Washed Microbiota Transplantation Reduces Serum Uric Acid Levels in Patients with Hyperuricaemia

By Jin-Rong Cai
Retrospective Study

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WMT reduces SUA levels

Jin-Rong Cai, Xin-Wen Chen, Yu-Jian He, Bin Wu, Min Zhang, Li-Hao Wu
Abstract

BACKGROUND
Previous studies have found that hyperuricaemia (HUA) is closely related to intestinal flora imbalance.

AIM
The current study investigated the effects and safety of washed microbiota transplantation (WMT) on serum uric acid (SUA) levels in different populations.

METHODS
A total of 144 patients who received WMT from July 2016 to April 2020 in the First Affiliated Hospital of Guangdong Pharmaceutical University and had SUA data before treatment were selected. Changes in SUA levels before and after treatment were retrospectively reviewed based on short-term and mid-term effects of WMT regimens. SUA levels measured in the last test within 3 mo after the first WMT represented the short-term effect, and SUA levels measured in the last test within 3-6 mo after the first WMT represented the mid-term effect. The patients were divided into an HUA group (SUA >416 μM) and a normal uric acid (NUA) group (SUA ≥202 μM and ≤416 μM) based on pretreatment SUA levels.

RESULTS
Average short-term SUA levels in the HUA group decreased after WMT (481.00±99.85 vs. 546.81±109.64 μM, n=32, P<0.05) in 25/32 patients and returned to normal in 10/32 patients. The short-term level of SUA reduction after treatment moderately correlated with SUA levels before treatment (r=0.549, R²=0.30, P<0.05). Average SUA levels decreased after the first and second courses of WMT (469.74±97.68 vs. 540.00±107.16 μM, n=35, and 465.57±88.88 vs. 513.19±78.14 μM, n=21, P<0.05). Short-term and mid-term SUA levels after WMT and SUA levels after the first, second and third courses of
WMT were similar to the levels before WMT in the NUA group ($P>$0.05). Only 1/144 patients developed mild diarrhoea after WMT.

CONCLUSION

WMT reduces short-term SUA levels in patients with HUA with mild side effects but has no obvious effect on SUA levels in patients with NUA.

**Key Words:** Washed microbiota transplantation; Hyperuricaemia; Intestinal flora; Effect; Safety; Retrospective study


**Core Tip:** In this study, we demonstrate that washed microbiota transplantation (WMT) can lower serum uric acid (SUA) levels in patients with hyperuricaemia (HUA) in the short term with only mild side effects but that WMT has no obvious effect on the SUA levels of people with normal uric acid levels.

**INTRODUCTION**

Nutrition-related diseases caused by changes in people's diet are gradually increasing, and hyperuricaemia (HUA) has gradually developed into a global public health problem. HUA is a common disease in China. The prevalence of HUA in the Chinese population is 13% [1]. HUA is a metabolic syndrome related to obesity, insulin resistance, diabetes, coronary artery disease and hypertension, but it is also a pathological state that causes uric acid (UA) crystal deposition in bones, joints and kidneys, which may lead to gout, urolithiasis and UA nephropathy [2,3].

The traditional treatment methods for HUA include maintaining a healthy lifestyle, UA-lowering drugs, alkalizing urine, and traditional Chinese medicine. Existing drugs
for the treatment of HUA include xanthine oxidase inhibitors (allopurinol) to inhibit UA production, benzbromarone, which promotes UA excretion, and UA enzymes that promote UA decomposition \[^4,5\]. However, these drugs have adverse reactions, such as gastrointestinal discomfort, diarrhoea, and rash, and some patients have poor tolerance. Patients also need to take drugs regularly for a long time, which causes a long-term burden for patients and their families because the existing UA-lowering drugs are associated with a withdrawal and rebound phenomenon \[^4,5\]. Due to the limitations of drug use, novel therapeutic approaches are needed in the treatment of HUA.

The functional status of the intestines and kidneys is critical to the metabolism of UA. The daily production and excretion of UA in the human body is 600-700 mg. Approximately two-thirds of this amount is excreted by the kidneys, and one-third is excreted through the intestines. The intestinal pathway compensates in cases of renal damage and becomes the main pathway for urate elimination \[^6\]. The imbalance between probiotics and pathogenic bacteria affects the expression of intestinal tight junction proteins, which increases the permeability of the intestinal mucosa barrier, leads to gut-derived lipopolysaccharide (LPS) translocation and causes kidney damage via blood circulation. These changes induce renal UA excretion disorder, reduce UA excretion and increase serum UA (SUA) levels \[^7,8\]. The intestinal flora also regulates ATP-binding cassette superfamily G member 2 (ABCG2), solute carrier family 2 member 9 (SLC2A9) and other UA transporters of the intestinal epithelium \[^9,10\].

Faecal microbiota transplantation (FMT) recently emerged as a treatment strategy for HUA. FMT relate to the transplantation of the functional flora of a healthy individual into the gastrointestinal tract of a patient to establish a new intestinal microbiota for the treatment of intestinal and extraintestinal diseases. FMT technology was first used for treating refractory Clostridium difficile infection in 2013 \[^11\]. FMT also aids in inducing the remission of ulcerative colitis and improving hepatic encephalopathy and insulin sensitivity \[^12-14\]. Washed microbiota transplantation (WMT), the generation of bacterial solutions via automatic purification systems, is respected in clinic. WMT reduces the
adverse events caused by traditional faecal suspension preparations and greatly improves the treatment efficacy [15,16].

Previous studies have found that HUA is closely associated with an intestinal flora imbalance [17,18]. Manipulation of gut dysbiosis with probiotics relieves fructose-induced hyperuricaemia in mice and enhances intestinal barrier function [19]. A pilot study [20] found that all patients (n=11) exhibited a reduction in SUA levels on day 28 post-FMT (P<0.05). Our study expanded the sample size to retrospectively examine the short-term and mid-term effects and safety of WMT on SUA levels in patients with HUA and normal uric acid (NUA) levels.

MATERIALS AND METHODS

Participants
A total of 144 patients who received WMT treatment from July 2016 to April 2020 in the First Affiliated Hospital of Guangdong Pharmaceutical University and had SUA data before treatment were selected. All Patients in this study provided informed consent. Patients who received WMT treatment were divided into an HUA group and an NUA group based on their SUA levels before treatment. The inclusion criterion for the HUA group was an SUA >416 µM. The inclusion criterion for the NUA group was an SUA ≥202 µM and ≤416 µM.

Inclusion and Exclusion Criteria
Patients included in the study met the following criteria: 1) aged 18-85 years; 2) received WMT treatment; and 3) had SUA data before and after treatment (Figures 1 and 2). The following exclusion criteria were used: 1) gastrointestinal infection, cardiopulmonary failure or serious liver and kidney diseases; 2) pregnancy; 3) malignant tumours; 4) rejection to transendoscopic enteral tubing; 5) rejection or failure to complete the follow-ups; and 6) a high-purine diet.

WMT
All the patients were treated with WMT. Mixed multi-donor faeces was used as the source of the bacterial suspension for WMT. Healthy young men aged 18 to 25 years was one of requirements of the donors. The donors underwent health examinations to exclude metabolic diseases, genetic diseases, infectious diseases, digestive tract diseases, malignant tumours, and other associated diseases. The donors did not take antibiotics or drugs that affected alimentary canal dynamics and/or caused gut microecological disorders in the previous 3 mo. Utilizing an automatic purification system (GenFMTer; FMT Medical, Nanjing, China), bacterial solution (200 mL) was isolated and injected into the sick's gut through the lower or middle alimentary canal within 30 min. Two transplantation routes were available for use. One route was the middle alimentary canal route in which endoscopic enteral tubing was placed in the jejunum under gastroscopy, and proton pump inhibitors (PPIs) were administered intravenously 1 h before the injection. This procedure was performed to lower the inactivation of bacteria when moving through the stomach. Metoclopramide hydrochloride (10 mg) was injected intramuscularly to decrease side effects, like abdominal distension or vomiting, resulted from stimulus of the digestive tract by the fresh faecal liquid. The sick were placed in a sitting position during injection of the fresh faecal liquid. The injection procedure was mild and slow, and needed at least 30 min for 200 mL of the fresh faecal liquid. After the injection, the patient sustained standing or seated not less than 2 h. The other method was the lower alimentary canal route in which endoscopic enteral tubing was placed into the caecum by means of enteroscopy. During injection of the fresh faecal liquid, the sick was placed in the right sided position, and this process lasted for 30 min. Completed this procedure, the sick rested in the right sided position for at least 2 h. One course was administered once daily for 3 d. Four courses were administered at one course per month in the first month, second month, third month, and sixth month.

**Outcome Measures**
The main outcome was the changes in SUA levels before and after WMT treatment. The SUA measured in the last test within 3 mo after the first WMT represented the short-term effect, and the SUA measured in the last test within 3-6 mo after the first WMT was the mid-term effect. The secondary outcomes included the WMT course and occurrence of adverse events (AEs) after WMT. In accordance with the National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events version 5.0, we graded the AEs and classified the relationship between AEs and WMT as unrelated and possibly, probably and definitely related.

**Data Analysis**

SPSS version 26.0 were used for data analyses. Categorical data are expressed as the frequency and percentage, and numerical data are expressed as the mean±standard deviation. If a normal distribution was observed, Student’s t test was used for comparison between groups. Otherwise, the Wilcoxon signed rank test was used. Differences were defined as statistically significant when P<0.05.

**RESULTS**

**Baseline Data of the Patients**

Most of the patients were not treated with WMT due to HUA (Table 1). The patients received different short- and mid-term courses of WMT in the HUA group and the NUA group (Table 2).

**Analysis of the Short-Term and Mid-Term Effects of WMT on SUA Levels**

The short-term average SUA level after WMT treatment in the HUA group was lower than that before treatment (481.00±99.85 vs. 546.81±109.64 μM, n=32, P<0.05; Table 3 and Figure 3). The mid-term average SUA level after WMT treatment was lower than that before treatment, but the difference was not statistically significant (483.00±101.21 vs. 504.00±100.30 μM, n=9, P>0.05; Table 3 and Figure 3). The mid-term average SUA level after WMT treatment decreased compared with the short-term SUA level after
treatment, but the difference was not statistically significant (485.88±107.80 vs. 528.12±111.89 µM, n=8, P>0.05; Table 3 and Figure 3). The average short-term and mid-term SUA levels after treatment in the NUA group were similar to the levels before treatment (P>0.05; Table 3 and Figure 4).

SUA levels decreased in the short term after treatment in 25 patients in the HUA group (78.12%), and SUA levels returned to normal in 10 patients (31.25%). A total of 55.56% (5/9) of patients had a decrease in SUA levels in the mid-term after treatment, and the SUA levels of 22.22% (2/9) of these patients returned to normal (Figures 5 and 6).

Correlation Analysis between the Short-Term SUA Reduction Level after WMT Treatment and SUA before Treatment

The relationship between the short-term SUA reduction level after WMT treatment and the SUA level before treatment in the HUA group showed an r of 0.549 and R² of 0.30 (P<0.05), which suggested that the short-term SUA reduction level after WMT treatment and the SUA level before treatment were moderately correlated (Figure 7).

Analysis of the Effects of the Course of WMT on SUA Levels

The average SUA level of the patients in the HUA group decreased after the first course of WMT compared with that before treatment (469.74±97.68 vs. 540.00±107.16 µM, n =35, P<0.05; Table 4 and Figure 8). The average SUA level of the patients in the HUA group was lower after the second course of WMT than before treatment (465.57±88.88 vs. 513.19±78.14 µM, n=21, P<0.05; Table 4 and Figure 8). The average SUA level of the patients in the HUA group after the third course of WMT was decreased compared with that before treatment, but the difference was not statistically significant (417.36±92.84 vs. 526.73±111.30 µM, n=11, P>0.05; Table 4 and Figure 8). The average SUA level of the patients in the NUA group (n=100) after receiving different courses of WMT was similar to that before treatment (P>0.05; Table 4 and Figure 9).
Analysis of the Short-Term and Mid-Term Effects of WMT on Serum Creatinine Levels

The average short-term and mid-term serum creatinine levels after treatment were similar to those before treatment in both groups \((P>0.05; \text{Table 5})\).

Analysis of the Safety of WMT

No serious adverse reactions occurred during WMT treatment in the 144 treated patients. Only one patient developed mild diarrhoea during the second WMT treatment, which gradually returned to normal within 3 d. This AE was classified as possibly related to WMT.

DISCUSSION

HUA is closely related to intestinal flora imbalance. A bacterial disorder was observed in patients with HUA that manifested as an increase in the total count of aerobes, \textit{Escherichia coli} and \textit{Bacteroides} and a decrease in the number of \textit{Lactobacillus} and \textit{Bifidobacteria} \cite{17}. The composition of the intestinal flora also changed in animal models of HUA caused by a high-fat diet, a high-glucose diet, a high-fructose diet, and a high-oxalic-acid diet \cite{18,21,22}. Liu \textit{et al.} \cite{23} transplanted the faecal flora of HUA rats into recipient rats. After 3 wk, the diversity and richness of the intestinal flora of recipient rats changed, and UA levels of recipient rats also increased.

Previous studies have shown that probiotics effectively treat HUA \cite{24,25}. However, one study demonstrated that symbiotic and probiotic interventions had no effect on SAU levels after 12 wk of intervention \cite{26}. A meta-analysis showed that UA levels were significantly increased in the intervention group compared to a control group \cite{27}.

These studies have clarified the differences in the intestinal flora between patients with HUA and healthy individuals, but controversy over the role of probiotics in reducing SUA remains. WMT significantly improves intestinal bacterial disorders and is currently recognized as the most effective method to restore the intestinal microecological balance. A pilot study \cite{20} found that all patients \((n=11)\) had a reduction in SUA levels on day 28 post-FMT \((P<0.05)\). However, this study did not examine the
short- and mid-term effects of WMT on patients with NUA levels or the mid-term effect of WMT on patients with HUA and had a relatively small sample size.

The average SUA level in the HUA group decreased within 3 mo after WMT in our study (P<0.05). Short-term SUA levels decreased in 25 patients (78.12%) after treatment, and SUA levels returned to normal in 10 patients (31.25%). The mechanism of WMT treatment in the reduction of UA may involve two pathways, promotion of UA decomposition and excretion. The intestinal flora degrade UA into allantoin [28]. The intestinal flora also affect the metabolism of UA by regulating ABCG2, SLC2A9 and other UA transporters of the intestinal epithelium [19,10]. Some scholars [7,8] have hypothesised a "metabolic endotoxemia", wherein changes in the structure of the intestinal flora can increase the permeability of the intestinal tract and cause microbial metabolites, such as endotoxins or LPS, to increase in the host circulatory system. LPS forms an immune complex with its receptor CD14, which is recognized by Toll-like receptor 4 (TLR4) on the surface of immune cells and causes kidney damage through blood circulation. These effects subsequently lead to renal UA excretion disorders and reduced UA excretion, which increase SUA levels. Wang et al. (2019) [19] treated mice with fructose-induced HUA with isolated Lactobacillus brevis DM9218. The results showed that DM9218 decreased SUA levels, hepatic xanthine oxidase activity and liver LPS in fructose-fed mice. Diamine oxidase (DAO) and endotoxin levels decreased after FMT in a clinical study (P<0.05) [20]. Because our study was a retrospective study, further studies are needed to explore the mechanism of WMT reduction of SUA. The SUA levels of some patients in the HUA group did not decrease. The high SUA levels in these patients may not be the result of an intestinal flora imbalance, and WMT had no obvious effect, or it interfered with other factors, such as a high-purine diet. Therefore, we should clarify that the role of WMT in HUA results from different causes in further studies.

After WMT in the HUA group, SUA levels at the mid-term observation point were reduced compared with those before treatment and at the short-term observation point. However, there was no significant difference (P>0.05). It may be associated with the
small sample included in the mid-term observation. Alternatively, WMT may have no
effect on mid-term SUA levels in HUA. Follow-up studies should further expand the
sample size and extend follow-up time to clarify the mid-term and long-term effects of
WMT treatment.

There was a difference in the number of courses of WMT in the evaluation of short-
term and long-term effects (Table 2). Therefore, we further analysed the effect of WMT
on SUA in different populations based on the number of treatment courses. After one
and two courses of WMT in the HUA group, the average SUA level decreased \((P<0.05)\),
which indicated that the first and second courses of WMT played a significant impact
on reducing SUA levels in patients with HUA. After three courses, the average SUA
level decreased compared with that before treatment, but the difference was not
statistically significant \((P>0.05)\). This finding may be related to the small sample size or
may suggest that the third course of WMT cannot reduce SUA levels. Follow-up
researches with a larger sample capacity are needed to elucidate the effect on SUA level
of the third course of treatment. Because of the limited number of patients in this study
with complete UA data before treatment and after each treatment, it was difficult to
further analyse the relationship between the number of courses of treatment and the
effect of WMT. Future research should investigate the optimal course of treatment for
HUA.

The average SUA level in the NUA group was similar to that before treatment, and
the difference was not statistically significant. This finding suggests that WMT
treatment does not interfere with normal UA metabolism. These results also provide
evidence to support the safety of WMT treatment from the perspective of UA
metabolism.

The safety of WMT is noteworthy. Only one patient developed mild diarrhoea during
the second WMT treatment, which gradually returned to normal within 3 d. A
systematic review analysed the FMT-related AEs reported in 129 studies worldwide
from 2000 to 2020, and the results showed that the total incidence of FMT-related AEs
was 19% \([29]\). The low number of adverse reactions in the current study may be related to
the use of WMT instead of FMT or the small sample size. Due to the short follow-up time, the current study could not clarify the long-term safety of WMT for the treatment of HUA.

The current study also has the following limitations: (1) no analysis of the effects of WMT on the improvement of gout flares in people with HUA; (2) no placebo control group or UA-lowering drug group; and (3) a single-centre design, which may lead to regional and genetic background bias.

CONCLUSION
WMT reduces SUA levels of patients with HUA in the short term with mild side effects but has no obvious effect on the SUA level of patients with NUA.

ARTICLE HIGHLIGHTS
Research background
Hyperuricaemia (HUA) pathogenesis is closely associated with intestinal bacteria.

Research motivation
Current treatments for HUA have failed to obtained satisfactory clinical results.

Research objectives
To investigate the effect and safety of washed microbiota transplantation (WMT) on serum uric acid (SUA) levels in different populations.

Research methods
A total of 144 patients who received WMT from July 2016 to April 2020 in the First Affiliated Hospital of Guangdong Pharmaceutical University and had SUA data before treatment were selected. The changes in SUA levels before and after treatment were retrospectively reviewed. According to the pretreatment SUA level, the patients were divided into a hyperuricaemia group (HUA group: SUA >416 μM) and a normal uric
acid group (NUA group: SUA ≥202 μM and ≤416 μM). SPSS 26.0 was used to analyse the data.

**Research results**

The average short-term SUA levels in the HUA group decreased after WMT (481.00±99.85 vs. 546.81±109.64 μM, n=32, P<0.05). The levels decreased in 25/32 patients and returned to normal in 10/32 patients. The short-term level of SUA reduction after treatment moderately correlated with the SUA levels before treatment (r=0.549, R²=0.30, P<0.05). The average SUA levels decreased after the first and second courses of WMT (469.74±97.68 vs. 540.00±107.16 μM, n=35, 465.57±88.88 vs. 513.19±78.14 μM, n=21, P<0.05). Short-term and mid-term SUA levels in the NUA group after WMT and SUA levels after the first, second and third courses of WMT were similar to those before WMT (P>0.05). Only 1/144 patients developed mild diarrhoea after WMT.

**Research conclusions**

WMT can lower the SUA level in patients with HUA in the short term with mild side effects, but WMT has no obvious effect on the SUA level of patients with NUA.

**Research perspectives**

WMT may be a novel treatment for HUA.

**ACKNOWLEDGEMENTS**

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