

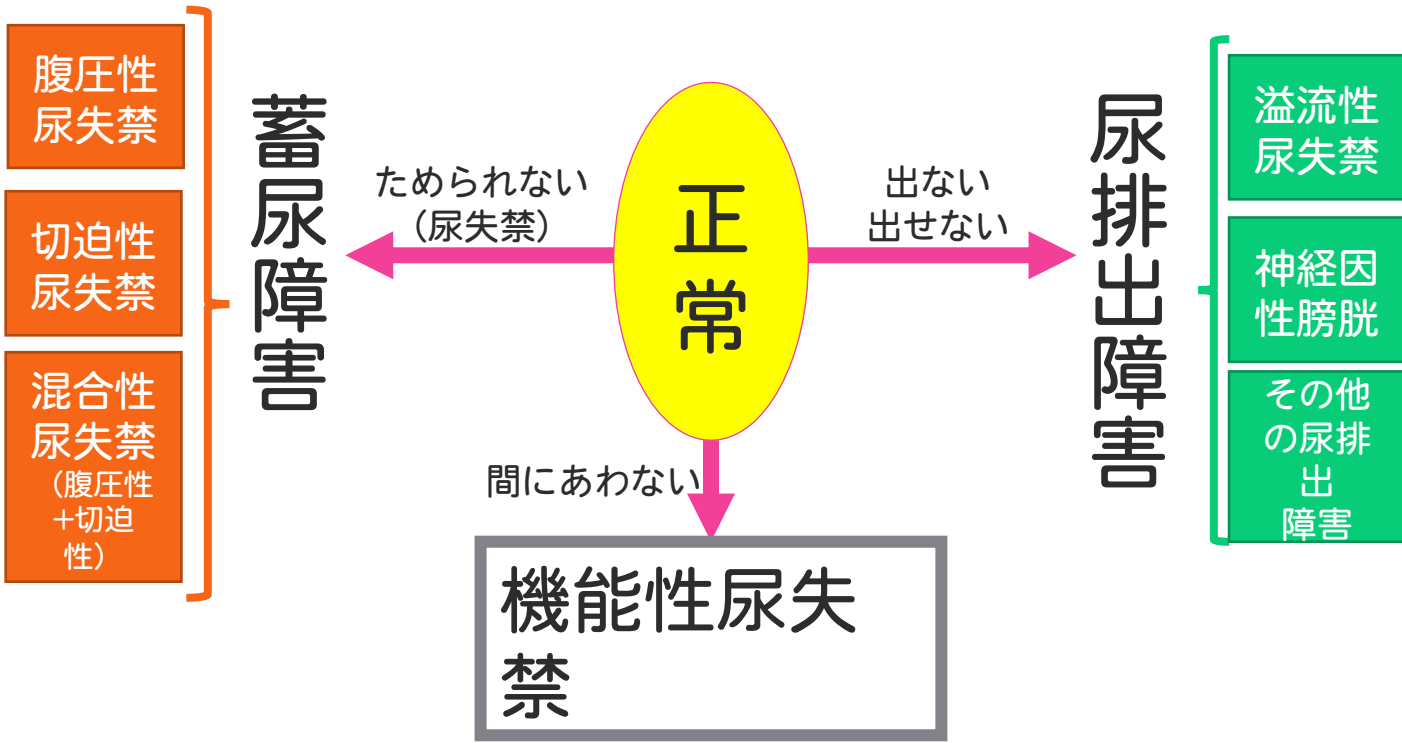
ナースの星”WEBセミナー

排尿ケア・排尿自立指導の 臨床実践

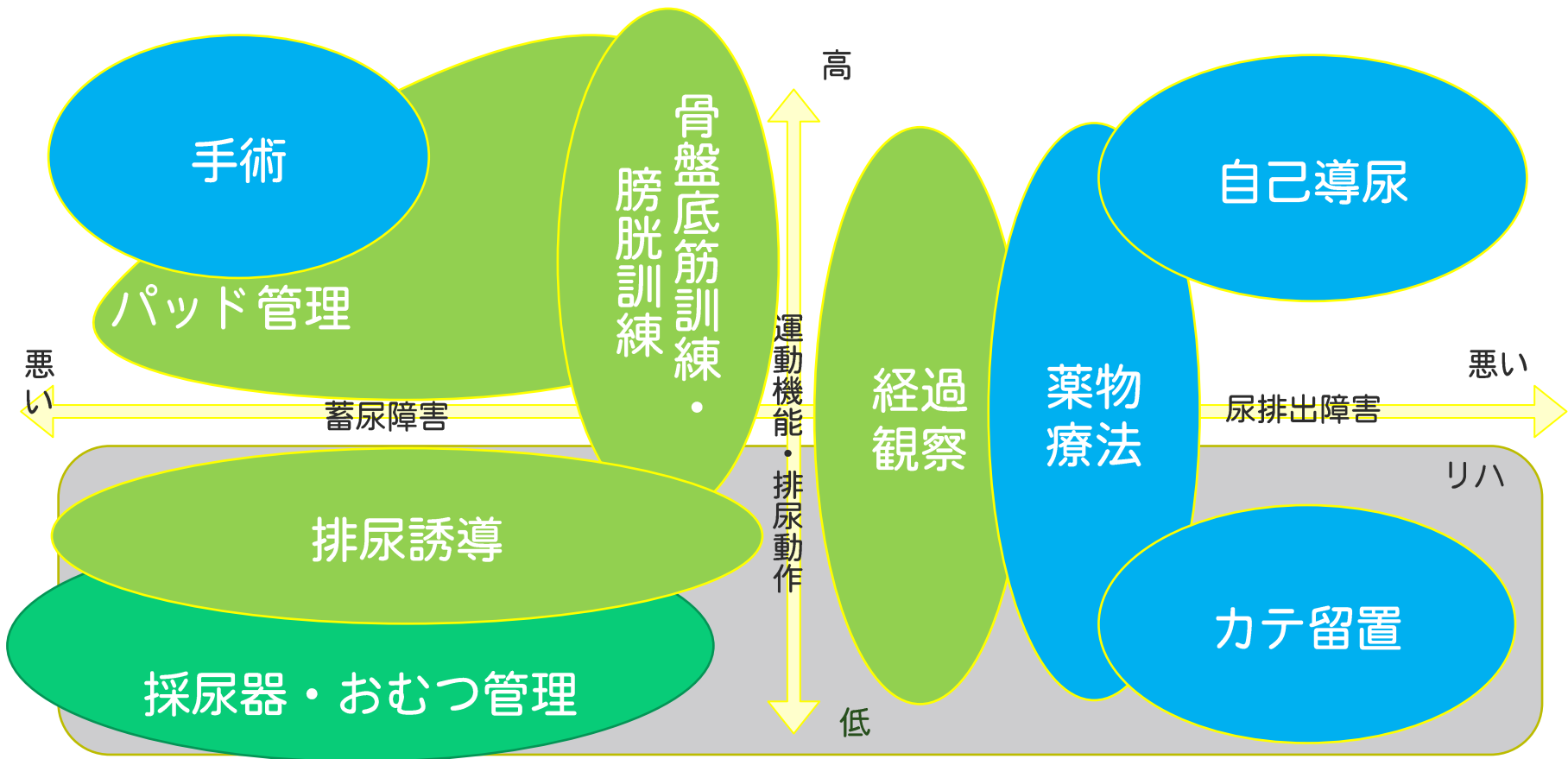
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皮膚・排泄ケア認定看護師
帯刀 朋代

排尿ケアの対象とケア内容

排尿障害の概略



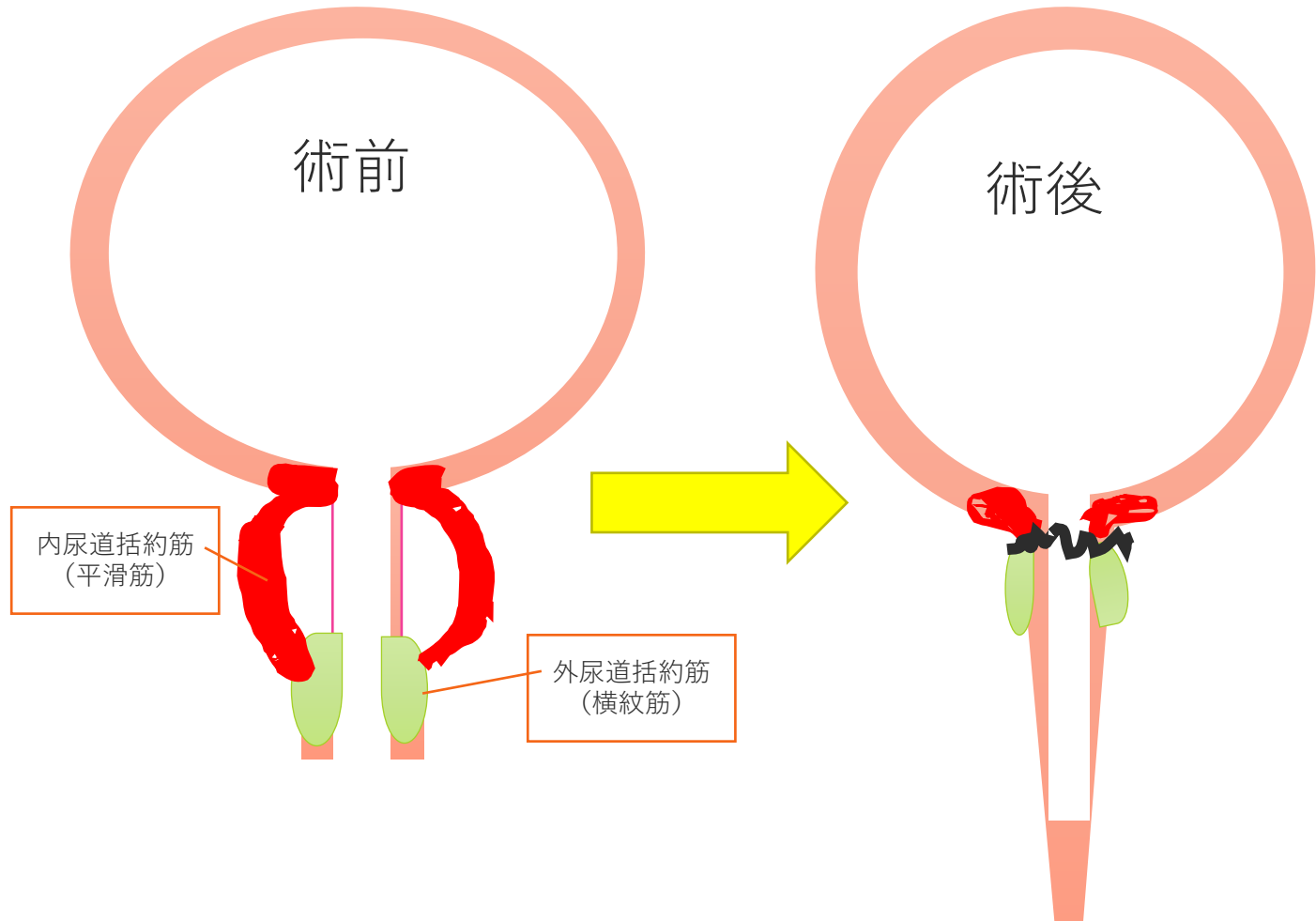
排尿自立ケアの全体像



骨盤底筋訓練

前立腺全摘術後尿失禁の成因

手術前後の尿道括約筋の違い（模式図）



骨盤底筋訓練の評価 (Oxford grading systemの応用)

筋力の強さ	0:まったく筋肉の動きが感じられない 1:収縮としては感じられないが、筋力がわずかに動いている 2:確実に筋力が収縮している 3:抵抗を加えなければ完全に収縮している 4:相当の抵抗を加えても、それに抗って膣を閉じておくことが出来る 5:内診者の指が吸い込まれるような感じで締め付けられる
耐久力	何秒間収縮し続けられるか (遅筋の耐久力測定)
反復力	疲労なく何回収縮が繰り返しできるか (遅筋の収縮回数測定)
速さ	早い収縮を繰り返しできるか (速筋の筋力測定)

尿排出障害

留置カテーテルか間歇的導尿か

- 間歇的導尿
 - 膀胱の蓄尿・排尿のサイクルを保つ
 - 感染のリスクが留置カテーテルに比較して低い
- 留置カテーテル
 - 腎臓に逆流をしやすい膀胱（高圧膀胱）
 - 間歇的導尿を定期的に行うことが困難

間歇的自己導尿の回数が増減

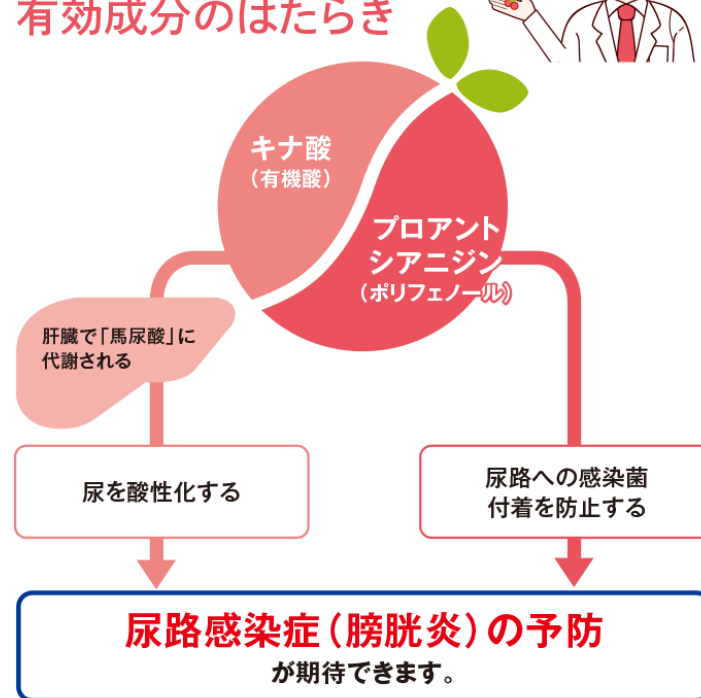
- 残尿が300m L 以上 . . . 1回増やす
- 残尿が200～300m l . . . 回数そのまま
- 残尿が100～200m l . . . 1回減らす



アペンド排尿管ア

クランベリー —;Cranberry

クランベリーの2つの
有効成分のはたらき



Cranberry Reduces the Risk of Urinary Tract Infection Recurrence in Otherwise Healthy Women: A Systematic Review and Meta-Analysis

Zhuxuan Fu,¹ DeAnn Liska,² David Talan,³ and Mei Chung¹

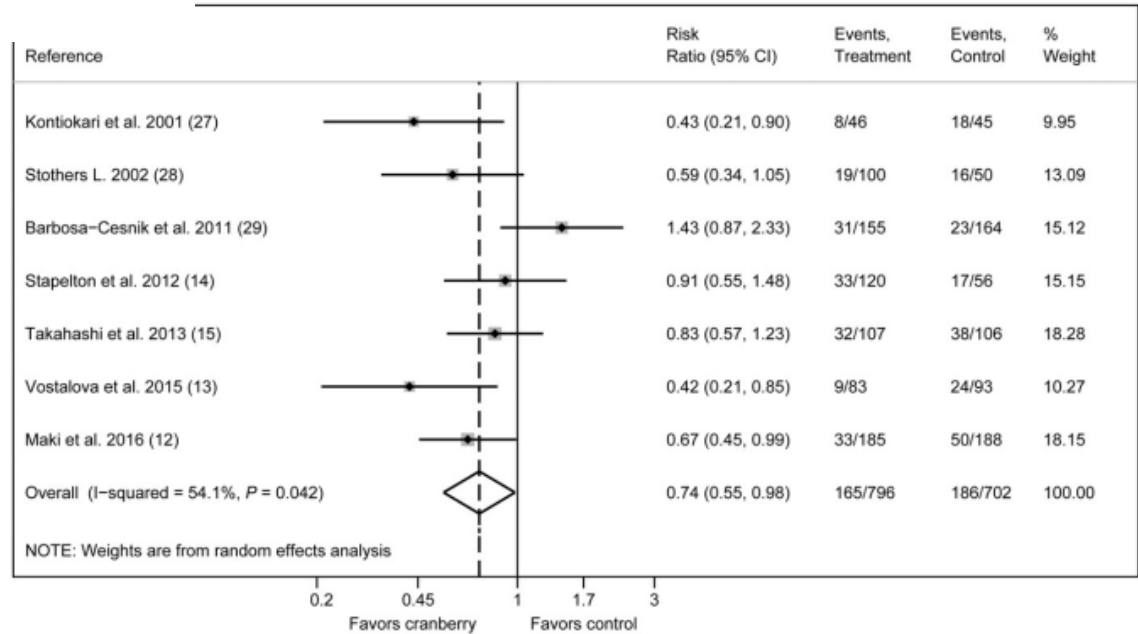
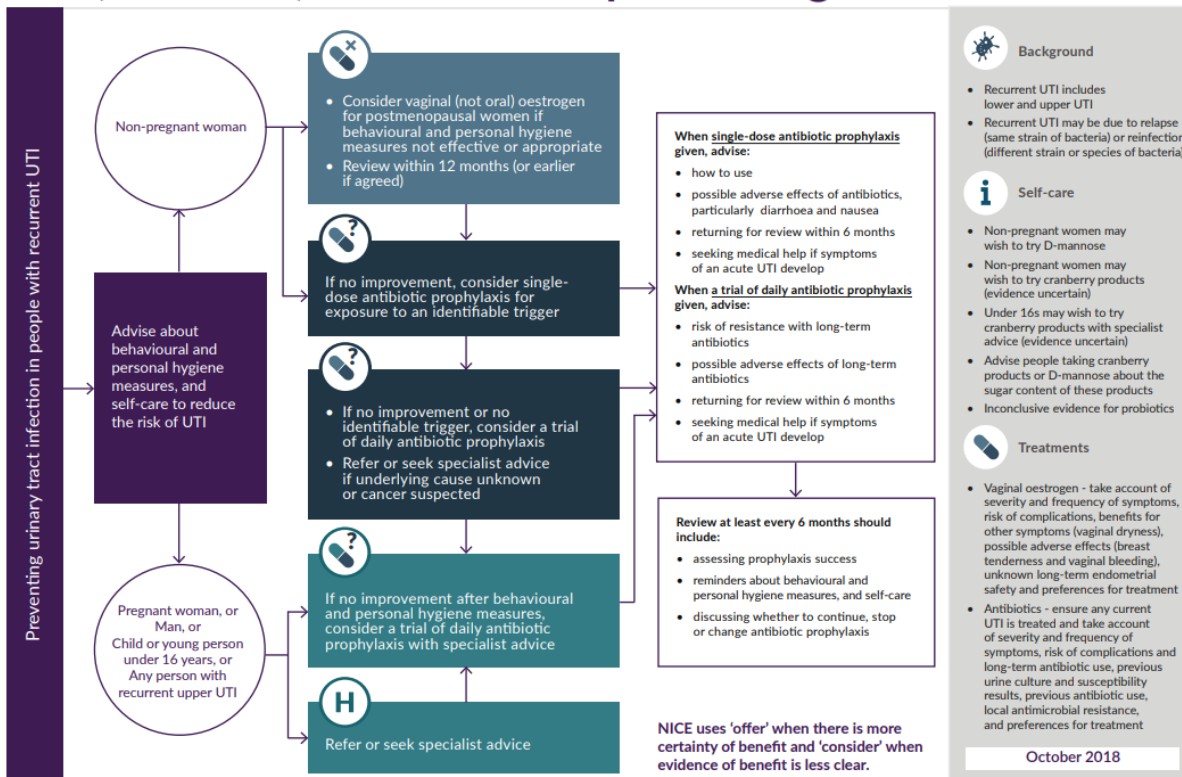


FIGURE 2 Forest plot: summary effect of cranberry in the prevention of urinary tract infection.

Fu, Z., Liska, D., Talan, D., & Chung, M. (2017). Cranberry Reduces the Risk of Urinary Tract Infection Recurrence in Otherwise Healthy Women: A Systematic Review and Meta-Analysis. *The Journal of nutrition*, 147(12), 2282–2288. <https://doi.org/10.3945/jn.117.254961>

UTI (recurrent): antimicrobial prescribing

NICE National Institute for Health and Care Excellence



Impact of Cranberries on Gut Microbiota and Cardiometabolic Health: Proceedings of the Cranberry Health Research Conference 2015¹⁻³

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TABLE 1 Summary of randomized placebo-controlled trials on the cardiometabolic effects of cranberry¹

Study, year (ref)	Intervention	Population	Age, ² y	n	Study design	Duration, wk	Dose/d	Polyphenol content	Outcomes
Lee et al., 2008 (59)	Cranberry extract	Adults with T2D	65 ± 1	30	Parallel	12	500 mg × 3	Not reported	↓: TC, LDL-C; NC: FBG, HbA1c, SBP, DBP, TGs, HDL-C, oxLDL-C, insulin, HOMA-IR, CRP
Shidfar et al., 2012 (60)	CJ	Adults with T2D	55 ± 9	58	Parallel	12	240 mL	Not reported	↓: FBG, apoB; ↑: paraoxonase-1 activity; NC: apo A-1, Lp(a)
Novotny et al., 2015 (61)	LC CJ	Healthy adults	50 ± 11	56	Parallel	8	480 mL	346 mg TPs, 21 mg ACNs, 235 mg PACs	↓: DBP, FBG, HOMA-IR, TGs, CRP; NC: SBP, insulin, HOMA-β, TC, LDL-C, HDL-C, apo A-1, apo A-2, apoB, ICAM, VCAM
Basu et al., 2011 (62)	LC CJ, 27%	Adults with metabolic syndrome	52 ± 8	31	Parallel	8	480 mL	458 mg TPs, 25 mg ACNs	↓: oxLDL-C, malondialdehyde, 4-hydroxynonenal; NC: SBP, DPB, FBG, TC, LDL-C, HDL-C, VLDL-C, TGs, IL-6, CRP, plasma antioxidant capacity
Dohadwala et al., 2011 (63)	CJ, 54%	Adults with CAD	63 ± 9	44	Crossover	4	480 mL	835 mg TPs, 94 mg ACNs	↓: HDL-C, carotid femoral PWV; NC: SBP, DPB, FBG, insulin, HOMA-IR, TC, LDL-C, TGs, carotid radial PWV, CRP, ICAM-1
Flammer et al., 2013 (64)	LC CJ, 54%	Adults with CVD risk factors	49 ± 16	69	Parallel	16	460 mL	800 mg TPs, 69 mg ACNs, 1224 mg PACs	NC: SBP, DBP, TC, HDL-C, TGs, AIX, pulse pressure, heart rate, reactive hyperemia index, CRP, ICAM, VCAM, IL-6, TNF-α, oxLDL-C
Ruel et al., 2013 (65)	LC CJ, 27%	Healthy overweight men	45 ± 10	35	Crossover	4	500 mL	400 mg TPs, 21 mg ACNs	NC: SBP, DBP, mean arterial pressure, heart rate, AIX, global endothelial function, NOx, uric acid, oxLDL-C, ICAM-1, VCAM-1, E-selectin

¹ ACN, anthocyanin; AIX, augmentation index; CAD, coronary artery disease; CJ, cranberry juice; CRP, C-reactive protein; CVD, cardiovascular disease; DBP, diastolic blood pressure; FBG, fasting blood glucose; HbA1c, glycated hemoglobin; HDL-C, HDL cholesterol; HOMA-β, homeostatic model assessment of β cell function; ICAM, intercellular adhesion molecule; Lp(a), lipoprotein a; LC, low-calorie; LDL-C, LDL cholesterol; NC, no significant change; NOx, nitrate/nitrite; oxLDL-C, oxidized LDL cholesterol; PAC, proanthocyanidin; PWV, pulse-wave velocity; ref, reference; SBP, systolic blood pressure; TC, total cholesterol; TP, total polyphenol; T2D, type 2 diabetes; VCAM, vascular cell adhesion molecule; VLDL-C, VLDL cholesterol; ↓, significantly different decrease from placebo group; ↑, significantly different increase from placebo group.

² Values are means ± SDs.

Blumberg, J. B., Basu, A., Krueger, C. G., Lila, M. A., Neto, C. C., Novotny, J. A., Reed, J. D., Rodriguez-Mateos, A., & Toner, C. D. (2016). Impact of Cranberries on Gut Microbiota and Cardiometabolic Health: Proceedings of the Cranberry Health Research Conference 2015. *Advances in nutrition (Bethesda, Md.)*, 7(4), 759S–70S. <https://doi.org/10.3945/an.116.012583>

ご清聴ありがとうございました