

Diet and Kidney Stones

SPINAL INJURIES UNIT

Ph: 3176 2215
Fax: 3176 7462

OUTPATIENT DEPARTMENT

Ph: 3176 2641
Fax: 3176 5644

Postal and Location

Princess Alexandra Hospital
Ipswich Rd
Woolloongabba QLD 4102
AUSTRALIA

TRANSITIONAL REHABILITATION PROGRAM

Ph: 3176 9508
Fax: 3176 9514

Email

trp@health.qld.gov.au

Postal

PO Box 6053
Buranda, QLD, 4102

Location

3rd Floor, Buranda Village
Cnr Cornwall St & Ipswich Rd
Buranda, QLD, 4102
AUSTRALIA

SPINAL OUTREACH TEAM

Ph: 3176 9507
Freecall 1800 624 832
(for regional clients)
Fax : 3176 9514

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spot@health.qld.gov.au

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The most common type of kidney stones results from too much calcium and oxalate in the urine. These minerals bind together as crystals, forming stones. The following dietary guidelines can help to prevent kidney stones.

Drink plenty of fluid

Drink more fluid, **especially water**

- Drinking water helps to flush out the kidneys and dilute stone-forming substances, making stones less likely to form
- Drink **at least 2-3 litres, or 10 cups**, of fluid daily. At least half of this should be **water** (soda, mineral, spring or plain tap water)
- Have a cup of fluid (250ml) each hour during waking hours, and a large glass of water before going to bed. Drink a glass of water if you wake up during the night.
- Spread out your fluid intake during the day
- AVOID strong black tea and orange juice, as these are high in oxalates
- Colas are also high in phosphates which can contribute to stones

Limit salt

- Salt (sodium) increases the amount of calcium in your urine

To reduce salt:

- Buy fresh foods, or foods without salt – fruit, fresh vegetables, fresh meats, chicken, fish, eggs, porridge, rice and pasta
- Most sodium (75%) comes from processed foods. Limit processed foods high in salt, eg. soup, Bonox, processed meats, sauces, gravy, crisps and snack foods.
- “Low salt” or “no added salt” foods are the best choices. Look for a sodium content of **less than 150mg per serve** as a guideline. Note that some “reduced salt” products can still contain high levels of sodium
- Do not add salt at the table or in cooking

What can I use instead?

- Freshly ground pepper or dry mustard powder
- Lemon juice, lime juice or vinegar
- A sprinkle of dried herbs or chopped fresh herbs
- Garlic, curry, chilli, onion, fresh ginger or spring onions



Avoid foods high in oxalate

Reducing *oxalate* in your diet helps to reduce the amount of oxalate in your urine.

Foods to avoid are:

- Rhubarb, spinach, silver beet, beetroot, eggplant, sweet potato, celery and leeks
- Nuts and peanut paste
- Strong black tea and orange juice
- Chocolate
- Wheat bran and wheat germ
- Berries (eg strawberries, blackberries) and dried figs
- Soy sauce and Worcestershire sauce



Include adequate calcium in your diet

- Dietary calcium is important for your bones and teeth. A high calcium intake **reduces** the chance of kidney stones forming
- **Do not limit dairy foods.** Too little calcium can cause oxalate levels to rise



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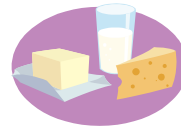
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- Calcium in the digestive tract binds to oxalate from food and keeps it from entering the blood, and then the urinary tract, where it can form stones

Include at least 2-3 choices from the following list:

- 250mL milk, eg. Trim, skim, full cream, calcium-fortified soy milk
- 200mL high calcium milk, eg. Physical
- 200g (small tub) yoghurt
- 40g cheese (2 slices)
- 3 scoops ice-cream



Include only a moderate amount of animal protein

- Limit protein from *meat, seafood, fish, chicken* and *eggs* to a moderate serve (120-150g) daily (cooked).

Note: 60g meat = 2 eggs

- High protein reduces citrate, a chemical in urine that prevents stones from forming

Vitamin Supplements

- Do not take *Vitamin C supplements* (also known as ascorbic acid and calcium ascorbate)
- Do not take *Vitamin D supplements* or cod liver oil

**For more information: Please contact the Continence Nurse Advisor, Department of Urology
Princess Alexandra Hospital**

Ph: (07) 3176 5563

AH: (07) 3176 2135

*QSCIS acknowledges the Urology Department,
Princess Alexandra Hospital for assistance in
updating this information*

Last Reviewed October 2020

Review Due October 2022

References:

Dietary interventions for preventing complications in idiopathic hypercalciuria (2014)
Escribano J, Balaguer A, Roque I Figuls M, Feliu A, Ferre N Cochrane Systematic Review

