

- Reduces the chances of urinary tract infections
- Supports urinary tract health
- Enhances immune system
- Reduces reliance on antibiotics
- Promotes healthy functions of the urinary tract



Instructions:

Uses: Prevention and treatment of urinary tract infections. Recommended Intake: 1-2 sachets per day Instructions: Mix the content of sachet in a glass of water & use immediately. Take 1-2 sachets daily. Once opened, use sachet immediately. Keep out of the reach of children. Store in cool dry place.

References:

- Beerepoot M, Geerlings S. Non-Antibiotic Prophylaxis for Urinary Tract Infections. Pathogens. 2016, 5, 36
- Tero Kontiokari, Kaj Sundqvist, M Nuutinen, T Pokka, M Koskela, M Uhari, Randomised trial of cranberrylingonberry juice and Lactobacillus GG drink for the prevention of urinary tract infections in women. BMJ Volume 322 30 June 2001
- Bojana Kranjc, Dino Papes, Silvio Altarac. D-mannose powder for prophylaxis of recurrent urinary tract infections in women: a randomized clinical trial. World J Urol DOI 10.1007/s00345-013-1091-6
- Schaeffer AJ, Chmiel JS, Duncan JL, Falkowski WS. Mannose-sensitive adherence of Escherichia coli to epithelial cells from women with recurrent urinary tract infections. J Urol. 1984 May;131(5):906-10.
- Michaels EK, Chmiel JS, Plotkin BJ, Schaeffer AJ. Effect of D-mannose and D-glucose on Escherichia coli bacteriuria in rats. Urol Res 1983; 11: 97–102
- Carlsson S, Wiklund NP, Engstrand L, et al. Effects of pH, nitrite, and ascorbic acid on nonenzymatic nitric oxide generation and bacterial growth in urine. Nitric Oxide. 2001;5:580-586





Marketed in Pakistan by: Zenith (Pvt) Ltd 406 Faiyaz Centre, Shahrah e Faisal, Karachi, Pakistan

Head Office: Zenith Medical L.L.C. P.O. Box 294313, Dubai, UAE

CRAN-D is manufactured in a US FDA registered facility conforming to GMP standards